

APPENDIX C

RVCOG WATER REPORTS FOR STORMWATER AND BEAR CREEK SAMPLES COLLECTED ON:

11/09/2021

01/03/2022

03/15/2022

10/22/2022

03/13/2023

05/02/2023



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Wednesday, December 28, 2022

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A1K0412 - Almeda Post Fire Monitoring-2021 - Almeda Post Fire Monitoring-2021-23

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1K0412, which was received by the laboratory on 11/10/2021 at 11:55:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1

9.8 degC

Cooler #2

9.4 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

**ANALYTICAL REPORT**

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WVV	A1K0412-01	Water	11/09/21 07:00	11/10/21 11:55
NRT	A1K0412-02	Water	11/09/21 07:30	11/10/21 11:55
Colver Rd	A1K0412-03	Water	11/09/21 06:30	11/10/21 11:55

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL CASE NARRATIVE

Work Order: A1K0412

Amended Report Revision #3:

This report supersedes all previous reports.

The EPA Method 8270E Tentatively Identified Compounds (TIC) results are included in this report.

Michele Poquiz
Forensic Project Manager
12/9/22

Amended Report Revision #2

Partial final results have been included in this report. The pending EPA Method 8270E Tentatively Identified Compounds (TIC) results will be included in an amended final report.

Michele Poquiz
Forensic Services Technical Specialist
05/19/22

Amended Report Revision #1

This report supersedes all previous reports.

This report has been amended to include the subcontract reports from ALS and APPL .

This report has also been amended to remove the draft EPA Method 8270E Tentatively Identified Compounds (TIC) data. Updated TIC data will be included in the final report.

Michele Poquiz
Forensic Services Technical Specialist
2/2/22

Temperature Exceedance-

Samples were received at 9.8 and 9.4 °C, which exceeds the regulatory requirements for proper storage at less than or equal to 6 °C. Affected samples or specific analyses have been qualified with "TEMP" in this report.

Anissa Kepa
Sample Control
11/10/21

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Subcontracts -

This report is complete only when subcontract laboratory reports are attached from:

ALS Environmental - Burlington Laboratory, Canada for Polybrominated compound analyses and

Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Amy Patton

Forensic Project Manager

12/15/2021

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

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A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)		Matrix: Water			Batch: 21K0531		TEMP	
Diesel	ND	0.104	0.208	mg/L	1	11/15/21 10:44	NWTPH-Dx	
Oil	ND	0.208	0.417	mg/L	1	11/15/21 10:44	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 106 %		Limits: 50-150 %	1	11/15/21 10:44	NWTPH-Dx	
NRT (A1K0412-02)		Matrix: Water			Batch: 21K0946		TEMP	
Diesel	ND	0.100	0.200	mg/L	1	11/22/21 23:52	NWTPH-Dx	
Oil	ND	0.200	0.400	mg/L	1	11/22/21 23:52	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %	1	11/22/21 23:52	NWTPH-Dx	
Colver Rd (A1K0412-03)		Matrix: Water			Batch: 21K0946		TEMP	
Diesel	ND	0.0943	0.189	mg/L	1	11/23/21 00:13	NWTPH-Dx	
Oil	ND	0.189	0.377	mg/L	1	11/23/21 00:13	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %	1	11/23/21 00:13	NWTPH-Dx	

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Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)		Matrix: Water			Batch: 21K0967		TEMP	
Diesel	ND	0.104	0.208	mg/L	1	11/22/21 23:50	NWTPH-Dx/SG	
Oil	ND	0.208	0.417	mg/L	1	11/22/21 23:50	NWTPH-Dx/SG	
Surrogate: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %	1	11/22/21 23:50	NWTPH-Dx/SG	
NRT (A1K0412-02)		Matrix: Water			Batch: 21K0968		TEMP	
Diesel	ND	0.100	0.200	mg/L	1	11/23/21 01:42	NWTPH-Dx/SG	
Oil	ND	0.200	0.400	mg/L	1	11/23/21 01:42	NWTPH-Dx/SG	
Surrogate: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %	1	11/23/21 01:42	NWTPH-Dx/SG	
Colver Rd (A1K0412-03)		Matrix: Water			Batch: 21K0968		TEMP	
Diesel	ND	0.0943	0.189	mg/L	1	11/23/21 02:04	NWTPH-Dx/SG	
Oil	ND	0.189	0.377	mg/L	1	11/23/21 02:04	NWTPH-Dx/SG	
Surrogate: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %	1	11/23/21 02:04	NWTPH-Dx/SG	

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Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVW (A1K0412-01)				Matrix: Water		Batch: 21K0658		TEMP
Acenaphthene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Acenaphthylene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Anthracene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Benz(a)anthracene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Benzo(a)pyrene	ND	0.0152	0.0303	ug/L	1	11/16/21 17:03	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0152	0.0303	ug/L	1	11/16/21 17:03	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0152	0.0303	ug/L	1	11/16/21 17:03	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Chrysene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Fluoranthene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Fluorene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
1-Methylnaphthalene	ND	0.0202	0.0404	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Methylnaphthalene	ND	0.0202	0.0404	ug/L	1	11/16/21 17:03	EPA 8270E	
Naphthalene	ND	0.0202	0.0404	ug/L	1	11/16/21 17:03	EPA 8270E	
Phenanthrene	ND	0.0202	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Pyrene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Carbazole	ND	0.0152	0.0303	ug/L	1	11/16/21 17:03	EPA 8270E	
Dibenzofuran	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Chlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4-Dichlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4-Dimethylphenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4-Dinitrophenol	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Methylphenol	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Nitrophenol	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Nitrophenol	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
Pentachlorophenol (PCP)	0.242	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
Phenol	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVV (A1K0412-01)				Matrix: Water		Batch: 21K0658		TEMP
2,3,4,6-Tetrachlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Butyl benzyl phthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Diethylphthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Dimethylphthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Di-n-butylphthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Di-n-octyl phthalate	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0505	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Hexachlorobenzene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
Hexachlorobutadiene	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
Hexachloroethane	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Chloronaphthalene	ND	0.0101	0.0202	ug/L	1	11/16/21 17:03	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Aniline	ND	0.0505	0.101	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Chloroaniline	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
2-Nitroaniline	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
3-Nitroaniline	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
4-Nitroaniline	ND	0.202	0.404	ug/L	1	11/16/21 17:03	EPA 8270E	
Nitrobenzene	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
2,4-Dinitrotoluene	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
2,6-Dinitrotoluene	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVW (A1K0412-01)				Matrix: Water		Batch: 21K0658		TEMP
Benzoic acid	ND	1.26	2.53	ug/L	1	11/16/21 17:03	EPA 8270E	Q-52
Benzyl alcohol	ND	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
Isophorone	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.505	1.01	ug/L	1	11/16/21 17:03	EPA 8270E	
1,2-Dinitrobenzene	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	
1,3-Dinitrobenzene	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	
1,4-Dinitrobenzene	ND	0.253	0.505	ug/L	1	11/16/21 17:03	EPA 8270E	J
Pyridine	0.149	0.101	0.202	ug/L	1	11/16/21 17:03	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	11/16/21 17:03	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 74 %		Limits: 44-120 %	1	11/16/21 17:03	EPA 8270E	Q-41
2-Fluorobiphenyl (Surr)		74 %		44-120 %	1	11/16/21 17:03	EPA 8270E	
Phenol-d6 (Surr)		28 %		10-133 %	1	11/16/21 17:03	EPA 8270E	
p-Terphenyl-d14 (Surr)		85 %		50-134 %	1	11/16/21 17:03	EPA 8270E	
2-Fluorophenol (Surr)		41 %		19-120 %	1	11/16/21 17:03	EPA 8270E	
2,4,6-Tribromophenol (Surr)		101 %		43-140 %	1	11/16/21 17:03	EPA 8270E	Q-41
NRT (A1K0412-02RE2)				Matrix: Water		Batch: 21K0658		TEMP
Acenaphthene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	J
Acenaphthylene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Anthracene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Benz(a)anthracene	0.0184	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Benzo(a)pyrene	0.0351	0.0170	0.0341	ug/L	1	11/16/21 18:12	EPA 8270E	
Benzo(b)fluoranthene	0.0593	0.0170	0.0341	ug/L	1	11/16/21 18:12	EPA 8270E	J
Benzo(k)fluoranthene	0.0288	0.0170	0.0341	ug/L	1	11/16/21 18:12	EPA 8270E	
Benzo(g,h,i)perylene	0.0255	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Chrysene	0.0434	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Fluoranthene	0.0592	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	B-02
Fluorene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	

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12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 9 of 100

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NRT (A1K0412-02RE2)				Matrix: Water		Batch: 21K0658		TEMP
Indeno(1,2,3-cd)pyrene	0.0277	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
1-Methylnaphthalene	ND	0.0227	0.0455	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Methylnaphthalene	ND	0.0227	0.0455	ug/L	1	11/16/21 18:12	EPA 8270E	
Naphthalene	ND	0.0227	0.0455	ug/L	1	11/16/21 18:12	EPA 8270E	
Phenanthrene	0.0267	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	B-02
Pyrene	0.0555	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Carbazole	ND	0.0170	0.0341	ug/L	1	11/16/21 18:12	EPA 8270E	
Dibenzofuran	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Chlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4-Dichlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4-Dimethylphenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4-Dinitrophenol	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Methylphenol	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Nitrophenol	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Nitrophenol	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
Pentachlorophenol (PCP)	0.143	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	J
Phenol	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.473	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Butyl benzyl phthalate	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Diethylphthalate	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Dimethylphthalate	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Di-n-butylphthalate	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Di-n-octyl phthalate	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0568	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NRT (A1K0412-02RE2)				Matrix: Water		Batch: 21K0658		TEMP
N-Nitrosodiphenylamine	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Hexachlorobenzene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
Hexachlorobutadiene	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
Hexachloroethane	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Chloronaphthalene	ND	0.0114	0.0227	ug/L	1	11/16/21 18:12	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Aniline	ND	0.0568	0.114	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Chloroaniline	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
2-Nitroaniline	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
3-Nitroaniline	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
4-Nitroaniline	ND	0.227	0.455	ug/L	1	11/16/21 18:12	EPA 8270E	
Nitrobenzene	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
2,4-Dinitrotoluene	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
2,6-Dinitrotoluene	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
Benzoic acid	ND	1.42	2.84	ug/L	1	11/16/21 18:12	EPA 8270E	
Benzyl alcohol	ND	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	
Isophorone	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0568	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.568	1.14	ug/L	1	11/16/21 18:12	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
1,3-Dinitrobenzene	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
1,4-Dinitrobenzene	ND	0.284	0.568	ug/L	1	11/16/21 18:12	EPA 8270E	
Pyridine	0.114	0.114	0.227	ug/L	1	11/16/21 18:12	EPA 8270E	J
1,2-Dichlorobenzene	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NRT (A1K0412-02RE2)				Matrix: Water		Batch: 21K0658		TEMP
1,4-Dichlorobenzene	ND	0.0284	0.0568	ug/L	1	11/16/21 18:12	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	60 %	<i>Limits:</i>	44-120 %	1	11/16/21 18:12	EPA 8270E Q-41
<i>2-Fluorobiphenyl (Surr)</i>			65 %		44-120 %	1	11/16/21 18:12	EPA 8270E
<i>Phenol-d6 (Surr)</i>			23 %		10-133 %	1	11/16/21 18:12	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			85 %		50-134 %	1	11/16/21 18:12	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			32 %		19-120 %	1	11/16/21 18:12	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			102 %		43-140 %	1	11/16/21 18:12	EPA 8270E Q-41
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0658		TEMP
Acenaphthene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Acenaphthylene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Anthracene	0.0110	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	J
Benz(a)anthracene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzo(a)pyrene	ND	0.0165	0.0330	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0165	0.0330	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0165	0.0330	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Chrysene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Fluoranthene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Fluorene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
1-Methylnaphthalene	ND	0.0220	0.0440	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Methylnaphthalene	ND	0.0220	0.0440	ug/L	1	11/16/21 17:37	EPA 8270E	
Naphthalene	ND	0.0220	0.0440	ug/L	1	11/16/21 17:37	EPA 8270E	
Phenanthrene	ND	0.0220	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Pyrene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Carbazole	ND	0.0165	0.0330	ug/L	1	11/16/21 17:37	EPA 8270E	
Dibenzofuran	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Chlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
2,4-Dichlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
2,4-Dimethylphenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0658		TEMP
2,4-Dinitrophenol	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Methylphenol	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Nitrophenol	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Nitrophenol	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
Pentachlorophenol (PCP)	0.174	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	J
Phenol	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Butyl benzyl phthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Diethylphthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Dimethylphthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Di-n-butylphthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Di-n-octyl phthalate	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0549	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Hexachlorobenzene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
Hexachlorobutadiene	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
Hexachloroethane	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Chloronaphthalene	ND	0.0110	0.0220	ug/L	1	11/16/21 17:37	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0658		TEMP
Aniline	ND	0.0549	0.110	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Chloroaniline	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
2-Nitroaniline	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
3-Nitroaniline	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
4-Nitroaniline	ND	0.220	0.440	ug/L	1	11/16/21 17:37	EPA 8270E	
Nitrobenzene	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
2,4-Dinitrotoluene	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
2,6-Dinitrotoluene	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzoic acid	ND	1.37	2.75	ug/L	1	11/16/21 17:37	EPA 8270E	
Benzyl alcohol	ND	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	
Isophorone	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.549	1.10	ug/L	1	11/16/21 17:37	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
1,3-Dinitrobenzene	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
1,4-Dinitrobenzene	ND	0.275	0.549	ug/L	1	11/16/21 17:37	EPA 8270E	
Pyridine	0.115	0.110	0.220	ug/L	1	11/16/21 17:37	EPA 8270E	J
1,2-Dichlorobenzene	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0275	0.0549	ug/L	1	11/16/21 17:37	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	67 %	Limits:	44-120 %	1	11/16/21 17:37	EPA 8270E Q-41
2-Fluorobiphenyl (Surr)			64 %		44-120 %	1	11/16/21 17:37	EPA 8270E
Phenol-d6 (Surr)			23 %		10-133 %	1	11/16/21 17:37	EPA 8270E
p-Terphenyl-d14 (Surr)			82 %		50-134 %	1	11/16/21 17:37	EPA 8270E
2-Fluorophenol (Surr)			36 %		19-120 %	1	11/16/21 17:37	EPA 8270E
2,4,6-Tribromophenol (Surr)			95 %		43-140 %	1	11/16/21 17:37	EPA 8270E Q-41

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AMENDED REPORT

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVV (A1K0412-01) Matrix: Water								
Batch: 21K0952								
Aluminum	1070	25.0	50.0	ug/L	1	11/23/21 07:47	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	11/23/21 07:47	EPA 200.8	
Arsenic	0.921	0.500	1.00	ug/L	1	11/23/21 07:47	EPA 200.8	J
Beryllium	ND	0.100	0.200	ug/L	1	11/23/21 07:47	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/23/21 07:47	EPA 200.8	
Calcium	28800	375	600	ug/L	1	11/23/21 07:47	EPA 200.8	
Chromium	1.88	1.00	2.00	ug/L	1	11/23/21 07:47	EPA 200.8	J, Q-37
Copper	5.02	1.00	2.00	ug/L	1	11/23/21 07:47	EPA 200.8	
Iron	1150	25.0	50.0	ug/L	1	11/23/21 07:47	EPA 200.8	
Lead	2.09	0.100	0.200	ug/L	1	11/23/21 07:47	EPA 200.8	
Magnesium	6940	75.0	150	ug/L	1	11/23/21 07:47	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/23/21 07:47	EPA 200.8	
Nickel	1.86	1.00	2.00	ug/L	1	11/23/21 07:47	EPA 200.8	J
Selenium	ND	0.500	1.00	ug/L	1	11/23/21 07:47	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/23/21 07:47	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/23/21 07:47	EPA 200.8	
Zinc	17.2	2.00	4.00	ug/L	1	11/23/21 07:47	EPA 200.8	

NRT (A1K0412-02)

Matrix: Water

Batch: 21K0952								
Aluminum	366	25.0	50.0	ug/L	1	11/23/21 08:12	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Arsenic	ND	0.500	1.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	11/23/21 08:12	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/23/21 08:12	EPA 200.8	
Calcium	2500	375	600	ug/L	1	11/23/21 08:12	EPA 200.8	
Chromium	ND	1.00	2.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Copper	3.97	1.00	2.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Iron	469	25.0	50.0	ug/L	1	11/23/21 08:12	EPA 200.8	
Lead	1.19	0.100	0.200	ug/L	1	11/23/21 08:12	EPA 200.8	
Magnesium	341	75.0	150	ug/L	1	11/23/21 08:12	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/23/21 08:12	EPA 200.8	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NRT (A1K0412-02)		Matrix: Water						
Nickel	ND	1.00	2.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/23/21 08:12	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/23/21 08:12	EPA 200.8	
Zinc	83.2	2.00	4.00	ug/L	1	11/23/21 08:12	EPA 200.8	
Colver Rd (A1K0412-03)		Matrix: Water						
Batch: 21K0952								
Aluminum	666	25.0	50.0	ug/L	1	11/23/21 08:22	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	11/23/21 08:22	EPA 200.8	
Arsenic	0.611	0.500	1.00	ug/L	1	11/23/21 08:22	EPA 200.8	J
Beryllium	ND	0.100	0.200	ug/L	1	11/23/21 08:22	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/23/21 08:22	EPA 200.8	
Calcium	5140	375	600	ug/L	1	11/23/21 08:22	EPA 200.8	
Chromium	1.69	1.00	2.00	ug/L	1	11/23/21 08:22	EPA 200.8	J
Copper	3.66	1.00	2.00	ug/L	1	11/23/21 08:22	EPA 200.8	
Iron	664	25.0	50.0	ug/L	1	11/23/21 08:22	EPA 200.8	
Lead	0.474	0.100	0.200	ug/L	1	11/23/21 08:22	EPA 200.8	
Magnesium	1050	75.0	150	ug/L	1	11/23/21 08:22	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/23/21 08:22	EPA 200.8	
Nickel	1.27	1.00	2.00	ug/L	1	11/23/21 08:22	EPA 200.8	J
Selenium	ND	0.500	1.00	ug/L	1	11/23/21 08:22	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/23/21 08:22	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/23/21 08:22	EPA 200.8	
Zinc	22.7	2.00	4.00	ug/L	1	11/23/21 08:22	EPA 200.8	

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Central Point, OR 97502

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVV (A1K0412-01)				Matrix: Water		(Calculated)		
Hardness	100	---	2.12	mg CaCO3/L	1	11/23/21 07:47	SM 2340B	
NRT (A1K0412-02)				Matrix: Water		(Calculated)		
Hardness	7.63	---	2.12	mg CaCO3/L	1	11/23/21 08:12	SM 2340B	
Colver Rd (A1K0412-03)				Matrix: Water		(Calculated)		
Hardness	17.2	---	2.12	mg CaCO3/L	1	11/23/21 08:22	SM 2340B	

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ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)				Matrix: Water		Batch: 21K0815		TEMP
Total Kjeldahl Nitrogen (TKN)	0.313	0.100	0.200	mg/L	1	11/19/21 14:18	EPA 351.2	
NRT (A1K0412-02)				Matrix: Water		Batch: 21K0815		TEMP
Total Kjeldahl Nitrogen (TKN)	0.232	0.100	0.200	mg/L	1	11/19/21 14:19	EPA 351.2	
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0815		TEMP
Total Kjeldahl Nitrogen (TKN)	0.235	0.100	0.200	mg/L	1	11/19/21 14:21	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)				Matrix: Water		Batch: 21K0801		TEMP
Total Organic Carbon	3.96	1.00	1.00	mg/L	1	11/19/21 03:40	SM 5310 C	
NRT (A1K0412-02)				Matrix: Water		Batch: 21K0801		TEMP
Total Organic Carbon	2.08	1.00	1.00	mg/L	1	11/19/21 04:12	SM 5310 C	
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0801		TEMP
Total Organic Carbon	3.77	1.00	1.00	mg/L	1	11/19/21 04:43	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Dissolved Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVV (A1K0412-01)				Matrix: Water		Batch: 21K0806		TEMP
Dissolved Organic Carbon	3.33	1.00	2.50	mg/L	1	11/19/21 14:23	SM 5310 C (Diss)	
NRT (A1K0412-02)				Matrix: Water		Batch: 21K0806		TEMP
Dissolved Organic Carbon	1.82	1.00	2.50	mg/L	1	11/19/21 14:54	SM 5310 C (Diss)	J
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0806		TEMP
Dissolved Organic Carbon	3.29	1.00	2.50	mg/L	1	11/19/21 15:23	SM 5310 C (Diss)	

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A1K0412 - 12 28 22 1330

ANALYTICAL SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)				Matrix: Water		Batch: 21K0552		TEMP
Phosphorus	0.138	0.0500	0.100	mg/L	1	11/12/21 19:15	SM 4500-P E	
NRT (A1K0412-02)				Matrix: Water		Batch: 21K0552		TEMP
Phosphorus	0.0563	0.0500	0.100	mg/L	1	11/12/21 19:15	SM 4500-P E	J
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0552		TEMP
Phosphorus	0.166	0.0500	0.100	mg/L	1	11/12/21 19:16	SM 4500-P E	

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WVV (A1K0412-01)		Matrix: Water						
Batch: 21K0442								
pH	7.3			pH Units	1	11/10/21 17:27	SM 4500-H+ B	TEMP,H-12
pH Temperature (deg C)	18.6			pH Units	1	11/10/21 17:27	SM 4500-H+ B	TEMP,H-12
NRT (A1K0412-02)		Matrix: Water						
Batch: 21K0442								
pH	6.8			pH Units	1	11/10/21 17:33	SM 4500-H+ B	TEMP,H-12
pH Temperature (deg C)	20.3			pH Units	1	11/10/21 17:33	SM 4500-H+ B	TEMP,H-12
Colver Rd (A1K0412-03)		Matrix: Water						
Batch: 21K0442								
pH	7.3			pH Units	1	11/10/21 17:42	SM 4500-H+ B	TEMP,H-12
pH Temperature (deg C)	21.9			pH Units	1	11/10/21 17:42	SM 4500-H+ B	TEMP,H-12

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)				Matrix: Water			Batch: 21K0677	TEMP
Total Suspended Solids	10.7	5.65	5.65	mg/L	1	11/16/21 10:34	D3977-97 (07)	
NRT (A1K0412-02)				Matrix: Water			Batch: 21K0677	TEMP
Total Suspended Solids	69.1	6.17	6.17	mg/L	1	11/16/21 10:34	D3977-97 (07)	
Colver Rd (A1K0412-03)				Matrix: Water			Batch: 21K0677	TEMP
Total Suspended Solids	10.5	5.52	5.52	mg/L	1	11/16/21 10:34	D3977-97 (07)	

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ANALYTICAL SAMPLE RESULTS

Lab Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
WV (A1K0412-01)				Matrix: Water		Batch: 21K0457		TEMP
Lab Filtration (prep only)	PREP			N/A	1	11/10/21 18:09	NA	H-13
NRT (A1K0412-02)				Matrix: Water		Batch: 21K0457		TEMP
Lab Filtration (prep only)	PREP			N/A	1	11/10/21 18:09	NA	H-13
Colver Rd (A1K0412-03)				Matrix: Water		Batch: 21K0457		TEMP
Lab Filtration (prep only)	PREP			N/A	1	11/10/21 18:09	NA	H-13

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 21K0531 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (21K0531-BLK1)			Prepared: 11/12/21 07:15 Analyzed: 11/15/21 09:43										
NWTPH-Dx													
Diesel	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---		
Oil	ND	0.200	0.400	mg/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x							
LCS (21K0531-BS1)			Prepared: 11/12/21 07:15 Analyzed: 11/15/21 10:03										
NWTPH-Dx													
Diesel	1.25	0.100	0.200	mg/L	1	1.25	---	100	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 104 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (21K0531-BSD1)			Prepared: 11/12/21 07:15 Analyzed: 11/15/21 10:24										Q-19
NWTPH-Dx													
Diesel	1.25	0.100	0.200	mg/L	1	1.25	---	100	36-132%	0.4	30%		
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x							
Batch 21K0946 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (21K0946-BLK1)			Prepared: 11/22/21 13:09 Analyzed: 11/22/21 22:51										
NWTPH-Dx													
Diesel	ND	0.0909	0.182	mg/L	1	---	---	---	---	---	---		
Oil	ND	0.182	0.364	mg/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x							
LCS (21K0946-BS1)			Prepared: 11/22/21 13:09 Analyzed: 11/22/21 23:12										
NWTPH-Dx													
Diesel	0.982	0.100	0.200	mg/L	1	1.25	---	79	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (21K0946-BSD1)			Prepared: 11/22/21 13:09 Analyzed: 11/22/21 23:32										Q-19
NWTPH-Dx													
Diesel	1.10	0.100	0.200	mg/L	1	1.25	---	88	36-132%	11	30%		
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x							

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Project: **Alameda Post Fire Monitoring-2021**Project Number: **Alameda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 21K0967 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel + Acid						Water							
Blank (21K0967-BLK1)			Prepared: 11/12/21 07:15 Analyzed: 11/22/21 22:43										
NWTPH-Dx/SG													
Diesel	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---		
Oil	ND	0.200	0.400	mg/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x							
LCS (21K0967-BS1)			Prepared: 11/12/21 07:15 Analyzed: 11/22/21 23:05										
NWTPH-Dx/SG													
Diesel	1.31	0.100	0.200	mg/L	1	1.25	---	104	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 105 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (21K0967-BSD1)			Prepared: 11/12/21 07:15 Analyzed: 11/22/21 23:27										Q-19
NWTPH-Dx/SG													
Diesel	1.22	0.100	0.200	mg/L	1	1.25	---	97	36-132%	7	30%		
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x							

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Michele Poquiz For Kurt Johnson, Senior Chemist

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12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 26 of 100



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 21K0968 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel + Acid						Water							
Blank (21K0968-BLK1)			Prepared: 11/22/21 13:09 Analyzed: 11/23/21 00:34										
NWTPH-Dx/SG													
Diesel	ND	0.0909	0.182	mg/L	1	---	---	---	---	---	---		
Oil	ND	0.182	0.364	mg/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x							
LCS (21K0968-BS1)			Prepared: 11/22/21 13:09 Analyzed: 11/23/21 00:57										
NWTPH-Dx/SG													
Diesel	1.03	0.100	0.200	mg/L	1	1.25	---	82	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (21K0968-BSD1)			Prepared: 11/22/21 13:09 Analyzed: 11/23/21 01:19										Q-19
NWTPH-Dx/SG													
Diesel	1.18	0.100	0.200	mg/L	1	1.25	---	94	36-132%	14	30%		
Surr: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x							

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (21K0658-BLK1)			Prepared: 11/16/21 07:05		Analyzed: 11/16/21 14:14							
EPA 8270E												
Acenaphthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	0.0111	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	B-02, J
Fluorene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	0.0100	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	B-02, J
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	

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503-718-2323

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (21K0658-BLK1)						Prepared: 11/16/21 07:05 Analyzed: 11/16/21 14:14						
2,3,5,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.25	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	

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Project Manager: Greg Stabach

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A1K0412 - 12 28 22 1330

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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (21K0658-BLK1)			Prepared: 11/16/21 07:05		Analyzed: 11/16/21 14:14							
Azobenzene (1,2-DPH)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 76 %		Limits: 44-120 %		Dilution: 1x		Q-41				
2-Fluorobiphenyl (Surr)		74 %		44-120 %		"						
Phenol-d6 (Surr)		31 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		86 %		50-134 %		"						
2-Fluorophenol (Surr)		45 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		84 %		43-140 %		"		Q-41				
LCS (21K0658-BS1)			Prepared: 11/16/21 07:05		Analyzed: 11/16/21 14:49							
EPA 8270E												
Acenaphthene	3.14	0.0200	0.0400	ug/L	2	4.00	---	78	47-122%	---	---	B-02
Acenaphthylene	3.41	0.0200	0.0400	ug/L	2	4.00	---	85	41-130%	---	---	
Anthracene	3.45	0.0200	0.0400	ug/L	2	4.00	---	86	57-123%	---	---	
Benz(a)anthracene	3.59	0.0200	0.0400	ug/L	2	4.00	---	90	58-125%	---	---	
Benzo(a)pyrene	3.63	0.0300	0.0600	ug/L	2	4.00	---	91	54-128%	---	---	
Benzo(b)fluoranthene	3.63	0.0300	0.0600	ug/L	2	4.00	---	91	53-131%	---	---	
Benzo(k)fluoranthene	3.62	0.0300	0.0600	ug/L	2	4.00	---	90	57-129%	---	---	
Benzo(g,h,i)perylene	3.23	0.0200	0.0400	ug/L	2	4.00	---	81	50-134%	---	---	
Chrysene	3.44	0.0200	0.0400	ug/L	2	4.00	---	86	59-123%	---	---	
Dibenz(a,h)anthracene	3.61	0.0200	0.0400	ug/L	2	4.00	---	90	51-134%	---	---	
Fluoranthene	3.63	0.0200	0.0400	ug/L	2	4.00	---	91	57-128%	---	---	
Fluorene	3.32	0.0200	0.0400	ug/L	2	4.00	---	83	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.15	0.0200	0.0400	ug/L	2	4.00	---	79	52-134%	---	---	
1-Methylnaphthalene	2.92	0.0400	0.0800	ug/L	2	4.00	---	73	41-120%	---	---	

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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (21K0658-BS1)						Prepared: 11/16/21 07:05 Analyzed: 11/16/21 14:49						
2-Methylnaphthalene	2.83	0.0400	0.0800	ug/L	2	4.00	---	71	40-121%	---	---	
Naphthalene	2.84	0.0400	0.0800	ug/L	2	4.00	---	71	40-121%	---	---	
Phenanthrene	3.31	0.0200	0.0400	ug/L	2	4.00	---	83	59-120%	---	---	B-02
Pyrene	3.61	0.0200	0.0400	ug/L	2	4.00	---	90	57-126%	---	---	
Carbazole	3.96	0.0300	0.0600	ug/L	2	4.00	---	99	60-122%	---	---	
Dibenzofuran	3.25	0.0200	0.0400	ug/L	2	4.00	---	81	53-120%	---	---	
2-Chlorophenol	3.22	0.100	0.200	ug/L	2	4.00	---	81	38-120%	---	---	
4-Chloro-3-methylphenol	3.42	0.200	0.400	ug/L	2	4.00	---	86	52-120%	---	---	
2,4-Dichlorophenol	3.51	0.100	0.200	ug/L	2	4.00	---	88	47-121%	---	---	
2,4-Dimethylphenol	3.38	0.100	0.200	ug/L	2	4.00	---	85	31-124%	---	---	
2,4-Dinitrophenol	4.58	0.500	1.00	ug/L	2	4.00	---	115	23-143%	---	---	
4,6-Dinitro-2-methylphenol	4.81	0.500	1.00	ug/L	2	4.00	---	120	44-137%	---	---	Q-41
2-Methylphenol	3.02	0.0500	0.100	ug/L	2	4.00	---	76	30-120%	---	---	
3+4-Methylphenol(s)	2.85	0.0500	0.100	ug/L	2	4.00	---	71	29-120%	---	---	
2-Nitrophenol	3.70	0.200	0.400	ug/L	2	4.00	---	92	47-123%	---	---	Q-41
4-Nitrophenol	1.38	0.200	0.400	ug/L	2	4.00	---	35	10-120%	---	---	
Pentachlorophenol (PCP)	3.20	0.200	0.400	ug/L	2	4.00	---	80	35-138%	---	---	
Phenol	1.60	0.400	0.800	ug/L	2	4.00	---	40	10-120%	---	---	Q-41
2,3,4,6-Tetrachlorophenol	3.65	0.100	0.200	ug/L	2	4.00	---	91	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.89	0.100	0.200	ug/L	2	4.00	---	97	50-121%	---	---	
2,4,5-Trichlorophenol	3.57	0.100	0.200	ug/L	2	4.00	---	89	53-123%	---	---	
2,4,6-Trichlorophenol	3.63	0.100	0.200	ug/L	2	4.00	---	91	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.54	0.400	0.800	ug/L	2	4.00	---	88	55-135%	---	---	
Butyl benzyl phthalate	3.55	0.400	0.800	ug/L	2	4.00	---	89	53-134%	---	---	
Diethylphthalate	3.42	0.400	0.800	ug/L	2	4.00	---	86	56-125%	---	---	
Dimethylphthalate	3.43	0.400	0.800	ug/L	2	4.00	---	86	45-127%	---	---	
Di-n-butylphthalate	3.81	0.400	0.800	ug/L	2	4.00	---	95	59-127%	---	---	
Di-n-octyl phthalate	3.60	0.400	0.800	ug/L	2	4.00	---	90	51-140%	---	---	
N-Nitrosodimethylamine	2.07	0.0500	0.100	ug/L	2	4.00	---	52	10-120%	---	---	
N-Nitroso-di-n-propylamine	3.41	0.0500	0.100	ug/L	2	4.00	---	85	49-120%	---	---	
N-Nitrosodiphenylamine	3.62	0.0500	0.100	ug/L	2	4.00	---	91	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.39	0.0500	0.100	ug/L	2	4.00	---	85	48-120%	---	---	
Bis(2-Chloroethyl) ether	3.46	0.0500	0.100	ug/L	2	4.00	---	87	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	3.54	0.0500	0.100	ug/L	2	4.00	---	89	37-130%	---	---	Q-41

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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (21K0658-BS1)						Prepared: 11/16/21 07:05 Analyzed: 11/16/21 14:49						
Hexachlorobenzene	3.36	0.0200	0.0400	ug/L	2	4.00	---	84	53-125%	---	---	
Hexachlorobutadiene	2.47	0.0500	0.100	ug/L	2	4.00	---	62	22-124%	---	---	
Hexachlorocyclopentadiene	2.28	0.100	0.200	ug/L	2	4.00	---	57	10-127%	---	---	
Hexachloroethane	2.43	0.0500	0.100	ug/L	2	4.00	---	61	21-120%	---	---	
2-Chloronaphthalene	3.09	0.0200	0.0400	ug/L	2	4.00	---	77	40-120%	---	---	
1,2,4-Trichlorobenzene	2.68	0.0500	0.100	ug/L	2	4.00	---	67	29-120%	---	---	
4-Bromophenyl phenyl ether	3.45	0.0500	0.100	ug/L	2	4.00	---	86	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.30	0.0500	0.100	ug/L	2	4.00	---	82	53-121%	---	---	
Aniline	1.91	0.100	0.200	ug/L	2	4.00	---	48	10-120%	---	---	
4-Chloroaniline	2.90	0.0500	0.100	ug/L	2	4.00	---	73	33-120%	---	---	
2-Nitroaniline	4.01	0.400	0.800	ug/L	2	4.00	---	100	55-127%	---	---	Q-41
3-Nitroaniline	3.91	0.400	0.800	ug/L	2	4.00	---	98	41-128%	---	---	Q-41
4-Nitroaniline	2.80	0.400	0.800	ug/L	2	4.00	---	70	54-128%	---	---	
Nitrobenzene	3.48	0.200	0.400	ug/L	2	4.00	---	87	45-121%	---	---	
2,4-Dinitrotoluene	4.02	0.200	0.400	ug/L	2	4.00	---	101	57-128%	---	---	Q-41
2,6-Dinitrotoluene	3.90	0.200	0.400	ug/L	2	4.00	---	98	57-124%	---	---	Q-41
Benzoic acid	3.01	2.50	5.00	ug/L	2	8.00	---	38	10-120%	---	---	J
Benzyl alcohol	2.66	0.200	0.400	ug/L	2	4.00	---	66	31-120%	---	---	
Isophorone	3.53	0.0500	0.100	ug/L	2	4.00	---	88	42-124%	---	---	
Azobenzene (1,2-DPH)	3.57	0.0500	0.100	ug/L	2	4.00	---	89	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	3.84	0.500	1.00	ug/L	2	4.00	---	96	57-136%	---	---	
3,3'-Dichlorobenzidine	11.3	1.00	2.00	ug/L	2	8.00	---	142	27-129%	---	---	Q-29, Q-41
1,2-Dinitrobenzene	3.92	0.500	1.00	ug/L	2	4.00	---	98	59-120%	---	---	Q-41
1,3-Dinitrobenzene	4.30	0.500	1.00	ug/L	2	4.00	---	107	49-128%	---	---	Q-41
1,4-Dinitrobenzene	4.47	0.500	1.00	ug/L	2	4.00	---	112	72-130%	---	---	Q-41
Pyridine	1.40	0.200	0.400	ug/L	2	4.00	---	35	10-120%	---	---	
1,2-Dichlorobenzene	2.51	0.0500	0.100	ug/L	2	4.00	---	63	32-120%	---	---	
1,3-Dichlorobenzene	2.44	0.0500	0.100	ug/L	2	4.00	---	61	28-120%	---	---	
1,4-Dichlorobenzene	2.43	0.0500	0.100	ug/L	2	4.00	---	61	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr) Recovery: 91 % Limits: 44-120 % Dilution: 2x Q-41												
2-Fluorobiphenyl (Surr) 81 % 44-120 % "												
Phenol-d6 (Surr) 34 % 10-133 % "												
p-Terphenyl-d14 (Surr) 91 % 50-134 % "												
2-Fluorophenol (Surr) 49 % 19-120 % "												

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water							
LCS (21K0658-BS1)			Prepared: 11/16/21 07:05		Analyzed: 11/16/21 14:49								
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 100 %		Limits: 43-140 %		Dilution: 2x		Q-41					
LCS Dup (21K0658-BSD1)			Prepared: 11/16/21 07:05		Analyzed: 11/16/21 15:23								Q-19
EPA 8270E													
Acenaphthene	2.91	0.0200	0.0400	ug/L	2	4.00	---	73	47-122%	8	30%		
Acenaphthylene	3.12	0.0200	0.0400	ug/L	2	4.00	---	78	41-130%	9	30%		
Anthracene	3.43	0.0200	0.0400	ug/L	2	4.00	---	86	57-123%	0.5	30%		
Benz(a)anthracene	3.60	0.0200	0.0400	ug/L	2	4.00	---	90	58-125%	0.3	30%		
Benzo(a)pyrene	3.58	0.0300	0.0600	ug/L	2	4.00	---	90	54-128%	1	30%		
Benzo(b)fluoranthene	3.59	0.0300	0.0600	ug/L	2	4.00	---	90	53-131%	1	30%		
Benzo(k)fluoranthene	3.63	0.0300	0.0600	ug/L	2	4.00	---	91	57-129%	0.3	30%		
Benzo(g,h,i)perylene	3.19	0.0200	0.0400	ug/L	2	4.00	---	80	50-134%	1	30%		
Chrysene	3.44	0.0200	0.0400	ug/L	2	4.00	---	86	59-123%	0.04	30%		
Dibenz(a,h)anthracene	3.61	0.0200	0.0400	ug/L	2	4.00	---	90	51-134%	0.05	30%		
Fluoranthene	3.72	0.0200	0.0400	ug/L	2	4.00	---	93	57-128%	2	30%	B-02	
Fluorene	3.16	0.0200	0.0400	ug/L	2	4.00	---	79	52-124%	5	30%		
Indeno(1,2,3-cd)pyrene	3.05	0.0200	0.0400	ug/L	2	4.00	---	76	52-134%	3	30%		
1-Methylnaphthalene	2.71	0.0400	0.0800	ug/L	2	4.00	---	68	41-120%	8	30%		
2-Methylnaphthalene	2.60	0.0400	0.0800	ug/L	2	4.00	---	65	40-121%	8	30%		
Naphthalene	2.62	0.0400	0.0800	ug/L	2	4.00	---	66	40-121%	8	30%		
Phenanthrene	3.24	0.0200	0.0400	ug/L	2	4.00	---	81	59-120%	2	30%	B-02	
Pyrene	3.74	0.0200	0.0400	ug/L	2	4.00	---	93	57-126%	4	30%		
Carbazole	4.12	0.0300	0.0600	ug/L	2	4.00	---	103	60-122%	4	30%		
Dibenzofuran	3.03	0.0200	0.0400	ug/L	2	4.00	---	76	53-120%	7	30%		
2-Chlorophenol	2.92	0.100	0.200	ug/L	2	4.00	---	73	38-120%	10	30%		
4-Chloro-3-methylphenol	3.12	0.200	0.400	ug/L	2	4.00	---	78	52-120%	9	30%		
2,4-Dichlorophenol	3.29	0.100	0.200	ug/L	2	4.00	---	82	47-121%	6	30%		
2,4-Dimethylphenol	3.11	0.100	0.200	ug/L	2	4.00	---	78	31-124%	8	30%		
2,4-Dinitrophenol	4.91	0.500	1.00	ug/L	2	4.00	---	123	23-143%	7	30%		
4,6-Dinitro-2-methylphenol	4.74	0.500	1.00	ug/L	2	4.00	---	119	44-137%	1	30%	Q-41	
2-Methylphenol	2.64	0.0500	0.100	ug/L	2	4.00	---	66	30-120%	14	30%		
3+4-Methylphenol(s)	2.46	0.0500	0.100	ug/L	2	4.00	---	61	29-120%	15	30%		
2-Nitrophenol	3.45	0.200	0.400	ug/L	2	4.00	---	86	47-123%	7	30%	Q-41	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 33 of 100



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (21K0658-BSD1)						Prepared: 11/16/21 07:05 Analyzed: 11/16/21 15:23						Q-19
4-Nitrophenol	1.36	0.200	0.400	ug/L	2	4.00	---	34	10-120%	2	30%	
Pentachlorophenol (PCP)	3.26	0.200	0.400	ug/L	2	4.00	---	82	35-138%	2	30%	
Phenol	1.39	0.400	0.800	ug/L	2	4.00	---	35	10-120%	14	30%	Q-41
2,3,4,6-Tetrachlorophenol	3.65	0.100	0.200	ug/L	2	4.00	---	91	50-128%	0.05	30%	
2,3,5,6-Tetrachlorophenol	3.74	0.100	0.200	ug/L	2	4.00	---	93	50-121%	4	30%	
2,4,5-Trichlorophenol	3.42	0.100	0.200	ug/L	2	4.00	---	85	53-123%	4	30%	
2,4,6-Trichlorophenol	3.40	0.100	0.200	ug/L	2	4.00	---	85	50-125%	7	30%	
Bis(2-ethylhexyl)phthalate	3.43	0.400	0.800	ug/L	2	4.00	---	86	55-135%	3	30%	
Butyl benzyl phthalate	3.46	0.400	0.800	ug/L	2	4.00	---	86	53-134%	3	30%	
Diethylphthalate	3.26	0.400	0.800	ug/L	2	4.00	---	82	56-125%	5	30%	
Dimethylphthalate	3.29	0.400	0.800	ug/L	2	4.00	---	82	45-127%	4	30%	
Di-n-butylphthalate	3.81	0.400	0.800	ug/L	2	4.00	---	95	59-127%	0.002	30%	
Di-n-octyl phthalate	3.46	0.400	0.800	ug/L	2	4.00	---	86	51-140%	4	30%	
N-Nitrosodimethylamine	1.81	0.0500	0.100	ug/L	2	4.00	---	45	10-120%	14	30%	
N-Nitroso-di-n-propylamine	3.05	0.0500	0.100	ug/L	2	4.00	---	76	49-120%	11	30%	
N-Nitrosodiphenylamine	3.57	0.0500	0.100	ug/L	2	4.00	---	89	51-123%	2	30%	
Bis(2-Chloroethoxy) methane	3.06	0.0500	0.100	ug/L	2	4.00	---	77	48-120%	10	30%	
Bis(2-Chloroethyl) ether	3.10	0.0500	0.100	ug/L	2	4.00	---	78	43-120%	11	30%	
2,2'-Oxybis(1-Chloropropane)	3.13	0.0500	0.100	ug/L	2	4.00	---	78	37-130%	12	30%	Q-41
Hexachlorobenzene	3.37	0.0200	0.0400	ug/L	2	4.00	---	84	53-125%	0.5	30%	
Hexachlorobutadiene	2.39	0.0500	0.100	ug/L	2	4.00	---	60	22-124%	3	30%	
Hexachlorocyclopentadiene	2.05	0.100	0.200	ug/L	2	4.00	---	51	10-127%	10	30%	
Hexachloroethane	2.26	0.0500	0.100	ug/L	2	4.00	---	57	21-120%	7	30%	
2-Chloronaphthalene	2.80	0.0200	0.0400	ug/L	2	4.00	---	70	40-120%	10	30%	
1,2,4-Trichlorobenzene	2.54	0.0500	0.100	ug/L	2	4.00	---	64	29-120%	5	30%	
4-Bromophenyl phenyl ether	3.45	0.0500	0.100	ug/L	2	4.00	---	86	55-124%	0.2	30%	
4-Chlorophenyl phenyl ether	3.18	0.0500	0.100	ug/L	2	4.00	---	80	53-121%	4	30%	
Aniline	1.89	0.100	0.200	ug/L	2	4.00	---	47	10-120%	1	30%	
4-Chloroaniline	2.71	0.0500	0.100	ug/L	2	4.00	---	68	33-120%	7	30%	
2-Nitroaniline	3.77	0.400	0.800	ug/L	2	4.00	---	94	55-127%	6	30%	Q-41
3-Nitroaniline	3.80	0.400	0.800	ug/L	2	4.00	---	95	41-128%	3	30%	Q-41
4-Nitroaniline	3.14	0.400	0.800	ug/L	2	4.00	---	79	54-128%	12	30%	
Nitrobenzene	3.12	0.200	0.400	ug/L	2	4.00	---	78	45-121%	11	30%	
2,4-Dinitrotoluene	3.90	0.200	0.400	ug/L	2	4.00	---	98	57-128%	3	30%	Q-41

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0658 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (21K0658-BSD1)						Prepared: 11/16/21 07:05 Analyzed: 11/16/21 15:23						Q-19
2,6-Dinitrotoluene	3.71	0.200	0.400	ug/L	2	4.00	---	93	57-124%	5	30%	Q-41
Benzoic acid	3.71	2.50	5.00	ug/L	2	8.00	---	46	10-120%	21	30%	J
Benzyl alcohol	2.38	0.200	0.400	ug/L	2	4.00	---	59	31-120%	11	30%	
Isophorone	3.21	0.0500	0.100	ug/L	2	4.00	---	80	42-124%	9	30%	
Azobenzene (1,2-DPH)	3.27	0.0500	0.100	ug/L	2	4.00	---	82	61-120%	9	30%	
Bis(2-Ethylhexyl) adipate	3.70	0.500	1.00	ug/L	2	4.00	---	93	57-136%	4	30%	
3,3'-Dichlorobenzidine	10.9	1.00	2.00	ug/L	2	8.00	---	137	27-129%	3	30%	Q-29, Q-41
1,2-Dinitrobenzene	3.76	0.500	1.00	ug/L	2	4.00	---	94	59-120%	4	30%	Q-41
1,3-Dinitrobenzene	4.13	0.500	1.00	ug/L	2	4.00	---	103	49-128%	4	30%	Q-41
1,4-Dinitrobenzene	4.35	0.500	1.00	ug/L	2	4.00	---	109	72-130%	3	30%	Q-41
Pyridine	1.35	0.200	0.400	ug/L	2	4.00	---	34	10-120%	4	30%	
1,2-Dichlorobenzene	2.35	0.0500	0.100	ug/L	2	4.00	---	59	32-120%	6	30%	
1,3-Dichlorobenzene	2.29	0.0500	0.100	ug/L	2	4.00	---	57	28-120%	6	30%	
1,4-Dichlorobenzene	2.27	0.0500	0.100	ug/L	2	4.00	---	57	29-120%	7	30%	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 80 %	Limits: 44-120 %			Dilution: 2x						Q-41
2-Fluorobiphenyl (Surr)		73 %	44-120 %			"						
Phenol-d6 (Surr)		29 %	10-133 %			"						
p-Terphenyl-d14 (Surr)		89 %	50-134 %			"						
2-Fluorophenol (Surr)		42 %	19-120 %			"						
2,4,6-Tribromophenol (Surr)		99 %	43-140 %			"						Q-41

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Page 35 of 55



ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0952 - EPA 3015A						Water						
Blank (21K0952-BLK1)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 07:22									
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	

LCS (21K0952-BS1)

Prepared: 11/22/21 14:56 Analyzed: 11/23/21 07:27

EPA 200.8												
Aluminum	2840	25.0	50.0	ug/L	1	2780	---	102	85-115%	---	---	
Antimony	29.5	0.500	1.00	ug/L	1	27.8	---	106	85-115%	---	---	
Arsenic	62.3	0.500	1.00	ug/L	1	55.6	---	112	85-115%	---	---	
Beryllium	30.2	0.100	0.200	ug/L	1	27.8	---	109	85-115%	---	---	
Cadmium	58.1	0.100	0.200	ug/L	1	55.6	---	105	85-115%	---	---	
Calcium	2830	375	600	ug/L	1	2780	---	102	85-115%	---	---	
Chromium	55.0	1.00	2.00	ug/L	1	55.6	---	99	85-115%	---	---	
Copper	59.7	1.00	2.00	ug/L	1	55.6	---	107	85-115%	---	---	
Iron	2740	25.0	50.0	ug/L	1	2780	---	99	85-115%	---	---	
Lead	58.7	0.100	0.200	ug/L	1	55.6	---	106	85-115%	---	---	
Magnesium	2810	75.0	150	ug/L	1	2780	---	101	85-115%	---	---	
Mercury	1.03	0.0400	0.0800	ug/L	1	1.11	---	93	85-115%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Rogue Valley Council of Governments

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0952 - EPA 3015A						Water						
LCS (21K0952-BS1)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 07:27									
Nickel	58.2	1.00	2.00	ug/L	1	55.6	---	105	85-115%	---	---	
Selenium	27.4	0.500	1.00	ug/L	1	27.8	---	99	85-115%	---	---	
Silver	28.4	0.100	0.200	ug/L	1	27.8	---	102	85-115%	---	---	
Thallium	28.4	0.100	0.200	ug/L	1	27.8	---	102	85-115%	---	---	
Zinc	58.5	2.00	4.00	ug/L	1	55.6	---	105	85-115%	---	---	
Duplicate (21K0952-DUP1)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 07:52									
QC Source Sample: WVV (A1K0412-01)												
EPA 200.8												
Aluminum	1260	25.0	50.0	ug/L	1	---	1070	---	---	16	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Calcium	30100	375	600	ug/L	1	---	28800	---	---	5	20%	
Chromium	2.37	1.00	2.00	ug/L	1	---	1.88	---	---	23	20%	Q-05
Copper	5.39	1.00	2.00	ug/L	1	---	5.02	---	---	7	20%	
Iron	1310	25.0	50.0	ug/L	1	---	1150	---	---	12	20%	
Lead	2.13	0.100	0.200	ug/L	1	---	2.09	---	---	2	20%	
Magnesium	7280	75.0	150	ug/L	1	---	6940	---	---	5	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	2.06	1.00	2.00	ug/L	1	---	1.86	---	---	10	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Zinc	18.9	2.00	4.00	ug/L	1	---	17.2	---	---	10	20%	
Duplicate (21K0952-DUP2)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 12:13									
QC Source Sample: WVV (A1K0412-01RE1)												
EPA 200.8												
Arsenic	0.955	0.500	1.00	ug/L	1	---	1.01	---	---	6	20%	Q-16, J
Matrix Spike (21K0952-MS2)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 08:17									
QC Source Sample: NRT (A1K0412-02)												

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AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0952 - EPA 3015A						Water						
Matrix Spike (21K0952-MS2)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 08:17									
QC Source Sample: NRT (A1K0412-02)												
EPA 200.8												
Aluminum	2830			ug/L	1	2500	329	100	70-130%	---	---	
Antimony	26.3			ug/L	1	25.0	ND	104	70-130%	---	---	
Arsenic	53.3			ug/L	1	50.0	ND	106	70-130%	---	---	
Beryllium	26.2			ug/L	1	25.0	ND	105	70-130%	---	---	
Cadmium	51.2			ug/L	1	50.0	ND	102	70-130%	---	---	
Calcium	4750			ug/L	1	2500	2250	100	70-130%	---	---	
Chromium	48.4			ug/L	1	50.0	ND	95	70-130%	---	---	
Copper	55.7			ug/L	1	50.0	3.58	104	70-130%	---	---	
Iron	2840			ug/L	1	2500	422	97	70-130%	---	---	
Lead	52.1			ug/L	1	50.0	1.07	102	70-130%	---	---	
Magnesium	2730			ug/L	1	2500	307	97	70-130%	---	---	
Mercury	1.05	0.0400	0.0800	ug/L	1	1.11	ND	94	70-130%	---	---	
Nickel	51.1			ug/L	1	50.0	ND	101	70-130%	---	---	
Selenium	23.9			ug/L	1	25.0	ND	96	70-130%	---	---	
Silver	24.6			ug/L	1	25.0	ND	98	70-130%	---	---	
Thallium	24.4			ug/L	1	25.0	ND	98	70-130%	---	---	
Zinc	126			ug/L	1	50.0	74.9	102	70-130%	---	---	

Matrix Spike (21K0952-MS3)

Prepared: 11/22/21 14:56 Analyzed: 11/23/21 12:18

QC Source Sample: WVV (A1K0412-01RE1)

<u>EPA 200.8</u>												
Aluminum	3590			ug/L	1	2500	927	106	70-130%	---	---	Q-16
Antimony	26.4			ug/L	1	25.0	ND	104	70-130%	---	---	Q-16
Arsenic	56.2			ug/L	1	50.0	0.909	111	70-130%	---	---	Q-16
Beryllium	26.4			ug/L	1	25.0	ND	106	70-130%	---	---	Q-16
Cadmium	51.8			ug/L	1	50.0	ND	104	70-130%	---	---	Q-16
Calcium	27900			ug/L	1	2500	25000	113	70-130%	---	---	Q-16
Chromium	50.2			ug/L	1	50.0	1.60	97	70-130%	---	---	Q-16
Copper	55.4			ug/L	1	50.0	4.78	101	70-130%	---	---	Q-16
Iron	3530			ug/L	1	2500	981	102	70-130%	---	---	Q-16
Lead	53.0			ug/L	1	50.0	1.82	102	70-130%	---	---	Q-16

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Tigard, OR 97223

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0952 - EPA 3015A						Water						
Matrix Spike (21K0952-MS3)			Prepared: 11/22/21 14:56 Analyzed: 11/23/21 12:18									
QC Source Sample: WVV (A1K0412-01RE1)												
Magnesium	8690	0.0400	0.0800	ug/L	1	2500	6130	102	70-130%	---	---	Q-16
Mercury	1.07			ug/L	1	1.11	ND	97	70-130%	---	---	Q-16
Nickel	51.9			ug/L	1	50.0	1.91	100	70-130%	---	---	Q-16
Selenium	24.5			ug/L	1	25.0	ND	97	70-130%	---	---	Q-16
Silver	24.9			ug/L	1	25.0	ND	100	70-130%	---	---	Q-16
Thallium	24.5			ug/L	1	25.0	ND	98	70-130%	---	---	Q-16
Zinc	66.9			ug/L	1	50.0	15.5	103	70-130%	---	---	Q-16

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Project Manager: Greg Stabach

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0815 - TKN block digestion						Water						
Blank (21K0815-BLK1)			Prepared: 11/18/21 11:35 Analyzed: 11/19/21 14:13									
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---	
LCS (21K0815-BS1)			Prepared: 11/18/21 11:35 Analyzed: 11/19/21 14:15									
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	5.09	0.100	0.200	mg/L	1	5.00	---	102	90-110%	---	---	
Matrix Spike (21K0815-MS1)			Prepared: 11/18/21 11:35 Analyzed: 11/19/21 14:24									
<u>QC Source Sample: Non-SDG (A1K0481-01)</u>												
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	7.46			ug/mL	1	5.00	2.30	103	90-110%	---	---	
Matrix Spike Dup (21K0815-MSD1)			Prepared: 11/18/21 11:35 Analyzed: 11/19/21 14:25									
<u>QC Source Sample: Non-SDG (A1K0481-01)</u>												
Total Kjeldahl Nitrogen (TKN)	7.16			ug/mL	1	5.00	2.30	97	90-110%	4	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0801 - Method Prep: Aq						Water						
Blank (21K0801-BLK1)			Prepared: 11/18/21 09:49		Analyzed: 11/18/21 14:03							
SM 5310 C												
Total Organic Carbon	ND	1.00	2.50	mg/L	1	---	---	---	---	---	---	
LCS (21K0801-BS1)			Prepared: 11/18/21 09:49		Analyzed: 11/18/21 14:32							
SM 5310 C												
Total Organic Carbon	9.78	1.00	2.50	mg/L	1	10.0	---	98	90-114%	---	---	
Duplicate (21K0801-DUP1)			Prepared: 11/18/21 09:49		Analyzed: 11/19/21 05:43							
QC Source Sample: Non-SDG (A1K0773-01)												
Total Organic Carbon	4.48	1.00	2.50	mg/L	1	---	4.47	---	---	0.2	10%	
Matrix Spike (21K0801-MS1)			Prepared: 11/18/21 09:49		Analyzed: 11/19/21 06:13							
QC Source Sample: Non-SDG (A1K0773-01)												
SM 5310 C												
Total Organic Carbon	13.9			mg/L	1	9.90	4.43	96	90-114%	---	---	

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Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0806 - Method Prep: Aq							Water					
Blank (21K0806-BLK1)			Prepared: 11/18/21 10:02		Analyzed: 11/18/21 16:02							
<u>SM 5310 C (Diss)</u>												
Dissolved Organic Carbon	ND	1.00	2.50	mg/L	1	---	---	---	---	---	---	
LCS (21K0806-BS1)			Prepared: 11/18/21 10:02		Analyzed: 11/18/21 16:32							
<u>SM 5310 C (Diss)</u>												
Dissolved Organic Carbon	9.88	1.00	2.50	mg/L	1	10.0	---	99	90-114%	---	---	
LCS Dup (21K0806-BSD1)			Prepared: 11/18/21 10:02		Analyzed: 11/18/21 17:01							
<u>SM 5310 C (Diss)</u>												
Dissolved Organic Carbon	9.89	1.00	2.50	mg/L	1	10.0	---	99	90-114%	0.1	10%	

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Rogue Valley Council of Governments

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Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021Project Number: Almeda Post Fire MonitorinProject Manager: Greg StabachReport ID:

A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0552 - Persulfate Digestion						Water						
Blank (21K0552-BLK1)			Prepared: 11/12/21 11:06 Analyzed: 11/12/21 19:09									
<u>SM 4500-P E</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (21K0552-BS1)			Prepared: 11/12/21 11:06 Analyzed: 11/12/21 19:10									
<u>SM 4500-P E</u>												
Phosphorus	0.465	0.0500	0.100	mg/L	1	0.522	---	89	85-115%	---	---	
Matrix Spike (21K0552-MS1)			Prepared: 11/12/21 11:06 Analyzed: 11/12/21 19:12									
<u>QC Source Sample: Non-SDG (A1K0360-01)</u>												
<u>SM 4500-P E</u>												
Phosphorus	230			ug/L	1	261	11.2	84	85-115%	---	---	
Matrix Spike Dup (21K0552-MSD1)			Prepared: 11/12/21 11:06 Analyzed: 11/12/21 19:12									
<u>QC Source Sample: Non-SDG (A1K0360-01)</u>												
Phosphorus	280			ug/L	1	261	11.2	103	85-115%	20	20%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0442 - Method Prep: Aq						Water						
Duplicate (21K0442-DUP1)			Prepared: 11/10/21 13:00 Analyzed: 11/10/21 17:09									
QC Source Sample: Non-SDG (A1K0408-01)												
pH	7.4			pH Units	1	---	7.4	---	---	0.3	2%	H-12
pH Temperature (deg C)	21.6			pH Units	1	---	21.5	---	---	0.5	30%	H-12
Reference (21K0442-SRM1)			Prepared: 11/10/21 13:00 Analyzed: 11/10/21 17:06									
SM 4500-H+ B												
pH	6.0			pH Units	1	6.00		100	1.33333-101.6667	---	---	
pH Temperature (deg C)	22.1			pH Units	1	20.0		110	50-200%	---	---	
Reference (21K0442-SRM2)			Prepared: 11/10/21 13:00 Analyzed: 11/10/21 17:11									
SM 4500-H+ B												
pH	8.0			pH Units	1	8.00		100	98.75-101.25%	---	---	
pH Temperature (deg C)	22.2			pH Units	1	20.0		111	50-200%	---	---	
Reference (21K0442-SRM3)			Prepared: 11/10/21 13:00 Analyzed: 11/10/21 17:23									
SM 4500-H+ B												
pH	6.0			pH Units	1	6.00		100	1.33333-101.6667	---	---	
pH Temperature (deg C)	22.3			pH Units	1	20.0		112	50-200%	---	---	
Reference (21K0442-SRM4)			Prepared: 11/10/21 13:00 Analyzed: 11/10/21 17:45									
SM 4500-H+ B												
pH	8.0			pH Units	1	8.00		100	98.75-101.25%	---	---	
pH Temperature (deg C)	22.3			pH Units	1	20.0		112	50-200%	---	---	

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A1K0412 - 12 28 22 1330

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 21K0677 - Total Suspended Solids						Water						
Blank (21K0677-BLK1)			Prepared: 11/16/21 10:34 Analyzed: 11/16/21 10:34									
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	4.00	4.00	mg/L	1	---	---	---	---	---	---	
LCS (21K0677-BS1)			Prepared: 11/16/21 10:34 Analyzed: 11/16/21 10:34									
<u>D3977-97 (07)</u>												
Total Suspended Solids	892			mg/L	1	951	---	93.8	87-116%	---	---	
LCS Dup (21K0677-BSD1)			Prepared: 11/16/21 10:34 Analyzed: 11/16/21 10:34									
<u>D3977-97 (07)</u>												
Total Suspended Solids	887			mg/L	1	951	---	93.3	87-116%	0.562	6%	

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0531							
A1K0412-01	Water	NWTPH-Dx	11/09/21 07:00	11/12/21 07:15	960mL/5mL	1000mL/5mL	1.04
Batch: 21K0946							
A1K0412-02	Water	NWTPH-Dx	11/09/21 07:30	11/22/21 13:09	1000mL/5mL	1000mL/5mL	1.00
A1K0412-03	Water	NWTPH-Dx	11/09/21 06:30	11/22/21 13:09	1060mL/5mL	1000mL/5mL	0.94

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel + Acid

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0967							
A1K0412-01	Water	NWTPH-Dx/SG	11/09/21 07:00	11/12/21 07:15	960mL/5mL	1000mL/5mL	1.04
Batch: 21K0968							
A1K0412-02	Water	NWTPH-Dx/SG	11/09/21 07:30	11/22/21 13:09	1000mL/5mL	1000mL/5mL	1.00
A1K0412-03	Water	NWTPH-Dx/SG	11/09/21 06:30	11/22/21 13:09	1060mL/5mL	1000mL/5mL	0.94

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0658							
A1K0412-01	Water	EPA 8270E	11/09/21 07:00	11/16/21 07:05	990mL/1mL	1000mL/1mL	1.01
A1K0412-02RE2	Water	EPA 8270E	11/09/21 07:30	11/16/21 07:05	880mL/1mL	1000mL/1mL	1.14
A1K0412-03	Water	EPA 8270E	11/09/21 06:30	11/16/21 07:05	910mL/1mL	1000mL/1mL	1.10

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0952							
A1K0412-01	Water	EPA 200.8	11/09/21 07:00	11/22/21 14:56	45mL/50mL	45mL/50mL	1.00
A1K0412-02	Water	EPA 200.8	11/09/21 07:30	11/22/21 14:56	45mL/50mL	45mL/50mL	1.00
A1K0412-03	Water	EPA 200.8	11/09/21 06:30	11/22/21 14:56	45mL/50mL	45mL/50mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 46 of 100



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

SAMPLE PREPARATION INFORMATION

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Prep: TKN block digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0815							
A1K0412-01	Water	EPA 351.2	11/09/21 07:00	11/18/21 11:35	25mL/25mL	25mL/25mL	1.00
A1K0412-02	Water	EPA 351.2	11/09/21 07:30	11/18/21 11:35	25mL/25mL	25mL/25mL	1.00
A1K0412-03	Water	EPA 351.2	11/09/21 06:30	11/18/21 11:35	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0801							
A1K0412-01	Water	SM 5310 C	11/09/21 07:00	11/18/21 09:49	40mL/40mL	40mL/40mL	1.00
A1K0412-02	Water	SM 5310 C	11/09/21 07:30	11/18/21 09:49	40mL/40mL	40mL/40mL	1.00
A1K0412-03	Water	SM 5310 C	11/09/21 06:30	11/18/21 09:49	40mL/40mL	40mL/40mL	1.00

Dissolved Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0806							
A1K0412-01	Water	SM 5310 C (Diss)	11/09/21 07:00	11/18/21 10:02	40mL/40mL	40mL/40mL	1.00
A1K0412-02	Water	SM 5310 C (Diss)	11/09/21 07:30	11/18/21 10:02	40mL/40mL	40mL/40mL	1.00
A1K0412-03	Water	SM 5310 C (Diss)	11/09/21 06:30	11/18/21 10:02	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Prep: Persulfate Digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0552							
A1K0412-01	Water	SM 4500-P E	11/09/21 07:00	11/12/21 11:06	25mL/50mL	25mL/50mL	1.00
A1K0412-02	Water	SM 4500-P E	11/09/21 07:30	11/12/21 11:06	25mL/50mL	25mL/50mL	1.00
A1K0412-03	Water	SM 4500-P E	11/09/21 06:30	11/12/21 11:06	25mL/50mL	25mL/50mL	1.00

Conventional Chemistry Parameters

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 21K0442							

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 47 of 100



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021Project Number: Almeda Post Fire MonitorinProject Manager: Greg StabachReport ID:

A1K0412 - 12 28 22 1330

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A1K0412-01	Water	SM 4500-H+ B	11/09/21 07:00	11/10/21 13:00	20mL/20mL	20mL/20mL	NA
A1K0412-02	Water	SM 4500-H+ B	11/09/21 07:30	11/10/21 13:00	20mL/20mL	20mL/20mL	NA
A1K0412-03	Water	SM 4500-H+ B	11/09/21 06:30	11/10/21 13:00	20mL/20mL	20mL/20mL	NA

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 21K0677</u>							
A1K0412-01	Water	D3977-97 (07)	11/09/21 07:00	11/16/21 10:34			NA
A1K0412-02	Water	D3977-97 (07)	11/09/21 07:30	11/16/21 10:34			NA
A1K0412-03	Water	D3977-97 (07)	11/09/21 06:30	11/16/21 10:34			NA

Lab Filtration

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 21K0457</u>							
A1K0412-01	Water	NA	11/09/21 07:00	11/10/21 17:32	100mL/100mL	50mL/50mL	NA
A1K0412-02	Water	NA	11/09/21 07:30	11/10/21 17:32	100mL/100mL	50mL/50mL	NA
A1K0412-03	Water	NA	11/09/21 06:30	11/10/21 17:32	100mL/100mL	50mL/50mL	NA

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- H-12** Sample analysis was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
- H-13** Sample collection is not compliant with 40 CFR Part 136, including sample filtration and/or preservation being performed within 15 minutes of collection. Consult regulator or permit manager to determine the usability of data for intended purpose.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-37** Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- TEMP** Sample was received outside of recommended temperature. See Case Narrative.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring-2021**Project Number: **Alameda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.**" "** Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:**" --- "** QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.**" *** "** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 50 of 100

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Project: **Almeda Post Fire Monitoring-2021**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2021**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A1K0412 - 12 28 22 1330****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2021

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

Send Report To: **Company:** RV Council of Governments **Project Mgr:** Greg Stabach **Project Name:** Almeda Post-Fire Monitoring 2021 **Project #/PO#:** **Address:** 155 N First Street, Central Point, OR 97502 **Phone:** 541-864-6674 **Email:** gstabach@rvco.org

Send Invoice To: ☒ Same as above ☐ Other

Sampled by:

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ASTM D7096-10	ASTM D2687-14	ASTM D6730-01 Cryogenic Detailed Hydrocarbon Analysis (DHA)	BTEXN by DHA	Formic Parent & Alkylated PAHs (PAH Homologs) and Isoprenoid Evaluation	Organic Lead and Manganese Speciation	Total Suspended Solids by ASTM D3977	Digestion/Carbonate	Formic VOCs for Gasoline Contaminated Sites (Water Soluble Fraction)	PAHs (Subcontracted to ALS-Burlington Ontario, Canada)	Formic SVOCs for Unidentified or Specialty Contaminants + TICs	Nitrogen TKN by EPA 351.2	pH	Total Hardness (calc) by SM 2340B	DOC by Method 5310C	TOC by Method 5310C	AMPHs and NMPH w SG	NOTES	
1	11-9-2020	11:00	W																				
2	11-9-2020	11:00	W																				
3	11-9-2020	11:00	W																				
4	11-9-2020	11:00	W																				
5																							
6																							
7																							
8																							
9																							
10																							

Special Instructions: Use individual codes for Forensic-VOC at site only. Went full VOC-TOC Scan. No VOC analyses - asp 11.10.2021

Sample Storage Required: ☒ Dispose after 30 days (No Charge) ☐ Long Term Evidence Storage (\$50 per quarter, up to 20 samples)

Turnaround Time Requested (Circle): 1 DAY 2 DAY 5 DAY 10 DAY (Std) Other: _____

RELINQUISHED BY: Signature: *Deanne Morgan* Date: 11-9-2020
Printed Name: Deanne Morgan
Company: Apex

RECEIVED BY: Signature: *Greg Stabach* Date: 11/10/2021
Printed Name: Greg Stabach
Company: Apex

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 53 of 55



ANALYTICAL REPORT

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Project: Alameda Post Fire Monitoring-2021

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A1K0412 - 12 28 22 1330

APEX LABS COOLER RECEIPT FORM

Client: RV Council of Governments Element WO#: A1 K0412Project/Project #: Alameda Post - Fire Monitoring 2021

Delivery Info:

Date/time received: 11/10/21 @ 1155 By: HASDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 11/10/21 @ 1156 By: HASChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	9.8	9.4					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	real	real					
Condition:	okay	okay					

Cooler out of temp? (Y/N) Possible reason why: very little ice

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 11/10/21 @ 1215 By: AKKAll samples intact? Yes ☐ No ☒ Comments: NRT '16' UP Ambers 1.2 received cracked & replaced in lab.Bottle labels/COCs agree? Yes ☒ No ☐ Comments: NRT time on containers read 0700. Colver Rd ID reads Colver & time reads 0700.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐Comments: Additional information: 2859 0969 6308Labeled by: AKKWitness: WCooler Inspected by: AKK

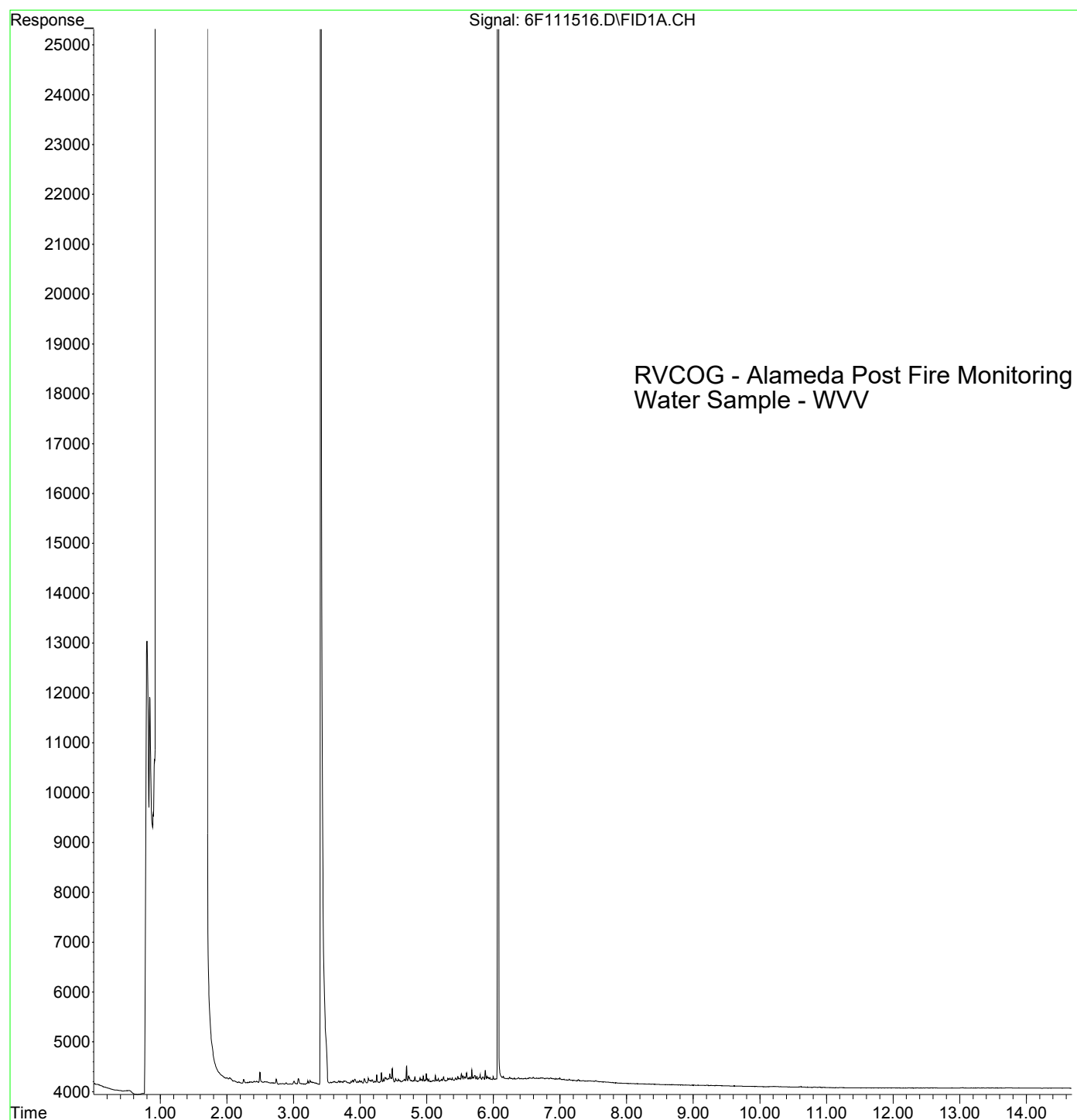
Apex Laboratories

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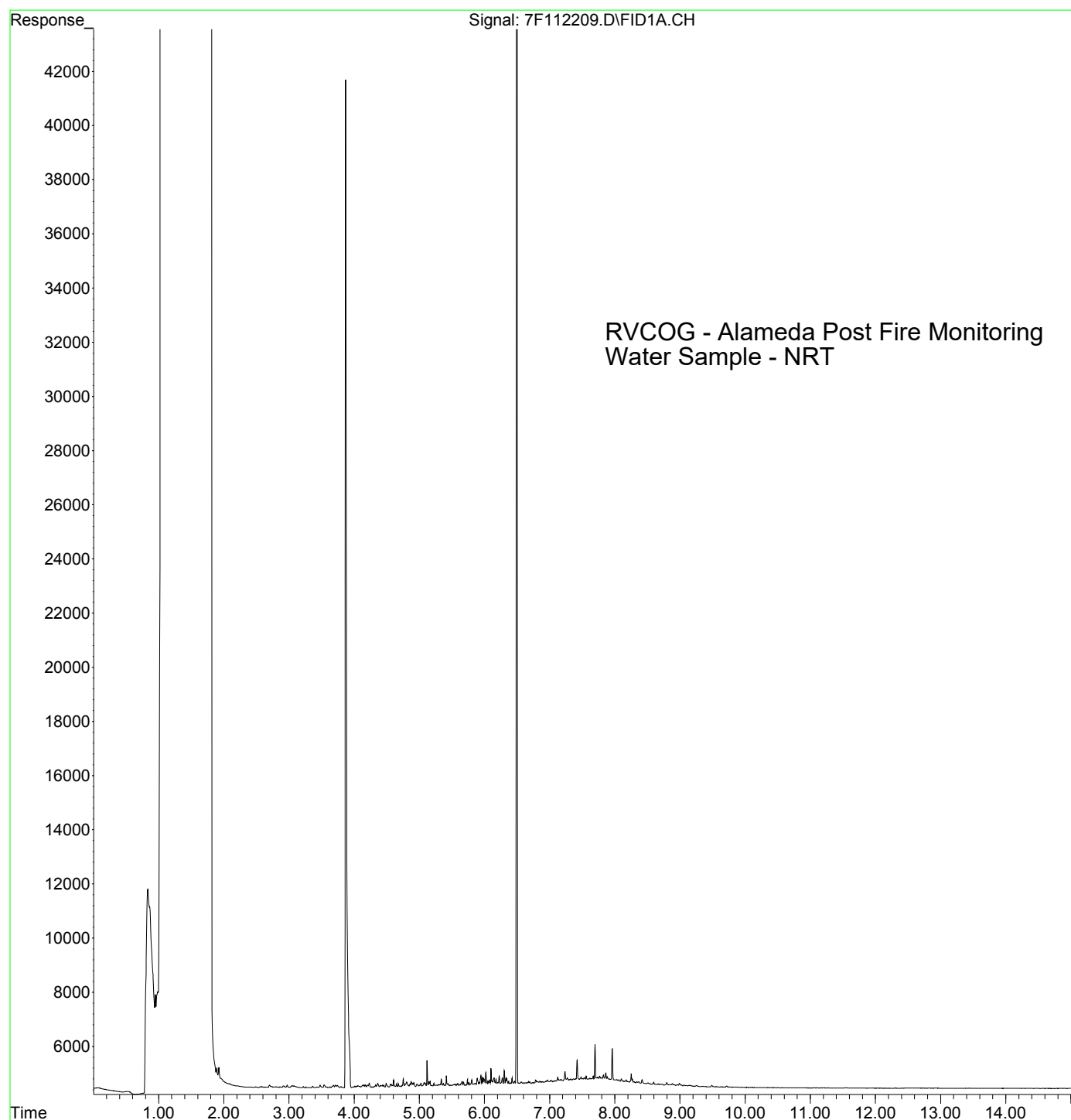
Michele Poquiz

Michele Poquiz For Kurt Johnson, Senior Chemist

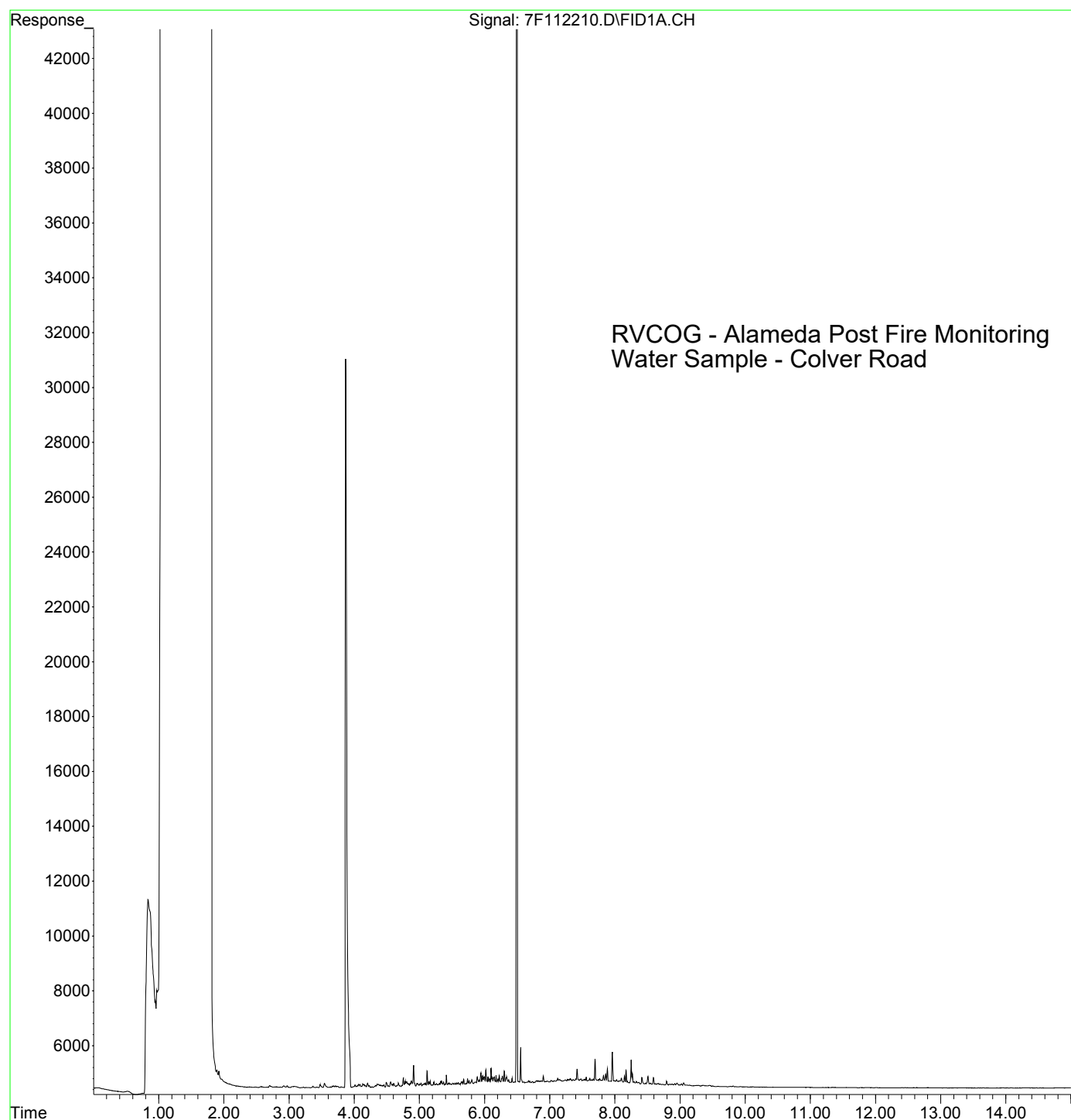
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Operator : BLL
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Instrument : HP G1530A
Sample Name: A1K0412-01
Misc Info :
Vial Number: 13



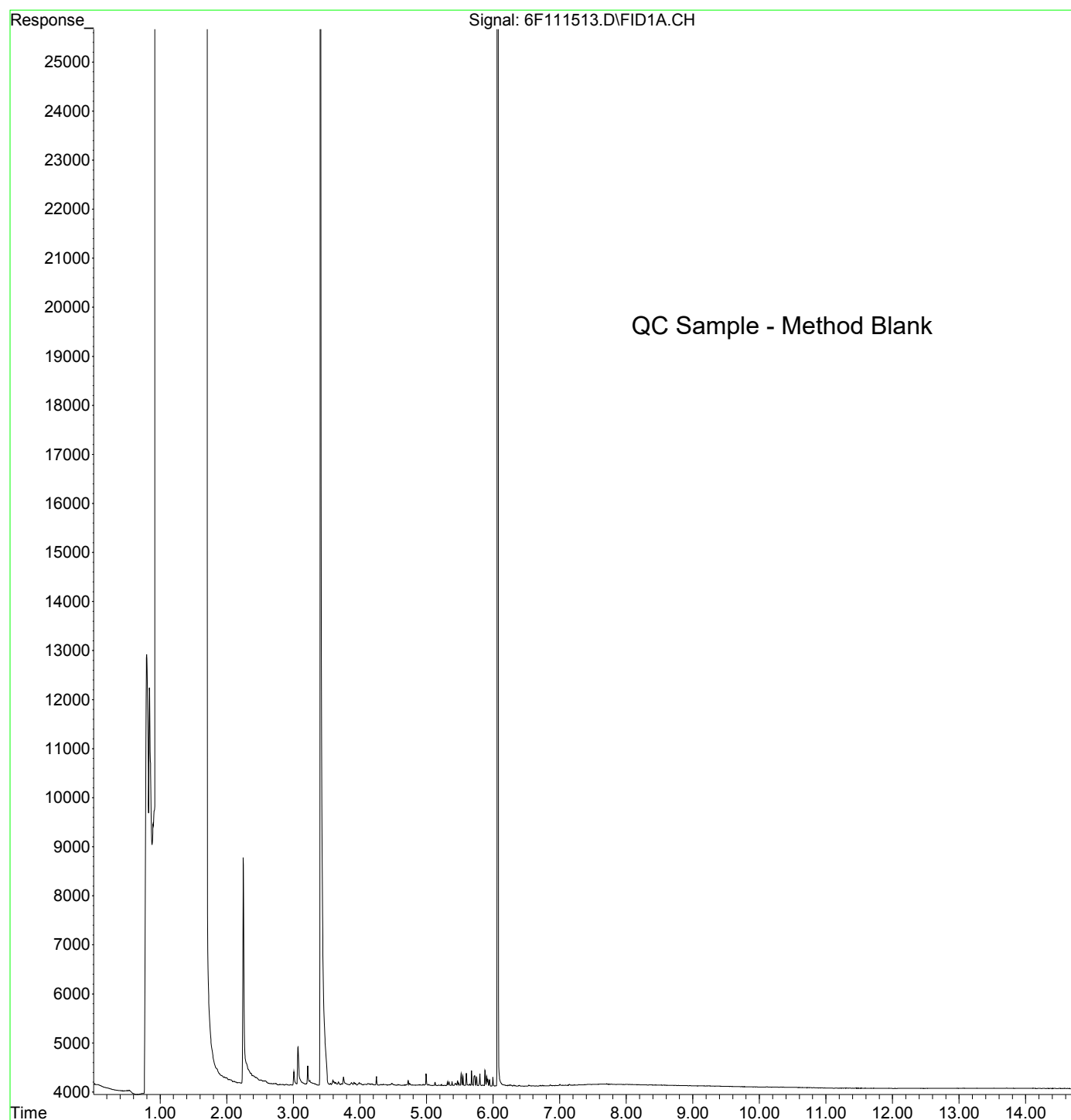
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Operator : BLL
Acquired : 22 Nov 2021 11:52 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: A1K0412-02
Misc Info :
Vial Number: 6



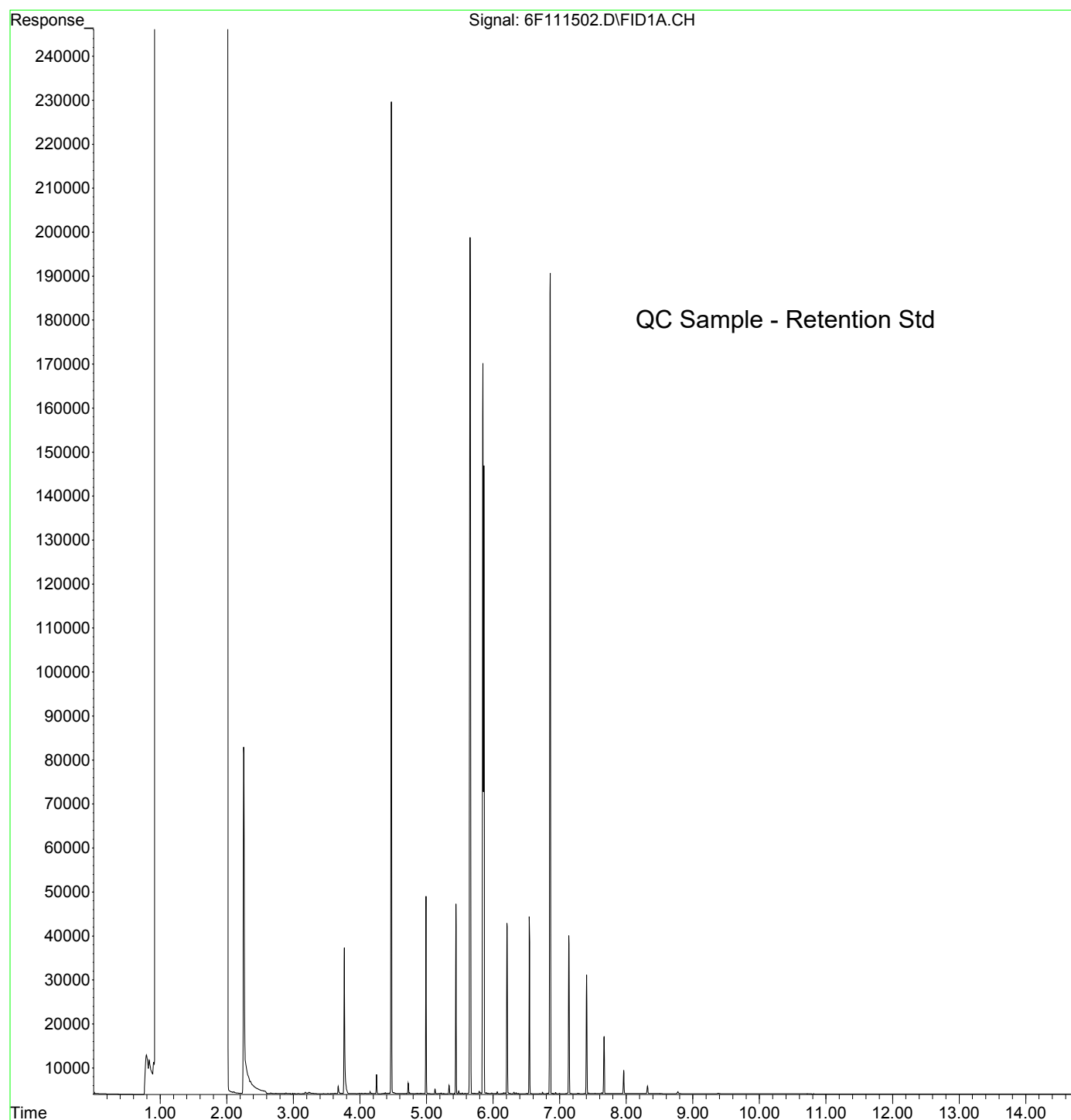
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Instrument : HP G1530A
Sample Name: A1K0412-03
Misc Info :
Vial Number: 7



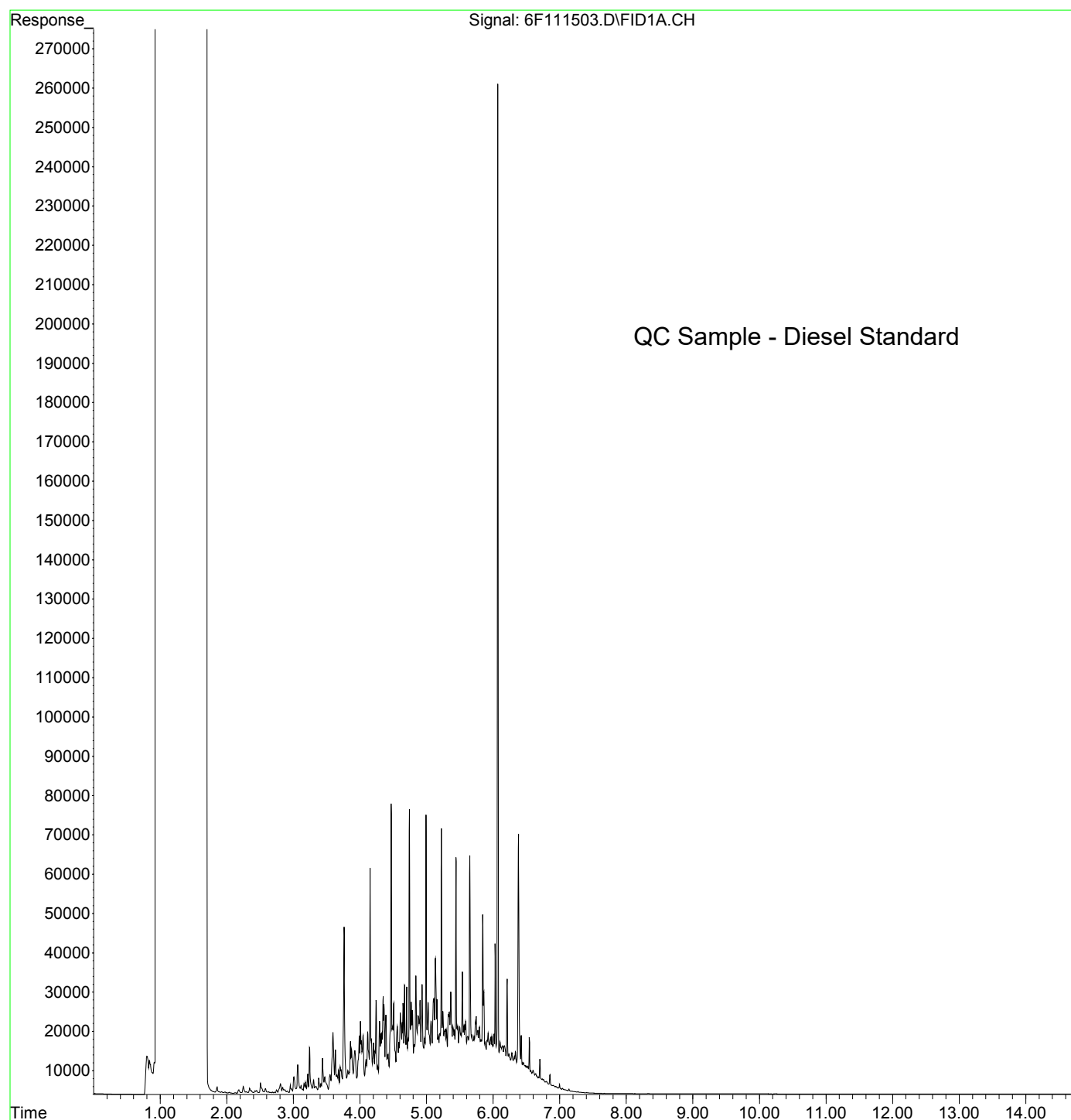
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Operator : BLL
Acquired : 15 Nov 2021 9:43 am using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 21K0531-BLK1
Misc Info :
Vial Number: 10



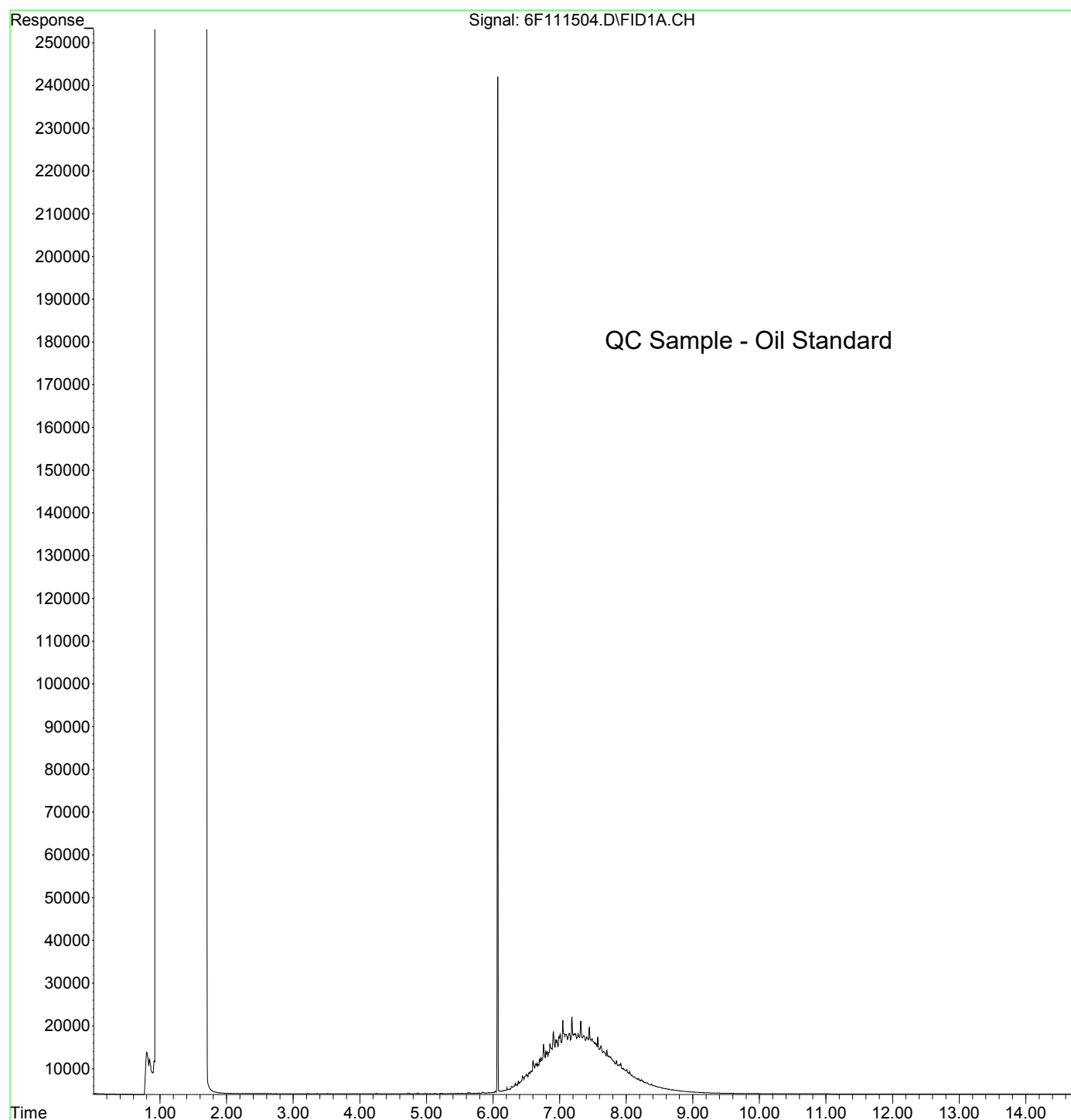
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Operator : BLL
Acquired : 15 Nov 2021 6:00 am using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 1K15023-RES1
Misc Info :
Vial Number: 94



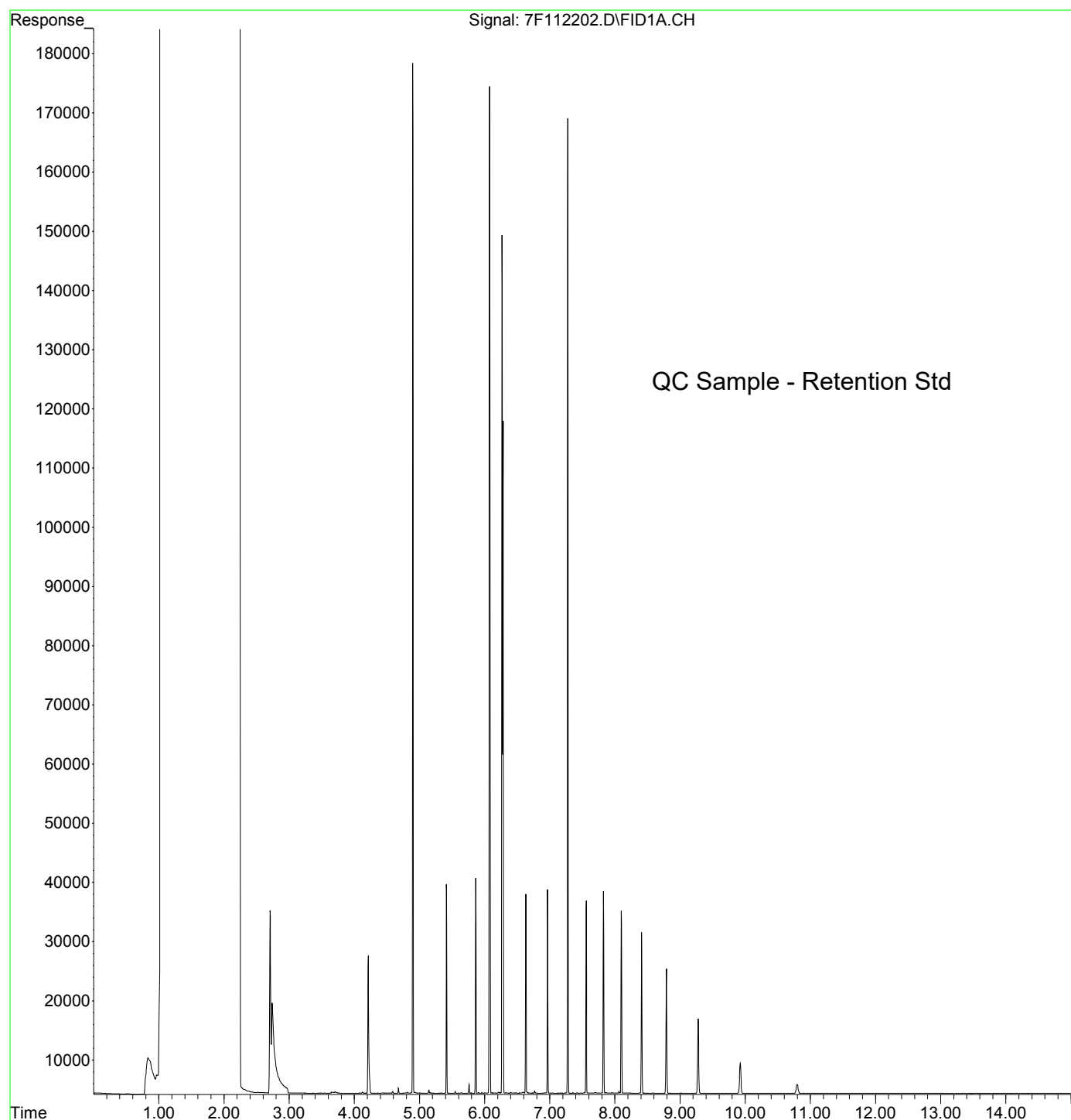
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Operator : BLL
Acquired : 15 Nov 2021 6:20 am using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 1K15023-CCV1
Misc Info :
Vial Number: 1



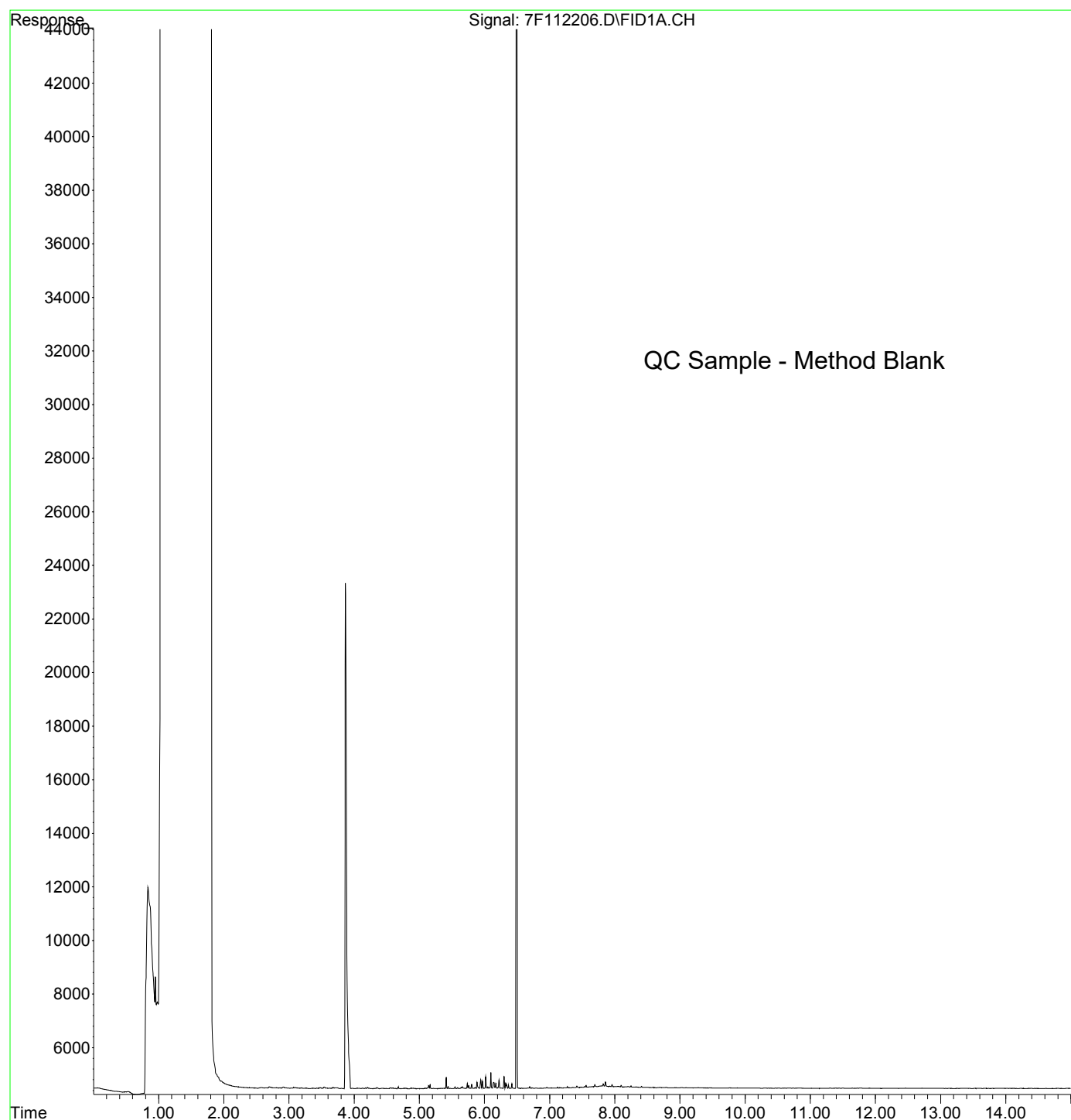
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Operator : BLL
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Instrument : HP G1530A
Sample Name: 1K15023-CCV2
Misc Info :
Vial Number: 2



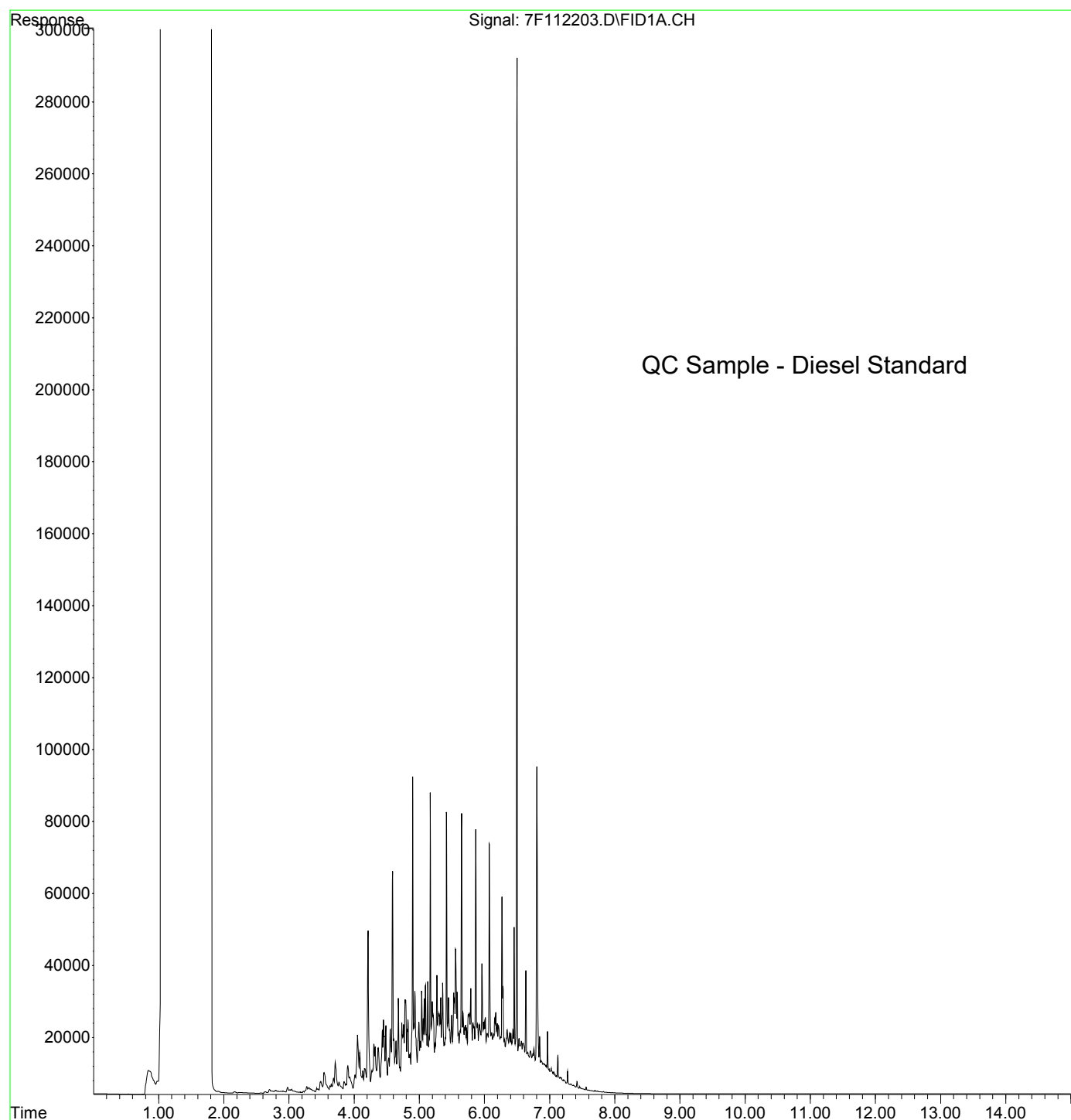
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Operator : BLL
Acquired : 22 Nov 2021 5:47 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 1K22059-RES1
Misc Info :
Vial Number: 94



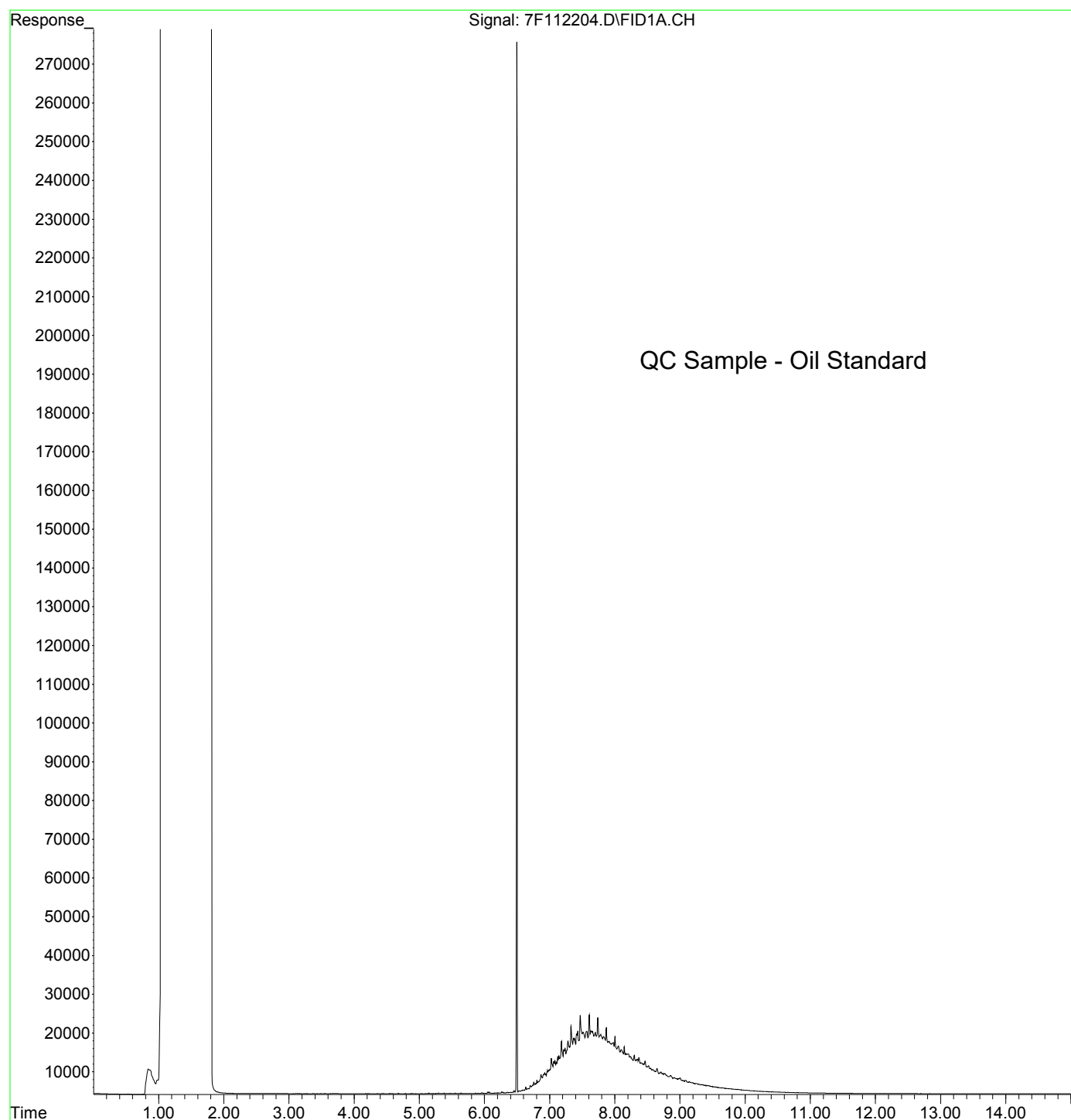
File :C:\msdchem\1\data\2021-11\1K22059\7F112206.D
Operator : BLL
Acquired : 22 Nov 2021 10:51 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 21K0946-BLK1
Misc Info :
Vial Number: 3



File :C:\msdchem\1\data\2021-11\1K22059\7F112203.D
Operator : BLL
Acquired : 22 Nov 2021 6:07 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 1K22059-CCV1
Misc Info :
Vial Number: 1



File :C:\msdchem\1\data\2021-11\1K22059\7F112204.D
Operator : BLL
Acquired : 22 Nov 2021 6:28 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 1K22059-CCV2
Misc Info :
Vial Number: 2



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
WV (A1K0412-01)			
3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-	000562-74-3	7.84	0.26
Tetradecane	000629-59-4	9.118	0.19
Nonadecane	000629-92-5	18.249	0.29
Eicosane	000112-95-8	19.912	0.25
NRT (A1K0412-02RE2)			
Nonanal	000124-19-6	7.188	2.4
Tetradecane	000629-59-4	8.985	2.7
Tetradecanoic acid	000544-63-8	10.889	2.3
Pentadecanoic acid	001002-84-2	11.194	2.3
n-Hexadecanoic acid	000057-10-3	11.846	43
Octadec-9-enoic acid	N/A	12.584	3.8
Octadecanoic acid	000057-11-4	12.723	19
Octacosane	000630-02-4	14.836	0.47
Heptadecane	000629-78-7	16.532	0.96
Heneicosane	000629-94-7	18.259	1.1
Nonacosane	000630-03-5	19.923	0.97
Colver Rd (A1K0412-03)			
Tetradecane	000629-59-4	9.07	0.12
Eicosane	000112-95-8	14.826	0.17
Docosane	000629-97-0	16.521	0.33
Tetracosane	000646-31-1	18.249	0.62



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2662325
Date of Report: 19-Jan-22
Date of Sample Receipt: 12-Nov-21

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
USA
Client Contact: Michele Poquiz
Client Project ID: A1K0412

COMMENTS: Brominated Flame Retardants by EPA 1614

Certified by: _____

Ron McLeod, PhD
Director, Air Toxics & Special Chemistries, Life Sciences

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences

Sample Analysis Summary Report

Sample Name	WVV	NRT	COLVER RD
ALS Sample ID	L2662325-1	L2662325-2	L2662325-3
Sample Size	1.02	0.84	0.91
Sample size units	L	L	L
Percent Moisture	n/a	n/a	n/a
Sample Matrix	Water	Water	Water
Sampling Date	9-Nov-21	9-Nov-21	9-Nov-21
Extraction Date	10-Dec-21	10-Dec-21	10-Dec-21
Target Analytes	pg/L	pg/L	pg/L
BDE 10	<0.21	<0.20	<0.18
BDE 7	<0.20	1.51	<0.18
BDE 8/11	<0.14	<0.57	<0.13
BDE 12/13	<0.12	<0.58	<0.11
BDE 15	<0.18	0.905	<0.087
BDE 30	<0.42	<0.50	<0.38
BDE 32	<0.30	<0.36	<0.28
BDE 17/25	<0.38	16.3	0.846
BDE 28/33	2.12	15.7	1.58
BDE 35	<2.3	<1.2	<0.23
BDE 37	<0.25	0.952	<0.23
PBEB	<0.52	0.917	0.253
HBB	2.37	4.36	2.43
BDE 75	<0.25	<0.79	<0.19
BDE 51	0.451	2.96	<0.17
BDE 49	<3.4	43.5	<1.8
BDE 71	<0.33	<1.8	<0.26
BDE 47	65.3	514	51.2
BDE 79	0.912	5.15	<0.14
BDE 66	<2.3	33.9	<1.3
BDE 77	<0.21	0.500	<0.15
BDE 100	17.1	126	8.81
BDE 119/120	<0.38	2.45	<0.45
BDE 99	85.0	644	44.2
BDE 116	<0.68	<1.4	<0.81
BDE 83	<0.52	<1.1	<0.62
BDE 118	<0.43	7.17	<0.51
BDE 85	<2.9	25.2	<1.6
BDE 126	<0.24	<0.47	<0.25
BDE 105	<0.43	<0.91	<0.51
BDE 155	<0.26	2.82	<0.22
BDE 154	7.65	39.9	3.92
BDE 153	<7.2	49.9	4.58
BDE 140	<0.84	<1.3	<0.85
BDE 138/166	<1.5	12.0	<1.5
BDE 156	<2.0	<3.3	<2.1
BDE 128	<1.7	<2.8	<1.7
BDE 184	<0.44	<0.46	<0.30
BDE 183	4.64	<11	<1.8
BDE 191	<1.0	<1.1	<0.69
BDE 181	<1.0	<1.1	<0.71
BDE 190	<1.6	<1.6	<1.1
BDE 197	2.99	8.95	1.59
BDE 203	<3.4	9.32	1.64
BDE 196	3.08	6.81	<0.46
BDE 208	8.60	29.0	3.81
BDE 207	18.1	55.8	7.20
BDE 206	24.5	83.1	7.77
BDE 209	273	1590	119
DBDPE	3870	2130	<130
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L
Di BDE	0.180	3.57	<0.087
Tri BDE	4.42	34.2	2.43
Tetra BDE	72.4	603	54.3
Penta BDE	105	805	54.6
Hexa BDE	14.9	105	8.50
Hepta BDE	4.64	11.0	1.80
Octa BDE	9.47	25.1	3.23
Nona BDE	51.2	168	18.8
Deca BDE	273	1590	119
Total PBDEs	535	3340	263
Extraction Standards	% Rec	% Rec	% Rec
13C12 BDE 15	50	72	59
13C12 BDE 28	71	100	89
13C6 HBB	77	104	98
13C12 BDE 47	77	113	105
13C12 BDE 77	84	120	118
13C12 BDE 100	61	65	69
13C12 BDE 99	59	63	69
13C12 BDE 126	58	61	72
13C12 BDE 154	45	43	49
13C12 BDE 153	58	62	68
13C12 BDE 183	61	63	70
13C12 BDE 197	71	102	72
13C12 BDE 207	59	59	68
13C12 BDE 209	44	45	48
13C14 DBDPE	31	28	30
Cleanup Standard			
13C12 BDE 138 Cleanup	65	73	75

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3655103-1	WG3655103-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	10-Dec-21	10-Dec-21
Target Analytes	pg/L	% Rec
BDE 10	<0.40	13
BDE 7	<0.40	50
BDE 8/11	<0.27	83
BDE 12/13	<0.23	82
BDE 15	<0.19	97
BDE 30	<0.57	54
BDE 32	<0.41	92
BDE 17/25	<0.52	93
BDE 28/33	<0.50	96
BDE 35	<0.34	104
BDE 37	<0.34	106
PBEB	<0.16	101
HBB	1.79	100
BDE 75	<0.25	91
BDE 51	<0.21	91
BDE 49	<0.33	84
BDE 71	<0.33	98
BDE 47	<3.7	100
BDE 79	<0.18	65
BDE 66	<0.35	102
BDE 77	<0.20	99
BDE 100	0.820	98
BDE 119/120	<0.41	101
BDE 99	4.25	99
BDE 116	<0.74	85
BDE 83	<0.56	112
BDE 118	<0.46	110
BDE 85	<0.39	107
BDE 126	<0.26	100
BDE 105	<0.47	108
BDE 155	<0.34	114
BDE 154	<0.42	93
BDE 153	<1.2	101
BDE 140	<1.1	136
BDE 138/166	<2.0	144
BDE 156	<2.7	140
BDE 128	<2.3	134
BDE 184	<0.46	90
BDE 183	<0.67	97
BDE 191	<1.1	102
BDE 181	1.83	99
BDE 190	<1.6	104
BDE 197	<0.74	97
BDE 203	<1.1	101
BDE 196	<0.93	106
BDE 208	<1.2	105
BDE 207	<1.0	101
BDE 206	<1.3	120
BDE 209	<13	99
DBDPE	<100	105
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	<0.19	
Tri BDE	<0.34	
Tetra BDE	3.70	
Penta BDE	5.07	
Hexa BDE	<0.34	
Hepta BDE	1.83	
Octa BDE	<0.74	
Nona BDE	<1	
Deca BDE	13.0	
Total PBDEs	23.6	
Extraction Standards	% Rec	% Rec
13C12 BDE 15	44	56
13C12 BDE 28	79	86
13C6 HBB	84	88
13C12 BDE 47	93	99
13C12 BDE 77	104	112
13C12 BDE 100	77	68
13C12 BDE 99	73	71
13C12 BDE 126	67	75
13C12 BDE 154	57	50
13C12 BDE 153	67	67
13C12 BDE 183	73	66
13C12 BDE 197	69	65
13C12 BDE 207	67	65
13C12 BDE 209	53	62
13C14 DBDPE	38	51
Cleanup Standard		
13C12 BDE 138 Cleanup	69	83

ALS Life Sciences

Sample Analysis Report

Sample Name WVV
ALS Sample ID L2662325-1
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 9-Nov-21
Extraction Date 10-Dec-21
Sample Size 1.02 L
Percent Moisture n/a
Split Ratio 1

Approved:
Ella Gdyczynski
 --e-signature--
 11-Jan-2022

Run Information

Run 1

Filename 10-220106A12
Run Date 06-Jan-22 09:07
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-10 DB5 US1752726H

Target Analytes

Ret. Time **Conc. pg/L** **EDL pg/L** **Flags** **EMPC pg/L** **LQL**

BDE 10	NotFnd	<0.21	0.21	U	25
BDE 7	NotFnd	<0.20	0.20	U	25
BDE 8/11	NotFnd	<0.14	0.14	U	49
BDE 12/13	NotFnd	<0.12	0.12	U	49
BDE 15	7.36	<0.18	0.098	M,J,R	0.18 25
BDE 30	NotFnd	<0.42	0.42	U	25
BDE 32	NotFnd	<0.30	0.30	U	25
BDE 17/25	NotFnd	<0.38	0.38	U	49
BDE 28/33	8.93	2.12	0.37	J	49
BDE 35	9.06	<2.3	0.25	J,R	2.3 25
BDE 37	NotFnd	<0.25	0.25	U	25
PBEB	9.29	<0.52	0.13	M,J,R	0.52 25
HBB	10.29	2.37	0.20	J,B	25
BDE 75	NotFnd	<0.25	0.25	U	25
BDE 51	10.42	0.451	0.21	M,J	25
BDE 49	10.52	<3.4	0.33	M,J,R	3.4 25
BDE 71	NotFnd	<0.33	0.33	U	25
BDE 47	10.85	65.3	0.23		25
BDE 79	10.98	0.912	0.18	J	25
BDE 66	11.15	<2.3	0.35	J,R	2.3 25
BDE 77	NotFnd	<0.21	0.21	U	25
BDE 100	12.52	17.1	0.15	J	37
BDE 119/120	NotFnd	<0.38	0.38	U	37
BDE 99	13.03	85.0	0.28		37
BDE 116	NotFnd	<0.68	0.68	U	37
BDE 83	NotFnd	<0.52	0.52	U	37
BDE 118	NotFnd	<0.43	0.43	U	37
BDE 85	13.94	<2.9	0.36	J,R	2.9 37
BDE 126	NotFnd	<0.24	0.24	U	37
BDE 105	NotFnd	<0.43	0.43	U	37
BDE 155	NotFnd	<0.26	0.26	U	49
BDE 154	14.48	7.65	0.32	J	49
BDE 153	15.24	<7.2	0.88	M,J,R	7.2 49
BDE 140	NotFnd	<0.84	0.84	U	49
BDE 138/166	NotFnd	<1.5	1.5	U	98
BDE 156	NotFnd	<2.0	2.0	U	49
BDE 128	NotFnd	<1.7	1.7	U	49
BDE 184	NotFnd	<0.44	0.44	U	61
BDE 183	17.39	4.64	0.65	M,J	61
BDE 191	NotFnd	<1.0	1.0	U	61
BDE 181	NotFnd	<1.0	1.0	U	61
BDE 190	NotFnd	<1.6	1.6	U	61
BDE 197	19.89	2.99	0.65	J	61
BDE 203	20.15	<3.4	0.94	M,J,R	3.4 61
BDE 196	20.28	3.08	0.82	M,J	61
BDE 208	21.67	8.60	1.7	J	120
BDE 207	21.81	18.1	1.4	J	120
BDE 206	22.15	24.5	1.8	J	120
BDE 209	24.22	273	3.2		120
DBDPE	25.95	3870	20		250

Extraction Standards

pg **% Rec** **Limits**

13C12 BDE 15	1000	7.35	50	25-150
13C12 BDE 28	1000	8.92	71	25-150
13C6 HBB	1000	10.29	77	25-150
13C12 BDE 47	1000	10.84	77	25-150
13C12 BDE 77	1000	11.62	84	25-150
13C12 BDE 100	1000	12.51	61	25-150
13C12 BDE 99	1000	13.03	59	25-150
13C12 BDE 126	1000	14.10	58	25-150
13C12 BDE 154	1000	14.47	45	25-150
13C12 BDE 153	1000	15.23	58	25-150
13C12 BDE 183	1000	17.38	61	25-150
13C12 BDE 197	2000	19.88	71	25-150
13C12 BDE 207	5000	21.81	59	25-150
13C12 BDE 209	5000	24.21	44	20-200
13C14 DBDPE	10000	25.96	31	5-200

Cleanup Standard

pg

13C12 BDE 138 Cleanup	2000	16.19	65	30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name NRT
ALS Sample ID L2662325-2
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 9-Nov-21
Extraction Date 10-Dec-21
Sample Size 0.84 L
Percent Moisture n/a
Split Ratio 1

Approved:
Ella Gdyczynski
 --e-signature--
 11-Jan-2022

Run Information

Run 1

Filename 10-220106A13
Run Date 06-Jan-22 09:42
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-10 DB5 US1752726H

Target Analytes

Ret. Time **Conc. pg/L** **EDL pg/L** **Flags** **EMPC pg/L** **LQL**

BDE 10	NotFnd	<0.20	0.20	U		30
BDE 7	6.91	1.51	0.20	J		30
BDE 8/11	7.10	<0.57	0.14	M,J,R	0.57	60
BDE 12/13	7.21	<0.58	0.11	M,J,R	0.58	60
BDE 15	7.35	0.905	0.094	J		30
BDE 30	NotFnd	<0.50	0.50	U		30
BDE 32	NotFnd	<0.36	0.36	U		30
BDE 17/25	8.67	16.3	0.46	J		60
BDE 28/33	8.92	15.7	0.44	J		60
BDE 35	9.05	<1.2	0.30	J,R	1.2	30
BDE 37	9.26	0.952	0.30	M,J		30
PBEB	9.28	0.917	0.12	J		30
HBB	10.28	4.36	0.36	J,B		30
BDE 75	10.33	<0.79	0.39	M,J,R	0.79	30
BDE 51	10.41	2.96	0.34	M,J		30
BDE 49	10.51	43.5	0.52	M		30
BDE 71	10.57	<1.8	0.52	M,J,R	1.8	30
BDE 47	10.84	514	0.37			30
BDE 79	10.97	5.15	0.28	J		30
BDE 66	11.14	33.9	0.55			30
BDE 77	11.64	0.500	0.32	M,J		30
BDE 100	12.52	126	0.31			45
BDE 119/120	12.68	2.45	0.80	M,J		45
BDE 99	13.04	644	0.63	M		45
BDE 116	NotFnd	<1.4	1.4	U		45
BDE 83	NotFnd	<1.1	1.1	U		45
BDE 118	13.45	7.17	0.90	M,J		45
BDE 85	13.94	25.2	0.76	J		45
BDE 126	NotFnd	<0.47	0.47	U		45
BDE 105	NotFnd	<0.91	0.91	U		45
BDE 155	14.10	2.82	0.29	J		60
BDE 154	14.48	39.9	0.38	J		60
BDE 153	15.24	49.9	1.3	J		60
BDE 140	NotFnd	<1.3	1.3	U		60
BDE 138/166	16.19	12.0	2.4	M,J		120
BDE 156	NotFnd	<3.3	3.3	U		60
BDE 128	NotFnd	<2.8	2.8	U		60
BDE 184	NotFnd	<0.46	0.46	U		74
BDE 183	17.39	<11	0.67	J,R	11	74
BDE 191	NotFnd	<1.1	1.1	U		74
BDE 181	NotFnd	<1.1	1.1	U		74
BDE 190	NotFnd	<1.6	1.6	U		74
BDE 197	19.89	8.95	0.35	J		74
BDE 203	20.14	9.32	0.50	J		74
BDE 196	20.28	6.81	0.44	J		74
BDE 208	21.67	29.0	1.9	J		150
BDE 207	21.82	55.8	1.6	M,J		150
BDE 206	22.16	83.1	2.0	J		150
BDE 209	24.28	1590	19			150
DBDPE	26.04	2130	32			300

Extraction Standards

pg	% Rec	Limits	M
13C12 BDE 15	1000	7.34	72 25-150
13C12 BDE 28	1000	8.90	100 25-150
13C6 HBB	1000	10.28	104 25-150
13C12 BDE 47	1000	10.83	113 25-150
13C12 BDE 77	1000	11.62	120 25-150
13C12 BDE 100	1000	12.51	65 25-150
13C12 BDE 99	1000	13.03	63 25-150
13C12 BDE 126	1000	14.11	61 25-150
13C12 BDE 154	1000	14.47	43 25-150
13C12 BDE 153	1000	15.23	62 25-150
13C12 BDE 183	1000	17.38	63 25-150
13C12 BDE 197	2000	19.88	102 25-150
13C12 BDE 207	5000	21.81	59 25-150
13C12 BDE 209	5000	24.27	45 20-200
13C14 DBDPE	10000	26.02	28 5-200

Cleanup Standard

pg			
13C12 BDE 138 Cleanup	2000	16.19	73 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name COLVER RD
ALS Sample ID L2662325-3
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 9-Nov-21
Extraction Date 10-Dec-21
Sample Size 0.91 L
Percent Moisture n/a
Split Ratio 1

Approved:
Ella Gdyczynski
 --e-signature--
 11-Jan-2022

Run Information

Run 1

Filename 10-220106A14
Run Date 06-Jan-22 10:17
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-10 DB5 US1752726H

Target Analytes

Ret. Time **Conc. pg/L** **EDL pg/L** **Flags** **EMPC pg/L** **LQL**

BDE 10	NotFnd	<0.18	0.18	U		27
BDE 7	NotFnd	<0.18	0.18	U		27
BDE 8/11	NotFnd	<0.13	0.13	U		55
BDE 12/13	NotFnd	<0.11	0.11	U		55
BDE 15	NotFnd	<0.087	0.087	U		27
BDE 30	NotFnd	<0.38	0.38	U		27
BDE 32	NotFnd	<0.28	0.28	U		27
BDE 17/25	8.67	0.846	0.35	J		55
BDE 28/33	8.92	1.58	0.33	M,J		55
BDE 35	NotFnd	<0.23	0.23	U		27
BDE 37	NotFnd	<0.23	0.23	U		27
PBEB	9.28	0.253	0.12	M,J		27
HBB	10.29	2.43	0.46	M,J,B		27
BDE 75	NotFnd	<0.19	0.19	U		27
BDE 51	NotFnd	<0.17	0.17	U		27
BDE 49	10.51	<1.8	0.26	M,J,R	1.8	27
BDE 71	NotFnd	<0.26	0.26	U		27
BDE 47	10.84	51.2	0.19	M		27
BDE 79	NotFnd	<0.14	0.14	U		27
BDE 66	11.14	<1.3	0.27	M,J,R	1.3	27
BDE 77	NotFnd	<0.15	0.15	U		27
BDE 100	12.51	8.81	0.20	J		41
BDE 119/120	NotFnd	<0.45	0.45	U		41
BDE 99	13.03	44.2	0.34			41
BDE 116	NotFnd	<0.81	0.81	U		41
BDE 83	NotFnd	<0.62	0.62	U		41
BDE 118	NotFnd	<0.51	0.51	U		41
BDE 85	13.92	<1.6	0.43	M,J,R	1.6	41
BDE 126	NotFnd	<0.25	0.25	U		41
BDE 105	NotFnd	<0.51	0.51	U		41
BDE 155	NotFnd	<0.22	0.22	U		55
BDE 154	14.47	3.92	0.29	J		55
BDE 153	15.23	4.58	0.79	J		55
BDE 140	NotFnd	<0.85	0.85	U		55
BDE 138/166	NotFnd	<1.5	1.5	U		110
BDE 156	NotFnd	<2.1	2.1	U		55
BDE 128	NotFnd	<1.7	1.7	U		55
BDE 184	NotFnd	<0.30	0.30	U		69
BDE 183	17.36	<1.8	0.44	M,J,R	1.8	69
BDE 191	NotFnd	<0.69	0.69	U		69
BDE 181	NotFnd	<0.71	0.71	U		69
BDE 190	NotFnd	<1.1	1.1	U		69
BDE 197	19.88	1.59	0.36	M,J		69
BDE 203	20.15	1.64	0.52	M,J		69
BDE 196	NotFnd	<0.46	0.46	U		69
BDE 208	21.69	3.81	1.6	M,J		140
BDE 207	21.80	7.20	1.4	M,J		140
BDE 206	22.13	7.77	1.7	M,J		140
BDE 209	24.21	119	4.7	M,J		140
DBDPE	25.96	<130	18	M,J,R	130	270

Extraction Standards

pg **% Rec** **Limits**

13C12 BDE 15	1000	7.34	59	25-150
13C12 BDE 28	1000	8.90	89	25-150
13C6 HBB	1000	10.28	98	25-150
13C12 BDE 47	1000	10.83	105	25-150
13C12 BDE 77	1000	11.61	118	25-150
13C12 BDE 100	1000	12.51	69	25-150
13C12 BDE 99	1000	13.02	69	25-150
13C12 BDE 126	1000	14.10	72	25-150
13C12 BDE 154	1000	14.46	49	25-150
13C12 BDE 153	1000	15.22	68	25-150
13C12 BDE 183	1000	17.37	70	25-150
13C12 BDE 197	2000	19.86	72	25-150
13C12 BDE 207	5000	21.80	68	25-150
13C12 BDE 209	5000	24.21	48	20-200
13C14 DBDPE	10000	25.96	30	5-200

Cleanup Standard

pg

13C12 BDE 138 Cleanup	2000	16.18	75	30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	Method Blank	Sampling Date	n/a	L	Approved: <i>Ella Gdyczynski</i> --e-signature-- 11-Jan-2022
ALS Sample ID	WG3655103-1	Extraction Date	10-Dec-21		
Analysis Method	EPA 1614	Sample Size	1.00		
Analysis Type	Blank	Percent Moisture	n/a		
Sample Matrix	QC	Split Ratio	1		

Run Information	Run 1
Filename	10-220106A06
Run Date	06-Jan-22 05:38
Final Volume	25 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-10 DB5 US1752726H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.40	0.40	U		25
BDE 7	NotFnd	<0.40	0.40	U		25
BDE 8/11	NotFnd	<0.27	0.27	U		50
BDE 12/13	NotFnd	<0.23	0.23	U		50
BDE 15	NotFnd	<0.19	0.19	U		25
BDE 30	NotFnd	<0.57	0.57	U		25
BDE 32	NotFnd	<0.41	0.41	U		25
BDE 17/25	NotFnd	<0.52	0.52	U		50
BDE 28/33	NotFnd	<0.50	0.50	U		50
BDE 35	NotFnd	<0.34	0.34	U		25
BDE 37	NotFnd	<0.34	0.34	U		25
PBEB	NotFnd	<0.16	0.16	U		25
HBB	10.28	1.79	0.22	J		25
BDE 75	NotFnd	<0.25	0.25	U		25
BDE 51	NotFnd	<0.21	0.21	U		25
BDE 49	NotFnd	<0.33	0.33	U		25
BDE 71	NotFnd	<0.33	0.33	U		25
BDE 47	10.84	<3.7	0.24	J,R	3.7	25
BDE 79	NotFnd	<0.18	0.18	U		25
BDE 66	NotFnd	<0.35	0.35	U		25
BDE 77	NotFnd	<0.20	0.20	U		25
BDE 100	12.52	0.820	0.16	M,J		38
BDE 119/120	NotFnd	<0.41	0.41	U		38
BDE 99	13.03	4.25	0.30	J		38
BDE 116	NotFnd	<0.74	0.74	U		38
BDE 83	NotFnd	<0.56	0.56	U		38
BDE 118	NotFnd	<0.46	0.46	U		38
BDE 85	NotFnd	<0.39	0.39	U		38
BDE 126	NotFnd	<0.26	0.26	U		38
BDE 105	NotFnd	<0.47	0.47	U		38
BDE 155	NotFnd	<0.34	0.34	U		50
BDE 154	NotFnd	<0.42	0.42	U		50
BDE 153	NotFnd	<1.2	1.2	U		50
BDE 140	NotFnd	<1.1	1.1	U		50
BDE 138/166	NotFnd	<2.0	2.0	U		100
BDE 156	NotFnd	<2.7	2.7	U		50
BDE 128	NotFnd	<2.3	2.3	U		50
BDE 184	NotFnd	<0.46	0.46	U		63
BDE 183	NotFnd	<0.67	0.67	U		63
BDE 191	NotFnd	<1.1	1.1	U		63
BDE 181	18.51	1.83	1.1	M,J		63
BDE 190	NotFnd	<1.6	1.6	U		63
BDE 197	NotFnd	<0.74	0.74	U		63
BDE 203	NotFnd	<1.1	1.1	U		63
BDE 196	NotFnd	<0.93	0.93	U		63
BDE 208	NotFnd	<1.2	1.2	U		130
BDE 207	NotFnd	<1.0	1.0	U		130
BDE 206	NotFnd	<1.3	1.3	U		130
BDE 209	24.19	<13	4.0	M,J,R	13	130
DBDPE	25.95	<100	16	M,J,R	100	250
Extraction Standards	pg	% Rec	Limits			
13C12 BDE 15	1000	7.35	44	25-150		
13C12 BDE 28	1000	8.92	79	25-150		
13C6 HBB	1000	10.28	84	25-150		
13C12 BDE 47	1000	10.84	93	25-150		
13C12 BDE 77	1000	11.61	104	25-150		
13C12 BDE 100	1000	12.51	77	25-150		
13C12 BDE 99	1000	13.02	73	25-150		
13C12 BDE 126	1000	14.10	67	25-150		
13C12 BDE 154	1000	14.47	57	25-150		
13C12 BDE 153	1000	15.22	67	25-150		
13C12 BDE 183	1000	17.37	73	25-150		
13C12 BDE 197	2000	19.86	69	25-150		
13C12 BDE 207	5000	21.80	67	25-150		
13C12 BDE 209	5000	24.17	53	20-200		
13C14 DBDPE	10000	25.92	38	5-200		
Cleanup Standard	pg					
13C12 BDE 138 Cleanup	2000	16.18	69	30-135		

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	Laboratory Control Sample	Sampling Date	n/a	Approved: <i>Ella Gdyczynski</i> --e-signature-- 11-Jan-2022
ALS Sample ID	WG3655103-2	Extraction Date	10-Dec-21	
Analysis Method	EPA 1614	Sample Size	1	
Analysis Type	LCS	Percent Moisture	n/a	
Sample Matrix	QC	Split Ratio	1	

Run Information	Run 1
Filename	10-220106A02
Run Date	06-Jan-22 03:18
Final Volume	25 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5 US1752726H

Target Analytes	pg	Ret. Time	% Rec	Limits	Flags
BDE 10	400	6.55	13	5-130	
BDE 7	400	6.93	50	5-130	
BDE 8/11	800	7.10	83	50-150	
BDE 12/13	800	7.22	82	5-130	
BDE 15	400	7.36	97	50-150	
BDE 30	400	8.06	54	5-130	
BDE 32	400	8.52	92	50-150	
BDE 17/25	800	8.68	93	50-150	
BDE 28/33	800	8.92	96	50-150	
BDE 35	400	9.07	104	50-150	
BDE 37	400	9.27	106	50-150	
PBEB	400	9.28	101	50-150	
HBB	400	10.29	100	50-150	
BDE 75	400	10.34	91	50-150	
BDE 51	400	10.41	91	50-150	
BDE 49	400	10.51	84	50-150	
BDE 71	400	10.58	98	50-150	
BDE 47	400	10.85	100	50-150	
BDE 79	400	11.02	65	50-150	
BDE 66	400	11.15	102	50-150	
BDE 77	400	11.64	99	50-150	
BDE 100	600	12.53	98	50-150	
BDE 119/120	1200	12.71	101	50-150	
BDE 99	600	13.04	99	50-150	
BDE 116	600	13.20	85	40-140	
BDE 83	600	13.34	112	50-150	
BDE 118	600	13.46	110	50-150	
BDE 85	600	13.95	107	50-150	
BDE 126	600	14.13	100	50-150	
BDE 105	600	14.28	108	50-150	
BDE 155	800	14.12	114	50-150	
BDE 154	800	14.50	93	50-150	
BDE 153	800	15.25	101	50-150	
BDE 140	800	15.71	136	50-150	
BDE 138/166	1600	16.21	144	50-150	
BDE 156	800	16.58	140	50-150	
BDE 128	800	17.20	134	50-150	
BDE 184	1000	17.02	90	50-150	
BDE 183	1000	17.39	97	50-150	
BDE 191	1000	17.96	102	50-150	
BDE 181	1000	18.51	99	50-150	
BDE 190	1000	18.67	104	50-150	
BDE 197	1000	19.88	97	50-150	
BDE 203	1000	20.15	101	50-150	
BDE 196	1000	20.28	106	50-150	
BDE 208	2000	21.67	105	50-150	
BDE 207	2000	21.81	101	50-150	
BDE 206	2000	22.14	120	50-150	
BDE 209	2000	24.20	99	40-200	
DBDPE	4000	25.93	105	40-200	
Extraction Standards	pg	% Rec	Limits	M	
13C12 BDE 15	1000	7.35	56	25-150	
13C12 BDE 28	1000	8.92	86	30-140	
13C6 HBB	1000	10.29	88	30-140	
13C12 BDE 47	1000	10.84	99	30-140	
13C12 BDE 77	1000	11.62	112	30-140	
13C12 BDE 100	1000	12.53	68	30-140	
13C12 BDE 99	1000	13.04	71	30-140	
13C12 BDE 126	1000	14.12	75	30-140	
13C12 BDE 154	1000	14.48	50	30-140	
13C12 BDE 153	1000	15.24	67	30-140	
13C12 BDE 183	1000	17.39	66	30-140	
13C12 BDE 197	2000	19.88	65	30-140	
13C12 BDE 207	5000	21.80	65	30-140	
13C12 BDE 209	5000	24.19	62	20-200	
13C14 DBDPE	10000	25.92	51	5-200	
Cleanup Standard	pg				
13C12 BDE 138 Cleanup	2000	16.20	83	40-125	

M Indicates that a peak has been manually integrated.

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

NELAP Certification Number: CA00046 (HW)
State Certification Number: CA1312 (WW & DW)

January 3, 2022

Apex Laboratory
6700 S.W. Sandburg St.
Tigard, Oregon 97223

Attn: Amy Sager Patton

Subject: Report of Data: Case 98172

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Patton,

Five water samples were received on November 10, 2021. Revised written results are being provided on this January 3, 2022, for the requested analysis. All holding times were met.

For the EPA 8290 and PFAS analyses, the samples were prepared according to the method. Some extracted internal standards recovered outside of control limits.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

for

Loren Portwood, Laboratory Director
APPL, Inc.

LP/gs
Enclosure
cc: File

EPA 8290A - DIOXINS & FURANS

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: W.VV

Sample Collection Date: 11/9/2021

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46739

QCG: \$829ADOD5-211208-2714

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	18 U	125.0	18PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,6,7,8-HPCDF	0.58 U	125.0	0.58DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8,9-HPCDF	0.76 U	125.0	0.76DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDD	1.3 U	125.0	1.3DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDF	2.5 U	125.0	2.5DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDD	1.2 U	125.0	1.2DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDF	3.3 U	125.0	3.3PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDD	1.2 U	125.0	1.2DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDF	2.9 U	125.0	2.9DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDD	1.0 U	125.0	1.0DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDF	3.0 U	125.0	3.0DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,6,7,8-HXCDF	12 U	125.0	12PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,7,8-PECDF	3.1 U	125.0	3.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDD	0.84 U	50.0	0.84DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDF	1.0 U	50.0	1.0DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDD	170 J	250.0	170PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDF	24 J	250.0	24PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	TEQ	0.058	NA			12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	74.3	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	67.9	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	73.5	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	76.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	58.2	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	66.7	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	62.1	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	57.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-OCDD (S)	69.1	40-135		%	12/8/2021	12/9/2021

J = Estimated value.

Quant Method: 211206_8290
Run #: 211209_HR_06
Instrument: MAGNETO
Sequence: 211209
Dilution Factor: 1
Initials: RP

Printed: 12/10/2021 8:54:22 AM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: NRT

Sample Collection Date: 11/9/2021

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46740

QCG: \$829ADOD5-211208-2714

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	26 J	125.0	26PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,6,7,8-HPCDF	0.85 U	125.0	0.85DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8,9-HPCDF	1.1 U	125.0	1.1PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDD	0.96 U	125.0	0.96PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDF	1.8 U	125.0	1.8DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDD	1.1 U	125.0	1.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDF	1.7 U	125.0	1.7DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDD	1.7 J	125.0	1.7PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDF	2.1 U	125.0	2.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDD	0.60 U	125.0	0.60DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDF	0.78 U	125.0	0.78DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,6,7,8-HXCDF	17 U	125.0	17PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,7,8-PECDF	0.82 U	125.0	0.82DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDD	0.72 U	50.0	0.72DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDF	1.1 U	50.0	1.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDD	210 J	250.0	210PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDF	20 U	250.0	20PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	TEQ	0.49	NA			12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	80.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	70.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	76.7	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	81.2	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	67.7	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	75.9	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	69.6	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	65.6	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-OCDD (S)	83.6	40-135		%	12/8/2021	12/9/2021

J = Estimated value.

Quant Method: 211206_8290
Run #: 211209_HR_07
Instrument: MAGNETO
Sequence: 211209
Dilution Factor: 1
Initials: RP

Printed: 12/10/2021 8:54:22 AM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: COLVER RD

Sample Collection Date: 11/9/2021

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46741

QCG: \$829ADOD5-211208-2714

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	15 U	125.0	15PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,6,7,8-HPCDF	4.8 U	125.0	4.8PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8,9-HPCDF	1.1 U	125.0	1.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDD	0.57 U	125.0	0.57PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,4,7,8-HXCDF	1.9 U	125.0	1.9DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDD	0.73 U	125.0	0.73DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,6,7,8-HXCDF	1.8 U	125.0	1.8DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDD	0.78 U	125.0	0.78PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8,9-HXCDF	2.2 U	125.0	2.2DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDD	0.75 U	125.0	0.75DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	1,2,3,7,8-PECDF	1.1 U	125.0	1.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,6,7,8-HXCDF	7.0 U	125.0	7.0PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,4,7,8-PECDF	1.1 U	125.0	1.1DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDD	1.0 U	50.0	1.0DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	2,3,7,8-TCDF	0.79 U	50.0	0.79DL	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDD	92 J	250.0	92PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	OCDF	13 U	250.0	13PC	pg/L	12/8/2021	12/9/2021
EPA 8290A	TEQ	0.028	NA			12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	76.0	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	69.0	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	73.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	77.9	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	68.1	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	76.6	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	65.4	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	62.3	40-135		%	12/8/2021	12/9/2021
EPA 8290A	SURROGATE: 13C-OCDD (S)	72.5	40-135		%	12/8/2021	12/9/2021

J = Estimated value.

Quant Method: 211206_8290
Run #: 211209_HR_08
Instrument: MAGNETO
Sequence: 211209
Dilution Factor: 1
Initials: RP

Printed: 12/10/2021 8:54:22 AM
Form 1 - APPL Standard GC - No MC

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: W.VV

Sample Collection Date: 11/09/21

ARF: 98172

APPL ID: BA46739

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	PFBA	3.8 J	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFBS	4.6 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHPA	2.6 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
B-15	PFHXA	2.5 J	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
B-15	PFOA	2.9 J	5.0	0.41	ng/L	12/10/21	12/20/21
B-15	PFOS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	12/10/21	12/20/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
B-15	SURROGATE: 13C2-4:2FTS (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-6:2FTS (S)	143	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-8:2FTS (S)	85.6	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2022
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: W.VV

Sample Collection Date: 11/09/21

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46739

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	103	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-PFTEDA (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	93.1	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFBS (S)	105	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFHXS (S)	98.9	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFBA (S)	123	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFHPA (S)	95.0	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFHXA (S)	105	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFPEA (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C6-PFDA (S)	97.5	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C7-PFUDA (S)	99.7	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOA (S)	113	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOS (S)	111	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOSA (S)	111	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C9-PFNA (S)	102	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-MEFOSA (S)	84.9	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-NMEFOSAA (S)	93.4	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-ETFOSA (S)	83.6	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-NETFOSAA (S)	97.8	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D7-MEFOSE (S)	83.6	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D9-ETFOSE (S)	89.5	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2022
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: NRT

Sample Collection Date: 11/09/21

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46740

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFBS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHPA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
B-15	PFHXA	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
B-15	PFOA	Not detected	5.0	0.41	ng/L	12/10/21	12/20/21
B-15	PFOS	2.7 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	12/10/21	12/20/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
B-15	SURROGATE: 13C2-4:2FTS (S)	139	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-6:2FTS (S)	143	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-8:2FTS (S)	114	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2024
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: NRT

Sample Collection Date: 11/09/21

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46740

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	113	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-PFTEDA (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	99.5	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFBS (S)	120	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFHXS (S)	122	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFBA (S)	143	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFHPA (S)	109	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFHXA (S)	108	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFPEA (S)	125	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C6-PFDA (S)	105	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C7-PFUDA (S)	111	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOA (S)	131	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOS (S)	123	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOSA (S)	122	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C9-PFNA (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-MEFOSA (S)	88.5	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-NMEFOSAA (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-ETFOSA (S)	77.8	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-NETFOSAA (S)	111	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D7-MEFOSE (S)	91.0	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D9-ETFOSE (S)	93.6	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2024
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: COLVER RD

Sample Collection Date: 11/09/21

ARF: 98172

APPL ID: BA46741

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	PFBA	5.8 J	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFBS	3.7 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDA	3.7 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHPA	6.7	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
B-15	PFHXA	7.6	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNA	2.2 J	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
B-15	PFOA	14	5.0	0.41	ng/L	12/10/21	12/20/21
B-15	PFOS	15	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFPEA	6.2	5.0	0.31	ng/L	12/10/21	12/20/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
B-15	SURROGATE: 13C2-4:2FTS (S)	140	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-6:2FTS (S)	134	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-8:2FTS (S)	103	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2025
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: COLVER RD

Sample Collection Date: 11/09/21

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA46741

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	117	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-PFTEDA (S)	125	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	95.4	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFBS (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFHXS (S)	113	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFBA (S)	130	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFHPA (S)	98.3	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFHXA (S)	106	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFPEA (S)	118	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C6-PFDA (S)	105	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C7-PFUDA (S)	110	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOA (S)	115	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOS (S)	118	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOSA (S)	110	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C9-PFNA (S)	113	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-MEFOSA (S)	86.5	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-NMEFOSAA (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-ETFOSA (S)	81.6	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-NETFOSAA (S)	102	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D7-MEFOSE (S)	91.0	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D9-ETFOSE (S)	89.9	50-150		%	12/10/21	12/20/21

J = Estimated value.

Quant Method: B15\2021_12_07
Run #: 2021-12-2025
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: FIELD BLANK

Sample Collection Date: 11/09/21

ARF: 98172

APPL ID: BA47246

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFBS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHPA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
B-15	PFHXA	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
B-15	PFOA	Not detected	5.0	0.41	ng/L	12/10/21	12/20/21
B-15	PFOS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	12/10/21	12/20/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
B-15	SURROGATE: 13C2-4:2FTS (S)	91.3	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-6:2FTS (S)	179 #	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-8:2FTS (S)	91.3	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12_07
Run #: 2021-12-2027
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: FIELD BLANK

Sample Collection Date: 11/09/21

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA47246

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	118	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-PFTEDA (S)	127	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	111	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFBS (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFHXS (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFBA (S)	164 #	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFHPA (S)	108	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFHXA (S)	116	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFPEA (S)	135	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C6-PFDA (S)	106	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C7-PFUDA (S)	109	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOA (S)	132	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOS (S)	128	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOSA (S)	121	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C9-PFNA (S)	117	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-MEFOSA (S)	64.3	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-NMEFOSAA (S)	117	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-ETFOSA (S)	60.7	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-NETFOSAA (S)	108	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D7-MEFOSE (S)	81.3	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D9-ETFOSE (S)	75.0	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12_07
Run #: 2021-12-2027
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: EQUIPMENT BLANK

Sample Collection Date: 11/09/21

ARF: 98172

APPL ID: BA47247

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFBS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHPA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
B-15	PFHXA	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
B-15	PFOA	Not detected	5.0	0.41	ng/L	12/10/21	12/20/21
B-15	PFOS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	12/10/21	12/20/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
B-15	SURROGATE: 13C2-4:2FTS (S)	93.5	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-6:2FTS (S)	151 #	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-8:2FTS (S)	102	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12_07
Run #: 2021-12-2028
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC.
6700 SW Sandburg St.
Tigard, OR 97223

Attn: Amy Sager Patton

Project: Post-Fire WQ

Sample ID: EQUIPMENT BLANK

Sample Collection Date: 11/09/21

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

ARF: 98172

APPL ID: BA47247

QCG: #PFASC-211210A-271853

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	117	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C2-PFTEDA (S)	133	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	112	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFBS (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C3-PFHXS (S)	122	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFBA (S)	166 #	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C4-PFHPA (S)	112	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFHXA (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C5-PFPEA (S)	143	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C6-PFDA (S)	112	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C7-PFUDA (S)	118	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOA (S)	135	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOS (S)	130	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C8-PFOSA (S)	105	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: 13C9-PFNA (S)	119	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-MEFOSA (S)	61.1	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D3-NMEFOSAA (S)	114	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-ETFOSA (S)	59.7	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D5-NETFOSAA (S)	120	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D7-MEFOSE (S)	65.8	50-150		%	12/10/21	12/20/21
B-15	SURROGATE: D9-ETFOSE (S)	65.6	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12_07
Run #: 2021-12-2028
Instrument: Saphira
Sequence: 2021-12-20
Dilution Factor: 1
Initials: DG

Printed: 12/29/2021 10:08:25 AM
APPL-F1-SC-NoMC-REG MDLs

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **211208W-46739 - 271498**
 Batch ID: \$829ADOD5-211208

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	2.1 U	125.0	2.1PC	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,4,6,7,8-HPCDF	0.41 U	125.0	0.41DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,4,7,8,9-HPCDF	0.55 U	125.0	0.55DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,4,7,8-HXCDD	0.30 U	125.0	0.30PC	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,4,7,8-HXCDF	0.57 U	125.0	0.57DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,6,7,8-HXCDD	0.63 U	125.0	0.63DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,6,7,8-HXCDF	0.54 U	125.0	0.54DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,7,8,9-HXCDD	0.62 U	125.0	0.62DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,7,8,9-HXCDF	0.67 U	125.0	0.67DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,7,8-PECDD	1.0 U	125.0	1.0DL	pg/L	12/8/2021	12/9/2021
BLANK	1,2,3,7,8-PECDF	0.21 U	125.0	0.21PC	pg/L	12/8/2021	12/9/2021
BLANK	2,3,4,6,7,8-HXCDF	0.51 U	125.0	0.51PC	pg/L	12/8/2021	12/9/2021
BLANK	2,3,4,7,8-PECDF	0.47 U	125.0	0.47PC	pg/L	12/8/2021	12/9/2021
BLANK	2,3,7,8-TCDD	1.3 U	50.0	1.3DL	pg/L	12/8/2021	12/9/2021
BLANK	2,3,7,8-TCDF	0.59 U	50.0	0.59DL	pg/L	12/8/2021	12/9/2021
BLANK	OCDD	14 J	250.0	14PC	pg/L	12/8/2021	12/9/2021
BLANK	OCDF	2.1 U	250.0	2.1PC	pg/L	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	80.9	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	76.3	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	83.9	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	86.2	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	72.0	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	82.0	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	69.7	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	64.8	40-135		%	12/8/2021	12/9/2021
BLANK	SURROGATE: 13C-OCDD (S)	77.9	40-135		%	12/8/2021	12/9/2021

J = Estimated value.

Quant Method: 211206_8290
 Run #: 211209_HR_05
 Instrument: MAGNETO
 Sequence: 211209
 Initials: RP

Printed: 12/10/2021 8:55:37 AM

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: 211208W-46739 LCS - 271498

Batch ID: #829ADOD5-211208

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	1250	1410	1370	113	110	79-122	2.9	20
1,2,3,4,6,7,8-HPCDF	1250	1510	1400	121	112	81-130	7.6	20
1,2,3,4,7,8,9-HPCDF	1250	1460	1270	117	102	77-128	13.9	20
1,2,3,4,7,8-HXCDD	1250	1320	1240	106	99.2	80-126	6.3	20
1,2,3,4,7,8-HXCDF	1250	1350	1310	108	105	80-130	3.0	20
1,2,3,6,7,8-HXCDD	1250	1350	1240	108	99.2	78-134	8.5	20
1,2,3,6,7,8-HXCDF	1250	1340	1280	107	102	79-131	4.6	20
1,2,3,7,8,9-HXCDD	1250	1310	1250	105	100	76-137	4.7	20
1,2,3,7,8,9-HXCDF	1250	1340	1240	107	99.2	83-130	7.8	20
1,2,3,7,8-PECDD	1250	1490	1380	119	110	76-121	7.7	20
1,2,3,7,8-PECDF	1250	1390	1330	111	106	82-130	4.4	20
2,3,4,6,7,8-HXCDF	1250	1350	1300	108	104	81-130	3.8	20
2,3,4,7,8-PECDF	1250	1230	1200	98.4	96.0	77-129	2.5	20
2,3,7,8-TCDD	500	549	514	110	103	71-125	6.6	20
2,3,7,8-TCDF	500	552	526	110	105	72-138	4.8	20
OCDD	2500	2980	2890	119	116	81-135	3.1	20
OCDF	2500	2730	2510	109	100	66-150	8.4	20
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	3500	3740	70.0	74.8	40-135		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	3160	3590	63.2	71.8	40-135		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	3650	3840	73.0	76.8	40-135		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	3710	4080	74.2	81.6	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1220	1390	61.0	69.5	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1400	1490	70.0	74.5	40-135		
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1240	1300	62.0	65.0	40-135		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	211206_8290	211206_8290
Extraction Date :	12/8/2021	12/8/2021
Analysis Date :	12/9/2021	12/9/2021
Instrument :	MAGNETO	MAGNETO
Run :	211209_HR_03	211209_HR_04
Initials :	RP	

Printed: 12/10/2021 8:55:47 AM

APPL Standard LCSD

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: 211208W-46739 LCS - 271498

Batch ID: #829ADOD5-211208

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1180	1250	59.0	62.5	40-135		
SURROGATE: 13C-OCDD (S)	10000	6210	7070	62.1	70.7	40-135		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	211206_8290	211206_8290
Extraction Date :	12/8/2021	12/8/2021
Analysis Date :	12/9/2021	12/9/2021
Instrument :	MAGNETO	MAGNETO
Run :	211209_HR_03	211209_HR_04
Initials :	RP	

Printed: 12/10/2021 8:55:47 AM

APPL Standard LCSD

Method Blank

PFAS IN WATER

Blank Name/QCG: **211210W-46739 - 271853**
 Batch ID: #PFASC-211210A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	12/10/21	12/20/21
BLANK	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	12/10/21	12/20/21
BLANK	ADONA	Not detected	8.0	1.30	ng/L	12/10/21	12/20/21
BLANK	FTS 4:2	Not detected	8.0	0.54	ng/L	12/10/21	12/20/21
BLANK	FTS 6:2	Not detected	8.0	0.45	ng/L	12/10/21	12/20/21
BLANK	FTS 8:2	Not detected	8.0	1.01	ng/L	12/10/21	12/20/21
BLANK	HFPO-DA	Not detected	8.0	2.45	ng/L	12/10/21	12/20/21
BLANK	N-ETFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
BLANK	N-ETFOSAA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
BLANK	N-ETFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
BLANK	N-MEFOSA	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
BLANK	N-MEFOSAA	Not detected	8.0	0.36	ng/L	12/10/21	12/20/21
BLANK	N-MEFOSE	Not detected	8.0	3.00	ng/L	12/10/21	12/20/21
BLANK	PFBA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFBS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFDA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFDOA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFDS	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
BLANK	PFHPA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFHPS	Not detected	5.0	0.28	ng/L	12/10/21	12/20/21
BLANK	PFHXA	Not detected	5.0	0.32	ng/L	12/10/21	12/20/21
BLANK	PFHXS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFNA	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFNS	Not detected	8.0	0.40	ng/L	12/10/21	12/20/21
BLANK	PFOA	Not detected	5.0	0.41	ng/L	12/10/21	12/20/21
BLANK	PFOS	Not detected	5.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFOSA	Not detected	8.0	0.25	ng/L	12/10/21	12/20/21
BLANK	PFPEA	Not detected	5.0	0.31	ng/L	12/10/21	12/20/21
BLANK	PFPEs	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
BLANK	PFTEDA	Not detected	8.0	0.43	ng/L	12/10/21	12/20/21
BLANK	PFTRDA	Not detected	5.0	0.29	ng/L	12/10/21	12/20/21
BLANK	PFUDA	Not detected	5.0	0.40	ng/L	12/10/21	12/20/21
BLANK	SURROGATE: 13C2-4:2FTS (S)	104	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C2-6:2FTS (S)	165 #	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12
 Run #: 2021-12-201
 Instrument: Saphira
 Sequence: 2021-12-20
 Initials: DG

GC SC-Blank-REG MDLs
 Printed: 12/29/2021 10:08:30 AM

Method Blank

PFAS IN WATER

Blank Name/QCG: **211210W-46739 - 271853**
 Batch ID: #PFASC-211210A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	SURROGATE: 13C2-8:2FTS (S)	94.9	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C2-PFDOA (S)	121	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C2-PFTEDA (S)	127	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C3-HFPO-DA (S)	108	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C3-PFBS (S)	125	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C3-PFHXS (S)	123	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C4-PFBA (S)	156 #	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C4-PFHFA (S)	117	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C5-PFHXA (S)	120	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C5-PFPEA (S)	135	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C6-PFDA (S)	113	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C7-PFUDA (S)	113	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C8-PFOA (S)	130	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C8-PFOS (S)	126	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C8-PFOSA (S)	121	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: 13C9-PFNA (S)	117	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D3-MEFOSA (S)	51.8	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D3-NMEFOSAA (S)	114	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D5-ETFOSA (S)	50.9	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D5-NETFOSAA (S)	107	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D7-MEFOSE (S)	80.2	50-150		%	12/10/21	12/20/21
BLANK	SURROGATE: D9-ETFOSE (S)	83.0	50-150		%	12/10/21	12/20/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_12
 Run #: 2021-12-201
 Instrument: Saphira
 Sequence: 2021-12-20
 Initials: DG

GC SC-Blank-REG MDLs
 Printed: 12/29/2021 10:08:30 AM

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 211210W-46739 LCS - 271853

Batch ID: #PFASC-211210A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
11-CL-PF3OUDS	75.5	82.8	81.2	110	108	54-138	2.0	30
9-CL-PF3ONS	74.7	78.7	74.1	105	99.2	62-140	6.0	30
ADONA	75.6	86.9	86.7	115	115	61-169	0.23	30
FTS 4:2	150	154	154	103	103	63-143	0.0	30
FTS 6:2	152	146	177	96.1	117	64-140	19.2	30
FTS 8:2	153	148	166	96.5	108	67-138	11.5	30
HFPO-DA	80.0	94.8	90.0	119	113	44-175	5.2	30
N-ETFOSA	160	175	181	109	113	76-137	3.4	30
N-ETFOSAA	40.0	40.8	45.7	102	114	61-135	11.3	30
N-ETFOSE	160	152	169	95.0	106	39-150	10.6	30
N-MEFOSA	160	170	159	106	99.4	68-141	6.7	30
N-MEFOSAA	40.0	49.4	46.1	124	115	65-136	6.9	30
N-MEFOSE	160	191	180	119	113	68-144	5.9	30
PFBA	160	178	168	111	105	73-129	5.8	30
PFBS	35.4	40.4	35.3	114	99.7	72-130	13.5	30
PFDA	40.0	47.7	44.5	119	111	71-129	6.9	30
PFDOA	40.0	42.6	43.1	107	108	72-134	1.2	30
PFDS	38.5	41.9	39.0	109	101	53-142	7.2	30
PFHPA	40.0	47.0	46.3	118	116	72-130	1.5	30
PFHPS	38.1	41.7	38.4	110	101	69-134	8.2	30
PFHXA	40.0	41.5	42.1	104	105	72-129	1.4	30
PFHXS	36.4	35.7	34.5	98.0	94.7	68-131	3.4	30
PFNA	40.0	43.8	43.5	109	109	69-130	0.69	30
PFNS	38.4	41.7	37.3	109	97.1	69-127	11.1	30

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	B15\2021_12_07	B15\2021_12_07
Extraction Date :	12/10/2021	12/10/2021
Analysis Date :	12/20/2021	12/20/2021
Instrument :	Saphira	Saphira
Run :	2021-12-2011	2021-12-2012
Initials :	DG	

Printed: 12/29/2021 10:08:20 AM

APPL Standard LCSD

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 211210W-46739 LCS - 271853

Batch ID: #PFASC-211210A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PFOA	40.0	43.7	45.5	109	114	71-133	4.0	30
PFOS	37.1	39.8	35.9	107	96.8	65-140	10.3	30
PFOSA	40.0	44.3	45.3	111	113	67-137	2.2	30
PFPEA	80.0	86.1	86.8	108	109	72-129	0.81	30
PFPEs	37.5	35.1	32.8	93.5	87.4	71-127	6.8	30
PFTEDA	40.0	44.7	44.0	112	110	71-132	1.6	30
PFTRDA	40.0	44.5	44.9	111	112	65-144	0.89	30
PFUDA	40.0	45.6	43.7	114	109	69-133	4.3	30
SURROGATE: 13C2-4:2FTS (S)	100	91.3	97.8	91.3	97.8	50-150		
SURROGATE: 13C2-6:2FTS (S)	100	157	122	157 #	122	50-150		
SURROGATE: 13C2-8:2FTS (S)	100	92.5	99.4	92.5	99.4	50-150		
SURROGATE: 13C2-PFDOA (S)	100	116	115	116	115	50-150		
SURROGATE: 13C2-PFTEDA (S)	100	120	127	120	127	50-150		
SURROGATE: 13C3-HFPO-DA (S)	100	100	105	100	105	50-150		
SURROGATE: 13C3-PFBS (S)	100	109	119	109	119	50-150		
SURROGATE: 13C3-PFHXS (S)	100	119	127	119	127	50-150		
SURROGATE: 13C4-PFBA (S)	100	150	154	150	154 #	50-150		
SURROGATE: 13C4-PFHPA (S)	100	105	109	105	109	50-150		
SURROGATE: 13C5-PFHXA (S)	100	111	110	111	110	50-150		
SURROGATE: 13C5-PFPEA (S)	100	130	134	130	134	50-150		
SURROGATE: 13C6-PFDA (S)	100	102	110	102	110	50-150		
SURROGATE: 13C7-PFUDA (S)	100	115	112	115	112	50-150		
SURROGATE: 13C8-PFOA (S)	100	121	122	121	122	50-150		
SURROGATE: 13C8-PFOS (S)	100	120	129	120	129	50-150		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	B15\2021_12_07	B15\2021_12_07
Extraction Date :	12/10/2021	12/10/2021
Analysis Date :	12/20/2021	12/20/2021
Instrument :	Saphira	Saphira
Run :	2021-12-2011	2021-12-2012
Initials :	DG	

Printed: 12/29/2021 10:08:20 AM

APPL Standard LCSD

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 211210W-46739 LCS - 271853

Batch ID: #PFASC-211210A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C8-PFOSA (S)	100	111	119	111	119	50-150		
SURROGATE: 13C9-PFNA (S)	100	119	121	119	121	50-150		
SURROGATE: D3-MEFOSA (S)	100	59.9	62.1	59.9	62.1	50-150		
SURROGATE: D3-NMEFOSAA (S)	100	95.8	110	95.8	110	50-150		
SURROGATE: D5-ETFOSA (S)	100	58.5	58.3	58.5	58.3	50-150		
SURROGATE: D5-NETFOSAA (S)	100	110	102	110	102	50-150		
SURROGATE: D7-MEFOSE (S)	100	77.7	85.1	77.7	85.1	50-150		
SURROGATE: D9-ETFOSE (S)	100	86.6	87.1	86.6	87.1	50-150		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	B15\2021_12_07	B15\2021_12_07
Extraction Date :	12/10/2021	12/10/2021
Analysis Date :	12/20/2021	12/20/2021
Instrument :	Saphira	Saphira
Run :	2021-12-2011	2021-12-2012
Initials :	DG	

Printed: 12/29/2021 10:08:20 AM

APPL Standard LCSD

[illegible]

COOLER RECEIPT FORM

ARF: 98172

- 1) Project: Post-Fire WQ Date Received: 11/10/2021
- 2) Coolers: Number of Coolers: 1
- 3) No Were custody seals present and intact?
How many? 0 Name/Date on seal? _____
- 4) YES Was there a shipping slip? Carrier name: FEDEX
- 5) Type of packing in cooler: ☒ bubble wrap ☐ popcorn ☐ foam ☒ plastic bags ☐ other
☒ wet ice ☐ dry ice ☐ no ice ☐ gel ice
- 6) No Were cooler temperatures acceptable?
- 7) Serial number of calibrated thermometer used: IRB CF:+1.1°C
- 8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
- | | | | | | |
|-------------------|----------|----------|-----------|-----------|-----------|
| 1: <u>8.1/9.2</u> | 2: _____ | 3: _____ | 4: _____ | 5: _____ | 6: _____ |
| 7: _____ | 8: _____ | 9: _____ | 10: _____ | 11: _____ | 12: _____ |

Chain of custody:

- 9) YES Was a chain of custody received?
- 10) No Were the custody papers complete/signed in the appropriate places?

Sample Labels:

- 11) No Were all sample labels complete (sample ID, date/time of sampling, etc.)?
- 12) No Did all container labels agree with custody papers?

Sample Containers:

- 13) YES Were all containers sealed in separate bags?
- 14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?
- 15) YES Were correct containers and preservatives used for the tests indicated?
- 16) YES Was a sufficient amount of sample sent for tests indicated?
- 17) NA Were bubbles present in volatile samples?

If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation Hold time:

- 18) Yes Was a sufficient amount of holding time remaining to analyze the samples?
- 19) NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
- 20) NA Was the pH of acid preserved non-VOA samples < 2?
- 21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?
- 22) NO Were unpreserved VOA Vials received for VOA Dept analysis?
- 23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

pH strip lot number: _____

Lab notified if pH was not adequate: _____

Notes/Deficiencies:

Container times do not match COC times for any samples. Amber liters for NRT samples were labeled as "W.VV".
Samples not labelable without further instruction from client.

Personnel receiving samples: MS

Second reviewer: _____

Personnel labeling samples: MSProject manager notified: MSDate/Time of notification 11/10/2021

Name of client notified: _____

Date/Time of notification _____

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

Rev. 2, October 2, 2018



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Wednesday, December 28, 2022

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A2A0212 - Almeda Post Fire Monitoring-2022 - Almeda Post Fire Monitoring-2022

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2A0212, which was received by the laboratory on 1/5/2022 at 11:26:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	0.9 degC	Cooler #2	2.8 degC
Cooler #3	1.9 degC	Cooler #4	0.1 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Valley View (WVV), OF	A2A0212-01	Water	01/03/22 18:25	01/05/22 11:26
North Ridge Terrace (NRT), OF	A2A0212-02	Water	01/03/22 17:10	01/05/22 11:26
Colver Rd, OF	A2A0212-03	Water	01/03/22 17:30	01/05/22 11:26
Bear CK US Cellular	A2A0212-04	Water	01/03/22 19:10	01/05/22 11:26
Bear CK Oak St.	A2A0212-05	Water	01/03/22 20:10	01/05/22 11:26

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL CASE NARRATIVE

Work Order: A2A0212

Amended Report Revision #2:

This report supersedes all previous reports.

The EPA Method 8270E Tentatively Identified Compounds (TIC) results are included in this report.

Michele Poquiz

Forensic Project Manager

12/9/22

Amended Report Revision #1:

Partial final results have been included in this report. The pending EPA Method 8270E Tentatively Identified Compounds (TIC) results will be included in an amended final report.

Michele Poquiz

Forensic Services Technical Specialist

5/23/22

EPA Method 8270E TICs and ALS Report:

The results of the EPA Method 8270E Tentatively Identified Compound (TIC) analysis and the report generated by ALS Life Sciences will follow in a subsequent report.

Subcontracts:

This report is complete only when subcontract laboratory reports are attached from:

ALS Life Sciences - Burlington Laboratory, Canada for Polybrominated compound analyses and

Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Michele Poquiz

Forensic Services Technical Specialist

2/7/22

Apex Laboratories

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ANALYTICAL REPORT

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Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0433		
Diesel	ND	38.8	77.7	ug/L	1	01/13/22 21:44	NWTPH-Dx LL	
Oil	395	77.7	155	ug/L	1	01/13/22 21:44	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %	1	01/13/22 21:44	NWTPH-Dx LL	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0433		
Diesel	45.5	37.7	75.5	ug/L	1	01/13/22 22:05	NWTPH-Dx LL	J
Oil	318	75.5	151	ug/L	1	01/13/22 22:05	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	01/13/22 22:05	NWTPH-Dx LL	
Colver Rd, OF (A2A0212-03)				Matrix: Water		Batch: 22A0433		
Diesel	ND	40.4	80.8	ug/L	1	01/13/22 22:25	NWTPH-Dx LL	
Oil	ND	80.8	162	ug/L	1	01/13/22 22:25	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %	1	01/13/22 22:25	NWTPH-Dx LL	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22A0433		
Diesel	41.5	38.1	76.2	ug/L	1	01/13/22 22:46	NWTPH-Dx LL	J
Oil	96.5	76.2	152	ug/L	1	01/13/22 22:46	NWTPH-Dx LL	J
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	01/13/22 22:46	NWTPH-Dx LL	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22A0433		
Diesel	ND	38.1	76.2	ug/L	1	01/13/22 23:06	NWTPH-Dx LL	
Oil	92.7	76.2	152	ug/L	1	01/13/22 23:06	NWTPH-Dx LL	J
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	01/13/22 23:06	NWTPH-Dx LL	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0875		
Diesel	ND	---	77.7	ug/L	1	01/25/22 22:19	NWTPH-Dx/SGC	
Oil	285	---	155	ug/L	1	01/25/22 22:19	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	01/25/22 22:19	NWTPH-Dx/SGC	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0875		
Diesel	ND	---	75.5	ug/L	1	01/25/22 22:39	NWTPH-Dx/SGC	
Oil	194	---	151	ug/L	1	01/25/22 22:39	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 69 %		Limits: 50-150 %	1	01/25/22 22:39	NWTPH-Dx/SGC	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22B0088		
Diesel	ND	---	76.2	ug/L	1	02/02/22 22:40	NWTPH-Dx/SGC	
Oil	ND	---	152	ug/L	1	02/02/22 22:40	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 66 %		Limits: 50-150 %	1	02/02/22 22:40	NWTPH-Dx/SGC	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22B0088		
Diesel	ND	---	76.2	ug/L	1	02/02/22 23:00	NWTPH-Dx/SGC	
Oil	ND	---	152	ug/L	1	02/02/22 23:00	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %	1	02/02/22 23:00	NWTPH-Dx/SGC	

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ANALYTICAL REPORT

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503-718-2323

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01RE1)				Matrix: Water		Batch: 22A0259		
Acenaphthene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Acenaphthylene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Anthracene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Benz(a)anthracene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Benzo(a)pyrene	ND	0.0161	0.0323	ug/L	1	01/11/22 17:55	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0161	0.0323	ug/L	1	01/11/22 17:55	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0161	0.0323	ug/L	1	01/11/22 17:55	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Chrysene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Fluoranthene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Fluorene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
1-Methylnaphthalene	ND	0.0215	0.0430	ug/L	1	01/11/22 17:55	EPA 8270E	
2-Methylnaphthalene	ND	0.0215	0.0430	ug/L	1	01/11/22 17:55	EPA 8270E	
Naphthalene	0.0264	0.0215	0.0430	ug/L	1	01/11/22 17:55	EPA 8270E	J
Phenanthrene	ND	0.0215	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Pyrene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Carbazole	ND	0.0161	0.0323	ug/L	1	01/11/22 17:55	EPA 8270E	
Dibenzofuran	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
2-Chlorophenol	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
2,4-Dichlorophenol	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
2,4-Dimethylphenol	0.0637	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	J
2,4-Dinitrophenol	ND	0.538	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.269	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
2-Methylphenol	0.0477	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	J
2-Nitrophenol	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Nitrophenol	ND	0.215	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
Pentachlorophenol (PCP)	0.191	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	J
Phenol	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
2,3,5,6-Tetrachlorophenol	0.0621	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	J

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ANALYTICAL REPORT

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Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01RE1)				Matrix: Water		Batch: 22A0259		
2,4,5-Trichlorophenol	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Butyl benzyl phthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Diethylphthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Dimethylphthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Di-n-butylphthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Di-n-octyl phthalate	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0538	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Hexachlorobenzene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
Hexachlorobutadiene	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
Hexachloroethane	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
2-Chloronaphthalene	ND	0.0108	0.0215	ug/L	1	01/11/22 17:55	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Aniline	ND	0.0538	0.108	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Chloroaniline	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
2-Nitroaniline	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
3-Nitroaniline	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
4-Nitroaniline	ND	0.215	0.430	ug/L	1	01/11/22 17:55	EPA 8270E	
Nitrobenzene	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
2,4-Dinitrotoluene	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
2,6-Dinitrotoluene	ND	0.323	0.323	ug/L	1	01/11/22 17:55	EPA 8270E	R-02
Benzoic acid	1.34	1.34	2.69	ug/L	1	01/11/22 17:55	EPA 8270E	J
Benzyl alcohol	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
Isophorone	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 7 of 59



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01RE1)				Matrix: Water		Batch: 22A0259		
Azobenzene (1,2-DPH)	ND	0.0538	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.269	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.538	1.08	ug/L	1	01/11/22 17:55	EPA 8270E	
1,2-Dinitrobenzene	ND	0.269	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
1,3-Dinitrobenzene	ND	0.269	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
1,4-Dinitrobenzene	ND	0.269	0.538	ug/L	1	01/11/22 17:55	EPA 8270E	
Pyridine	ND	0.108	0.215	ug/L	1	01/11/22 17:55	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0269	0.0538	ug/L	1	01/11/22 17:55	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 86 %		Limits: 44-120 %	1	01/11/22 17:55	EPA 8270E	Q-41
2-Fluorobiphenyl (Surr)		79 %		44-120 %	1	01/11/22 17:55	EPA 8270E	Q-41
Phenol-d6 (Surr)		34 %		10-133 %	1	01/11/22 17:55	EPA 8270E	
p-Terphenyl-d14 (Surr)		88 %		50-134 %	1	01/11/22 17:55	EPA 8270E	
2-Fluorophenol (Surr)		47 %		19-120 %	1	01/11/22 17:55	EPA 8270E	
2,4,6-Tribromophenol (Surr)		96 %		43-140 %	1	01/11/22 17:55	EPA 8270E	
West Valley View (WVV), OF (A2A0212-01RE2)				Matrix: Water		Batch: 22A0259		
3+4-Methylphenol(s)	0.0436	0.0269	0.0538	ug/L	1	01/13/22 14:02	EPA 8270E	J
North Ridge Terrace (NRT), OF (A2A0212-02RE1)				Matrix: Water		Batch: 22A0259		
Acenaphthene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Acenaphthylene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Anthracene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Benz(a)anthracene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzo(a)pyrene	ND	0.0152	0.0303	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0152	0.0303	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0152	0.0303	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Chrysene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Fluoranthene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Fluorene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2A0212-02RE1)				Matrix: Water		Batch: 22A0259		
1-Methylnaphthalene	ND	0.0202	0.0404	ug/L	1	01/11/22 18:30	EPA 8270E	
2-Methylnaphthalene	ND	0.0202	0.0404	ug/L	1	01/11/22 18:30	EPA 8270E	
Naphthalene	0.0221	0.0202	0.0404	ug/L	1	01/11/22 18:30	EPA 8270E	J
Phenanthrene	ND	0.0202	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Pyrene	0.0117	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	J
Carbazole	ND	0.0152	0.0303	ug/L	1	01/11/22 18:30	EPA 8270E	
Dibenzofuran	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
2-Chlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.202	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
2,4-Dichlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
2,4-Dimethylphenol	0.0526	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	J
2,4-Dinitrophenol	ND	0.505	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.253	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
2-Methylphenol	0.0432	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	J
2-Nitrophenol	ND	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Nitrophenol	ND	0.202	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
Phenol	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.431	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Butyl benzyl phthalate	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Diethylphthalate	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Dimethylphthalate	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Di-n-butylphthalate	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Di-n-octyl phthalate	0.214	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	J
N-Nitrosodimethylamine	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0505	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0505	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2A0212-02RE1)				Matrix: Water		Batch: 22A0259		
2,2'-Oxybis(1-Chloropropane)	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Hexachlorobenzene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
Hexachlorobutadiene	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
Hexachloroethane	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
2-Chloronaphthalene	ND	0.0101	0.0202	ug/L	1	01/11/22 18:30	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Aniline	ND	0.0505	0.101	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Chloroaniline	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
2-Nitroaniline	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
3-Nitroaniline	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
4-Nitroaniline	ND	0.202	0.404	ug/L	1	01/11/22 18:30	EPA 8270E	
Nitrobenzene	ND	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
2,4-Dinitrotoluene	ND	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
2,6-Dinitrotoluene	ND	0.202	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzoic acid	ND	1.26	2.53	ug/L	1	01/11/22 18:30	EPA 8270E	
Benzyl alcohol	0.151	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	J
Isophorone	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0505	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.253	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.505	1.01	ug/L	1	01/11/22 18:30	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.253	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
1,3-Dinitrobenzene	ND	0.253	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
1,4-Dinitrobenzene	ND	0.253	0.505	ug/L	1	01/11/22 18:30	EPA 8270E	
Pyridine	ND	0.101	0.202	ug/L	1	01/11/22 18:30	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0253	0.0505	ug/L	1	01/11/22 18:30	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 68 %		Limits: 44-120 %	1	01/11/22 18:30	EPA 8270E	Q-41
2-Fluorobiphenyl (Surr)		67 %		44-120 %	1	01/11/22 18:30	EPA 8270E	
Phenol-d6 (Surr)		26 %		10-133 %	1	01/11/22 18:30	EPA 8270E	Q-41

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2A0212-02RE1)				Matrix: Water		Batch: 22A0259		
Surrogate: p-Terphenyl-d14 (Surr)			Recovery: 88 %	Limits: 50-134 %	1	01/11/22 18:30	EPA 8270E	
2-Fluorophenol (Surr)			34 %	19-120 %	1	01/11/22 18:30	EPA 8270E	
2,4,6-Tribromophenol (Surr)			96 %	43-140 %	1	01/11/22 18:30	EPA 8270E	
North Ridge Terrace (NRT), OF (A2A0212-02RE2)				Matrix: Water		Batch: 22A0259		
3+4-Methylphenol(s)	0.0386	0.0253	0.0505	ug/L	1	01/13/22 14:36	EPA 8270E	J
Colver Rd, OF (A2A0212-03RE1)				Matrix: Water		Batch: 22A0259		
Acenaphthene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Acenaphthylene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Anthracene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Benz(a)anthracene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Benzo(a)pyrene	ND	0.0167	0.0333	ug/L	1	01/11/22 19:05	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0167	0.0333	ug/L	1	01/11/22 19:05	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0167	0.0333	ug/L	1	01/11/22 19:05	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Chrysene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Fluoranthene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Fluorene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
1-Methylnaphthalene	ND	0.0222	0.0444	ug/L	1	01/11/22 19:05	EPA 8270E	
2-Methylnaphthalene	ND	0.0222	0.0444	ug/L	1	01/11/22 19:05	EPA 8270E	
Naphthalene	0.0266	0.0222	0.0444	ug/L	1	01/11/22 19:05	EPA 8270E	J
Phenanthrene	ND	0.0222	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Pyrene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Carbazole	ND	0.0167	0.0333	ug/L	1	01/11/22 19:05	EPA 8270E	
Dibenzofuran	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
2-Chlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E	
2,4-Dichlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
2,4-Dimethylphenol	0.0715	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	J
2,4-Dinitrophenol	ND	0.556	0.556	ug/L	1	01/11/22 19:05	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.278	0.556	ug/L	1	01/11/22 19:05	EPA 8270E	

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AMENDED REPORT

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A2A0212-03RE1)				Matrix: Water		Batch: 22A0259		
3+4-Methylphenol(s)	0.0499	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	J
2-Nitrophenol	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E	
4-Nitrophenol	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E	
Pentachlorophenol (PCP)	0.200	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E	J
Phenol	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
Butyl benzyl phthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
Diethylphthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
Dimethylphthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
Di-n-butylphthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
Di-n-octyl phthalate	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0556	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
Hexachlorobenzene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
Hexachlorobutadiene	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
Hexachloroethane	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
2-Chloronaphthalene	ND	0.0111	0.0222	ug/L	1	01/11/22 19:05	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
Aniline	ND	0.0556	0.111	ug/L	1	01/11/22 19:05	EPA 8270E	
4-Chloroaniline	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E	
2-Nitroaniline	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	
3-Nitroaniline	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
Colver Rd, OF (A2A0212-03RE1)			Matrix: Water		Batch: 22A0259				
4-Nitroaniline	ND	0.222	0.444	ug/L	1	01/11/22 19:05	EPA 8270E	Q-52	
Nitrobenzene	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E		
2,4-Dinitrotoluene	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E		
2,6-Dinitrotoluene	ND	0.222	0.222	ug/L	1	01/11/22 19:05	EPA 8270E		
Benzoic acid	ND	1.39	2.78	ug/L	1	01/11/22 19:05	EPA 8270E		
Benzyl alcohol	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E		
Isophorone	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E		
Azobenzene (1,2-DPH)	ND	0.0556	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	0.278	0.556	ug/L	1	01/11/22 19:05	EPA 8270E		
3,3'-Dichlorobenzidine	ND	0.556	1.11	ug/L	1	01/11/22 19:05	EPA 8270E		
1,2-Dinitrobenzene	ND	0.278	0.556	ug/L	1	01/11/22 19:05	EPA 8270E		
1,3-Dinitrobenzene	ND	0.278	0.556	ug/L	1	01/11/22 19:05	EPA 8270E		
1,4-Dinitrobenzene	ND	0.278	0.556	ug/L	1	01/11/22 19:05	EPA 8270E		
Pyridine	ND	0.111	0.222	ug/L	1	01/11/22 19:05	EPA 8270E		
1,2-Dichlorobenzene	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E		
1,3-Dichlorobenzene	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E		
1,4-Dichlorobenzene	ND	0.0278	0.0556	ug/L	1	01/11/22 19:05	EPA 8270E		
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	80 %	Limits:	44-120 %	1	01/11/22 19:05		EPA 8270E
2-Fluorobiphenyl (Surr)			72 %		44-120 %	1	01/11/22 19:05	EPA 8270E	Q-41
Phenol-d6 (Surr)			33 %		10-133 %	1	01/11/22 19:05	EPA 8270E	
p-Terphenyl-d14 (Surr)			88 %		50-134 %	1	01/11/22 19:05	EPA 8270E	
2-Fluorophenol (Surr)			43 %		19-120 %	1	01/11/22 19:05	EPA 8270E	
2,4,6-Tribromophenol (Surr)			94 %		43-140 %	1	01/11/22 19:05	EPA 8270E	

Colver Rd, OF (A2A0212-03RE2)**Matrix: Water****Batch: 22A0259**

2-Methylphenol	0.0393	0.0278	0.0556	ug/L	1	01/12/22 09:42	EPA 8270E	J

Bear CK US Cellular (A2A0212-04RE2)**Matrix: Water****Batch: 22A0259**

Acenaphthene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Acenaphthylene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Anthracene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Benz(a)anthracene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Benzo(a)pyrene	ND	0.0155	0.0309	ug/L	1	01/11/22 19:39	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0155	0.0309	ug/L	1	01/11/22 19:39	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear CK US Cellular (A2A0212-04RE2)				Matrix: Water		Batch: 22A0259		
Benzo(k)fluoranthene	ND	0.0155	0.0309	ug/L	1	01/11/22 19:39	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Chrysene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Fluoranthene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Fluorene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
1-Methylnaphthalene	ND	0.0206	0.0412	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Methylnaphthalene	ND	0.0206	0.0412	ug/L	1	01/11/22 19:39	EPA 8270E	
Naphthalene	0.0209	0.0206	0.0412	ug/L	1	01/11/22 19:39	EPA 8270E	J
Phenanthrene	ND	0.0206	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Pyrene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Carbazole	ND	0.0155	0.0309	ug/L	1	01/11/22 19:39	EPA 8270E	
Dibenzofuran	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Chlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4-Dichlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4-Dimethylphenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4-Dinitrophenol	ND	0.515	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.258	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Methylphenol	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0515	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Nitrophenol	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Nitrophenol	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
Pentachlorophenol (PCP)	0.122	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	J
Phenol	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
Butyl benzyl phthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
Diethylphthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear CK US Cellular (A2A0212-04RE2)				Matrix: Water		Batch: 22A0259		
Dimethylphthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
Di-n-butylphthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
Di-n-octyl phthalate	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0515	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Hexachlorobenzene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
Hexachlorobutadiene	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
Hexachloroethane	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Chloronaphthalene	ND	0.0103	0.0206	ug/L	1	01/11/22 19:39	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Aniline	ND	0.0515	0.103	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Chloroaniline	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
2-Nitroaniline	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
3-Nitroaniline	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
4-Nitroaniline	ND	0.206	0.412	ug/L	1	01/11/22 19:39	EPA 8270E	
Nitrobenzene	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
2,4-Dinitrotoluene	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
2,6-Dinitrotoluene	ND	0.206	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
Benzoic acid	ND	1.29	2.58	ug/L	1	01/11/22 19:39	EPA 8270E	
Benzyl alcohol	0.204	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	J
Isophorone	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.258	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.515	1.03	ug/L	1	01/11/22 19:39	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.258	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	
1,3-Dinitrobenzene	ND	0.258	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear CK US Cellular (A2A0212-04RE2)				Matrix: Water		Batch: 22A0259		
1,4-Dinitrobenzene	ND	0.258	0.515	ug/L	1	01/11/22 19:39	EPA 8270E	
Pyridine	ND	0.103	0.206	ug/L	1	01/11/22 19:39	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0258	0.0515	ug/L	1	01/11/22 19:39	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	89 %	<i>Limits:</i>	44-120 %	1	01/11/22 19:39	EPA 8270E
<i>2-Fluorobiphenyl (Surr)</i>			79 %		44-120 %	1	01/11/22 19:39	EPA 8270E
<i>Phenol-d6 (Surr)</i>			32 %		10-133 %	1	01/11/22 19:39	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			83 %		50-134 %	1	01/11/22 19:39	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			45 %		19-120 %	1	01/11/22 19:39	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			100 %		43-140 %	1	01/11/22 19:39	EPA 8270E
Bear CK Oak St. (A2A0212-05RE1)				Matrix: Water		Batch: 22A0259		
Acenaphthene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Acenaphthylene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Anthracene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Benz(a)anthracene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Benzo(a)pyrene	ND	0.0160	0.0319	ug/L	1	01/11/22 20:13	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0160	0.0319	ug/L	1	01/11/22 20:13	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0160	0.0319	ug/L	1	01/11/22 20:13	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Chrysene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Fluoranthene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Fluorene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
1-Methylnaphthalene	ND	0.0213	0.0426	ug/L	1	01/11/22 20:13	EPA 8270E	
2-Methylnaphthalene	ND	0.0213	0.0426	ug/L	1	01/11/22 20:13	EPA 8270E	
Naphthalene	0.0232	0.0213	0.0426	ug/L	1	01/11/22 20:13	EPA 8270E	J
Phenanthrene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Pyrene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Carbazole	ND	0.0160	0.0319	ug/L	1	01/11/22 20:13	EPA 8270E	
Dibenzofuran	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
2-Chlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear CK Oak St. (A2A0212-05RE1)				Matrix: Water		Batch: 22A0259		
4-Chloro-3-methylphenol	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E	
2,4-Dichlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
2,4-Dimethylphenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
2,4-Dinitrophenol	ND	0.532	0.532	ug/L	1	01/11/22 20:13	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.266	0.532	ug/L	1	01/11/22 20:13	EPA 8270E	
2-Methylphenol	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
2-Nitrophenol	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E	
4-Nitrophenol	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E	
Pentachlorophenol (PCP)	0.172	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E	J
Phenol	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
Butyl benzyl phthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
Diethylphthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
Dimethylphthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
Di-n-butylphthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
Di-n-octyl phthalate	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0532	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
Hexachlorobenzene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
Hexachlorobutadiene	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E	
Hexachloroethane	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	
2-Chloronaphthalene	ND	0.0106	0.0213	ug/L	1	01/11/22 20:13	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
Bear CK Oak St. (A2A0212-05RE1)			Matrix: Water			Batch: 22A0259			
4-Bromophenyl phenyl ether	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
4-Chlorophenyl phenyl ether	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
Aniline	ND	0.0532	0.106	ug/L	1	01/11/22 20:13	EPA 8270E		
4-Chloroaniline	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
2-Nitroaniline	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E		
3-Nitroaniline	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E		
4-Nitroaniline	ND	0.213	0.426	ug/L	1	01/11/22 20:13	EPA 8270E		
Nitrobenzene	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E		
2,4-Dinitrotoluene	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E		
2,6-Dinitrotoluene	ND	0.213	0.213	ug/L	1	01/11/22 20:13	EPA 8270E		
Benzoic acid	ND	1.33	2.66	ug/L	1	01/11/22 20:13	EPA 8270E		
Benzyl alcohol	0.112	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E	J	
Isophorone	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
Azobenzene (1,2-DPH)	ND	0.0532	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	0.266	0.532	ug/L	1	01/11/22 20:13	EPA 8270E		
3,3'-Dichlorobenzidine	ND	0.532	1.06	ug/L	1	01/11/22 20:13	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	0.266	0.532	ug/L	1	01/11/22 20:13	EPA 8270E		
1,3-Dinitrobenzene	ND	0.266	0.532	ug/L	1	01/11/22 20:13	EPA 8270E		
1,4-Dinitrobenzene	ND	0.266	0.532	ug/L	1	01/11/22 20:13	EPA 8270E		
Pyridine	ND	0.106	0.213	ug/L	1	01/11/22 20:13	EPA 8270E		
1,2-Dichlorobenzene	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
1,3-Dichlorobenzene	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
1,4-Dichlorobenzene	ND	0.0266	0.0532	ug/L	1	01/11/22 20:13	EPA 8270E		
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	76 %	Limits:	44-120 %	1	01/11/22 20:13	EPA 8270E	Q-41
2-Fluorobiphenyl (Surr)			71 %		44-120 %	1	01/11/22 20:13	EPA 8270E	
Phenol-d6 (Surr)			30 %		10-133 %	1	01/11/22 20:13	EPA 8270E	Q-41
p-Terphenyl-d14 (Surr)			86 %		50-134 %	1	01/11/22 20:13	EPA 8270E	
2-Fluorophenol (Surr)			42 %		19-120 %	1	01/11/22 20:13	EPA 8270E	
2,4,6-Tribromophenol (Surr)			91 %		43-140 %	1	01/11/22 20:13	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water				
Batch: 22A0505								
Aluminum	2410	25.0	50.0	ug/L	1	01/14/22 21:33	EPA 200.8	J
Antimony	ND	0.500	1.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Arsenic	1.59	0.500	1.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Beryllium	0.134	0.100	0.200	ug/L	1	01/14/22 21:33	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	01/14/22 21:33	EPA 200.8	
Calcium	44800	375	600	ug/L	1	01/14/22 21:33	EPA 200.8	
Chromium	4.46	1.00	2.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Copper	10.3	1.00	2.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Iron	2970	25.0	50.0	ug/L	1	01/14/22 21:33	EPA 200.8	
Lead	5.00	0.100	0.200	ug/L	1	01/14/22 21:33	EPA 200.8	
Magnesium	13900	75.0	150	ug/L	1	01/14/22 21:33	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	01/14/22 21:33	EPA 200.8	
Nickel	4.70	1.00	2.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Selenium	ND	1.00	2.00	ug/L	1	01/14/22 21:33	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	01/14/22 21:33	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	01/14/22 21:33	EPA 200.8	
Zinc	33.4	2.00	4.00	ug/L	1	01/14/22 21:33	EPA 200.8	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water				
Batch: 22A0505								
Aluminum	276	25.0	50.0	ug/L	1	01/14/22 21:37	EPA 200.8	J
Antimony	ND	0.500	1.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Arsenic	0.618	0.500	1.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	01/14/22 21:37	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	01/14/22 21:37	EPA 200.8	
Calcium	5670	375	600	ug/L	1	01/14/22 21:37	EPA 200.8	
Chromium	ND	1.00	2.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Copper	4.69	1.00	2.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Iron	299	25.0	50.0	ug/L	1	01/14/22 21:37	EPA 200.8	
Lead	0.954	0.100	0.200	ug/L	1	01/14/22 21:37	EPA 200.8	
Magnesium	512	75.0	150	ug/L	1	01/14/22 21:37	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	01/14/22 21:37	EPA 200.8	
Nickel	1.25	1.00	2.00	ug/L	1	01/14/22 21:37	EPA 200.8	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water				
Selenium	ND	1.00	2.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	01/14/22 21:37	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	01/14/22 21:37	EPA 200.8	
Zinc	23.9	2.00	4.00	ug/L	1	01/14/22 21:37	EPA 200.8	
Colver Rd, OF (A2A0212-03)				Matrix: Water				
Batch: 22A0505								
Aluminum	632	25.0	50.0	ug/L	1	01/14/22 21:52	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	01/14/22 21:52	EPA 200.8	
Arsenic	0.600	0.500	1.00	ug/L	1	01/14/22 21:52	EPA 200.8	J
Beryllium	ND	0.100	0.200	ug/L	1	01/14/22 21:52	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	01/14/22 21:52	EPA 200.8	
Calcium	13200	375	600	ug/L	1	01/14/22 21:52	EPA 200.8	
Chromium	1.40	1.00	2.00	ug/L	1	01/14/22 21:52	EPA 200.8	J
Copper	4.70	1.00	2.00	ug/L	1	01/14/22 21:52	EPA 200.8	
Iron	638	25.0	50.0	ug/L	1	01/14/22 21:52	EPA 200.8	
Lead	0.468	0.100	0.200	ug/L	1	01/14/22 21:52	EPA 200.8	
Magnesium	2750	75.0	150	ug/L	1	01/14/22 21:52	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	01/14/22 21:52	EPA 200.8	
Nickel	1.43	1.00	2.00	ug/L	1	01/14/22 21:52	EPA 200.8	J
Selenium	ND	1.00	2.00	ug/L	1	01/14/22 21:52	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	01/14/22 21:52	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	01/14/22 21:52	EPA 200.8	
Zinc	23.0	2.00	4.00	ug/L	1	01/14/22 21:52	EPA 200.8	
Bear CK US Cellular (A2A0212-04)				Matrix: Water				
Batch: 22A0505								
Aluminum	2520	25.0	50.0	ug/L	1	01/14/22 21:56	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Arsenic	1.92	0.500	1.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Beryllium	0.132	0.100	0.200	ug/L	1	01/14/22 21:56	EPA 200.8	J
Cadmium	ND	0.100	0.200	ug/L	1	01/14/22 21:56	EPA 200.8	
Calcium	32000	375	600	ug/L	1	01/14/22 21:56	EPA 200.8	
Chromium	4.33	1.00	2.00	ug/L	1	01/14/22 21:56	EPA 200.8	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear CK US Cellular (A2A0212-04)				Matrix: Water				
Copper	11.6	1.00	2.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Iron	4460	25.0	50.0	ug/L	1	01/14/22 21:56	EPA 200.8	
Lead	11.5	0.100	0.200	ug/L	1	01/14/22 21:56	EPA 200.8	
Magnesium	10600	75.0	150	ug/L	1	01/14/22 21:56	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	01/14/22 21:56	EPA 200.8	
Nickel	4.64	1.00	2.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Selenium	ND	1.00	2.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	01/14/22 21:56	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	01/14/22 21:56	EPA 200.8	
Zinc	39.7	2.00	4.00	ug/L	1	01/14/22 21:56	EPA 200.8	
Bear CK Oak St. (A2A0212-05)				Matrix: Water				
Batch: 22A0505								
Aluminum	593	25.0	50.0	ug/L	1	01/14/22 22:01	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	01/14/22 22:01	EPA 200.8	
Arsenic	0.820	0.500	1.00	ug/L	1	01/14/22 22:01	EPA 200.8	J
Beryllium	ND	0.100	0.200	ug/L	1	01/14/22 22:01	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	01/14/22 22:01	EPA 200.8	
Calcium	21900	375	600	ug/L	1	01/14/22 22:01	EPA 200.8	
Chromium	1.14	1.00	2.00	ug/L	1	01/14/22 22:01	EPA 200.8	J
Copper	3.52	1.00	2.00	ug/L	1	01/14/22 22:01	EPA 200.8	
Iron	1040	25.0	50.0	ug/L	1	01/14/22 22:01	EPA 200.8	
Lead	3.14	0.100	0.200	ug/L	1	01/14/22 22:01	EPA 200.8	
Magnesium	8640	75.0	150	ug/L	1	01/14/22 22:01	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	01/14/22 22:01	EPA 200.8	
Nickel	1.94	1.00	2.00	ug/L	1	01/14/22 22:01	EPA 200.8	J
Selenium	ND	1.00	2.00	ug/L	1	01/14/22 22:01	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	01/14/22 22:01	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	01/14/22 22:01	EPA 200.8	
Zinc	16.7	2.00	4.00	ug/L	1	01/14/22 22:01	EPA 200.8	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		(Calculated)		
Hardness	169	---	2.12	mg CaCO3/L	1	01/14/22 21:33	SM 2340B	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		(Calculated)		
Hardness	16.3	---	2.12	mg CaCO3/L	1	01/14/22 21:37	SM 2340B	
Colver Rd, OF (A2A0212-03)				Matrix: Water		(Calculated)		
Hardness	44.2	---	2.12	mg CaCO3/L	1	01/14/22 21:52	SM 2340B	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		(Calculated)		
Hardness	123	---	2.12	mg CaCO3/L	1	01/14/22 21:56	SM 2340B	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		(Calculated)		
Hardness	90.4	---	2.12	mg CaCO3/L	1	01/14/22 22:01	SM 2340B	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water				
Batch: 22A0100								
Nitrate-Nitrogen	1.62	0.125	0.250	mg/L	1	01/05/22 17:35	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	01/05/22 17:35	EPA 300.0	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water				
Batch: 22A0100								
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	01/05/22 20:27	EPA 300.0	H-01
North Ridge Terrace (NRT), OF (A2A0212-02RE2)				Matrix: Water				
Batch: 22A0100								
Nitrate-Nitrogen	13.2	0.625	1.25	mg/L	5	01/05/22 20:06	EPA 300.0	H-01
Colver Rd, OF (A2A0212-03)				Matrix: Water				
Batch: 22A0100								
Nitrate-Nitrogen	2.83	0.125	0.250	mg/L	1	01/05/22 17:13	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	01/05/22 17:13	EPA 300.0	
Bear CK US Cellular (A2A0212-04)				Matrix: Water				
Batch: 22A0100								
Nitrate-Nitrogen	0.883	0.125	0.250	mg/L	1	01/05/22 17:57	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	01/05/22 17:57	EPA 300.0	
Bear CK Oak St. (A2A0212-05)				Matrix: Water				
Batch: 22A0100								
Nitrate-Nitrogen	0.648	0.125	0.250	mg/L	1	01/05/22 18:18	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	01/05/22 18:18	EPA 300.0	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0275		
Total Kjeldahl Nitrogen (TKN)	0.522	0.100	0.200	mg/L	1	01/10/22 16:44	SM 4500-NorgD	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0275		
Total Kjeldahl Nitrogen (TKN)	0.500	0.100	0.200	mg/L	1	01/10/22 16:46	SM 4500-NorgD	
Colver Rd, OF (A2A0212-03)				Matrix: Water		Batch: 22A0275		
Total Kjeldahl Nitrogen (TKN)	0.397	0.100	0.200	mg/L	1	01/10/22 16:47	SM 4500-NorgD	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22A0275		
Total Kjeldahl Nitrogen (TKN)	1.75	0.100	0.200	mg/L	1	01/10/22 16:49	SM 4500-NorgD	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22A0275		
Total Kjeldahl Nitrogen (TKN)	0.517	0.100	0.200	mg/L	1	01/10/22 16:50	SM 4500-NorgD	

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ANALYTICAL SAMPLE RESULTS

Total Nitrogen by Calculation

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.62	---	0.500	mg/L	1	01/05/22 17:35	SM 4500-NorgD	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	13.2	---	1.50	mg/L	5	01/05/22 20:27	SM 4500-NorgD	
Colver Rd, OF (A2A0212-03)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	2.83	---	0.500	mg/L	1	01/05/22 17:13	SM 4500-NorgD	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	0.883	---	0.500	mg/L	1	01/05/22 17:57	SM 4500-NorgD	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	0.648	---	0.500	mg/L	1	01/05/22 18:18	SM 4500-NorgD	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0174		
Total Organic Carbon	3.82	1.00	1.00	mg/L	1	01/06/22 20:10	SM 5310 C	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0174		
Total Organic Carbon	3.11	1.00	1.00	mg/L	1	01/06/22 21:45	SM 5310 C	
Colver Rd, OF (A2A0212-03)				Matrix: Water		Batch: 22A0174		
Total Organic Carbon	4.18	1.00	1.00	mg/L	1	01/06/22 23:17	SM 5310 C	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22A0174		
Total Organic Carbon	4.73	1.00	1.00	mg/L	1	01/06/22 23:49	SM 5310 C	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22A0174		
Total Organic Carbon	6.26	1.00	1.00	mg/L	1	01/07/22 00:22	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0222		
Phosphorus	0.167	0.0500	0.100	mg/L	1	01/07/22 16:14	SM 4500-P E	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0222		
Phosphorus	0.0648	0.0500	0.100	mg/L	1	01/07/22 16:14	SM 4500-P E	J
Colver Rd, OF (A2A0212-03)				Matrix: Water		Batch: 22A0222		
Phosphorus	0.0886	0.0500	0.100	mg/L	1	01/07/22 16:15	SM 4500-P E	J
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22A0222		
Phosphorus	0.449	0.0500	0.100	mg/L	1	01/07/22 16:15	SM 4500-P E	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22A0222		
Phosphorus	0.128	0.0500	0.100	mg/L	1	01/07/22 16:15	SM 4500-P E	

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2A0212-01)				Matrix: Water		Batch: 22A0221		
Total Suspended Solids	64.4	---	1.01	mg/L	1	01/07/22 18:56	D3977-97 (07)	
North Ridge Terrace (NRT), OF (A2A0212-02)				Matrix: Water		Batch: 22A0221		
Total Suspended Solids	17.4	---	1.01	mg/L	1	01/07/22 18:56	D3977-97 (07)	
Colver Rd, OF (A2A0212-03)				Matrix: Water		Batch: 22A0221		
Total Suspended Solids	12.4	---	1.03	mg/L	1	01/07/22 18:56	D3977-97 (07)	
Bear CK US Cellular (A2A0212-04)				Matrix: Water		Batch: 22A0221		
Total Suspended Solids	191	---	1.02	mg/L	1	01/07/22 18:56	D3977-97 (07)	
Bear CK Oak St. (A2A0212-05)				Matrix: Water		Batch: 22A0221		
Total Suspended Solids	19.9	---	1.04	mg/L	1	01/07/22 18:56	D3977-97 (07)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0433 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (22A0433-BLK1)			Prepared: 01/13/22 07:27 Analyzed: 01/13/22 20:43									
NWTPH-Dx LL												
Diesel	ND	36.4	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	72.7	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
LCS (22A0433-BS1)			Prepared: 01/13/22 07:27 Analyzed: 01/13/22 21:03									
NWTPH-Dx LL												
Diesel	413	40.0	80.0	ug/L	1	500	---	83	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (22A0433-BSD1)			Prepared: 01/13/22 07:27 Analyzed: 01/13/22 21:24									
NWTPH-Dx LL												
Diesel	422	40.0	80.0	ug/L	1	500	---	84	36-132%	2	30%	
Surr: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0875 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column						Water						
Blank (22A0875-BLK1)			Prepared: 01/13/22 07:27 Analyzed: 01/25/22 21:18									
<u>NWTPH-Dx/SGC</u>												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %		Dilution: 1x						
LCS (22A0875-BS1)			Prepared: 01/13/22 07:27 Analyzed: 01/25/22 21:38									
<u>NWTPH-Dx/SGC</u>												
Diesel	367	---	80.0	ug/L	1	500	---	73	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (22A0875-BSD1)			Prepared: 01/13/22 07:27 Analyzed: 01/25/22 21:58									
<u>NWTPH-Dx/SGC</u>												
Diesel	373	---	80.0	ug/L	1	500	---	75	36-132%	1	30%	
Surr: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0088 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column							Water					
Blank (22B0088-BLK1)			Prepared: 01/13/22 07:27 Analyzed: 02/02/22 21:39									
<u>NWTPH-Dx/SGC</u>												
Diesel	ND	---	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
LCS (22B0088-BS1)			Prepared: 01/13/22 07:27 Analyzed: 02/02/22 21:59									
<u>NWTPH-Dx/SGC</u>												
Diesel	487	---	80.0	ug/L	1	500	---	97	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 105 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (22B0088-BSD1)			Prepared: 01/13/22 07:27 Analyzed: 02/02/22 22:19									
<u>NWTPH-Dx/SGC</u>												
Diesel	473	---	80.0	ug/L	1	500	---	95	36-132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22A0259-BLK1)			Prepared: 01/10/22 07:28		Analyzed: 01/10/22 20:44							
EPA 8270E												
Acenaphthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	0.0127	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	B-02, J
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22A0259-BLK1)			Prepared: 01/10/22 07:28		Analyzed: 01/10/22 20:44							
2,3,5,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	0.0296	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	B-02, J
2,2'-Oxybis(1-Chloropropane)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.25	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22A0259-BLK1)			Prepared: 01/10/22 07:28		Analyzed: 01/10/22 20:44							
Azobenzene (1,2-DPH)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			Recovery: 84 %		Limits: 44-120 %		Dilution: 1x					
2-Fluorobiphenyl (Surr)			79 %		44-120 %		"					
Phenol-d6 (Surr)			33 %		10-133 %		"					
p-Terphenyl-d14 (Surr)			88 %		50-134 %		"					
2-Fluorophenol (Surr)			44 %		19-120 %		"					
2,4,6-Tribromophenol (Surr)			82 %		43-140 %		"					
LCS (22A0259-BS1)			Prepared: 01/10/22 07:28		Analyzed: 01/10/22 21:18							
EPA 8270E												
Acenaphthene	3.13	0.0400	0.0800	ug/L	4	4.00	---	78	47-122%	---	---	Q-41
Acenaphthylene	3.47	0.0400	0.0800	ug/L	4	4.00	---	87	41-130%	---	---	
Anthracene	3.54	0.0400	0.0800	ug/L	4	4.00	---	88	57-123%	---	---	
Benz(a)anthracene	3.52	0.0400	0.0800	ug/L	4	4.00	---	88	58-125%	---	---	
Benzo(a)pyrene	3.66	0.0600	0.120	ug/L	4	4.00	---	92	54-128%	---	---	
Benzo(b)fluoranthene	3.62	0.0600	0.120	ug/L	4	4.00	---	91	53-131%	---	---	
Benzo(k)fluoranthene	3.86	0.0600	0.120	ug/L	4	4.00	---	96	57-129%	---	---	
Benzo(g,h,i)perylene	3.44	0.0400	0.0800	ug/L	4	4.00	---	86	50-134%	---	---	
Chrysene	3.39	0.0400	0.0800	ug/L	4	4.00	---	85	59-123%	---	---	
Dibenz(a,h)anthracene	3.41	0.0400	0.0800	ug/L	4	4.00	---	85	51-134%	---	---	
Fluoranthene	3.68	0.0400	0.0800	ug/L	4	4.00	---	92	57-128%	---	---	
Fluorene	3.55	0.0400	0.0800	ug/L	4	4.00	---	89	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.08	0.0400	0.0800	ug/L	4	4.00	---	77	52-134%	---	---	
1-Methylnaphthalene	3.05	0.0800	0.160	ug/L	4	4.00	---	76	41-120%	---	---	
2-Methylnaphthalene	3.03	0.0800	0.160	ug/L	4	4.00	---	76	40-121%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22A0259-BS1)						Prepared: 01/10/22 07:28 Analyzed: 01/10/22 21:18						
Naphthalene	2.80	0.0800	0.160	ug/L	4	4.00	---	70	40-121%	---	---	
Phenanthrene	3.35	0.0400	0.0800	ug/L	4	4.00	---	84	59-120%	---	---	B-02
Pyrene	3.62	0.0400	0.0800	ug/L	4	4.00	---	91	57-126%	---	---	
Carbazole	4.14	0.0600	0.120	ug/L	4	4.00	---	103	60-122%	---	---	
Dibenzofuran	3.67	0.0400	0.0800	ug/L	4	4.00	---	92	53-120%	---	---	
2-Chlorophenol	3.31	0.200	0.400	ug/L	4	4.00	---	83	38-120%	---	---	
4-Chloro-3-methylphenol	4.49	0.400	0.800	ug/L	4	4.00	---	112	52-120%	---	---	Q-41
2,4-Dichlorophenol	4.15	0.200	0.400	ug/L	4	4.00	---	104	47-121%	---	---	Q-41
2,4-Dimethylphenol	3.38	0.200	0.400	ug/L	4	4.00	---	84	31-124%	---	---	
2,4-Dinitrophenol	6.09	1.00	2.00	ug/L	4	4.00	---	152	23-143%	---	---	Q-29
4,6-Dinitro-2-methylphenol	5.57	1.00	2.00	ug/L	4	4.00	---	139	44-137%	---	---	Q-29
2-Methylphenol	3.26	0.100	0.200	ug/L	4	4.00	---	82	30-120%	---	---	Q-41
3+4-Methylphenol(s)	3.36	0.100	0.200	ug/L	4	4.00	---	84	29-120%	---	---	Q-41
2-Nitrophenol	4.28	0.400	0.800	ug/L	4	4.00	---	107	47-123%	---	---	Q-41
4-Nitrophenol	2.23	0.400	0.800	ug/L	4	4.00	---	56	10-120%	---	---	
Pentachlorophenol (PCP)	4.03	0.400	0.800	ug/L	4	4.00	---	101	35-138%	---	---	
Phenol	1.49	0.800	0.800	ug/L	4	4.00	---	37	10-120%	---	---	Q-41
2,3,4,6-Tetrachlorophenol	3.83	0.200	0.400	ug/L	4	4.00	---	96	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	4.33	0.200	0.400	ug/L	4	4.00	---	108	50-121%	---	---	
2,4,5-Trichlorophenol	4.61	0.200	0.400	ug/L	4	4.00	---	115	53-123%	---	---	Q-41
2,4,6-Trichlorophenol	4.14	0.200	0.400	ug/L	4	4.00	---	103	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.53	0.800	1.60	ug/L	4	4.00	---	88	55-135%	---	---	
Butyl benzyl phthalate	3.68	0.800	1.60	ug/L	4	4.00	---	92	53-134%	---	---	
Diethylphthalate	3.56	0.800	1.60	ug/L	4	4.00	---	89	56-125%	---	---	
Dimethylphthalate	3.68	0.800	1.60	ug/L	4	4.00	---	92	45-127%	---	---	
Di-n-butylphthalate	3.93	0.800	1.60	ug/L	4	4.00	---	98	59-127%	---	---	
Di-n-octyl phthalate	3.71	0.800	1.60	ug/L	4	4.00	---	93	51-140%	---	---	
N-Nitrosodimethylamine	1.86	0.100	0.200	ug/L	4	4.00	---	47	10-120%	---	---	
N-Nitroso-di-n-propylamine	3.84	0.100	0.200	ug/L	4	4.00	---	96	49-120%	---	---	
N-Nitrosodiphenylamine	3.69	0.100	0.200	ug/L	4	4.00	---	92	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.54	0.100	0.200	ug/L	4	4.00	---	88	48-120%	---	---	
Bis(2-Chloroethyl) ether	3.19	0.100	0.200	ug/L	4	4.00	---	80	43-120%	---	---	B-02
2,2'-Oxybis(1-Chloropropane)	3.14	0.100	0.200	ug/L	4	4.00	---	78	37-130%	---	---	
Hexachlorobenzene	3.13	0.0400	0.0800	ug/L	4	4.00	---	78	53-125%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22A0259-BS1)			Prepared: 01/10/22 07:28		Analyzed: 01/10/22 21:18							
Hexachlorobutadiene	2.09	0.100	0.200	ug/L	4	4.00	---	52	22-124%	---	---	
Hexachlorocyclopentadiene	2.56	0.200	0.400	ug/L	4	4.00	---	64	10-127%	---	---	
Hexachloroethane	2.15	0.100	0.200	ug/L	4	4.00	---	54	21-120%	---	---	
2-Chloronaphthalene	3.36	0.0400	0.0800	ug/L	4	4.00	---	84	40-120%	---	---	
1,2,4-Trichlorobenzene	2.39	0.100	0.200	ug/L	4	4.00	---	60	29-120%	---	---	
4-Bromophenyl phenyl ether	3.49	0.100	0.200	ug/L	4	4.00	---	87	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.58	0.100	0.200	ug/L	4	4.00	---	89	53-121%	---	---	
Aniline	2.24	0.200	0.400	ug/L	4	4.00	---	56	10-120%	---	---	
4-Chloroaniline	3.82	0.100	0.200	ug/L	4	4.00	---	95	33-120%	---	---	
2-Nitroaniline	4.88	0.800	1.60	ug/L	4	4.00	---	122	55-127%	---	---	Q-41
3-Nitroaniline	4.27	0.800	1.60	ug/L	4	4.00	---	107	41-128%	---	---	
4-Nitroaniline	4.30	0.800	1.60	ug/L	4	4.00	---	107	54-128%	---	---	
Nitrobenzene	3.72	0.400	0.800	ug/L	4	4.00	---	93	45-121%	---	---	
2,4-Dinitrotoluene	4.20	0.400	0.800	ug/L	4	4.00	---	105	57-128%	---	---	
2,6-Dinitrotoluene	3.94	0.400	0.800	ug/L	4	4.00	---	98	57-124%	---	---	
Benzoic acid	5.56	5.00	5.00	ug/L	4	8.00	---	70	10-120%	---	---	Q-31
Benzyl alcohol	3.62	0.400	0.800	ug/L	4	4.00	---	90	31-120%	---	---	Q-41
Isophorone	3.64	0.100	0.200	ug/L	4	4.00	---	91	42-124%	---	---	
Azobenzene (1,2-DPH)	3.35	0.100	0.200	ug/L	4	4.00	---	84	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	3.53	1.00	2.00	ug/L	4	4.00	---	88	57-136%	---	---	
3,3'-Dichlorobenzidine	5.03	2.00	4.00	ug/L	4	8.00	---	63	27-129%	---	---	Q-31
1,2-Dinitrobenzene	4.07	1.00	2.00	ug/L	4	4.00	---	102	59-120%	---	---	
1,3-Dinitrobenzene	4.65	1.00	2.00	ug/L	4	4.00	---	116	49-128%	---	---	Q-41
1,4-Dinitrobenzene	5.41	1.00	2.00	ug/L	4	4.00	---	135	72-130%	---	---	Q-29, Q-41
Pyridine	1.29	0.400	0.800	ug/L	4	4.00	---	32	10-120%	---	---	
1,2-Dichlorobenzene	2.36	0.100	0.200	ug/L	4	4.00	---	59	32-120%	---	---	
1,3-Dichlorobenzene	2.23	0.100	0.200	ug/L	4	4.00	---	56	28-120%	---	---	
1,4-Dichlorobenzene	2.28	0.100	0.200	ug/L	4	4.00	---	57	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 100 %		Limits: 44-120 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		85 %		44-120 %		"						
Phenol-d6 (Surr)		33 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		92 %		50-134 %		"						
2-Fluorophenol (Surr)		42 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		96 %		43-140 %		"						

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22A0259-BSD1)			Prepared: 01/10/22 07:28 Analyzed: 01/10/22 21:52					Q-19				
EPA 8270E												
Acenaphthene	3.25	0.0400	0.0800	ug/L	4	4.00	---	81	47-122%	4	30%	
Acenaphthylene	3.59	0.0400	0.0800	ug/L	4	4.00	---	90	41-130%	3	30%	
Anthracene	3.64	0.0400	0.0800	ug/L	4	4.00	---	91	57-123%	3	30%	
Benz(a)anthracene	3.76	0.0400	0.0800	ug/L	4	4.00	---	94	58-125%	7	30%	
Benzo(a)pyrene	3.83	0.0600	0.120	ug/L	4	4.00	---	96	54-128%	5	30%	
Benzo(b)fluoranthene	3.86	0.0600	0.120	ug/L	4	4.00	---	96	53-131%	6	30%	
Benzo(k)fluoranthene	3.99	0.0600	0.120	ug/L	4	4.00	---	100	57-129%	4	30%	
Benzo(g,h,i)perylene	3.72	0.0400	0.0800	ug/L	4	4.00	---	93	50-134%	8	30%	
Chrysene	3.58	0.0400	0.0800	ug/L	4	4.00	---	90	59-123%	6	30%	
Dibenz(a,h)anthracene	3.62	0.0400	0.0800	ug/L	4	4.00	---	91	51-134%	6	30%	
Fluoranthene	3.63	0.0400	0.0800	ug/L	4	4.00	---	91	57-128%	1	30%	
Fluorene	3.58	0.0400	0.0800	ug/L	4	4.00	---	89	52-124%	0.8	30%	
Indeno(1,2,3-cd)pyrene	3.26	0.0400	0.0800	ug/L	4	4.00	---	82	52-134%	6	30%	
1-Methylnaphthalene	3.22	0.0800	0.160	ug/L	4	4.00	---	81	41-120%	5	30%	
2-Methylnaphthalene	3.18	0.0800	0.160	ug/L	4	4.00	---	79	40-121%	5	30%	
Naphthalene	2.99	0.0800	0.160	ug/L	4	4.00	---	75	40-121%	6	30%	
Phenanthrene	3.53	0.0400	0.0800	ug/L	4	4.00	---	88	59-120%	5	30%	B-02
Pyrene	3.56	0.0400	0.0800	ug/L	4	4.00	---	89	57-126%	2	30%	
Carbazole	4.02	0.0600	0.120	ug/L	4	4.00	---	101	60-122%	3	30%	
Dibenzofuran	3.63	0.0400	0.0800	ug/L	4	4.00	---	91	53-120%	1	30%	
2-Chlorophenol	3.41	0.200	0.400	ug/L	4	4.00	---	85	38-120%	3	30%	
4-Chloro-3-methylphenol	4.46	0.400	0.800	ug/L	4	4.00	---	112	52-120%	0.5	30%	Q-41
2,4-Dichlorophenol	4.18	0.200	0.400	ug/L	4	4.00	---	104	47-121%	0.8	30%	Q-41
2,4-Dimethylphenol	3.69	0.200	0.400	ug/L	4	4.00	---	92	31-124%	9	30%	
2,4-Dinitrophenol	4.79	1.00	2.00	ug/L	4	4.00	---	120	23-143%	24	30%	
4,6-Dinitro-2-methylphenol	4.64	1.00	2.00	ug/L	4	4.00	---	116	44-137%	18	30%	
2-Methylphenol	3.36	0.100	0.200	ug/L	4	4.00	---	84	30-120%	3	30%	Q-41
3+4-Methylphenol(s)	3.35	0.100	0.200	ug/L	4	4.00	---	84	29-120%	0.3	30%	Q-41
2-Nitrophenol	4.30	0.400	0.800	ug/L	4	4.00	---	107	47-123%	0.3	30%	Q-41
4-Nitrophenol	2.11	0.400	0.800	ug/L	4	4.00	---	53	10-120%	6	30%	
Pentachlorophenol (PCP)	3.75	0.400	0.800	ug/L	4	4.00	---	94	35-138%	7	30%	
Phenol	1.57	0.800	0.800	ug/L	4	4.00	---	39	10-120%	5	30%	Q-41
2,3,4,6-Tetrachlorophenol	3.65	0.200	0.400	ug/L	4	4.00	---	91	50-128%	5	30%	

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ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22A0259-BSD1)						Prepared: 01/10/22 07:28 Analyzed: 01/10/22 21:52						Q-19
2,3,5,6-Tetrachlorophenol	4.08	0.200	0.400	ug/L	4	4.00	---	102	50-121%	6	30%	
2,4,5-Trichlorophenol	4.50	0.200	0.400	ug/L	4	4.00	---	113	53-123%	2	30%	Q-41
2,4,6-Trichlorophenol	4.05	0.200	0.400	ug/L	4	4.00	---	101	50-125%	2	30%	
Bis(2-ethylhexyl)phthalate	3.75	0.800	1.60	ug/L	4	4.00	---	94	55-135%	6	30%	
Butyl benzyl phthalate	4.06	0.800	1.60	ug/L	4	4.00	---	102	53-134%	10	30%	
Diethylphthalate	3.72	0.800	1.60	ug/L	4	4.00	---	93	56-125%	4	30%	
Dimethylphthalate	3.86	0.800	1.60	ug/L	4	4.00	---	97	45-127%	5	30%	
Di-n-butylphthalate	4.14	0.800	1.60	ug/L	4	4.00	---	104	59-127%	5	30%	
Di-n-octyl phthalate	4.01	0.800	1.60	ug/L	4	4.00	---	100	51-140%	8	30%	
N-Nitrosodimethylamine	2.03	0.100	0.200	ug/L	4	4.00	---	51	10-120%	9	30%	
N-Nitroso-di-n-propylamine	3.72	0.100	0.200	ug/L	4	4.00	---	93	49-120%	3	30%	
N-Nitrosodiphenylamine	3.89	0.100	0.200	ug/L	4	4.00	---	97	51-123%	5	30%	
Bis(2-Chloroethoxy) methane	3.65	0.100	0.200	ug/L	4	4.00	---	91	48-120%	3	30%	
Bis(2-Chloroethyl) ether	3.29	0.100	0.200	ug/L	4	4.00	---	82	43-120%	3	30%	B-02
2,2'-Oxybis(1-Chloropropane)	3.24	0.100	0.200	ug/L	4	4.00	---	81	37-130%	3	30%	
Hexachlorobenzene	3.47	0.0400	0.0800	ug/L	4	4.00	---	87	53-125%	10	30%	
Hexachlorobutadiene	2.48	0.100	0.200	ug/L	4	4.00	---	62	22-124%	17	30%	
Hexachlorocyclopentadiene	2.47	0.200	0.400	ug/L	4	4.00	---	62	10-127%	3	30%	
Hexachloroethane	2.55	0.100	0.200	ug/L	4	4.00	---	64	21-120%	17	30%	
2-Chloronaphthalene	3.48	0.0400	0.0800	ug/L	4	4.00	---	87	40-120%	3	30%	
1,2,4-Trichlorobenzene	2.76	0.100	0.200	ug/L	4	4.00	---	69	29-120%	14	30%	
4-Bromophenyl phenyl ether	3.78	0.100	0.200	ug/L	4	4.00	---	94	55-124%	8	30%	
4-Chlorophenyl phenyl ether	3.61	0.100	0.200	ug/L	4	4.00	---	90	53-121%	1	30%	
Aniline	1.93	0.200	0.400	ug/L	4	4.00	---	48	10-120%	15	30%	
4-Chloroaniline	3.29	0.100	0.200	ug/L	4	4.00	---	82	33-120%	15	30%	
2-Nitroaniline	4.59	0.800	1.60	ug/L	4	4.00	---	115	55-127%	6	30%	Q-41
3-Nitroaniline	3.91	0.800	1.60	ug/L	4	4.00	---	98	41-128%	9	30%	
4-Nitroaniline	3.92	0.800	1.60	ug/L	4	4.00	---	98	54-128%	9	30%	
Nitrobenzene	3.59	0.400	0.800	ug/L	4	4.00	---	90	45-121%	4	30%	
2,4-Dinitrotoluene	4.07	0.400	0.800	ug/L	4	4.00	---	102	57-128%	3	30%	
2,6-Dinitrotoluene	3.97	0.400	0.800	ug/L	4	4.00	---	99	57-124%	0.8	30%	
Benzoic acid	5.32	5.00	5.00	ug/L	4	8.00	---	66	10-120%	4	30%	Q-31
Benzyl alcohol	3.56	0.400	0.800	ug/L	4	4.00	---	89	31-120%	2	30%	Q-41
Isophorone	3.80	0.100	0.200	ug/L	4	4.00	---	95	42-124%	5	30%	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0259 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22A0259-BSD1)					Prepared: 01/10/22 07:28 Analyzed: 01/10/22 21:52						Q-19	
Azobenzene (1,2-DPH)	3.58	0.100	0.200	ug/L	4	4.00	---	90	61-120%	7	30%	
Bis(2-Ethylhexyl) adipate	4.02	1.00	2.00	ug/L	4	4.00	---	100	57-136%	13	30%	
3,3'-Dichlorobenzidine	4.58	2.00	4.00	ug/L	4	8.00	---	57	27-129%	9	30%	Q-31
1,2-Dinitrobenzene	4.00	1.00	2.00	ug/L	4	4.00	---	100	59-120%	2	30%	
1,3-Dinitrobenzene	4.49	1.00	2.00	ug/L	4	4.00	---	112	49-128%	3	30%	Q-41
1,4-Dinitrobenzene	5.21	1.00	2.00	ug/L	4	4.00	---	130	72-130%	4	30%	Q-41
Pyridine	1.25	0.400	0.800	ug/L	4	4.00	---	31	10-120%	3	30%	
1,2-Dichlorobenzene	2.59	0.100	0.200	ug/L	4	4.00	---	65	32-120%	10	30%	
1,3-Dichlorobenzene	2.54	0.100	0.200	ug/L	4	4.00	---	64	28-120%	13	30%	
1,4-Dichlorobenzene	2.58	0.100	0.200	ug/L	4	4.00	---	64	29-120%	12	30%	
Surr: Nitrobenzene-d5 (Surr)												
		Recovery: 94 %		Limits: 44-120 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		87 %		44-120 %		"						
Phenol-d6 (Surr)		34 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		102 %		50-134 %		"						
2-Fluorophenol (Surr)		48 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		96 %		43-140 %		"						

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0505 - EPA 3015A						Water						
Blank (22A0505-BLK1)			Prepared: 01/14/22 10:21		Analyzed: 01/14/22 20:31							
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
Blank (22A0505-BLK2)			Prepared: 01/14/22 10:21		Analyzed: 01/15/22 13:26							
EPA 200.8												
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22A0505-BS1)			Prepared: 01/14/22 10:21		Analyzed: 01/14/22 20:36							
EPA 200.8												
Aluminum	2810	25.0	50.0	ug/L	1	2780	---	101	85-115%	---	---	
Antimony	27.6	0.500	1.00	ug/L	1	27.8	---	100	85-115%	---	---	
Arsenic	55.0	0.500	1.00	ug/L	1	55.6	---	99	85-115%	---	---	
Beryllium	26.0	0.100	0.200	ug/L	1	27.8	---	94	85-115%	---	---	B-02
Cadmium	54.0	0.100	0.200	ug/L	1	55.6	---	97	85-115%	---	---	
Calcium	2780	375	600	ug/L	1	2780	---	100	85-115%	---	---	
Chromium	55.0	1.00	2.00	ug/L	1	55.6	---	99	85-115%	---	---	
Copper	57.4	1.00	2.00	ug/L	1	55.6	---	103	85-115%	---	---	
Iron	2770	25.0	50.0	ug/L	1	2780	---	100	85-115%	---	---	
Lead	54.1	0.100	0.200	ug/L	1	55.6	---	97	85-115%	---	---	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0505 - EPA 3015A						Water						
LCS (22A0505-BS1)			Prepared: 01/14/22 10:21		Analyzed: 01/14/22 20:36							
Magnesium	2840	75.0	150	ug/L	1	2780	---	102	85-115%	---	---	Q-41
Mercury	1.01	0.0400	0.0800	ug/L	1	1.11	---	91	85-115%	---	---	
Nickel	56.2	1.00	2.00	ug/L	1	55.6	---	101	85-115%	---	---	
Silver	28.5	0.100	0.200	ug/L	1	27.8	---	103	85-115%	---	---	
Thallium	28.9	0.100	0.200	ug/L	1	27.8	---	104	85-115%	---	---	
Zinc	57.4	2.00	4.00	ug/L	1	55.6	---	103	85-115%	---	---	
LCS (22A0505-BS2)			Prepared: 01/14/22 10:21		Analyzed: 01/15/22 13:30							
<u>EPA 200.8</u>												
Selenium	28.2	0.500	1.00	ug/L	1	27.8	---	102	85-115%	---	---	Q-16
Duplicate (22A0505-DUP1)			Prepared: 01/14/22 10:21		Analyzed: 01/14/22 21:14							
<u>QC Source Sample: Non-SDG (A2A0192-03)</u>												
Aluminum	ND	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	B-02
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Calcium	6050	375	600	ug/L	1	---	6100	---	---	0.7	20%	J
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	1.23	1.00	2.00	ug/L	1	---	1.28	---	---	4	20%	
Iron	334	25.0	50.0	ug/L	1	---	335	---	---	0.3	20%	
Lead	1.88	0.100	0.200	ug/L	1	---	1.92	---	---	2	20%	
Magnesium	1650	75.0	150	ug/L	1	---	1690	---	---	3	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	ND	1.00	2.00	ug/L	1	---	1.35	---	---	***	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Zinc	741	2.00	4.00	ug/L	1	---	749	---	---	1	20%	
Duplicate (22A0505-DUP2)			Prepared: 01/14/22 10:21		Analyzed: 01/15/22 13:59							
<u>QC Source Sample: Non-SDG (A2A0192-03RE1)</u>												
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	Q-16

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0505 - EPA 3015A						Water						
Matrix Spike (22A0505-MS1)			Prepared: 01/14/22 10:21 Analyzed: 01/14/22 21:19									
QC Source Sample: Non-SDG (A2A0192-03)												
EPA 200.8												
Aluminum	2510			ug/L	1	2500	ND	100	70-130%	---	---	B-02
Antimony	24.3			ug/L	1	25.0	ND	97	70-130%	---	---	
Arsenic	49.2			ug/L	1	50.0	ND	98	70-130%	---	---	
Beryllium	23.1			ug/L	1	25.0	ND	92	70-130%	---	---	
Cadmium	48.5			ug/L	1	50.0	ND	97	70-130%	---	---	
Calcium	7980			ug/L	1	2500	5490	100	70-130%	---	---	
Chromium	49.2			ug/L	1	50.0	ND	98	70-130%	---	---	
Copper	51.9			ug/L	1	50.0	1.15	101	70-130%	---	---	
Iron	2810			ug/L	1	2500	301	100	70-130%	---	---	
Lead	49.3			ug/L	1	50.0	1.73	95	70-130%	---	---	
Magnesium	4070			ug/L	1	2500	1520	102	70-130%	---	---	
Mercury	1.03	0.0400	0.0800	ug/L	1	1.11	ND	93	70-130%	---	---	
Nickel	50.1			ug/L	1	50.0	1.22	98	70-130%	---	---	
Silver	25.5			ug/L	1	25.0	ND	102	70-130%	---	---	Q-41
Thallium	25.4			ug/L	1	25.0	ND	102	70-130%	---	---	
Zinc	728			ug/L	1	50.0	674	108	70-130%	---	---	

Matrix Spike (22A0505-MS2)

Prepared: 01/14/22 10:21 Analyzed: 01/14/22 21:28

QC Source Sample: Non-SDG (A2A0203-01)

EPA 200.8												
Aluminum	2560			ug/L	1	2500	145	97	70-130%	---	---	
Antimony	30.2			ug/L	1	25.0	4.24	104	70-130%	---	---	
Arsenic	50.5			ug/L	1	50.0	0.565	100	70-130%	---	---	
Beryllium	23.5			ug/L	1	25.0	ND	94	70-130%	---	---	B-02
Cadmium	49.6			ug/L	1	50.0	0.719	98	70-130%	---	---	
Chromium	48.9			ug/L	1	50.0	1.69	94	70-130%	---	---	
Copper	74.0			ug/L	1	50.0	26.4	95	70-130%	---	---	
Iron	3350			ug/L	1	2500	1000	94	70-130%	---	---	
Lead	69.7			ug/L	1	50.0	22.8	94	70-130%	---	---	
Magnesium	8080			ug/L	1	2500	5800	91	70-130%	---	---	
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	ND	97	70-130%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0505 - EPA 3015A						Water						
Matrix Spike (22A0505-MS2)			Prepared: 01/14/22 10:21 Analyzed: 01/14/22 21:28									
QC Source Sample: Non-SDG (A2A0203-01)												
Nickel	53.8			ug/L	1	50.0	6.17	95	70-130%	---	---	Q-41
Silver	25.2			ug/L	1	25.0	ND	101	70-130%	---	---	
Thallium	25.0			ug/L	1	25.0	ND	100	70-130%	---	---	
Zinc	315			ug/L	1	50.0	274	83	70-130%	---	---	
Matrix Spike (22A0505-MS3)			Prepared: 01/14/22 10:21 Analyzed: 01/15/22 14:04									
QC Source Sample: Non-SDG (A2A0192-03RE1)												
EPA 200.8												
Selenium	25.4			ug/L	1	25.0	ND	102	70-130%	---	---	Q-16
Matrix Spike (22A0505-MS4)			Prepared: 01/14/22 10:21 Analyzed: 01/15/22 13:21									
QC Source Sample: Non-SDG (A2A0203-01RE1)												
EPA 200.8												
Calcium	60700			ug/L	10	2500	60000	30	70-130%	---	---	Q-03, Q-16
Matrix Spike (22A0505-MS5)			Prepared: 01/14/22 10:21 Analyzed: 01/15/22 14:13									
QC Source Sample: Non-SDG (A2A0203-01RE2)												
EPA 200.8												
Selenium	26.6			ug/L	1	25.0	ND	106	70-130%	---	---	Q-16

Apex Laboratories

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ANALYTICAL REPORT

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0100 - Method Prep: Aq						Water						
Blank (22A0100-BLK1)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 11:21							
EPA 300.0												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
LCS (22A0100-BS1)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 11:43							
EPA 300.0												
Nitrate-Nitrogen	1.91	0.125	0.250	mg/L	1	2.00	---	96	90-110%	---	---	
Nitrite-Nitrogen	2.00	0.125	0.250	mg/L	1	2.00	---	100	90-110%	---	---	
Duplicate (22A0100-DUP1)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 14:35							
QC Source Sample: Non-SDG (A2A0181-05)												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	5%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Duplicate (22A0100-DUP2)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 18:40							
QC Source Sample: Bear CK Oak St. (A2A0212-05)												
EPA 300.0												
Nitrate-Nitrogen	0.648	0.125	0.250	mg/L	1	---	0.648	---	---	0.02	5%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (22A0100-MS1)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 15:40							
QC Source Sample: Non-SDG (A2A0181-05)												
EPA 300.0												
Nitrate-Nitrogen	1.89			ug/mL	1	2.00	ND	93	86-118%	---	---	
Nitrite-Nitrogen	1.99			ug/mL	1	2.00	ND	99	82-117%	---	---	
Matrix Spike (22A0100-MS2)			Prepared: 01/05/22 09:05		Analyzed: 01/05/22 19:01							
QC Source Sample: Bear CK Oak St. (A2A0212-05)												
EPA 300.0												
Nitrate-Nitrogen	2.41			ug/mL	1	2.00	0.518	95	86-118%	---	---	
Nitrite-Nitrogen	1.97			ug/mL	1	2.00	ND	98	82-117%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0275 - TKN block digestion						Water						
Blank (22A0275-BLK1)			Prepared: 01/10/22 09:20 Analyzed: 01/10/22 16:22									
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---	
LCS (22A0275-BS1)			Prepared: 01/10/22 09:20 Analyzed: 01/10/22 16:23									
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	5.33	0.100	0.200	mg/L	1	5.00	---	107	90-110%	---	---	
Matrix Spike (22A0275-MS1)			Prepared: 01/10/22 09:20 Analyzed: 01/10/22 16:34									
<u>QC Source Sample: Non-SDG (A2A0206-02)</u>												
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	12.0			ug/mL	1	5.00	7.16	97	90-110%	---	---	E
Matrix Spike Dup (22A0275-MSD1)			Prepared: 01/10/22 09:20 Analyzed: 01/10/22 16:35									
<u>QC Source Sample: Non-SDG (A2A0206-02)</u>												
Total Kjeldahl Nitrogen (TKN)	12.3			ug/mL	1	5.00	7.16	103	90-110%	3	10%	E

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0174 - Method Prep: Aq						Water						
Blank (22A0174-BLK1)			Prepared: 01/06/22 12:47 Analyzed: 01/06/22 17:37									
SM 5310 C												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22A0174-BS1)			Prepared: 01/06/22 12:47 Analyzed: 01/06/22 18:36									
SM 5310 C												
Total Organic Carbon	10.6	1.00	1.00	mg/L	1	10.0	---	106	90-114%	---	---	
Duplicate (22A0174-DUP1)			Prepared: 01/06/22 12:47 Analyzed: 01/06/22 20:43									
QC Source Sample: West Valley View (WVV), OF (A2A0212-01)												
SM 5310 C												
Total Organic Carbon	3.81	1.00	1.00	mg/L	1	---	3.82	---	---	0.2	10%	
Matrix Spike (22A0174-MS1)			Prepared: 01/06/22 12:47 Analyzed: 01/06/22 21:13									
QC Source Sample: West Valley View (WVV), OF (A2A0212-01)												
SM 5310 C												
Total Organic Carbon	13.5			mg/L	1	9.90	3.78	98	90-114%	---	---	

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0222 - Persulfate Digestion						Water						
Blank (22A0222-BLK1)			Prepared: 01/07/22 11:49 Analyzed: 01/07/22 16:13									
<u>SM 4500-P.E</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (22A0222-BS1)			Prepared: 01/07/22 11:49 Analyzed: 01/07/22 16:14									
<u>SM 4500-P.E</u>												
Phosphorus	0.530	0.0500	0.100	mg/L	1	0.522	---	102	85-115%	---	---	
Matrix Spike (22A0222-MS1)			Prepared: 01/07/22 11:49 Analyzed: 01/07/22 16:19									
<u>QC Source Sample: Non-SDG (A2A0254-01)</u>												
<u>SM 4500-P.E</u>												
Phosphorus	265			ug/L	1	261	7.33	99	85-115%	---	---	
Matrix Spike Dup (22A0222-MSD1)			Prepared: 01/07/22 11:49 Analyzed: 01/07/22 16:20									
<u>QC Source Sample: Non-SDG (A2A0254-01)</u>												
Phosphorus	265			ug/L	1	261	7.33	99	85-115%	0.09	20%	

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Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22A0221 - Total Suspended Solids						Water						
Blank (22A0221-BLK1)			Prepared: 01/07/22 18:56 Analyzed: 01/07/22 18:56									
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	---	0.667	mg/L	1	---	---	---	---	---	---	
LCS (22A0221-BS1)			Prepared: 01/07/22 18:56 Analyzed: 01/07/22 18:56									
<u>D3977-97 (07)</u>												
Total Suspended Solids	871	---		mg/L	1	812	---	107	85-115%	---	---	Q-19
LCS Dup (22A0221-BSD1)			Prepared: 01/07/22 18:56 Analyzed: 01/07/22 18:56									
<u>D3977-97 (07)</u>												
Total Suspended Solids	831	---		mg/L	1	812	---	102	85-115%	4.70	6%	Q-19

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0433							
A2A0212-01	Water	NWTPH-Dx LL	01/03/22 18:25	01/13/22 11:30	1030mL/2mL	1000mL/2mL	0.97
A2A0212-02	Water	NWTPH-Dx LL	01/03/22 17:10	01/13/22 11:30	1060mL/2mL	1000mL/2mL	0.94
A2A0212-03	Water	NWTPH-Dx LL	01/03/22 17:30	01/13/22 13:15	990mL/2mL	1000mL/2mL	1.01
A2A0212-04	Water	NWTPH-Dx LL	01/03/22 19:10	01/13/22 13:15	1050mL/2mL	1000mL/2mL	0.95
A2A0212-05	Water	NWTPH-Dx LL	01/03/22 20:10	01/13/22 13:15	1050mL/2mL	1000mL/2mL	0.95

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0875							
A2A0212-01	Water	NWTPH-Dx/SGC	01/03/22 18:25	01/13/22 11:30	1030mL/2mL	1000mL/2mL	0.97
A2A0212-02	Water	NWTPH-Dx/SGC	01/03/22 17:10	01/13/22 11:30	1060mL/2mL	1000mL/2mL	0.94
Batch: 22B0088							
A2A0212-04	Water	NWTPH-Dx/SGC	01/03/22 19:10	01/13/22 13:15	1050mL/2mL	1000mL/2mL	0.95
A2A0212-05	Water	NWTPH-Dx/SGC	01/03/22 20:10	01/13/22 13:15	1050mL/2mL	1000mL/2mL	0.95

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0259							
A2A0212-01RE1	Water	EPA 8270E	01/03/22 18:25	01/10/22 07:28	930mL/1mL	1000mL/1mL	1.08
A2A0212-01RE2	Water	EPA 8270E	01/03/22 18:25	01/10/22 07:28	930mL/1mL	1000mL/1mL	1.08
A2A0212-02RE1	Water	EPA 8270E	01/03/22 17:10	01/10/22 07:28	990mL/1mL	1000mL/1mL	1.01
A2A0212-02RE2	Water	EPA 8270E	01/03/22 17:10	01/10/22 07:28	990mL/1mL	1000mL/1mL	1.01
A2A0212-03RE1	Water	EPA 8270E	01/03/22 17:30	01/10/22 07:28	900mL/1mL	1000mL/1mL	1.11
A2A0212-03RE2	Water	EPA 8270E	01/03/22 17:30	01/10/22 07:28	900mL/1mL	1000mL/1mL	1.11
A2A0212-04RE2	Water	EPA 8270E	01/03/22 19:10	01/10/22 07:28	970mL/1mL	1000mL/1mL	1.03
A2A0212-05RE1	Water	EPA 8270E	01/03/22 20:10	01/10/22 07:28	940mL/1mL	1000mL/1mL	1.06

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22A0505							

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2A0212-01	Water	EPA 200.8	01/03/22 18:25	01/14/22 10:21	45mL/50mL	45mL/50mL	1.00
A2A0212-02	Water	EPA 200.8	01/03/22 17:10	01/14/22 10:21	45mL/50mL	45mL/50mL	1.00
A2A0212-03	Water	EPA 200.8	01/03/22 17:30	01/14/22 10:21	45mL/50mL	45mL/50mL	1.00
A2A0212-04	Water	EPA 200.8	01/03/22 19:10	01/14/22 10:21	45mL/50mL	45mL/50mL	1.00
A2A0212-05	Water	EPA 200.8	01/03/22 20:10	01/14/22 10:21	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22A0100</u>							
A2A0212-01	Water	EPA 300.0	01/03/22 18:25	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00
A2A0212-02	Water	EPA 300.0	01/03/22 17:10	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00
A2A0212-02RE2	Water	EPA 300.0	01/03/22 17:10	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00
A2A0212-03	Water	EPA 300.0	01/03/22 17:30	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00
A2A0212-04	Water	EPA 300.0	01/03/22 19:10	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00
A2A0212-05	Water	EPA 300.0	01/03/22 20:10	01/05/22 09:05	5mL/5mL	5mL/5mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Prep: TKN block digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22A0275</u>							
A2A0212-01	Water	SM 4500-NorgD	01/03/22 18:25	01/10/22 09:20	25mL/25mL	25mL/25mL	1.00
A2A0212-02	Water	SM 4500-NorgD	01/03/22 17:10	01/10/22 09:20	25mL/25mL	25mL/25mL	1.00
A2A0212-03	Water	SM 4500-NorgD	01/03/22 17:30	01/10/22 09:20	25mL/25mL	25mL/25mL	1.00
A2A0212-04	Water	SM 4500-NorgD	01/03/22 19:10	01/10/22 09:20	25mL/25mL	25mL/25mL	1.00
A2A0212-05	Water	SM 4500-NorgD	01/03/22 20:10	01/10/22 09:20	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22A0174</u>							
A2A0212-01	Water	SM 5310 C	01/03/22 18:25	01/06/22 12:47	40mL/40mL	40mL/40mL	1.00
A2A0212-02	Water	SM 5310 C	01/03/22 17:10	01/06/22 12:47	40mL/40mL	40mL/40mL	1.00
A2A0212-03	Water	SM 5310 C	01/03/22 17:30	01/06/22 12:47	40mL/40mL	40mL/40mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657**

SAMPLE PREPARATION INFORMATION

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2A0212-04	Water	SM 5310 C	01/03/22 19:10	01/06/22 12:47	40mL/40mL	40mL/40mL	1.00
A2A0212-05	Water	SM 5310 C	01/03/22 20:10	01/06/22 12:47	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Prep: Persulfate Digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22A0222</u>							
A2A0212-01	Water	SM 4500-P E	01/03/22 18:25	01/07/22 11:49	25mL/50mL	25mL/50mL	1.00
A2A0212-02	Water	SM 4500-P E	01/03/22 17:10	01/07/22 11:49	25mL/50mL	25mL/50mL	1.00
A2A0212-03	Water	SM 4500-P E	01/03/22 17:30	01/07/22 11:49	25mL/50mL	25mL/50mL	1.00
A2A0212-04	Water	SM 4500-P E	01/03/22 19:10	01/07/22 11:49	25mL/50mL	25mL/50mL	1.00
A2A0212-05	Water	SM 4500-P E	01/03/22 20:10	01/07/22 11:49	25mL/50mL	25mL/50mL	1.00

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22A0221</u>							
A2A0212-01	Water	D3977-97 (07)	01/03/22 18:25	01/07/22 18:56			NA
A2A0212-02	Water	D3977-97 (07)	01/03/22 17:10	01/07/22 18:56			NA
A2A0212-03	Water	D3977-97 (07)	01/03/22 17:30	01/07/22 18:56			NA
A2A0212-04	Water	D3977-97 (07)	01/03/22 19:10	01/07/22 18:56			NA
A2A0212-05	Water	D3977-97 (07)	01/03/22 20:10	01/07/22 18:56			NA

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- E** Estimated Value. The result is above the calibration range of the instrument.
- H-01** This sample was analyzed outside the recommended holding time.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring-2022**Project Number: **Alameda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested.

The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Page 53 of 59

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2A0212 - 12 28 22 1657****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 55 of 59



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

4 coders
COC 1 of 1
Lab # A2A0212

FORENSICS CHAIN OF CUSTODY

6700 SW Sandburg St., Tigard, OR 97223 forensics@apex-labs.com Ph: 503-718-2323

APEX LABORATORIES

Send Report To: RV Council of Governments
Company: 155 N First Street, Central Point, OR 97502
Address: 155 N First Street, Central Point, OR 97502
Send Invoice To: X Same as above
Sampled by:

Project Mgr: Greg Stabach
Project Name: Alameda Post-Fire Monitoring 2021
Project #/PO#: 155-664-6674
Email: gstabach@rvcoq.org
Phone: 541-664-6674

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ASTM D7096-10	ASTM D2867-14	ASTM D6730-01 Cryogenic	Distilled Hydrocarbon Analysis (DHA)	BTEXN by DHA	Forensic Parent & Alkylated PAHs (PAH Homologs) and Isoprenoid Evaluation	Organic Lead and Manganese Speciation	Total Suspended Solids by ASTM D3977-97	Digestion/Colorimetric Spectrophotometry	Forensic VOCs for Gasoline Contaminated Sites	Forensic VOCs for Gasoline Contaminated Sites (Water Soluble Fraction)	PRDE (Subcontracted to ALS-Burlington Ontario, Canada)	Forensic SVOCs for Unidentified or Specialty Contaminants + TICs	Total Nitrogen Package (TKN + Nitrate and Nitrite by IC)	pH	Total Hardness (calc) by SM 2340B (200.8)	DOC by Method 5310C	TOC by Method 5310C	MMTH-DX	PF 13 Metals plus Aluminum and Iron (EPA 200.8)	NOTES
1	13/22	18:25	W	9																					
2	17:10	17:10	W	9																					
3	17:30	17:30	W	9																					
4	19:10	19:10	W	9																					
5	20:10	20:10	W	9																					
6																									
7																									
8																									
9																									
10																									

ANALYSIS REQUEST

Turnaround Time Requested (Circle):
1 DAY 2 DAY 5 DAY 10 DAY (Std) Other: _____

Sample Storage Required:
X Dispose after 30 days (No Charge)
Long Term Evidence Storage (\$50 per quarter, up to 20 samples)

RECEIVED BY:
Signature: *Jennie Moya* Date: 1-4-22
Printed Name: Jennie Moya Time: 9:50
Company: RVS

RECEIVED BY:
Signature: *H. Scroggs* Date: 1-5-22
Printed Name: H. Scroggs Time: 11:16
Company: Apex Labs

RECEIVED BY:
Signature: _____ Date: _____
Printed Name: _____ Time: _____
Company: _____

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

FORENSICS CHAIN OF CUSTODY



6700 SW Sandburg St., Tigard, OR 97223 forensics@apex-labs.com Ph: 503-718-2323

Send Report To: RY Council of Governments		Project Mgr: Greg Stabach		Project Name: Almeda Post-Fire Monitoring 2021		Project #PO#	
Company: 155 N First Street, Central Point, OR 97502		Phone: 541-664-6674		Email: gstabach@rvco.org			
Send Invoice To: X Same as above		Other:					
Sampled by:							
ANALYSIS REQUEST							
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ASTM D7096-10	ASTM D2887-14
West Valley View (WV) OF		13.22.18.25	W	9			
North Ridge Terrace (NRT) OF		17.10	W	9			
Cover Rd. OF		17.30	W	9			
Bear Ck OS Cellar		19.10	W	9			
Bear Ck Oak St		20.10	W	9			
Special Instructions: (X) = Added per AP 1/19/22 (per 1/27/22) (X) = Added per AP 1/27/22 (per 1/27/22)							
Turnaround Time Requested (Circle): 1 DAY 2 DAY 5 DAY 10 DAY (\$1d) Other:				Sample Storage Required: X Dispose after 30 days (No Charge) Long Term Evidence Storage (\$50 per quarter, up to 20 samples)			
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:	
Signature: Jennie Moyer	Date: 1-4-22	Signature: [Signature]	Date: 1-5-22	Signature: [Signature]	Date: 1-5-22	Signature: [Signature]	Date: 1-5-22
Printed Name: Jennie Moyer	Time: 9:50	Printed Name: H. Scroggs	Time: 10:10	Printed Name: [Signature]	Time: 10:10	Printed Name: [Signature]	Time: 10:10
Company: RVSS		Company: APEX Labs		Company: APEX Labs		Company: APEX Labs	

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire MonitorinProject Manager: Greg Stabach

Report ID:

A2A0212 - 12 28 22 1657

APEX LABS COOLER RECEIPT FORM

Client: RV Council of Governments Element WO#: A2 A0212Project/Project #: Almeda Post-Fire Monitoring 2021

Delivery Info:

Date/time received: 1/5/22 @ 1126 By: MASDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 1/5/22 @ 1128 By: MASChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.9	2.8	1.9	0.1			
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	good						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 1/5/22 @ 1810 By: (8)All samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: See formCOC/container discrepancies form initiated? Yes ☒ No ☐Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

Additional information: Trucking #: 2883 5727 8302

Labeled by:

KJB

Witness:

(8)

Cooler Inspected by:

MAS

Apex Laboratories

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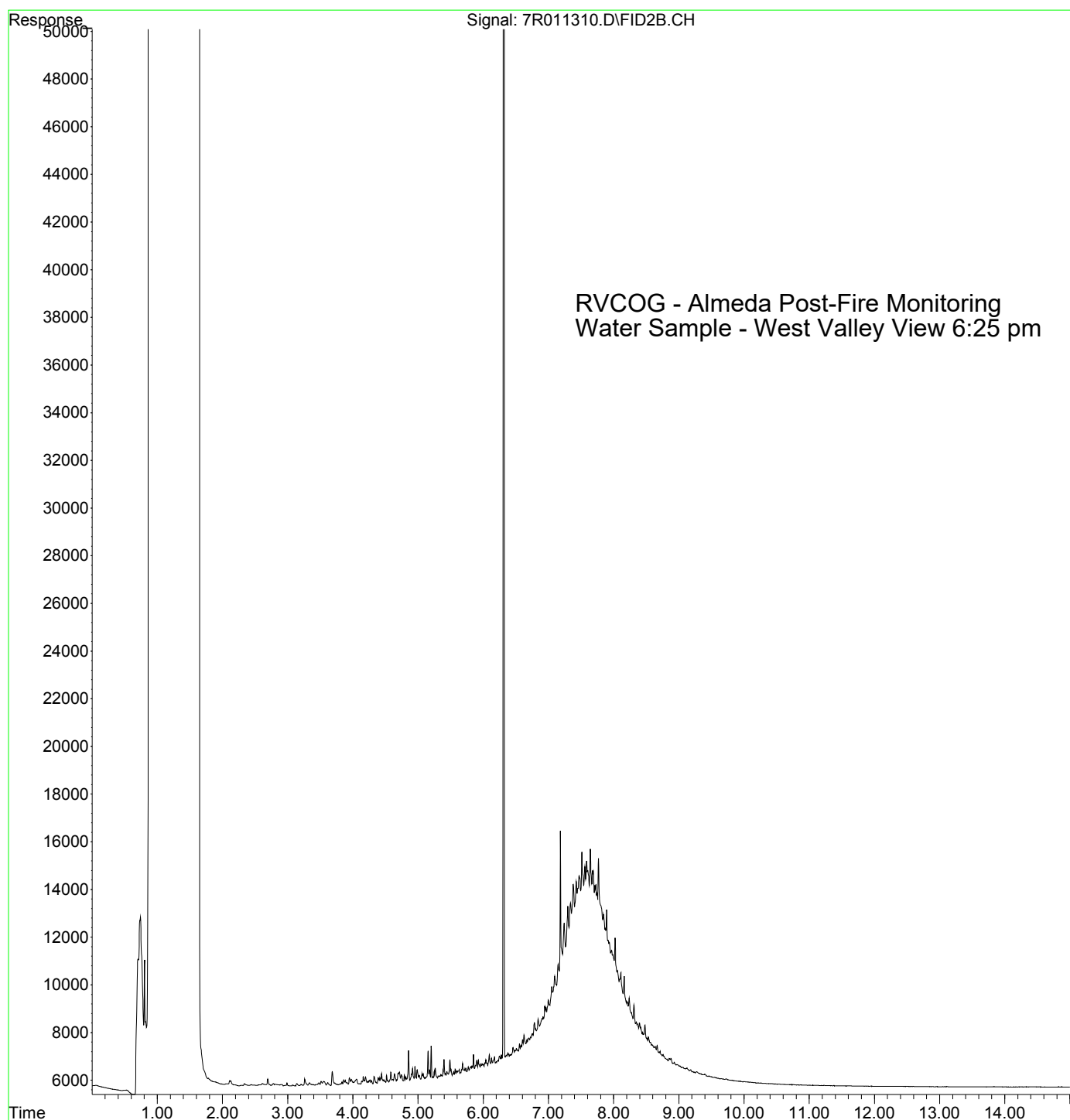
Michele Poquiz

Michele Poquiz For Kurt Johnson, Senior Chemist

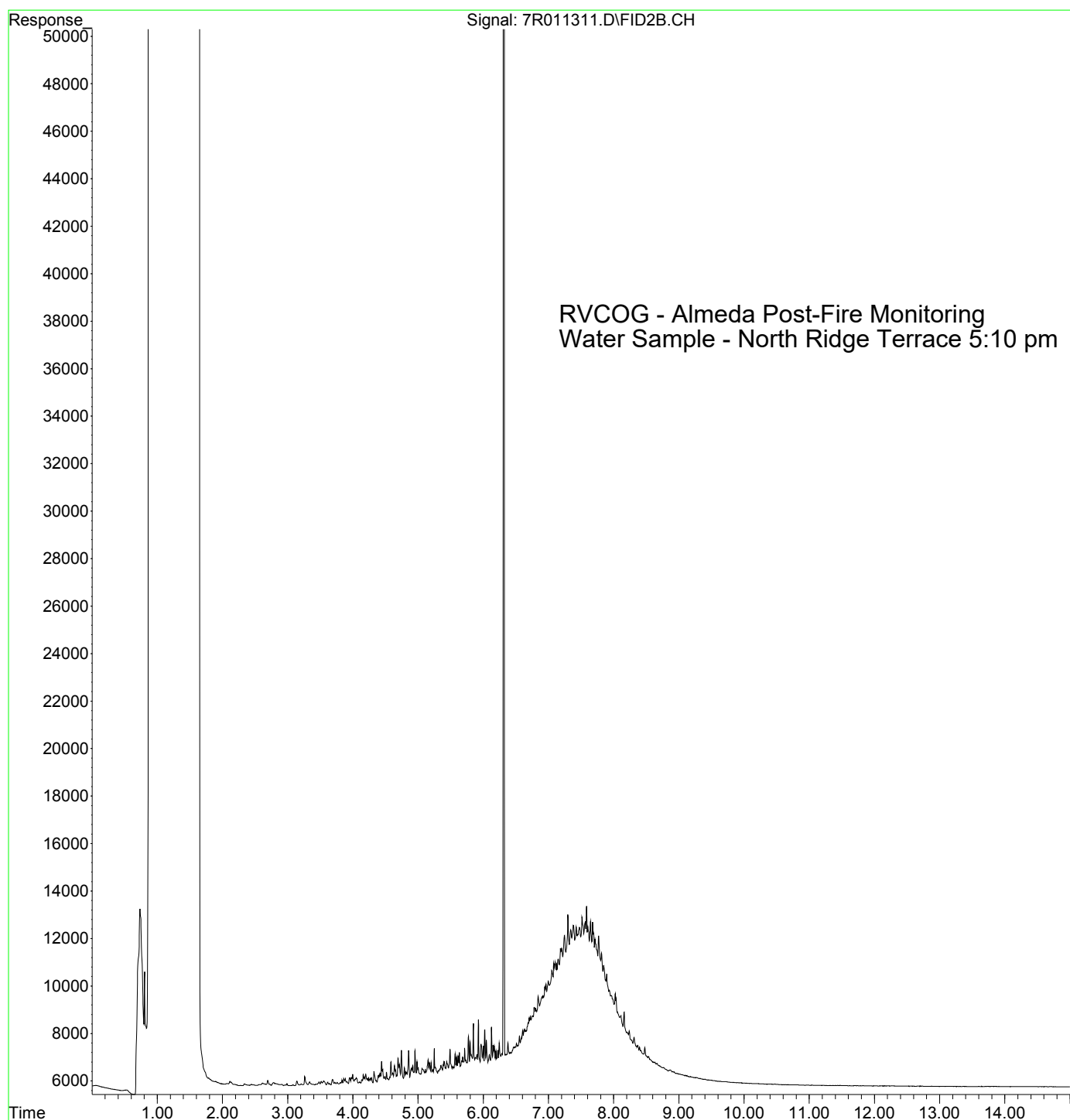
12/28/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 59 of 119

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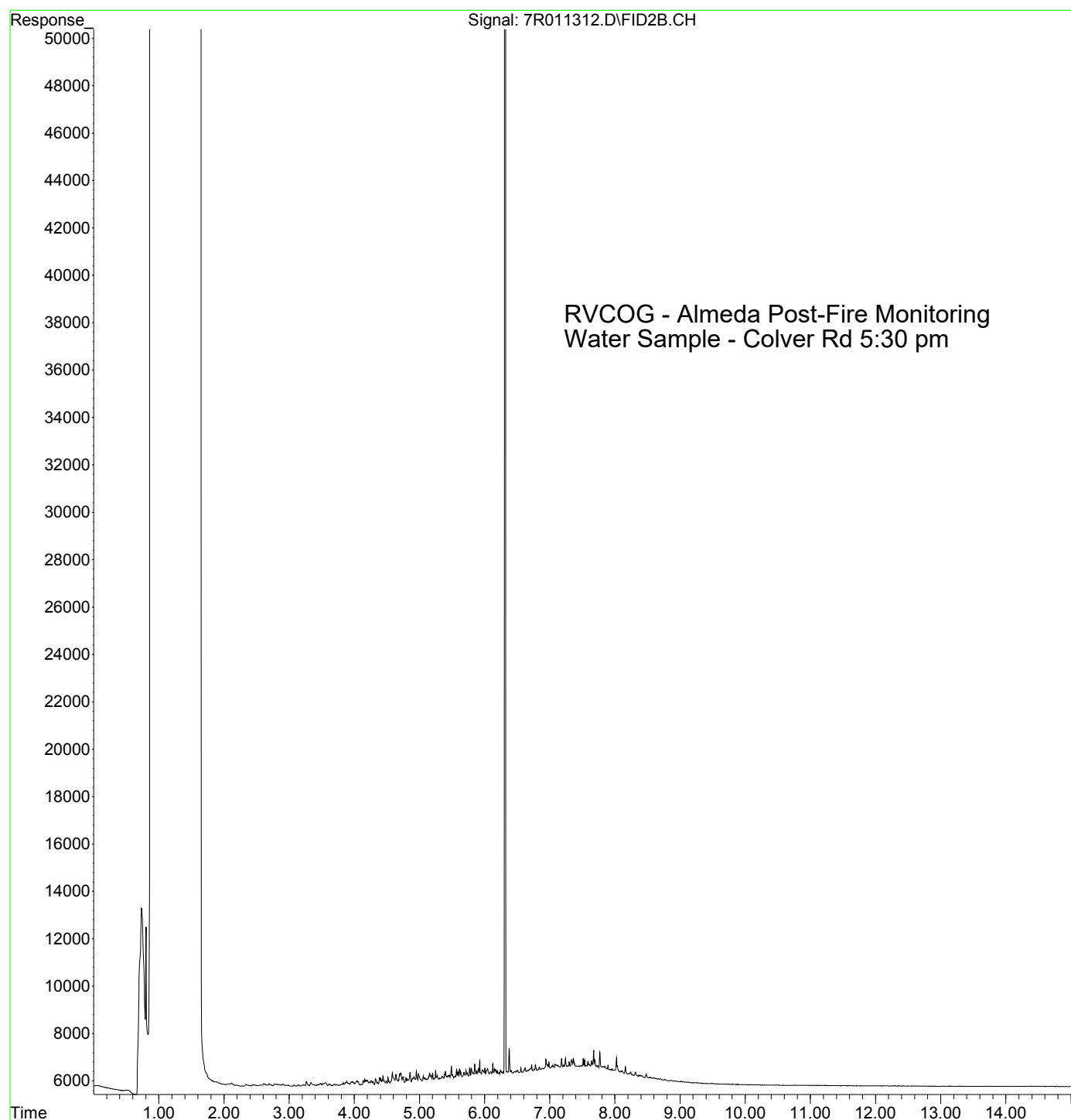
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Sample Name: A2A0212-01
Misc Info :
Vial Number: 54



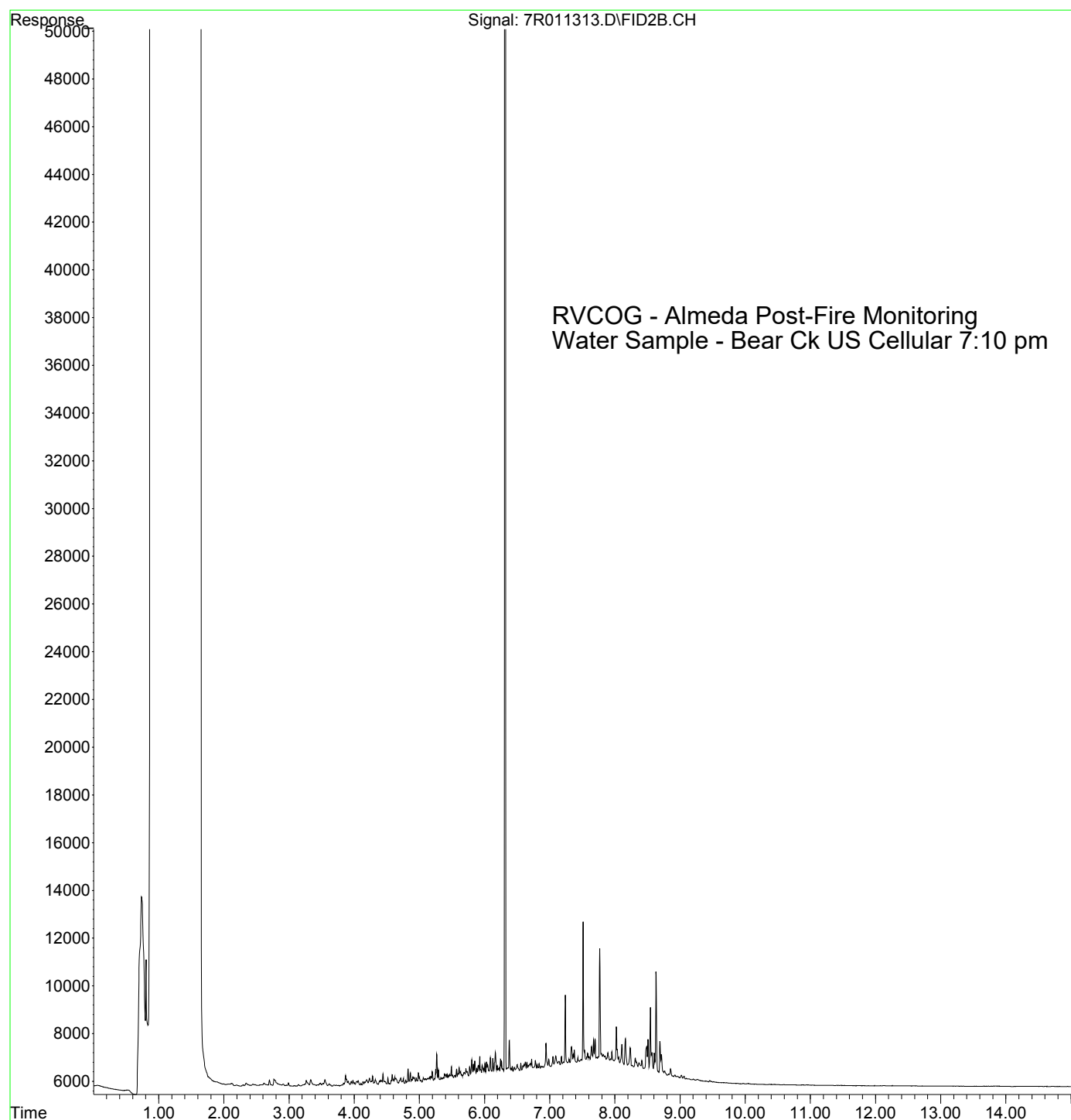
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Misc Info :
Vial Number: 55



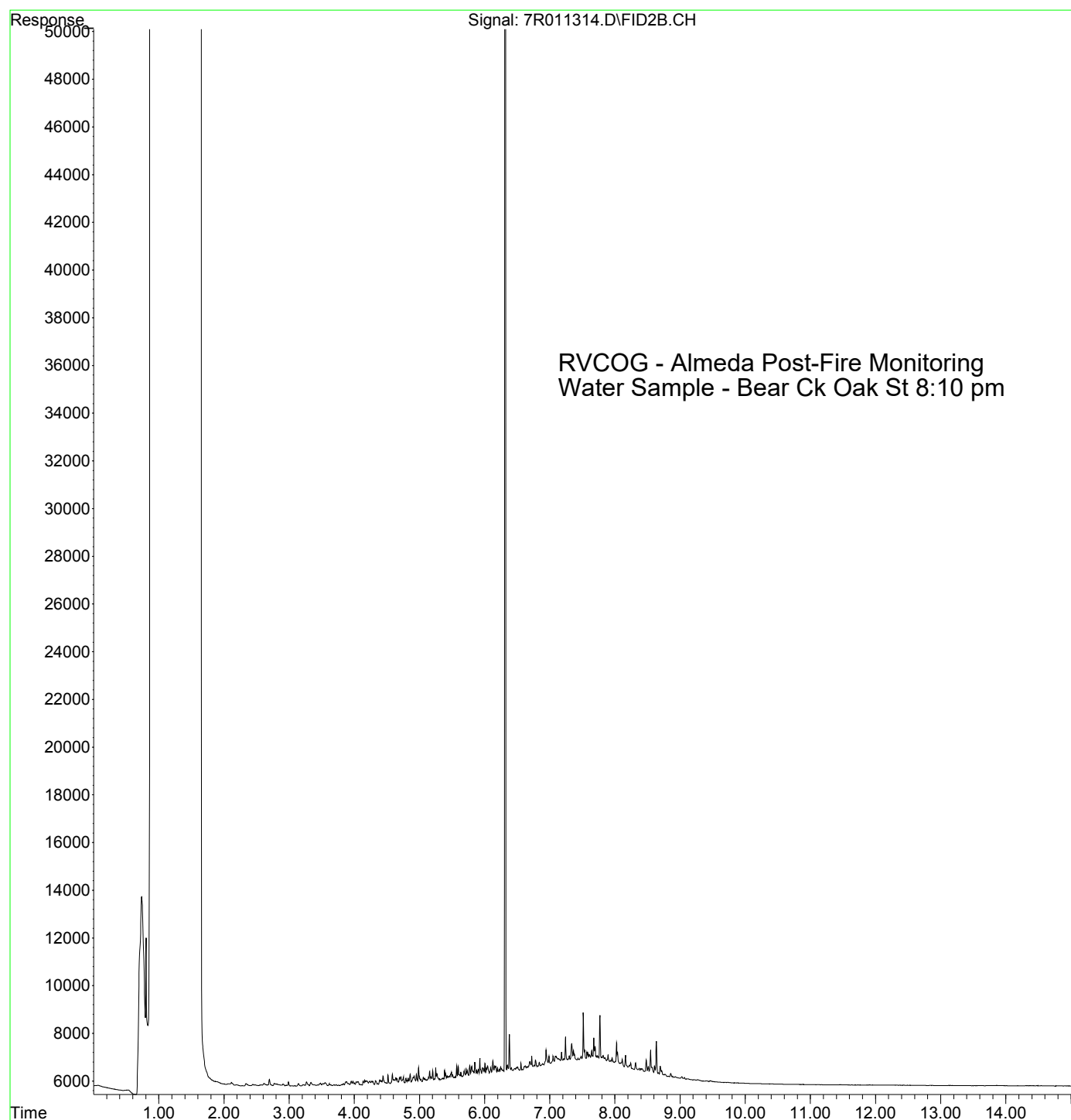
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Misc Info :
Vial Number: 56



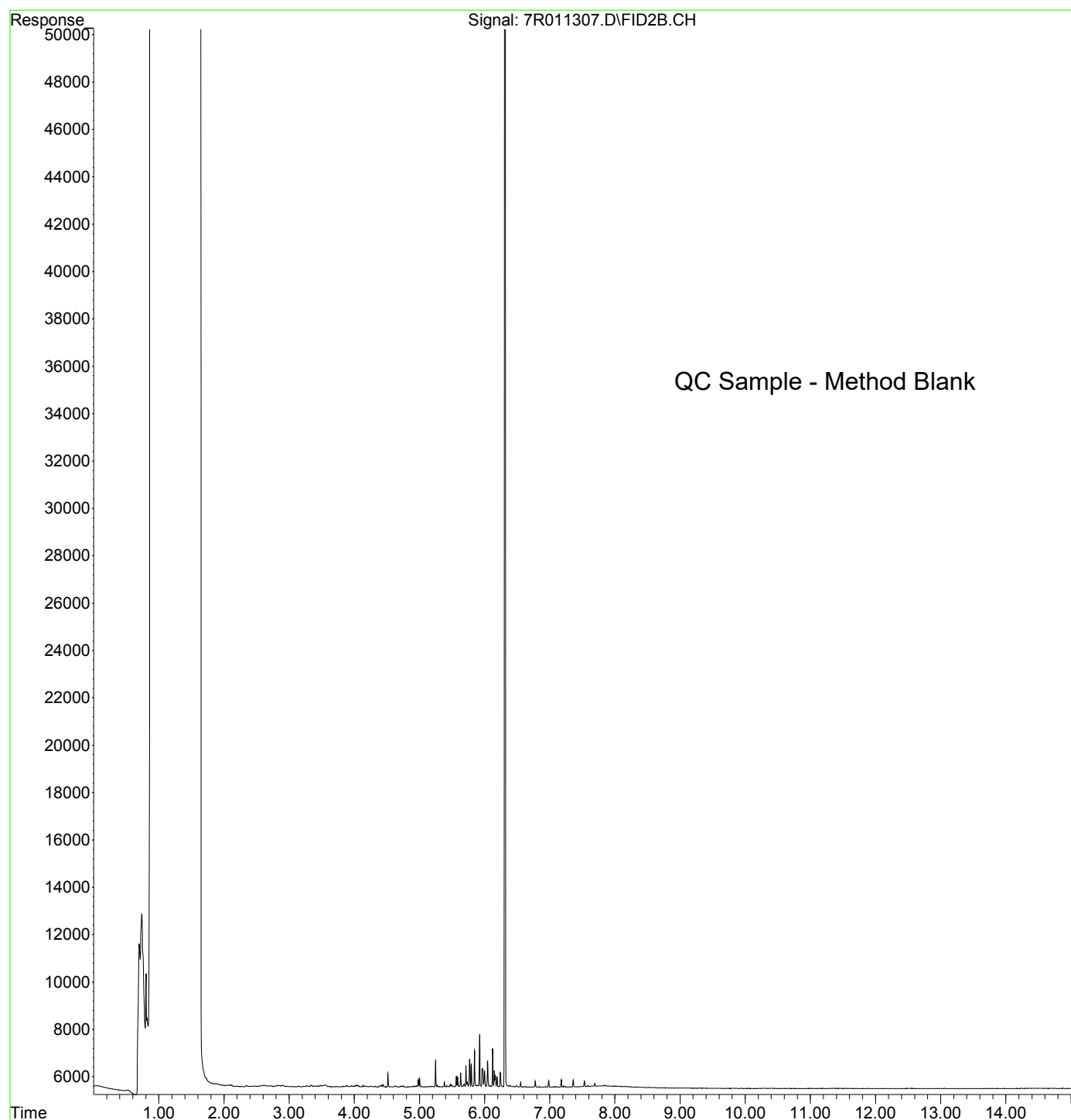
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Vial Number: 57



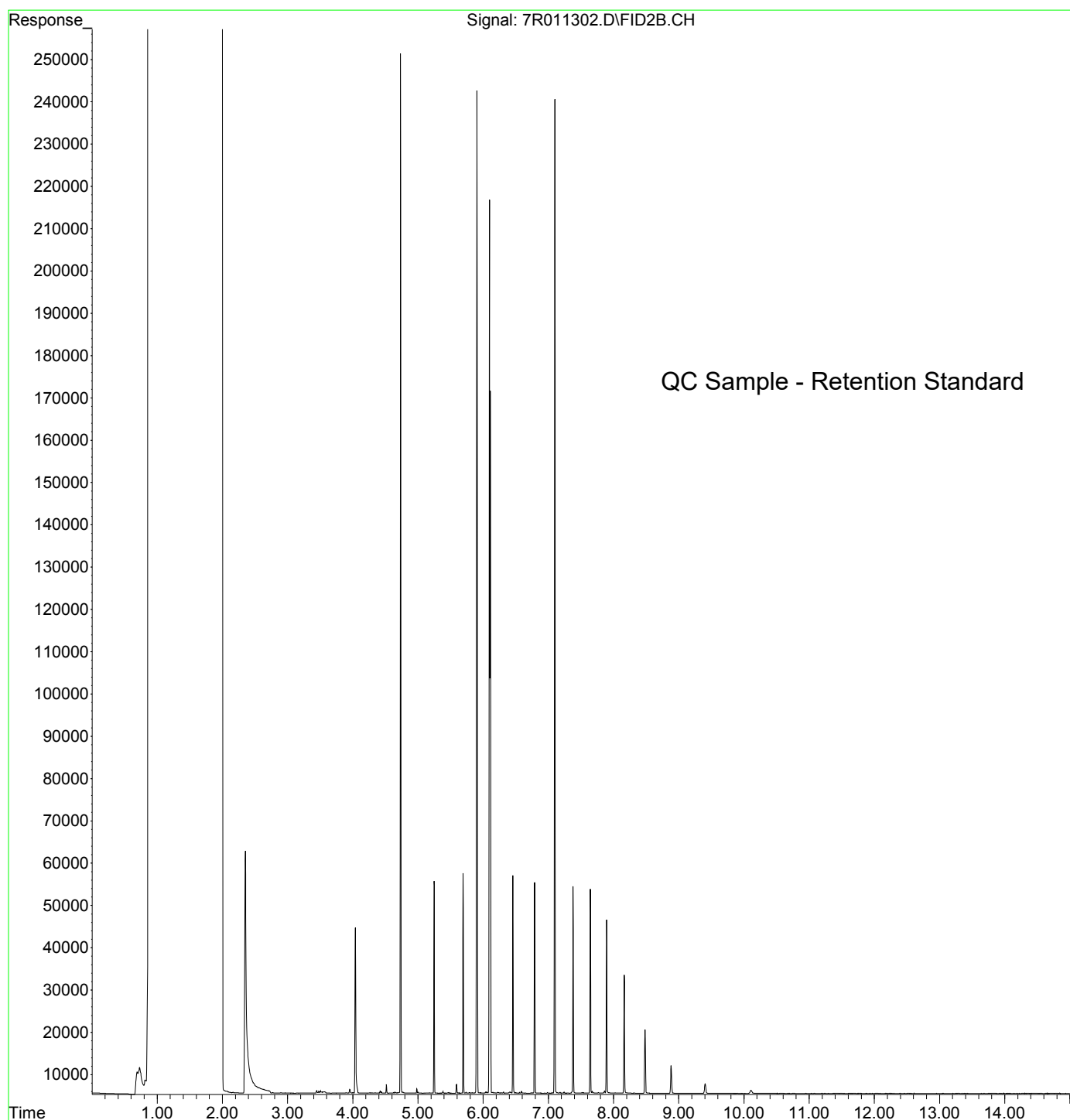
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Vial Number: 58



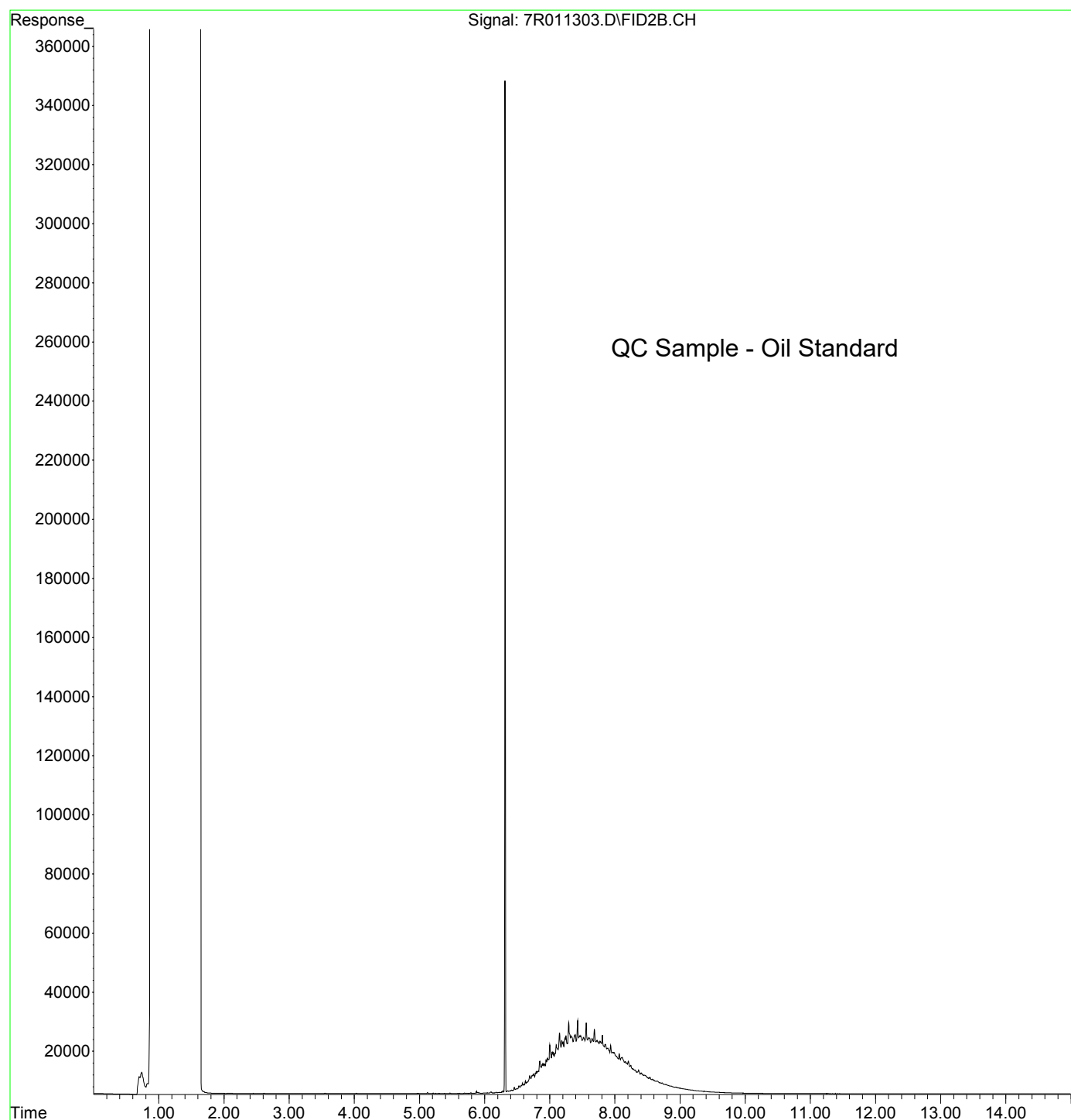
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Sample Name: 22A0433-BLK1
Misc Info :
Vial Number: 51



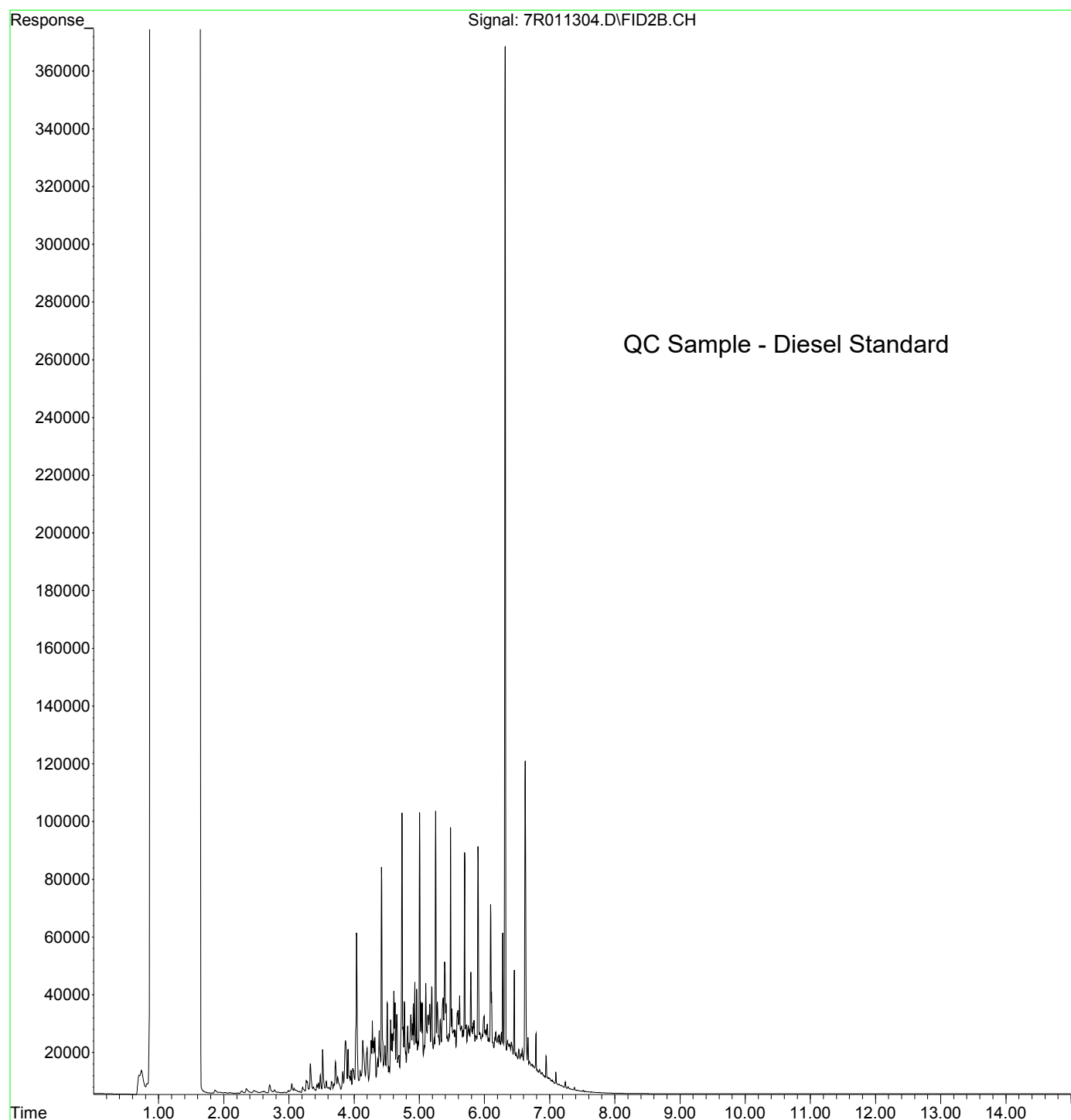
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Operator : BLL
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Instrument : HP G1530A
Sample Name: 2A13039-RES1
Misc Info :
Vial Number: 95



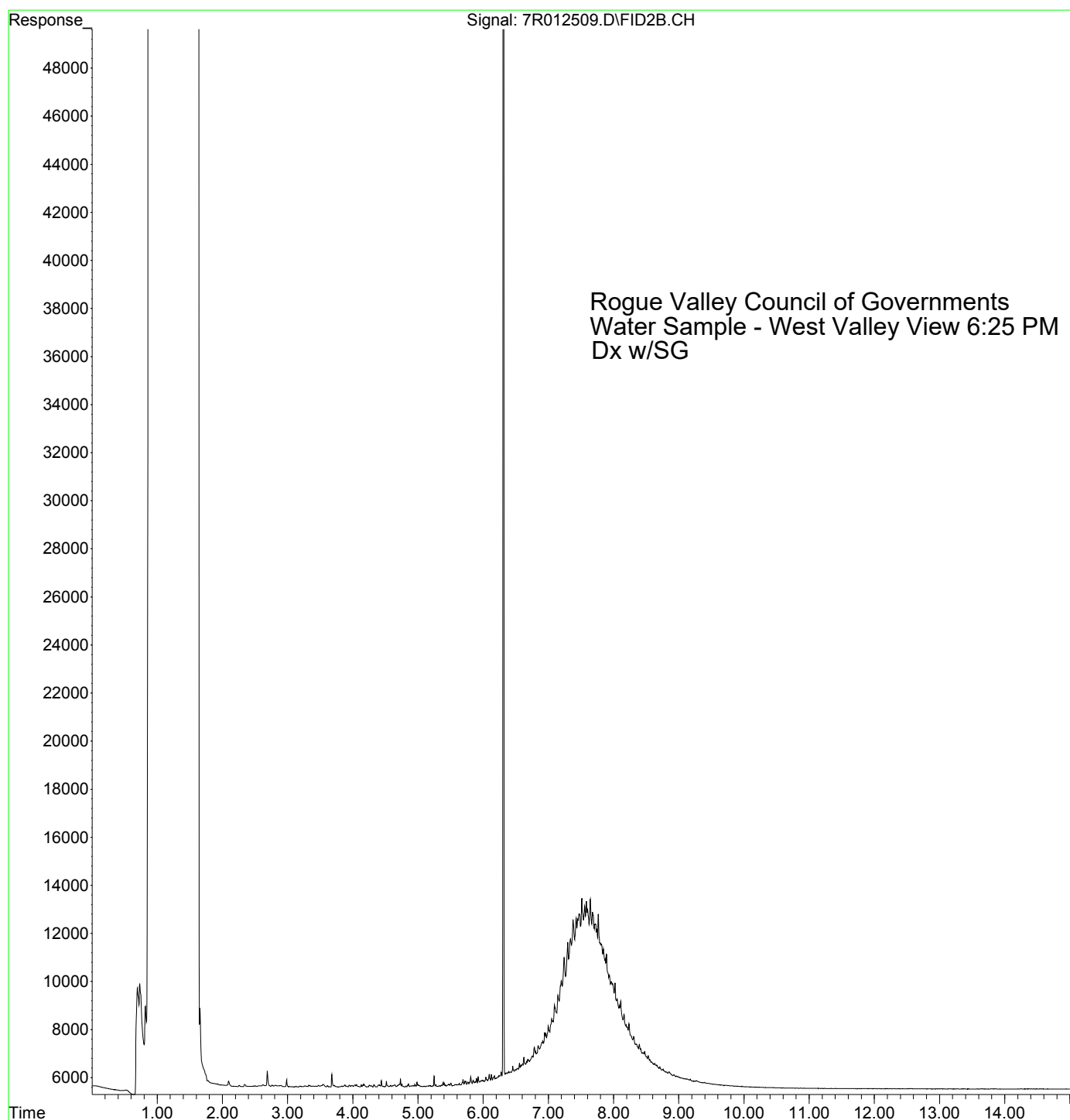
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Sample Name: 2A13039-CCV1
Misc Info :
Vial Number: 2



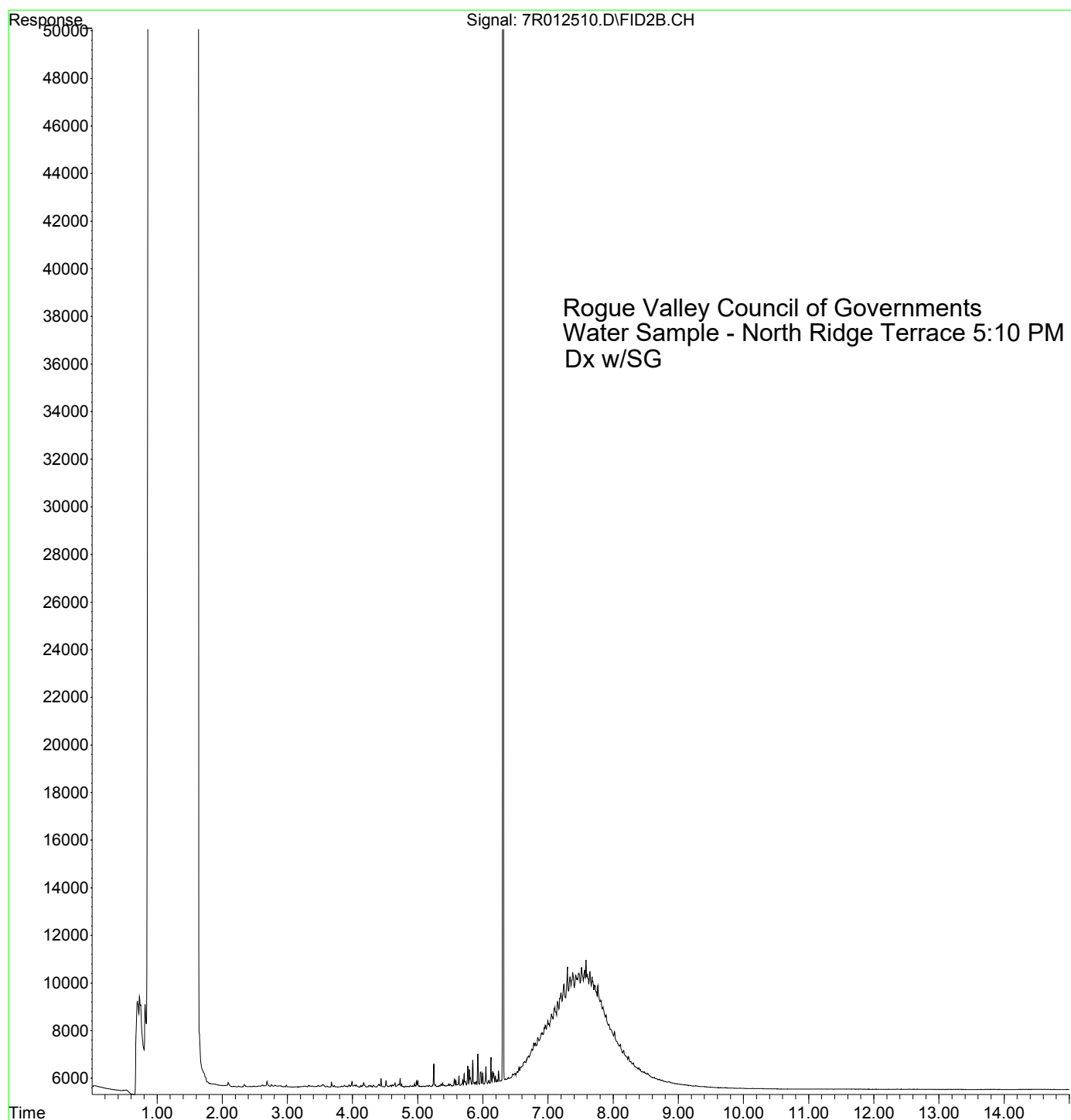
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Misc Info :
Vial Number: 1



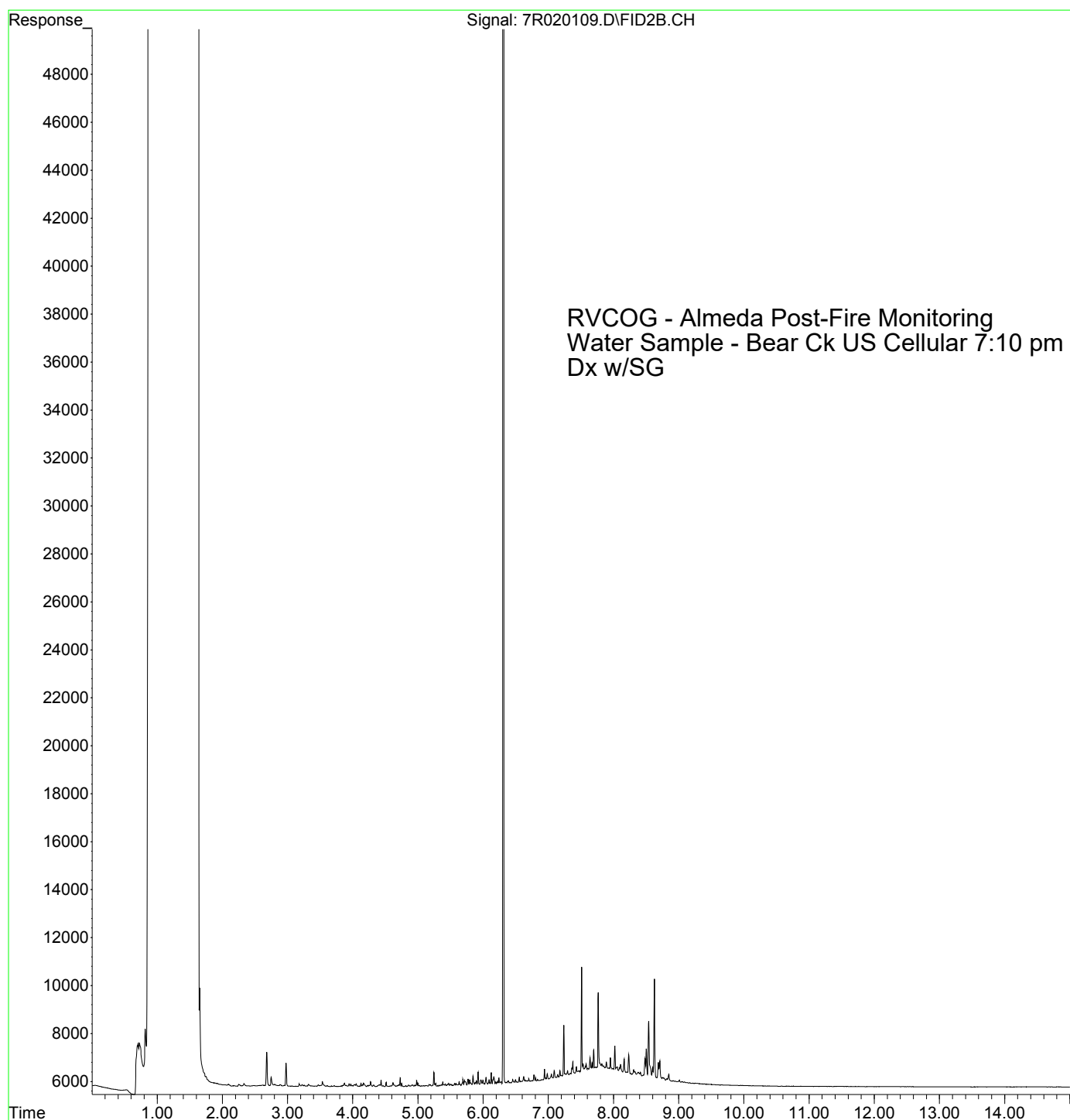
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Sample Name: A2A0212-01
Misc Info :
Vial Number: 54



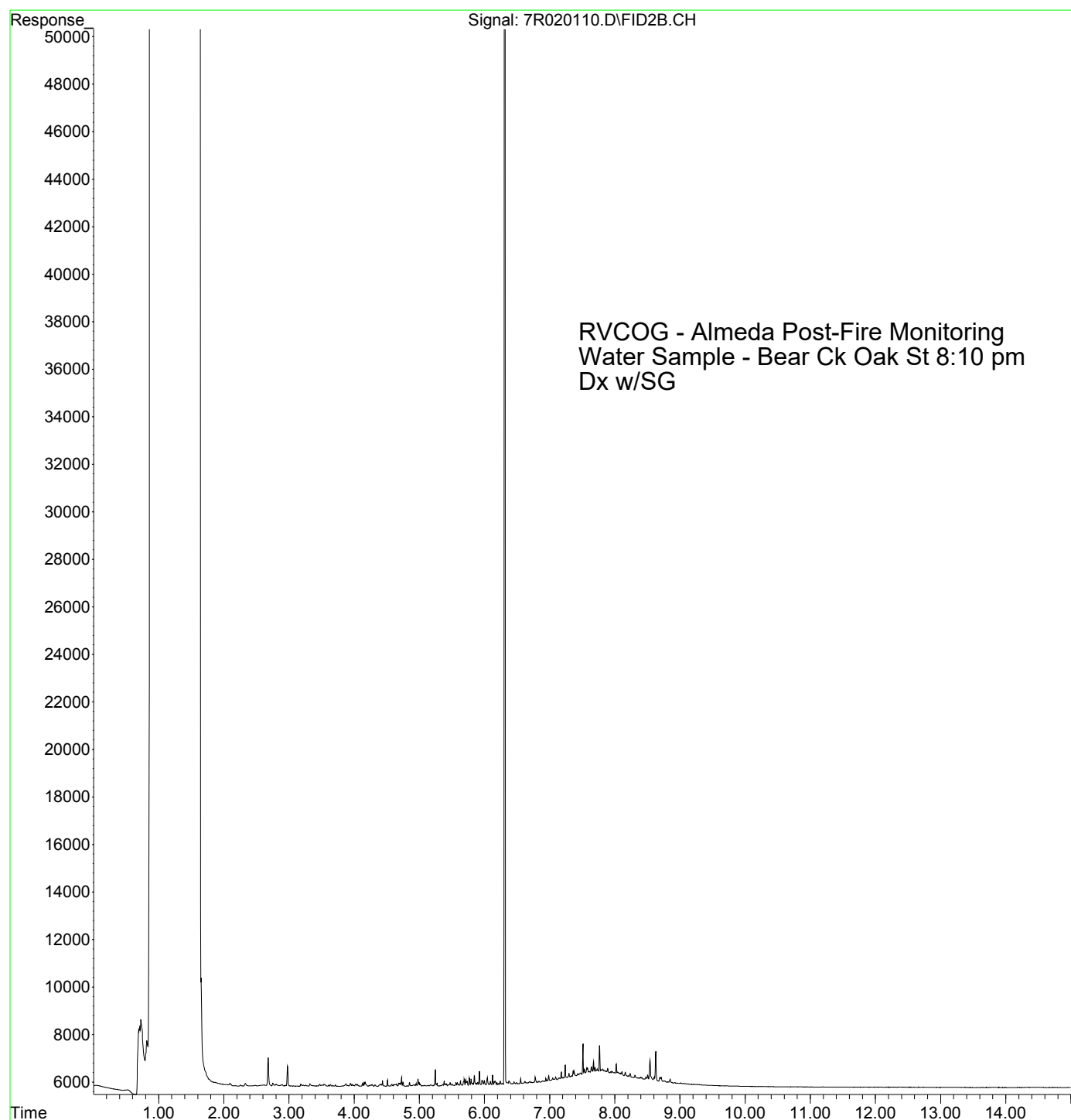
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Instrument : HP G1530A
Sample Name: A2A0212-02
Misc Info :
Vial Number: 55



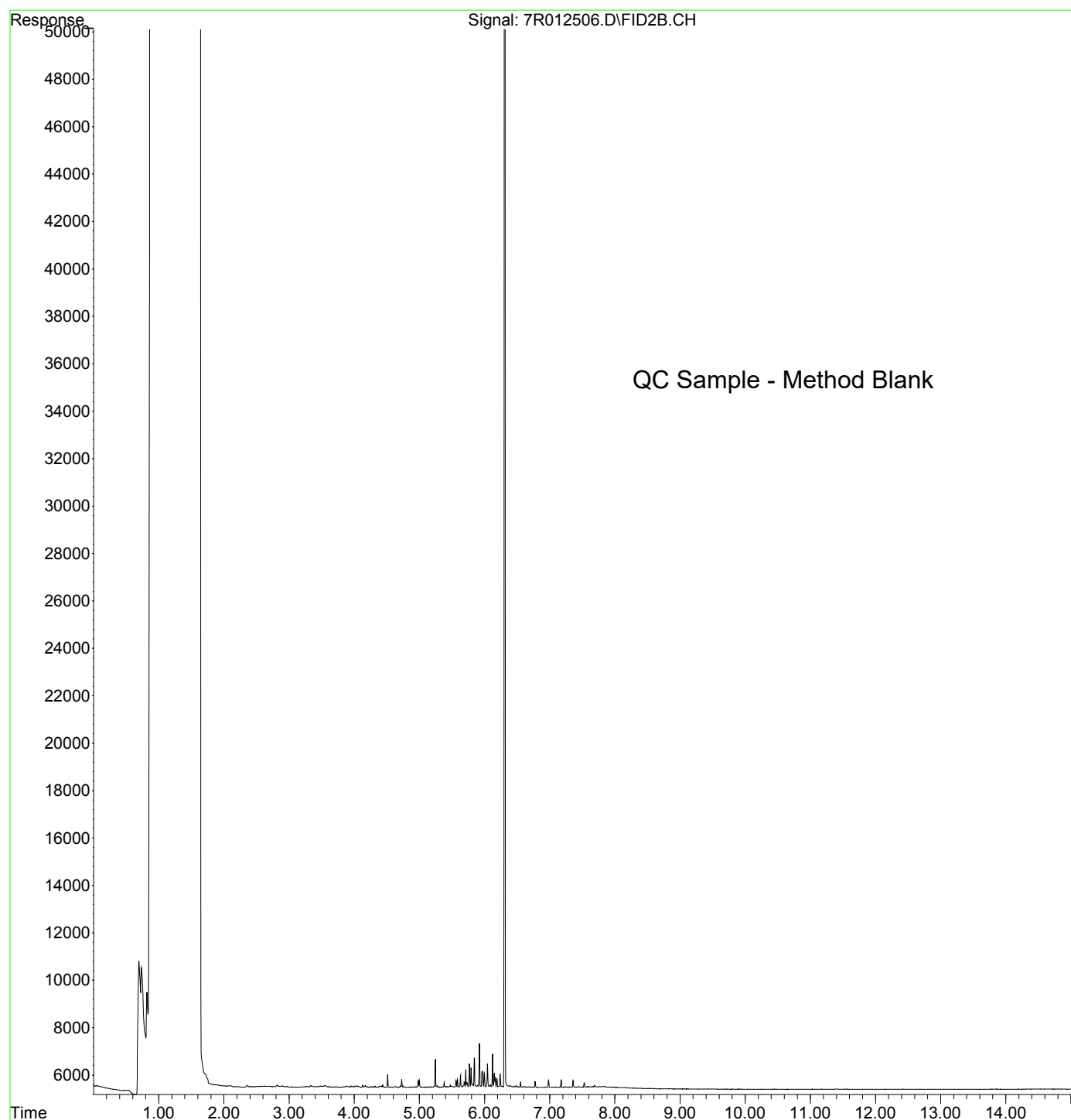
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Sample Name: A2A0212-04
Misc Info :
Vial Number: 54



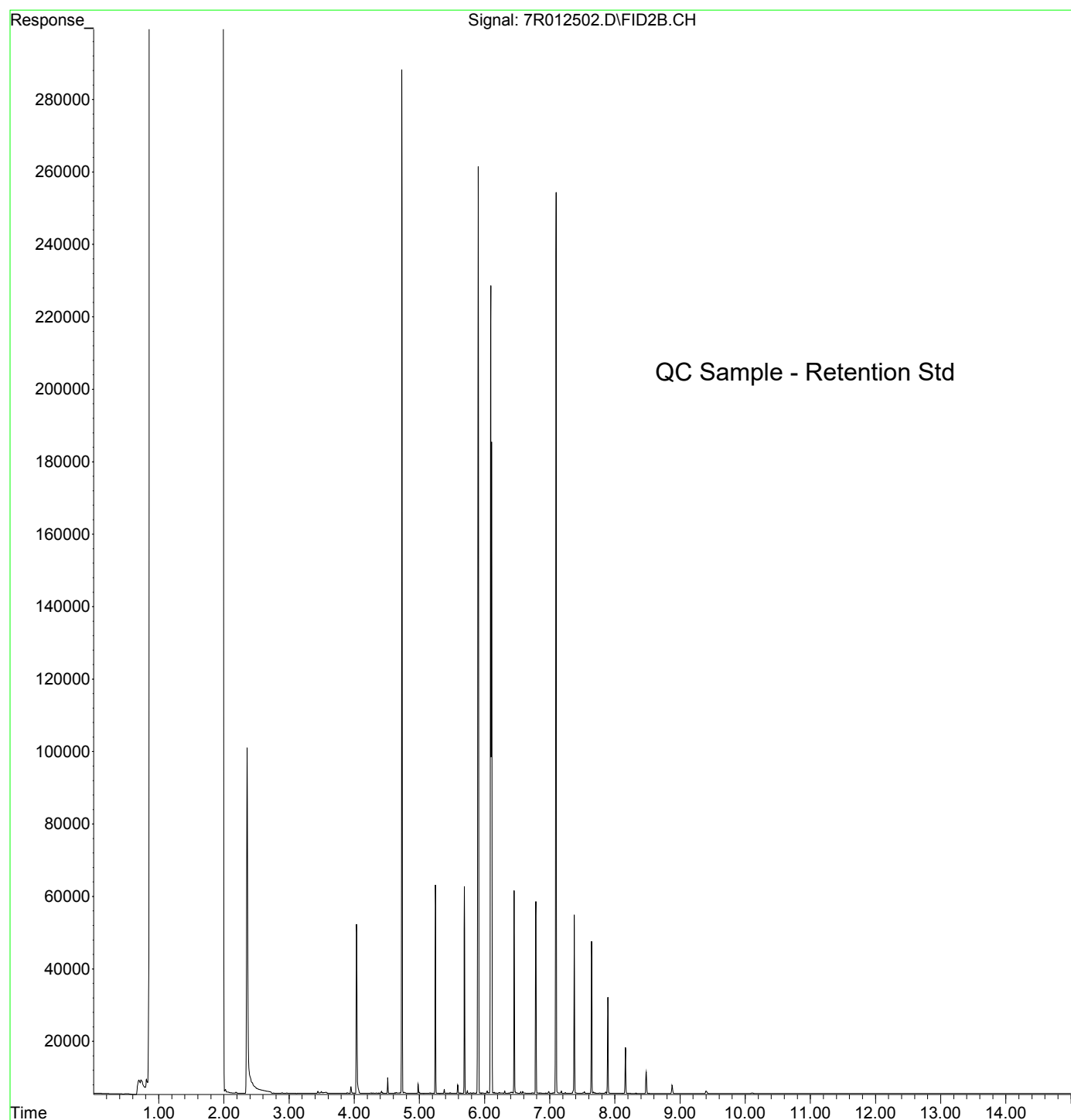
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Operator : BLL
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Sample Name: A2A0212-05
Misc Info :
Vial Number: 55



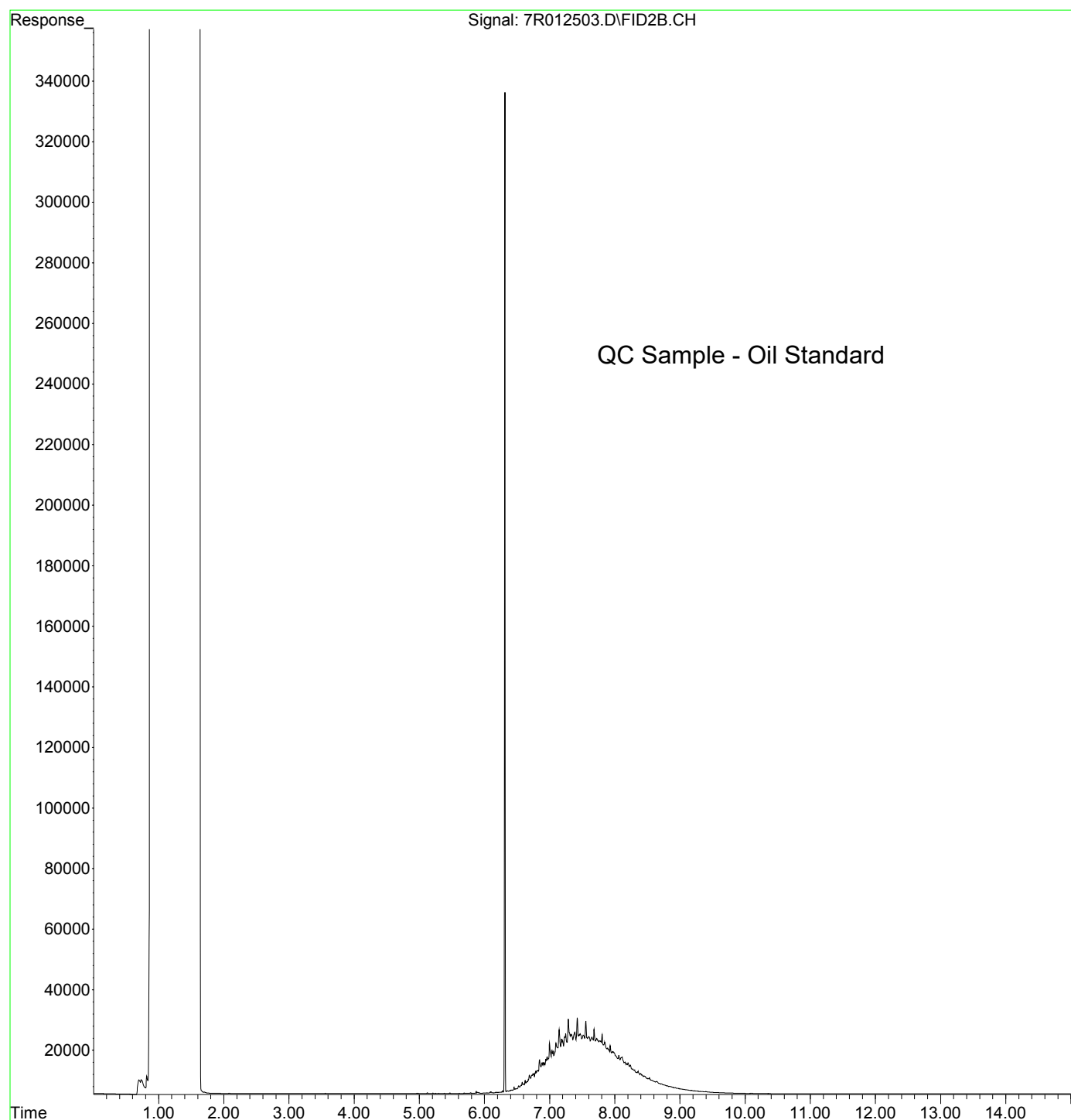
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Instrument : HP G1530A
Sample Name: 22A0875-BLK1
Misc Info :
Vial Number: 51



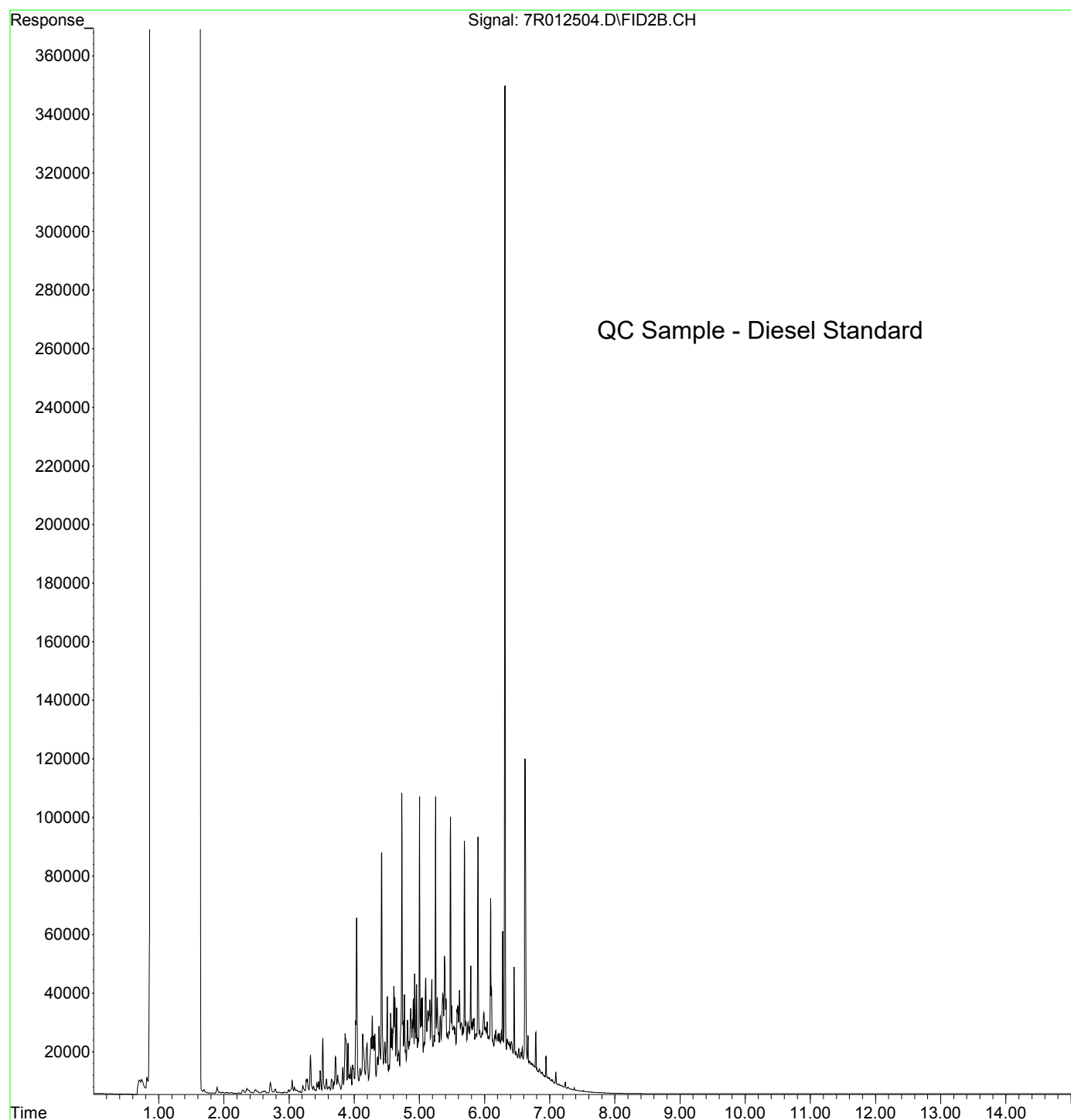
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Misc Info :
Vial Number: 95



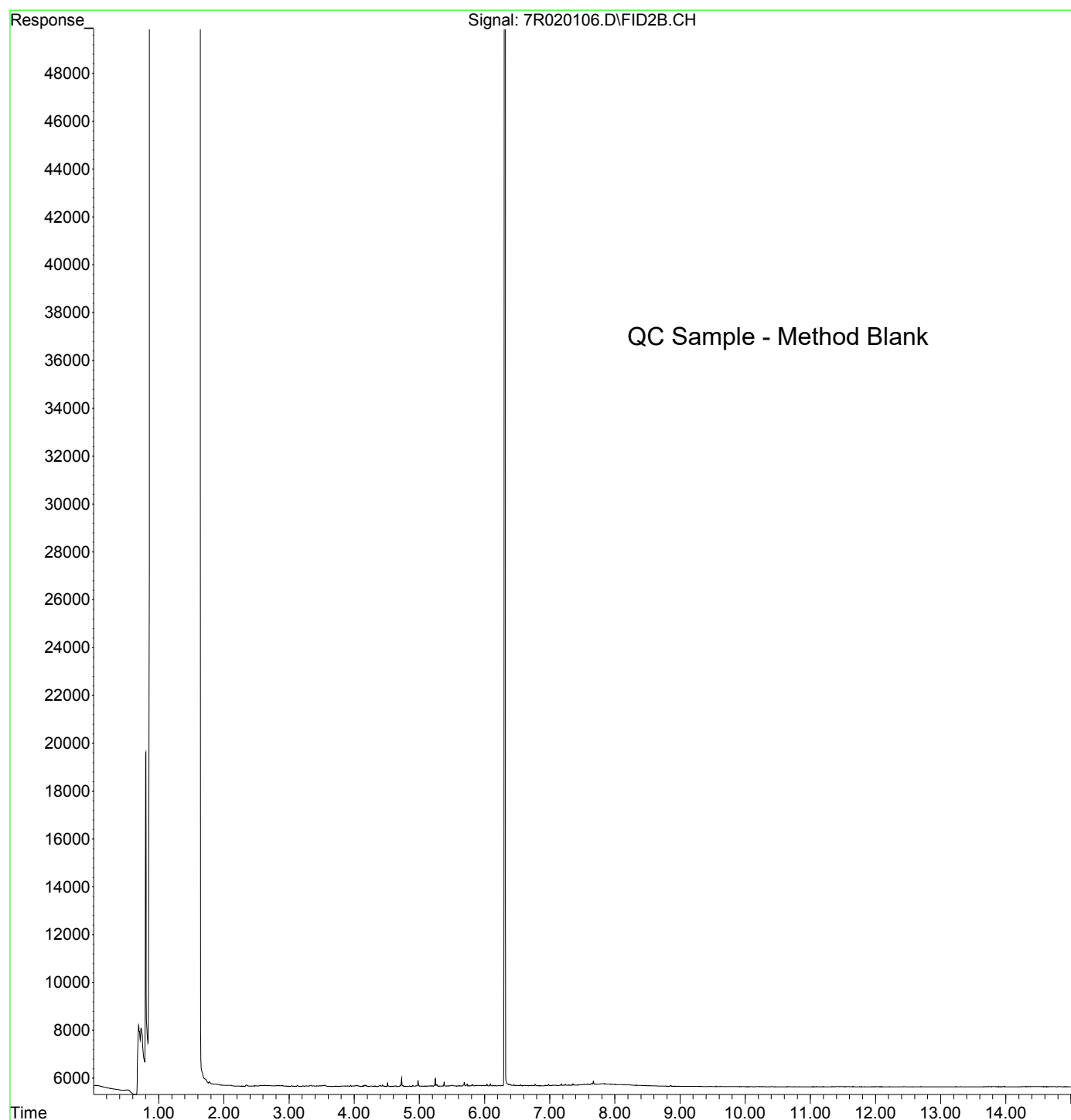
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Instrument : HP G1530A
Sample Name: 2A25049-CCV1
Misc Info :
Vial Number: 2



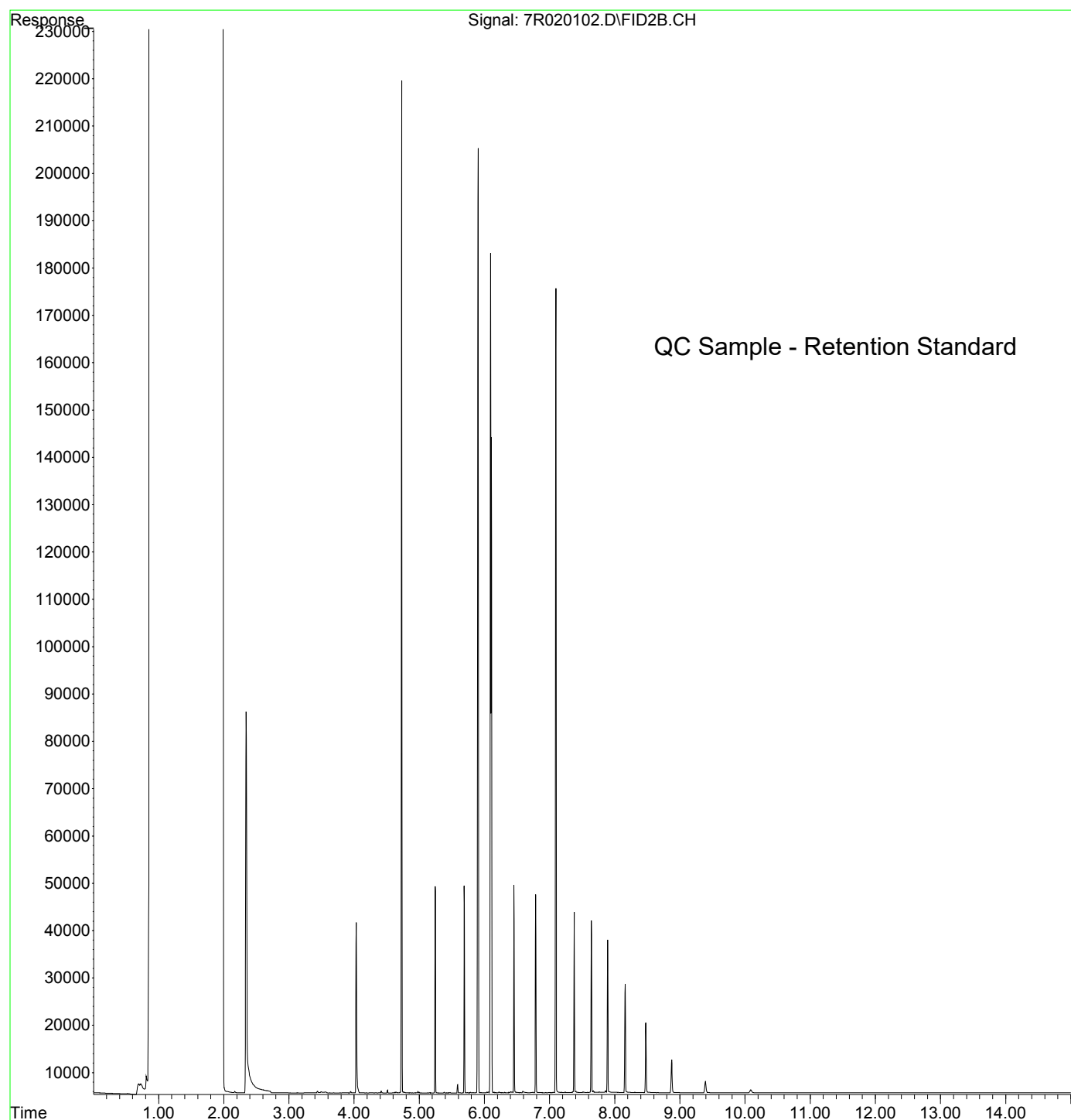
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Operator : BLL
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Instrument : HP G1530A
Sample Name: 2A25049-CCV2
Misc Info :
Vial Number: 1



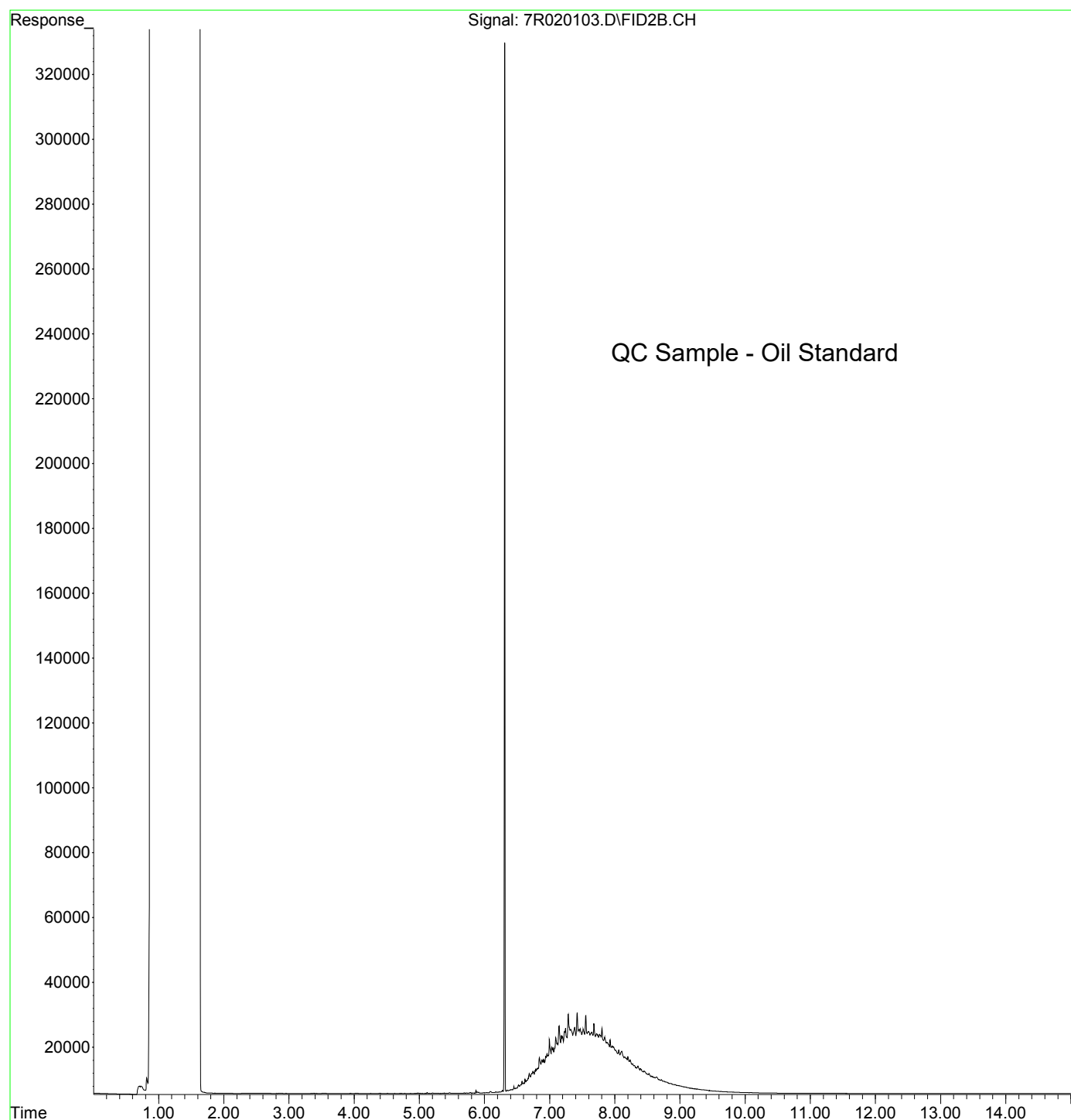
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Instrument : HP G1530A
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Misc Info :
Vial Number: 51



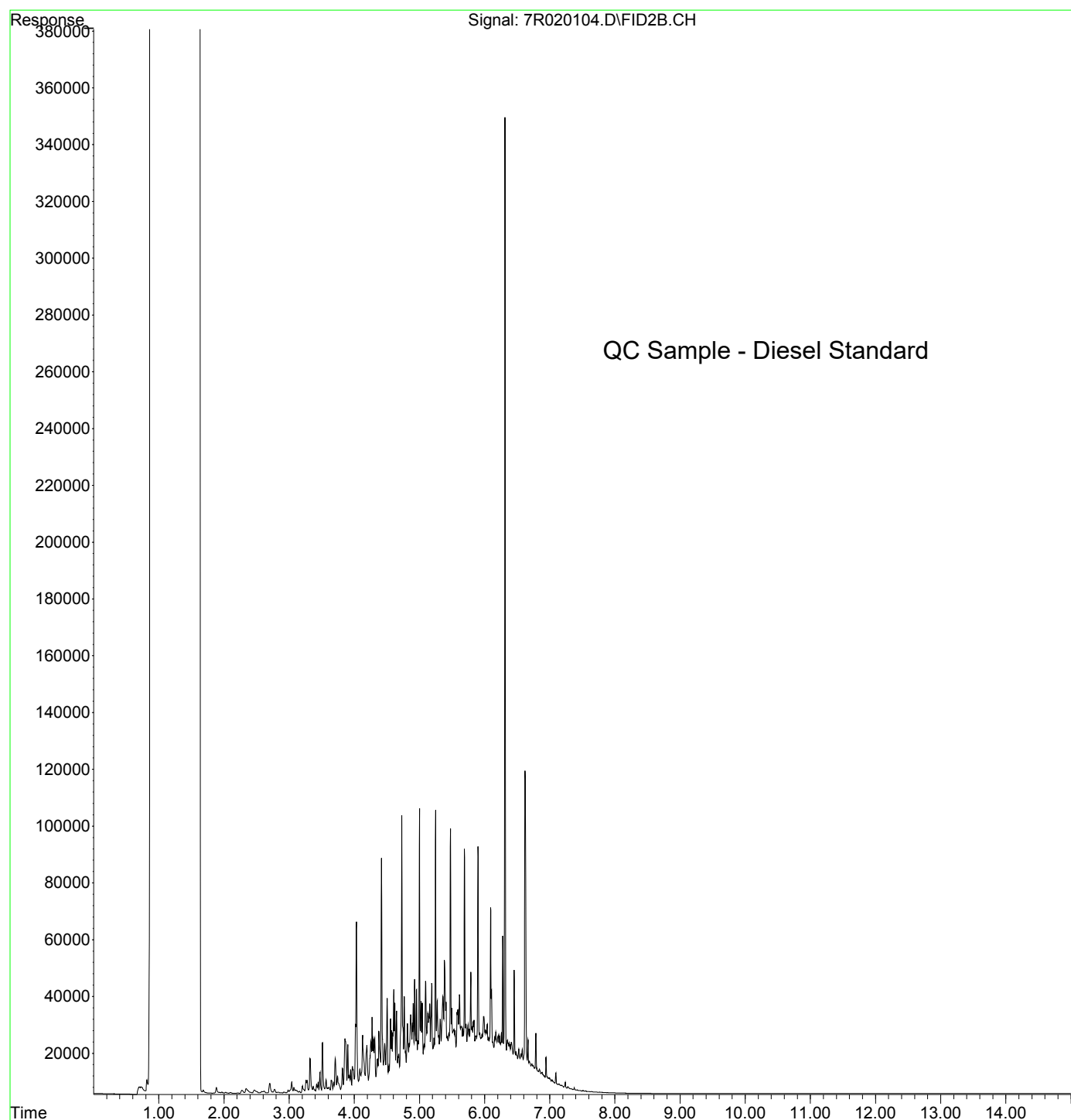
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Operator : BLL
Acquired : 02 Feb 2022 3:32 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 2B01050-RES1
Misc Info :
Vial Number: 95



File :C:\msdchem\1\data\2022-01-06\2B02050\7R020103.D
Operator : BLL
Acquired : 02 Feb 2022 3:52 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 2B01050-CCV1
Misc Info :
Vial Number: 2



File :C:\msdchem\1\data\2022-01-06\2B02050\7R020104.D
Operator : BLL
Acquired : 02 Feb 2022 4:13 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 2B01050-CCV2
Misc Info :
Vial Number: 1



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
West Valley View (WVV), OF (A2A0212-01RE1)			
Benzothiazole	000095-16-9	8.29	0.42
Tridecane	000629-50-5	8.61	0.45
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	000143-22-6	9.552	0.71
n-Hexadecanoic acid	000057-10-3	11.937	0.54
Octadecanoic acid	000057-11-4	12.788	0.44
North Ridge Terrace (NRT), OF (A2A0212-02RE1)			
Eicosane	000112-95-8	18.799	2.0
Hexacosane	000630-01-3	18.799	2.0
Tricosane	000638-97-5	20.201	0.51
Benzoic acid, p-tert-butyl	000098-73-7	9.717	0.37
Colver Rd, OF (A2A0212-03RE1)			
Benzothiazole	000095-16-9	8.29	0.16
Tridecane	000629-50-5	8.61	0.13
Tetradecane	000629-59-4	9.183	0.27
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	000143-22-6	9.546	0.18
Eicosane	000112-95-8	18.538	0.24
Tricosane	000638-67-5	20.201	0.34

Custom 8270 Analyst Verified Tentatively Identified Compounds

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
Bear Ck US Cellular (A2A0212-04RE2)			
Hexanoic acid, 2-ethyl-	000149-57-5	7.396	0.14
2,6,6-Trimethyl-2-cyclohexen-1,4-dione	001125-21-9	7.674	0.13
Nonanoic acid	000112-05-0	8.359	0.18
Tetradecane	000629-59-4	9.188	0.12
Tetradecanoic acid	000544-63-8	10.975	0.18
Z-7-Hexadecanoic acid	N/A	11.793	0.59
Phytol	000150-86-7	12.579	0.29
Heptadecane	000629-78-7	13.585	0.32
Hexadecane	000544-76-3	18.554	1.7
1-Tricosene	018835-32-0	18.602	0.74
Tetracosane	000544-76-3	16.821	2.5
Heneicosane, 11-decyl	055320-06-4	20.217	0.94
Cholesterol	000057-88-5	20.597	1.2
Bear Ck Oak St (A2A0212-05RE1)			
Benzothiazole	000095-16-9	8.295	0.09
Tetradecane	000629-59-4	9.188	0.13
Nonadecane	000629-92-5	15.109	0.30
Tetracosane	000646-31-1	16.826	0.81
Heptadecane	000629-78-7	18.548	0.91
Docosane	000629-97-0	20.217	0.59
.gamma.-Sitosterol	000083-47-6	22.116	0.91



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2678370
Date of Report: 1-Mar-22
Date of Sample Receipt: 11-Jan-22

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
USA
Client Contact: Michele Poquiz
Client Project ID: A2A0212

COMMENTS: **Brominated Flame Retardants by EPA 1614**

Some results have been reported from the analysis of diluted extracts due to interferences causing localize suppression.

Certified by:

A handwritten signature in black ink, appearing to read "Steve Kennedy".

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences					
Sample Analysis Summary Report					
Sample Name	WEST VALLEY VIEW (WVV), OF	NORTH RIDGE TERRACE (NRT), OF	COLVER RD, OF	BEAR CK US CELLULAR	BEAR CK OAK ST.
ALS Sample ID	L2678370-1	L2678370-2	L2678370-3	L2678370-4	L2678370-5
Sample Size	1.02	1.02	1.02	1.02	0.885
Sample size units	L	L	L	L	L
Percent Moisture	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Water	Water	Water	Water	Water
Sampling Date	3-Jan-22	3-Jan-22	3-Jan-22	3-Jan-22	3-Jan-22
Extraction Date	17-Jan-22	17-Jan-22	17-Jan-22	17-Jan-22	17-Jan-22
Target Analytes	pg/L	pg/L	pg/L	pg/L	pg/L
BDE 10	<0.11	<0.14	<0.19	<0.69	<0.19
BDE 7	<0.11	<0.13	<0.18	<0.67	<0.18
BDE 8/11	0.167	<0.095	<0.13	<0.47	<0.13
BDE 12/13	<0.20	<0.20	<0.11	<1.0	<0.11
BDE 15	<0.50	<0.31	<0.36	5.11	0.737
BDE 30	<0.32	<0.24	<0.43	<0.39	<0.31
BDE 32	<0.55	0.262	<0.31	<0.28	<0.23
BDE 17/25	1.54	4.54	0.956	8.18	1.88
BDE 28/33	5.20	15.4	2.65	27.1	4.36
BDE 35	<5.4	<0.57	<0.59	<2.9	<1.1
BDE 37	0.561	0.965	0.365	2.32	<0.20
PBEB	1.01	0.911	0.478	2.95	1.14
PBB 52	<0.28	<0.26	<0.27	<0.18	<0.27
HBB	3.43	2.97	<2.0	2.15	3.33
BDE 75	0.568	1.40	<0.26	3.35	<0.32
BDE 51	1.49	2.54	<0.40	<1.9	<0.43
BDE 49	15.9	44.4	<5.8	32.3	8.80
BDE 71	<0.33	<0.25	<0.31	<0.41	<0.38
BDE 47	194	440	122	608	146
BDE 79	<0.80	<0.87	<1.0	<1.6	<1.1
BDE 66	8.03	32.2	4.83	21.6	4.14
BDE 77	<0.27	<0.35	<0.24	<0.34	<0.28
PBB 101	<0.75	<0.30	<0.29	<2.0	0.315
BDE 100	77.4	113	32.0	177	33.7
BDE 119/120	2.00	2.47	<1.7	<4.6	<1.6
BDE 99	395	465	144	672	148
BDE 116	<0.89	<0.86	<0.93	<0.87	<0.78
BDE 83	<0.75	<0.73	<0.79	<0.74	<0.66
BDE 118	<1.7	5.15	<0.67	<3.0	<0.56
BDE 85	17.3	17.6	5.54	15.6	5.56
BDE 126	<0.42	<0.39	<0.42	<0.35	<0.34
BDE 105	<0.62	<0.60	<0.65	<0.61	<0.55
PBB 153	7.10	<4.7	<1.2	11.9	<1.7
BDE 155	<1.6	2.34	<0.65	8.89	<0.76
BDE 154	35.3	33.1	10.8	86.4	12.7
BDE 153	41.6	38.5	<9.8	86.0	12.7
BDE 140	<2.2	<2.5	<1.9	<3.9	<2.5
BDE 138/166	<9.1	<9.3	<3.4	<14	<4.4
BDE 156	<5.2	<5.8	<4.6	<6.1	<5.8
BDE 128	<4.7	<5.2	<4.1	<5.4	<5.2
BDE 184	<0.91	1.35	<0.65	1.73	<1.0
BDE 183	17.6	42.8	<4.1	25.7	<4.2
BDE 191	<2.0	<1.3	<1.4	<2.1	<2.2
BDE 181	<2.1	<1.4	<1.5	<2.2	<2.3
BDE 190	3.26	4.49	<2.1	<3.1	<3.2
PBB 180	<1.8	<1.5	<1.8	<2.6	<2.2
BDE 197	13.6	18.8	4.87	11.9	<3.4
BDE 203	12.7	16.3	3.59	14.7	3.67
BDE 196	10.0	10.2	2.75	<8.5	<3.0
PBB 194	<1.5	<1.3	<1.5	<1.9	<1.8
BDE 208	36.9	30.8	12.8	56.3	15.4
BDE 207	71.0	63.1	26.6	92.6	31.1
BDE 206	79.3	75.8	24.9	119	33.5
PBB 206	<5.5	<6.1	<4.2	<6.1	<9.4
PBB 209	<2.6	<3.0	<2.4	<3.2	<3.2
BDE 209	1040	890	319	3750	674
DBDPE	2110	1540	267	797	493
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L	pg/L	pg/L
Di BDE	0.867	0.510	0.360	6.11	0.737
Tri BDE	13.3	21.7	4.56	40.5	7.34
Tetra BDE	220	522	133	667	159
Penta BDE	493	603	182	873	187
Hexa BDE	78.5	73.9	21.3	185	25.4
Hepta BDE	20.9	48.6	4.10	27.4	4.20
Octa BDE	36.3	45.3	11.2	35.1	10.1
Nona BDE	187	170	64.3	268	80.0
Deca BDE	1040	890	319	3750	674
Total PBDEs	2090	2370	739	5850	1150
Extraction Standards	% Rec	% Rec	% Rec	% Rec	% Rec
13C12 BDE 15	111	74	66	28	59
13C12 BDE 28	140	101	90	63	88
13C6 HBB	111	81	83	127	88
13C12 BDE 47	137	102	98	84	98
13C12 BDE 77	117	97	97	101	100
13C12 BDE 100	104	88	90	92	98
13C12 BDE 99	100	85	87	67	93
13C12 BDE 126	81	71	76	77	84
13C12 BDE 154	58	48	62	40	64
13C12 BDE 153	100	83	86	62	86
13C12 BDE 183	102	80	84	65	86
13C12 BDE 197	105	80	88	84	116
13C12 BDE 207	93	73	79	78	83
13C12 BDE 209	98	71	71	85	76
13C14 DBDPE	100	66	65	82	76
Cleanup Standard					
13C12 BDE 138 Cleanup	89	71	87	42	87

ALS Life Sciences		
Quality Control Summary Report		
Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3684304-1	WG3684304-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	17-Jan-22	17-Jan-22
Target Analytes	pg/L	% Rec
BDE 10	<0.21	18
BDE 7	<0.20	50
BDE 8/11	<0.14	50
BDE 12/13	<0.12	62
BDE 15	<0.11	101
BDE 30	<0.41	50
BDE 32	<0.30	104
BDE 17/25	<0.39	107
BDE 28/33	<0.38	100
BDE 35	<0.25	100
BDE 37	<0.26	100
PBEB	<0.14	88
PBB 52	<0.23	98
HBB	1.26	101
BDE 75	<0.25	93
BDE 51	<0.21	93
BDE 49	<0.32	88
BDE 71	<0.29	93
BDE 47	3.41	101
BDE 79	<0.20	108
BDE 66	<0.34	105
BDE 77	<0.21	100
PBB 101	<0.23	91
BDE 100	<0.67	99
BDE 119/120	<0.33	107
BDE 99	3.70	102
BDE 116	<0.54	72
BDE 83	<0.46	103
BDE 118	<0.39	100
BDE 85	<0.33	95
BDE 126	<0.24	100
BDE 105	<0.38	97
PBB 153	<0.41	97
BDE 155	<0.35	92
BDE 154	<0.40	100
BDE 153	<1.0	101
BDE 140	<0.81	91
BDE 138/166	<1.4	96
BDE 156	<1.9	81
BDE 128	<1.7	89
BDE 184	<0.58	102
BDE 183	<0.85	98
BDE 191	<1.3	96
BDE 181	<1.3	85
BDE 190	<1.8	88
PBB 180	<1.3	100
BDE 197	<0.68	100
BDE 203	<0.97	96
BDE 196	<0.81	100
PBB 194	<0.90	106
BDE 208	<0.54	104
BDE 207	<0.45	101
BDE 206	<0.54	104
PBB 206	<2.9	112
PBB 209	<2.2	111
BDE 209	<8.6	99
DBDPE	<38	99
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	<0.11	
Tri BDE	<0.25	
Tetra BDE	3.41	
Penta BDE	4.37	
Hexa BDE	<0.35	
Hepta BDE	<0.58	
Octa BDE	<0.68	
Nona BDE	<0.45	
Deca BDE	8.60	
Total PBDEs	16.4	
Extraction Standards	% Rec	% Rec
13C12 BDE 15	44	46
13C12 BDE 28	58	65
13C6 HBB	58	66
13C12 BDE 47	67	75
13C12 BDE 77	75	85
13C12 BDE 100	83	85
13C12 BDE 99	82	83
13C12 BDE 126	75	78
13C12 BDE 154	83	91
13C12 BDE 153	80	83
13C12 BDE 183	87	91
13C12 BDE 197	78	81
13C12 BDE 207	77	79
13C12 BDE 209	63	64
13C14 DBDPE	50	57
Cleanup Standard		
13C12 BDE 138 Cleanup	85	92

ALS Life Sciences												
Sample Analysis Report												
Sample Name		WEST VALLEY VIEW (WVV), OF				Sampling Date		3-Jan-22		Approved: K.BERG --e-signature-- 18-Feb-2022		
ALS Sample ID		L2678370-1				Extraction Date		17-Jan-22				
Analysis Method		EPA 1614				Sample Size		1.02				
Analysis Type		Sample				Percent Moisture		n/a				
Sample Matrix		Water				Split Ratio		1				
Run Information		Run 1				Run 2						
Filename		9-220212A08				9-220216A08						
Run Date		12-Feb-22 16:17				16-Feb-22 20:53						
Final Volume		25 uL				25 uL						
Dilution Factor		1				5						
Analysis Units		pg/L				pg/L						
Instrument - Column		HRMS 9 DB5US1752714H				HRMS 9 DB5US1752714H						
Target Analytes		Ret.	Conc.	EDL	EMPC		Ret.	Conc.	EDL	EMPC		
		Time	pg/L	pg/L	Flags	pg/L	LQL	Time	pg/L	pg/L	Flags	pg/L
BDE 12/13		7.00	<0.20	0.065	M,J,R	0.20	49					
BDE 15		7.13	<0.50	0.056	M,J,R	0.50	25					
BDE 30		NotFnd	<0.32	0.32	U		25					
BDE 32		8.35	<0.55	0.23	M,J,R	0.55	25					
BDE 17/25		8.46	1.54	0.30	M,J		49					
BDE 28/33		8.70	5.20	0.30	J		49					
BDE 35		8.83	<5.4	0.20	M,J,R	5.4	25					
BDE 37		9.05	0.561	0.20	J		25					
PBEB		9.07	1.01	0.17	J		25					
PBB 52		NotFnd	<0.28	0.28	U		25					
HBB		10.08	3.43	0.51	J,B		25					
BDE 75		10.13	0.568	0.28	J		25					
BDE 51		10.19	1.49	0.23	J		25					
BDE 49		10.29	15.9	0.36	J		25					
BDE 71		NotFnd	<0.33	0.33	U		25					
BDE 47		10.64	194	0.23			25					
BDE 79								NotFnd	<0.80	0.80	M,U	120
BDE 66		10.94	8.03	0.38	J		25					
BDE 77		NotFnd	<0.27	0.27	U		25					
PBB 101		11.56	<0.75	0.23	M,J,R	0.75	49					
BDE 100		12.31	77.4	0.24	M		37					
BDE 119/120								12.41	2.00	1.0	M,J	180
BDE 99		12.84	395	0.38			37					
BDE 116		NotFnd	<0.89	0.89	U		37					
BDE 83		NotFnd	<0.75	0.75	U		37					
BDE 118		13.26	<1.7	0.63	J,R	1.7	37					
BDE 85		13.74	17.3	0.54	J		37					
BDE 126		NotFnd	<0.42	0.42	U		37					
BDE 105		NotFnd	<0.62	0.62	U		37					
PBB 153								14.13	7.10	1.4	M,J	250
BDE 155		13.92	<1.6	0.71	J,R	1.6	49					
BDE 154								14.18	35.3	2.1	J	250
BDE 153		15.05	41.6	2.0	J		49					
BDE 140		NotFnd	<2.2	2.2	U		49					
BDE 138/166								NotFnd	<9.1	9.1	U	490
BDE 156		NotFnd	<5.2	5.2	U		49					
BDE 128		NotFnd	<4.7	4.7	U		49					
BDE 184		NotFnd	<0.91	0.91	U		61					
BDE 183		17.19	17.6	1.3	M,J		61					
BDE 191		NotFnd	<2.0	2.0	U		61					
BDE 181		NotFnd	<2.1	2.1	U		61					
BDE 190		18.50	3.26	2.9	J		61					
PBB 180		NotFnd	<1.8	1.8	U		49					
BDE 197		19.64	13.6	0.99	J		61					
BDE 203		19.90	12.7	1.4	M,J		61					
BDE 196		20.04	10.0	1.2	J		61					
PBB 194		NotFnd	<1.5	1.5	U		49					
BDE 208		21.33	36.9	1.5	J		120					
BDE 207		21.46	71.0	1.2	J		120					
BDE 206		21.74	79.3	1.5	J		120					
PBB 206		NotFnd	<5.5	5.5	U		120					
PBB 209		NotFnd	<2.6	2.6	U		120					
BDE 209		23.53	1040	3.5			120					
DBDPE		25.05	2110	8.7			250					
Extraction Standards		pg	% Rec		Limits		% Rec					
13C12 BDE 15		1000	7.13	111	25-150		7.19	63				
13C12 BDE 28		1000	8.69	140	25-150		8.72	84				
13C6 HBB		1000	10.07	111	25-150		10.04	72				
13C12 BDE 47		1000	10.62	137	25-150		10.59	90				
13C12 BDE 77		1000	11.41	117	25-150		11.35	89				
13C12 BDE 100		1000	12.31	104	25-150		12.23	86				
13C12 BDE 99		1000	12.82	100	25-150		12.72	81				
13C12 BDE 126		1000	13.92	81	25-150		13.79	75				
13C12 BDE 154		1000	14.29	58	25-150		14.17	62				
13C12 BDE 153		1000	15.04	100	25-150		14.90	83				
13C12 BDE 183		1000	17.18	102	25-150		17.03	85				
13C12 BDE 197		2000	19.64	105	25-150		19.52	76				
13C12 BDE 207		5000	21.46	93	25-150		21.44	94				
13C12 BDE 209		5000	23.52	98	20-200		23.35	66				
13C14 DBDPE		10000	25.05	100	5-200		24.72	67				
Cleanup Standard		pg	% Rec		Limits		% Rec					
13C12 BDE 138 Cleanup		2000	16.00	89	30-135		15.86	85				
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.										
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.										
M		Indicates that a peak has been manually integrated.										
U		Indicates that this compound was not detected above the EDL.										
J		Indicates that a target analyte was detected below the calibrated range.										
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.										
B		Indicates that this target was detected in the blank at greater than 10% of the sample concentration.										
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure										

ALS Life Sciences												
Sample Analysis Report												
Sample Name		NORTH RIDGE TERRACE (NRT), OF					Sampling Date		3-Jan-22		Approved: K.BERG --e-signature-- 18-Feb-2022	
ALS Sample ID		L2678370-2					Extraction Date		17-Jan-22			
Analysis Method		EPA 1614					Sample Size		1.02			
Analysis Type		Sample					Percent Moisture		n/a			
Sample Matrix		Water					Split Ratio		1			
Run Information		Run 1					Run 2					
Filename		9-220212A09					9-220216A09					
Run Date		12-Feb-22 16:53					16-Feb-22 21:29					
Final Volume		25 uL					25 uL					
Dilution Factor		1					5					
Analysis Units		pg/L					pg/L					
Instrument - Column		HRMS 9 DB5US1752714H					HRMS 9 DB5US1752714H					
Target Analytes		Ret.	Conc.	EDL	EMPC		Ret.	Conc.	EDL	EMPC		
		Time	pg/L	pg/L	Flags	pg/L				LQL	pg/L	
	BDE 12/13	7.00	<0.20	0.082	M,J,R	0.20	49					
	BDE 15	7.13	<0.31	0.071	M,J,R	0.31	25					
	BDE 30	NotFnd	<0.24	0.24	U		25					
	BDE 32	8.33	0.262	0.17	J		25					
	BDE 17/25	8.46	4.54	0.22	J		49					
	BDE 28/33	8.70	15.4	0.22	J		49					
	BDE 35	8.85	<0.57	0.15	M,J,R	0.57	25					
	BDE 37	9.05	0.965	0.15	M,J		25					
	PBEB	9.07	0.911	0.18	J		25					
	PBB 52	NotFnd	<0.26	0.26	U		25					
	HBB	10.08	2.97	0.65	M,J,B		25					
	BDE 75	10.13	1.40	0.21	J		25					
	BDE 51	10.19	2.54	0.17	J		25					
	BDE 49	10.29	44.4	0.27			25					
	BDE 71	NotFnd	<0.25	0.25	U		25					
	BDE 47	10.64	440	0.18			25					
	BDE 79							10.75	<0.87	0.75	M,J,R	0.87 120
	BDE 66	10.94	32.2	0.28			25					
	BDE 77	11.42	<0.35	0.19	M,J,R	0.35	25					
	PBB 101	11.56	<0.30	0.20	M,J,R	0.30	49					
	BDE 100	12.31	113	0.23			37					
	BDE 119/120							12.39	2.47	1.9	M,J	180
	BDE 99	12.82	465	0.38			37					
	BDE 116	NotFnd	<0.86	0.86	U		37					
	BDE 83	NotFnd	<0.73	0.73	U		37					
	BDE 118	13.25	5.15	0.61	J		37					
	BDE 85	13.73	17.6	0.53	J		37					
	BDE 126	NotFnd	<0.39	0.39	U		37					
	BDE 105	NotFnd	<0.60	0.60	U		37					
	PBB 153	14.24	<4.7	0.94	J,R	4.7	49					
	BDE 155	13.89	2.34	0.68	J		49					
	BDE 154							14.17	33.1	2.1	J	250
	BDE 153	15.04	38.5	2.2	J		49					
	BDE 140	15.49	<2.5	2.5	U	1.8	49					
	BDE 138/166							NotFnd	<9.3	9.3	U	490
	BDE 156	NotFnd	<5.8	5.8	U		49					
	BDE 128	NotFnd	<5.2	5.2	U		49					
	BDE 184	16.80	1.35	0.59	M,J		61					
	BDE 183	17.18	42.8	0.87	J		61					
	BDE 191	NotFnd	<1.3	1.3	U		61					
	BDE 181	NotFnd	<1.4	1.4	U		61					
	BDE 190	18.48	4.49	1.9	M,J		61					
	PBB 180	NotFnd	<1.5	1.5	U		49					
	BDE 197	19.63	18.8	0.78	J		61					
	BDE 203	19.90	16.3	1.1	J		61					
	BDE 196	20.02	10.2	0.93	M,J		61					
	PBB 194	NotFnd	<1.3	1.3	U		49					
	BDE 208	21.33	30.8	2.3	M,J		120					
	BDE 207	21.46	63.1	1.9	J		120					
	BDE 206	21.74	75.8	2.3	J		120					
	PBB 206	NotFnd	<6.1	6.1	U		120					
	PBB 209	NotFnd	<3.0	3.0	U		120					
	BDE 209	23.52	890	3.3			120					
	DBDPE	25.03	1540	9.1			250					
Extraction Standards		pg	% Rec		Limits		% Rec					
	13C12 BDE 15	1000	7.13	74	25-150		7.18	56				
	13C12 BDE 28	1000	8.69	101	25-150		8.72	79				
	13C6 HBB	1000	10.08	81	25-150		10.03	65				
	13C12 BDE 47	1000	10.62	102	25-150		10.59	87				
	13C12 BDE 77	1000	11.41	97	25-150		11.33	84				
	13C12 BDE 100	1000	12.30	88	25-150		12.22	89				
	13C12 BDE 99	1000	12.82	85	25-150		12.71	82				
	13C12 BDE 126	1000	13.91	71	25-150		13.78	72				
	13C12 BDE 154	1000	14.28	48	25-150		14.15	62				
	13C12 BDE 153	1000	15.03	83	25-150		14.89	78				
	13C12 BDE 183	1000	17.17	80	25-150		17.02	87				
	13C12 BDE 197	2000	19.63	80	25-150		19.51	74				
	13C12 BDE 207	5000	21.45	73	25-150		21.43	84				
	13C12 BDE 209	5000	23.51	71	20-200		23.33	65				
	13C14 DBDPE	10000	25.03	66	5-200		24.71	69				
Cleanup Standard		pg	% Rec		Limits		% Rec					
	13C12 BDE 138 Cleanup	2000	15.98	71	30-135		15.84	79				
	EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.										
	LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.										
	M	Indicates that a peak has been manually integrated.										
	U	Indicates that this compound was not detected above the EDL.										
	J	Indicates that a target analyte was detected below the calibrated range.										
	R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.										
	B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.										
	EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure										

ALS Life Sciences												
Sample Analysis Report												
Sample Name		COLVER RD, OF				Sampling Date		3-Jan-22		Approved: K.BERG --e-signature-- 18-Feb-2022		
ALS Sample ID		L2678370-3				Extraction Date		17-Jan-22				
Analysis Method		EPA 1614				Sample Size		1.02				
Analysis Type		Sample				Percent Moisture		n/a				
Sample Matrix		Water				Split Ratio		1				
Run Information		Run 1					Run 2					
Filename		9-220212A10					9-220217A21					
Run Date		12-Feb-22 17:30					18-Feb-22 00:42					
Final Volume		25 uL					25 uL					
Dilution Factor		1					5					
Analysis Units		pg/L					pg/L					
Instrument - Column		HRMS 9 DB5US1752714H					HRMS 9 DB5US1752714H					
Target Analytes		Ret.	Conc.	EDL	EMPC		Ret.	Conc.	EDL	EMPC		
		Time	pg/L	pg/L	Flags	pg/L				LQL	pg/L	LQL
BDE 12/13		NotFnd	<0.11	0.11		U						
BDE 15		7.15	<0.36	0.095		J,R	0.36					
BDE 30		NotFnd	<0.43	0.43		U						
BDE 32		NotFnd	<0.31	0.31		U						
BDE 17/25		8.47	0.956	0.40		M,J						
BDE 28/33		8.72	2.65	0.40		M,J						
BDE 35		8.84	<0.59	0.27		M,J,R	0.59					
BDE 37		9.06	0.365	0.27		M,J						
PBEB		9.07	0.478	0.17		M,J						
PBB 52		NotFnd	<0.27	0.27		U						
HBB		10.08	<2.0	0.71		M,J,R	2.0					
BDE 75		NotFnd	<0.26	0.26		U						
BDE 51		10.19	<0.40	0.22		J,R	0.40					
BDE 49		10.29	<5.8	0.34		J,R	5.8					
BDE 71		NotFnd	<0.31	0.31		U						
BDE 47		10.64	122	0.23								
BDE 79								NotFnd	<1.0	1.0	U	120
BDE 66		10.92	4.83	0.36		J						
BDE 77		NotFnd	<0.24	0.24		U						
PBB 101		NotFnd	<0.29	0.29		U						
BDE 100		12.30	32.0	0.26		J						
BDE 119/120								NotFnd	<1.7	1.7	U	180
BDE 99		12.81	144	0.41								
BDE 116		NotFnd	<0.93	0.93		U						
BDE 83		NotFnd	<0.79	0.79		U						
BDE 118		NotFnd	<0.67	0.67		U						
BDE 85		13.72	5.54	0.57		J						
BDE 126		NotFnd	<0.42	0.42		U						
BDE 105		NotFnd	<0.65	0.65		U						
PBB 153		14.23	<1.2	0.72		M,J,R	1.2					
BDE 155		13.87	<0.65	0.53		J,R	0.65					
BDE 154								14.17	10.8	2.0	J	250
BDE 153		15.02	<9.8	1.9		J,R	9.8					
BDE 140		NotFnd	<1.9	1.9		U						
BDE 138/166		NotFnd	<3.4	3.4		U						
BDE 156		NotFnd	<4.6	4.6		U						
BDE 128		NotFnd	<4.1	4.1		U						
BDE 184		NotFnd	<0.65	0.65		U						
BDE 183		17.17	<4.1	0.95		J,R	4.1					
BDE 191		NotFnd	<1.4	1.4		U						
BDE 181		NotFnd	<1.5	1.5		U						
BDE 190		NotFnd	<2.1	2.1		U						
PBB 180		NotFnd	<1.8	1.8		U						
BDE 197		19.63	4.87	0.82		J						
BDE 203		19.88	3.59	1.2		M,J						
BDE 196		20.02	2.75	0.98		M,J						
PBB 194		NotFnd	<1.5	1.5		U						
BDE 208		21.33	12.8	1.5		M,J						120
BDE 207		21.45	26.6	1.3		J						120
BDE 206		21.74	24.9	1.5		J						120
PBB 206		NotFnd	<4.2	4.2		U						120
PBB 209		NotFnd	<2.4	2.4		U						120
BDE 209		23.52	319	3.4								120
DBDPE		25.02	267	11								250
Extraction Standards		pg	% Rec		Limits	% Rec						
13C12 BDE 15		1000	7.14	66	25-150	7.19	52					
13C12 BDE 28		1000	8.70	90	25-150	8.72	70					
13C6 HBB		1000	10.08	83	25-150	10.04	59					
13C12 BDE 47		1000	10.62	98	25-150	10.59	79					
13C12 BDE 77		1000	11.41	97	25-150	11.35	76					
13C12 BDE 100		1000	12.29	90	25-150	12.23	83					
13C12 BDE 99		1000	12.80	87	25-150	12.73	79					
13C12 BDE 126		1000	13.88	76	25-150	13.79	69					
13C12 BDE 154		1000	14.25	62	25-150	14.17	65					
13C12 BDE 153		1000	15.01	86	25-150	14.90	79					
13C12 BDE 183		1000	17.15	84	25-150	17.03	87					
13C12 BDE 197		2000	19.62	88	25-150	19.52	75					
13C12 BDE 207		5000	21.45	79	25-150	21.44	84					
13C12 BDE 209		5000	23.51	71	20-200	23.36	64					
13C14 DBDPE		10000	25.01	65	5-200	24.74	56					
Cleanup Standard		pg	% Rec		Limits	% Rec						
13C12 BDE 138 Cleanup		2000	15.96	87	30-135	15.85	75					
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.										
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.										
M		Indicates that a peak has been manually integrated.										
U		Indicates that this compound was not detected above the EDL.										
J		Indicates that a target analyte was detected below the calibrated range.										
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.										
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure										

ALS Life Sciences													
Sample Analysis Report													
Sample Name		BEAR CK US CELLULAR					Sampling Date		3-Jan-22		Approved: K.BERG --e-signature-- 18-Feb-2022		
ALS Sample ID		L2678370-4					Extraction Date		17-Jan-22				
Analysis Method		EPA 1614					Sample Size		1.02 L				
Analysis Type		Sample					Percent Moisture		n/a				
Sample Matrix		Water					Split Ratio		1				
Run Information		Run 1					Run 2						
Filename		9-220212A11					9-220216A10						
Run Date		12-Feb-22 18:06					16-Feb-22 22:06						
Final Volume		25 uL					25 uL						
Dilution Factor		1					5						
Analysis Units		pg/L					pg/L						
Instrument - Column		HRMS 9 DB5US1752714H					HRMS 9 DB5US1752714H						
Target Analytes		Ret.	Conc.	EDL	EMPC		Ret.	Conc.	EDL	EMPC			
		Time	pg/L	pg/L	Flags	pg/L				LQL	pg/L	LQL	
BDE 12/13		7.01	<1.0	0.41	J,R	1.0	49						
BDE 15		7.16	5.11	0.35	J		25						
BDE 30		NotFnd	<0.39	0.39	U		25						
BDE 32		NotFnd	<0.28	0.28	U		25						
BDE 17/25		8.46	8.18	0.37	J		49						
BDE 28/33		8.70	27.1	0.36	J		49						
BDE 35		8.84	<2.9	0.24	M,J,R	2.9	25						
BDE 37		9.05	2.32	0.24	J		25						
PBEB		9.07	2.95	0.10	J		25						
PBB 52		NotFnd	<0.18	0.18	U		25						
HBB		10.08	2.15	0.52	J,B		25						
BDE 75		10.13	3.35	0.34	J		25						
BDE 51		10.19	<1.9	0.28	J,R	1.9	25						
BDE 49		10.29	32.3	0.44			25						
BDE 71		NotFnd	<0.41	0.41	U		25						
BDE 47		10.64	608	0.33			25						
BDE 79								NotFnd	<1.6	1.6	U	120	
BDE 66		10.94	21.6	0.47	J		25						
BDE 77		11.42	<0.34	0.29	J,R	0.34	25						
PBB 101								NotFnd	<2.0	2.0	U	250	
BDE 100		12.30	177	0.22			37						
BDE 119/120								12.38	<4.6	2.1	M,J,R	4.6 180	
BDE 99		12.84	672	0.51			37						
BDE 116		NotFnd	<0.87	0.87	U		37						
BDE 83		NotFnd	<0.74	0.74	U		37						
BDE 118		13.25	<3.0	0.62	J,R	3.0	37						
BDE 85		13.74	15.6	0.53	J		37						
BDE 126		13.91	<0.35	0.34	M,J,R	0.35	37						
BDE 105		NotFnd	<0.61	0.61	U		37						
PBB 153		14.24	11.9	1.2	J		49						
BDE 155		13.91	8.89	0.81	J		49						
BDE 154								14.15	86.4	3.3	J	250	
BDE 153		15.05	86.0	2.6			49						
BDE 140		15.51	<3.9	2.6	J,R	3.9	49						
BDE 138/166								NotFnd	<14	14	U	490	
BDE 156		NotFnd	<6.1	6.1	U		49						
BDE 128		NotFnd	<5.4	5.4	U		49						
BDE 184		16.81	1.73	0.97	J		61						
BDE 183		17.17	25.7	1.4	J		61						
BDE 191		NotFnd	<2.1	2.1	U		61						
BDE 181		NotFnd	<2.2	2.2	U		61						
BDE 190		NotFnd	<3.1	3.1	U		61						
PBB 180		17.29	<2.6	2.4	M,J,R	2.6	49						
BDE 197		19.63	11.9	1.4	J		61						
BDE 203		19.88	14.7	1.9	J		61						
BDE 196		20.01	<8.5	1.6	M,J,R	8.5	61						
PBB 194		NotFnd	<1.9	1.9	U		49						
BDE 208		21.32	56.3	2.3	J		120						
BDE 207		21.45	92.6	2.0	J		120						
BDE 206		21.73	119	2.3	J		120						
PBB 206		NotFnd	<6.1	6.1	U		120						
PBB 209		NotFnd	<3.2	3.2	U		120						
BDE 209		23.52	3750	3.7			120						
DBDPE		25.03	797	11			250						
Extraction Standards		pg	% Rec		Limits		% Rec						
13C12 BDE 15		1000	7.15	28	25-150		7.18	18					
13C12 BDE 28		1000	8.69	63	25-150		8.70	38					
13C6 HBB		1000	10.08	127	25-150		10.02	70					
13C12 BDE 47		1000	10.62	84	25-150		10.58	52					
13C12 BDE 77		1000	11.41	101	25-150		11.33	65					
13C12 BDE 100		1000	12.29	92	25-150		12.20	76					
13C12 BDE 99		1000	12.82	67	25-150		12.71	57					
13C12 BDE 126		1000	13.91	77	25-150		13.77	66					
13C12 BDE 154		1000	14.27	40	25-150		14.14	52					
13C12 BDE 153		1000	15.05	62	25-150		14.89	63					
13C12 BDE 183		1000	17.17	65	25-150		17.02	71					
13C12 BDE 197		2000	19.62	84	25-150		19.51	78					
13C12 BDE 207		5000	21.45	78	25-150		21.43	98					
13C12 BDE 209		5000	23.51	85	20-200		23.33	76					
13C14 DBDPE		10000	25.02	82	5-200		24.70	66					
Cleanup Standard		pg	% Rec		Limits		% Rec						
13C12 BDE 138 Cleanup		2000	15.98	42	30-135		15.84	46					
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.											
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.											
M		Indicates that a peak has been manually integrated.											
U		Indicates that this compound was not detected above the EDL.											
J		Indicates that a target analyte was detected below the calibrated range.											
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.											
B		Indicates that this target was detected in the blank at greater than 10% of the sample concentration.											
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure											

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Sample Analysis Report

Sample Name	BEAR CK OAK ST.	Sampling Date	3-Jan-22	Approved: <i>K.BERG</i> --e-signature-- 18-Feb-2022
ALS Sample ID	L2678370-5	Extraction Date	17-Jan-22	
Analysis Method	EPA 1614	Sample Size	0.885	
Analysis Type	Sample	Percent Moisture	n/a	
Sample Matrix	Water	Split Ratio	1	

Run Information	Run 1	Run 2
Filename	9-220212A12	9-220217A22
Run Date	00-Jan-00 00:00	18-Feb-22 01:18
Final Volume	25 uL	25 uL
Dilution Factor	1	5
Analysis Units	pg/L	pg/L
Instrument - Column	HRMS 9 DB5US1752714H	HRMS 9 DB5US1752714H

Target Analytes	Ret.	Conc.	EDL	EMPC			Ret.	Conc.	EDL	EMPC		
	Time	pg/L	pg/L	Flags	pg/L	LQL			pg/L	Flags	pg/L	
BDE 12/13	NotFnd	<0.11	0.11		U							
BDE 15	7.13	0.737	0.095		M,J							
BDE 30	NotFnd	<0.31	0.31		U							
BDE 32	NotFnd	<0.23	0.23		U							
BDE 17/25	8.46	1.88	0.30		J							
BDE 28/33	8.70	4.36	0.29		J							
BDE 35	8.84	<1.1	0.20	M,J,R	1.1							
BDE 37	9.04	<0.20	0.20	M,U	0.19							
PBEB	9.06	1.14	0.17		J							
PBB 52	NotFnd	<0.27	0.27		U							
HBB	10.07	3.33	0.89		J,B							
BDE 75	NotFnd	<0.32	0.32		U							
BDE 51	10.18	<0.43	0.27	J,R	0.43							
BDE 49	10.28	8.80	0.41		J							
BDE 71	NotFnd	<0.38	0.38		U							
BDE 47	10.62	146	0.29									
BDE 79							NotFnd	<1.1	1.1	U		140
BDE 66	10.91	4.14	0.44		J							
BDE 77	NotFnd	<0.28	0.28		U							
PBB 101	11.54	0.315	0.27		M,J							
BDE 100	12.29	33.7	0.21		J							
BDE 119/120							NotFnd	<1.6	1.6	U		210
BDE 99	12.80	148	0.36									
BDE 116	NotFnd	<0.78	0.78		U							
BDE 83	NotFnd	<0.66	0.66		U							
BDE 118	NotFnd	<0.56	0.56		U							
BDE 85	13.71	5.56	0.48		J							
BDE 126	NotFnd	<0.34	0.34		U							
BDE 105	NotFnd	<0.55	0.55		U							
PBB 153	14.20	<1.7	0.97	J,R	1.7							
BDE 155	NotFnd	<0.76	0.76		U							
BDE 154							14.17	12.7	1.9	M,J		280
BDE 153	15.01	12.7	2.5		J							
BDE 140	NotFnd	<2.5	2.5		U							
BDE 138/166	NotFnd	<4.4	4.4		U	110						
BDE 156	NotFnd	<5.8	5.8		U							
BDE 128	NotFnd	<5.2	5.2		U							
BDE 184	NotFnd	<1.0	1.0		U							
BDE 183	17.15	<4.2	1.5	J,R	4.2							
BDE 191	NotFnd	<2.2	2.2		U							
BDE 181	NotFnd	<2.3	2.3		U							
BDE 190	NotFnd	<3.2	3.2		U							
PBB 180	NotFnd	<2.2	2.2		U							
BDE 197	19.62	<3.4	0.94	M,J,R	3.4							
BDE 203	19.87	3.67	1.3		M,J							
BDE 196	20.00	<3.0	1.1	M,J,R	3.0							
PBB 194	NotFnd	<1.8	1.8		U							
BDE 208	21.32	15.4	2.4		J	140						
BDE 207	21.44	31.1	2.0		J	140						
BDE 206	21.73	33.5	2.4		M,J	140						
PBB 206	NotFnd	<9.4	9.4		U	140						
PBB 209	NotFnd	<3.2	3.2		U	140						
BDE 209	23.50	674	4.0			140						
DBDPE	25.01	493	13			280						

Extraction Standards		pg	% Rec		% Rec		
				Limits			
	13C12 BDE 15	1000	7.13	59 25-150	7.19	46	
	13C12 BDE 28	1000	8.69	88 25-150	8.73	69	
	13C6 HBB	1000	10.07	88 25-150	10.16	17	R
	13C12 BDE 47	1000	10.61	98 25-150	10.60	76	
	13C12 BDE 77	1000	11.40	100 25-150	11.35	78	
	13C12 BDE 100	1000	12.28	98 25-150	12.23	90	
	13C12 BDE 99	1000	12.79	93 25-150	12.72	85	
	13C12 BDE 126	1000	13.87	84 25-150	13.79	75	
	13C12 BDE 154	1000	14.24	64 25-150	14.17	71	
	13C12 BDE 153	1000	14.99	86 25-150	14.90	83	
	13C12 BDE 183	1000	17.13	86 25-150	17.03	86	
	13C12 BDE 197	2000	19.61	116 25-150	19.53	90	
	13C12 BDE 207	5000	21.44	83 25-150	21.45	84	
	13C12 BDE 209	5000	23.50	76 20-200	23.36	68	
	13C14 DBDPE	10000	25.00	76 5-200	24.75	58	

Cleanup Standard	pg
13C12 BDE 138 Cleanup	2000
	15.95
	87 30-135
	15.85
	82

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences										
Laboratory Method Blank Analysis Report										
Sample Name		Method Blank		Sampling Date		n/a		Approved: K.BERG --e-signature-- 18-Feb-2022		
ALS Sample ID		WG3684304-1		Extraction Date		17-Jan-22				
Analysis Method		EPA 1614		Sample Size		1.00				
Analysis Type		Blank		Percent Moisture		n/a				
Sample Matrix		QC		Split Ratio		1				
Run Information		Run 1								
Filename		9-220212A06								
Run Date		12-Feb-22 15:04								
Final Volume		25 uL								
Dilution Factor		1								
Analysis Units		pg/L								
Instrument - Column		HRMS 9 DB5US1752714H								
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL			
BDE 10		NotFnd	<0.21	0.21	U		25			
BDE 7		NotFnd	<0.20	0.20	U		25			
BDE 8/11		NotFnd	<0.14	0.14	U		50			
BDE 12/13		NotFnd	<0.12	0.12	U		50			
BDE 15		NotFnd	<0.11	0.11	U		25			
BDE 30		NotFnd	<0.41	0.41	U		25			
BDE 32		NotFnd	<0.30	0.30	U		25			
BDE 17/25		NotFnd	<0.39	0.39	U		50			
BDE 28/33		NotFnd	<0.38	0.38	U		50			
BDE 35		NotFnd	<0.25	0.25	U		25			
BDE 37		NotFnd	<0.26	0.26	U		25			
PBEB		NotFnd	<0.14	0.14	U		25			
PBB 52		NotFnd	<0.23	0.23	U		25			
HBB		10.07	1.26	0.33	J		25			
BDE 75		NotFnd	<0.25	0.25	U		25			
BDE 51		NotFnd	<0.21	0.21	U		25			
BDE 49		NotFnd	<0.32	0.32	U		25			
BDE 71		NotFnd	<0.29	0.29	U		25			
BDE 47		10.62	3.41	0.23	J		25			
BDE 79		NotFnd	<0.20	0.20	U		25			
BDE 66		NotFnd	<0.34	0.34	U		25			
BDE 77		NotFnd	<0.21	0.21	U		25			
PBB 101		NotFnd	<0.23	0.23	U		50			
BDE 100		12.29	<0.67	0.15	J,R	0.67	38			
BDE 119/120		NotFnd	<0.33	0.33	U		38			
BDE 99		12.80	3.70	0.24	J		38			
BDE 116		NotFnd	<0.54	0.54	U		38			
BDE 83		NotFnd	<0.46	0.46	U		38			
BDE 118		NotFnd	<0.39	0.39	U		38			
BDE 85		NotFnd	<0.33	0.33	U		38			
BDE 126		NotFnd	<0.24	0.24	U		38			
BDE 105		NotFnd	<0.38	0.38	U		38			
PBB 153		NotFnd	<0.41	0.41	U		50			
BDE 155		NotFnd	<0.35	0.35	U		50			
BDE 154		NotFnd	<0.40	0.40	U		50			
BDE 153		NotFnd	<1.0	1.0	U		50			
BDE 140		NotFnd	<0.81	0.81	U		50			
BDE 138/166		NotFnd	<1.4	1.4	U		100			
BDE 156		NotFnd	<1.9	1.9	U		50			
BDE 128		NotFnd	<1.7	1.7	U		50			
BDE 184		NotFnd	<0.58	0.58	U		63			
BDE 183		NotFnd	<0.85	0.85	U		63			
BDE 191		NotFnd	<1.3	1.3	U		63			
BDE 181		NotFnd	<1.3	1.3	U		63			
BDE 190		NotFnd	<1.8	1.8	U		63			
PBB 180		NotFnd	<1.3	1.3	U		50			
BDE 197		NotFnd	<0.68	0.68	U		63			
BDE 203		NotFnd	<0.97	0.97	U		63			
BDE 196		NotFnd	<0.81	0.81	U		63			
PBB 194		NotFnd	<0.90	0.90	U		50			
BDE 208		NotFnd	<0.54	0.54	U		130			
BDE 207		NotFnd	<0.45	0.45	U		130			
BDE 206		NotFnd	<0.54	0.54	U		130			
PBB 206		NotFnd	<2.9	2.9	U		130			
PBB 209		NotFnd	<2.2	2.2	U		130			
BDE 209		23.50	<8.6	2.4	J,R	8.6	130			
DBDPE		25.00	<38	8.8	M,J,R	38	250			
Extraction Standards		pg	% Rec	Limits						
13C12 BDE 15		1000	7.13	44	25-150					
13C12 BDE 28		1000	8.70	58	25-150					
13C6 HBB		1000	10.07	58	25-150					
13C12 BDE 47		1000	10.61	67	25-150					
13C12 BDE 77		1000	11.40	75	25-150					
13C12 BDE 100		1000	12.28	83	25-150					
13C12 BDE 99		1000	12.79	82	25-150					
13C12 BDE 126		1000	13.86	75	25-150					
13C12 BDE 154		1000	14.24	83	25-150					
13C12 BDE 153		1000	14.98	80	25-150					
13C12 BDE 183		1000	17.12	87	25-150					
13C12 BDE 197		2000	19.61	78	25-150					
13C12 BDE 207		5000	21.44	77	25-150					
13C12 BDE 209		5000	23.49	63	20-200					
13C14 DBDPE		10000	24.99	50	5-200					
Cleanup Standard		pg								
13C12 BDE 138 Cleanup		2000	15.94	85	30-135					
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.								
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.								
M		Indicates that a peak has been manually integrated.								
U		Indicates that this compound was not detected above the EDL.								
J		Indicates that a target analyte was detected below the calibrated range.								
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.								
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure								

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name

ALS Sample ID

Analysis Method

Analysis Type

Sample Matrix

Laboratory Control Sample

WG3684304-2

EPA 1614

LCS

QC

Sampling Date

Extraction Date

Sample Size

Percent Moisture

Split Ratio

n/a

17-Jan-22

1

n/a

1

n/a

Approved:

K.BERG

--e-signature--

18-Feb-2022

Run Information

Run 1

Filename

Run Date

Final Volume

Dilution Factor

Analysis Units

Instrument - Column

9-220212A02

12-Feb-22 12:38

25 uL

1

%

HRMS 9 DB5US1752714H

Target Analytes	pg	Ret. Time	% Rec	Limits	Flags
BDE 10	400	6.33	18	5-130	
BDE 7	400	6.71	50	5-130	
BDE 8/11	800	6.89	50	50-150	
BDE 12/13	800	7.00	62	5-130	
BDE 15	400	7.13	101	50-150	
BDE 30	400	7.84	50	5-130	
BDE 32	400	8.29	104	50-150	
BDE 17/25	800	8.47	107	50-150	
BDE 28/33	800	8.69	100	50-150	
BDE 35	400	8.85	100	50-150	
BDE 37	400	9.05	100	50-150	
PBEB	400	9.06	88	50-150	
PBB 52	400	9.16	98	50-150	
HBB	400	10.07	101	50-150	
BDE 75	400	10.12	93	50-150	
BDE 51	400	10.18	93	50-150	
BDE 49	400	10.29	88	50-150	
BDE 71	400	10.35	93	50-150	
BDE 47	400	10.62	101	50-150	
BDE 79	400	10.79	108	50-150	
BDE 66	400	10.91	105	50-150	
BDE 77	400	11.40	100	50-150	
PBB 101	800	11.53	91	50-150	
BDE 100	600	12.29	99	50-150	
BDE 119/120	1200	12.46	107	50-150	
BDE 99	600	12.80	102	50-150	
BDE 116	600	12.96	72	40-140	
BDE 83	600	13.09	103	50-150	
BDE 118	600	13.21	100	50-150	
BDE 85	600	13.69	95	50-150	
BDE 126	600	13.87	100	50-150	
BDE 105	600	14.03	97	50-150	
PBB 153	800	14.20	97	50-150	
BDE 155	800	13.87	92	50-150	
BDE 154	800	14.24	100	50-150	
BDE 153	800	14.99	101	50-150	
BDE 140	800	15.45	91	50-150	
BDE 138/166	1600	15.95	96	50-150	
BDE 156	800	16.33	81	50-150	
BDE 128	800	16.96	89	50-150	
BDE 184	1000	16.76	102	50-150	
BDE 183	1000	17.13	98	50-150	
BDE 191	1000	17.69	96	50-150	
BDE 181	1000	18.24	85	50-150	
BDE 190	1000	18.41	88	50-150	
PBB 180	800	17.24	100	50-150	
BDE 197	1000	19.61	100	50-150	
BDE 203	1000	19.87	96	50-150	
BDE 196	1000	20.00	100	50-150	
PBB 194	800	20.06	106	50-150	
BDE 208	2000	21.31	104	50-150	
BDE 207	2000	21.44	101	50-150	
BDE 206	2000	21.72	104	50-150	
PBB 206	2000	21.15	112	40-200	
PBB 209	2000	22.10	111	40-200	
BDE 209	2000	23.50	99	40-200	
DBDPE	4000	25.01	99	40-200	

Extraction Standards	pg	% Rec	Limits
13C12 BDE 15	1000	7.13	46 25-150
13C12 BDE 28	1000	8.69	65 30-140
13C6 HBB	1000	10.07	66 30-140
13C12 BDE 47	1000	10.61	75 30-140
13C12 BDE 77	1000	11.38	85 30-140
13C12 BDE 100	1000	12.28	85 30-140
13C12 BDE 99	1000	12.79	83 30-140
13C12 BDE 126	1000	13.87	78 30-140
13C12 BDE 154	1000	14.24	91 30-140
13C12 BDE 153	1000	14.98	83 30-140
13C12 BDE 183	1000	17.12	91 30-140
13C12 BDE 197	2000	19.59	81 30-140
13C12 BDE 207	5000	21.44	79 30-140
13C12 BDE 209	5000	23.50	64 20-200
13C14 DBDPE	10000	25.00	57 5-200

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	15.94	92 40-125



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

NELAP Certification Number: CA00046 (HW)
State Certification Number: CA1312 (WW & DW)

January 20, 2022

RVCOG
155 N. First St.
Central Point, Oregon 97502

Attn: Greg Stabach

Subject: Report of Data: Case 98591

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Patton,

Five water samples were received on January 5, 2022. Revised written results are being provided on this January 20, 2022, for the requested analysis. All holding times were met.

For the EPA 8290 and PFAS analyses, the samples were prepared according to the method.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

for

Loren Portwood, Laboratory Director
APPL, Inc.

LP/g
Enclosure
cc: File

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: WVV

Sample Collection Date: 1/3/2022

APPL ID: BA48262

QCG: \$829ADOD5-220110-2726

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	85 J	125.0	85PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	43 J	125.0	43PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	3.6 U	125.0	3.6PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	1.9 U	125.0	1.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	1.1 U	125.0	1.1PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	3.4 U	125.0	3.4PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	2.1 U	125.0	2.1PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	2.3 U	125.0	2.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDD	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDF	2.2 U	125.0	2.2DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	24 U	125.0	24PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,7,8-PECDF	2.3 U	125.0	2.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDD	3.8 U	50.0	3.8DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDF	0.89 U	50.0	0.89DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDD	630	250.0	630PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDF	120 J	250.0	120PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	TEQ	1.5	NA			1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	71.0	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	70.7	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	83.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	84.8	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	90.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	90.0	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	75.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	74.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	60.4	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
Run #: 220114_HR_12
Instrument: MAGNETO
Sequence: 220114
Dilution Factor: 1
Initials: RP

Printed: 1/17/2022 2:14:35 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: NRT

Sample Collection Date: 1/3/2022

APPL ID: BA48263

QCG: \$829ADOD5-220110-2726

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	12 U	125.0	12PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	3.5 U	125.0	3.5PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	2.0 U	125.0	2.0DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	2.6 U	125.0	2.6DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	2.4 U	125.0	2.4DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	2.6 U	125.0	2.6DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	2.4 U	125.0	2.4DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	2.5 U	125.0	2.5DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	2.9 U	125.0	2.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDD	2.0 U	125.0	2.0DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDF	1.6 U	125.0	1.6DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	2.2 U	125.0	2.2DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,7,8-PECDF	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDD	3.8 U	50.0	3.8DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDF	1.3 U	50.0	1.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDD	75 J	250.0	75PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDF	11 U	250.0	11PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	TEQ	0.023	NA			1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	74.7	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	71.3	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	89.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	91.3	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	112	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	102	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	84.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	82.0	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	65.5	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
Run #: 220114_HR_13
Instrument: MAGNETO
Sequence: 220114
Dilution Factor: 1
Initials: RP

Printed: 1/17/2022 2:14:35 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: COLVER RD

Sample Collection Date: 1/3/2022

APPL ID: BA48264

QCG: \$829ADOD5-220110-2726

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	28 J	125.0	28PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	2.1 U	125.0	2.1DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	2.9 U	125.0	2.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	2.3 U	125.0	2.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	2.9 U	125.0	2.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	3.4 U	125.0	3.4PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	1.6 U	125.0	1.6PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	2.2 U	125.0	2.2DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	3.5 U	125.0	3.5DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDD	3.4 U	125.0	3.4PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDF	2.4 U	125.0	2.4DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	2.9 U	125.0	2.9PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,7,8-PECDF	2.5 U	125.0	2.5DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDD	4.9 U	50.0	4.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDF	1.3 U	50.0	1.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDD	200 J	250.0	200PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDF	55 J	250.0	55PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	TEQ	0.36	NA			1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	78.8	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	77.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	83.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	84.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	76.2	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	83.0	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	73.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	79.7	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	66.7	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
Run #: 220114_HR_14
Instrument: MAGNETO
Sequence: 220114
Dilution Factor: 1
Initials: RP

Printed: 1/17/2022 2:14:35 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: BEAR CREEK OAK ST.

Sample Collection Date: 1/3/2022

APPL ID: BA48265

QCG: \$829ADOD5-220110-2726

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	26 J	125.0	26PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	9.3 J	125.0	9.3PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	1.6 U	125.0	1.6DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	0.97 U	125.0	0.97PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	1.4 U	125.0	1.4DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	0.80 U	125.0	0.80PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	1.4 U	125.0	1.4DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	1.0 U	125.0	1.0PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDD	1.8 U	125.0	1.8DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDF	1.8 U	125.0	1.8DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	4.8 U	125.0	4.8PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,7,8-PECDF	1.9 U	125.0	1.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDD	3.2 U	50.0	3.2DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDF	0.71 U	50.0	0.71DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDD	200 J	250.0	200PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDF	27 U	250.0	27PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	TEQ	0.41	NA			1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	86.3	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	83.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	95.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	90.8	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	102	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	104	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	82.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	87.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	83.1	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
Run #: 220114_HR_15
Instrument: MAGNETO
Sequence: 220114
Dilution Factor: 1
Initials: RP

Printed: 1/17/2022 2:14:35 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: BEAR CREEK US CELLULAR

Sample Collection Date: 1/3/2022

APPL ID: BA48266

QCG: \$829ADOD5-220110-2726

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	31 J	125.0	31PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	7.8 J	125.0	7.8PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	2.7 U	125.0	2.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	2.0 U	125.0	2.0PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	2.7 U	125.0	2.7PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	1.3 U	125.0	1.3PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	3.3 U	125.0	3.3PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	2.1 U	125.0	2.1DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDD	1.9 U	125.0	1.9DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	1,2,3,7,8-PECDF	2.3 U	125.0	2.3DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	9.3 U	125.0	9.3PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,4,7,8-PECDF	3.2 U	125.0	3.2PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDD	4.7 U	50.0	4.7DL	pg/L	1/10/2022	1/15/2022
EPA 8290A	2,3,7,8-TCDF	3.0 U	50.0	3.0PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDD	230 J	250.0	230PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	OCDF	24 U	250.0	24PC	pg/L	1/10/2022	1/15/2022
EPA 8290A	TEQ	0.46	NA			1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	79.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	80.4	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	83.6	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	86.0	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	86.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	87.1	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	72.5	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	77.9	40-135		%	1/10/2022	1/15/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	70.1	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
Run #: 220114_HR_16
Instrument: MAGNETO
Sequence: 220114
Dilution Factor: 1
Initials: RP

Printed: 1/17/2022 2:14:35 PM
Form 1 - APPL Standard GC - No MC

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: WVV

Sample Collection Date: 01/03/22

APPL ID: BA48262

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
B-15	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	01/10/22	01/12/22
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	PFBA	3.3 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFBS	4.2 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDOA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHPA	1.4 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
B-15	PFHXA	3.4 J	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHXS	0.46 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
B-15	PFOA	2.8 J	5.0	0.41	ng/L	01/10/22	01/12/22
B-15	PFOS	3.7 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFOSA	0.67 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFPEA	3.3 J	5.0	0.31	ng/L	01/10/22	01/12/22
B-15	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	01/10/22	01/12/22
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
B-15	SURROGATE: 13C2-4:2FTS (S)	82.3	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-6:2FTS (S)	83.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-8:2FTS (S)	82.5	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1216
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: WVV

Sample Collection Date: 01/03/22

ARF: 98591

APPL ID: BA48262

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	101	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-PFTEDA (S)	98.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-HFPO-DA (S)	91.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFBS (S)	91.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFHXS (S)	97.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFBA (S)	133	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFHPA (S)	94.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFHXA (S)	90.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFPEA (S)	102	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C6-PFDA (S)	94.3	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C7-PFUDA (S)	102	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOA (S)	92.1	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOS (S)	97.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOSA (S)	89.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C9-PFNA (S)	93.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-MEFOSA (S)	78.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-NMEFOSAA (S)	91.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-ETFOSA (S)	84.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-NETFOSAA (S)	90.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D7-MEFOSE (S)	83.1	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D9-ETFOSE (S)	77.4	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1216
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: NRT

APPL ID: BA48263

Sample Collection Date: 01/03/22

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
B-15	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-ETFOSAA	1.3 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSAA	2.1 J	8.0	0.36	ng/L	01/10/22	01/12/22
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	PFBA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFBS	0.56 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDA	1.0 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDOA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHPA	0.54 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
B-15	PFHXA	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHXS	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
B-15	PFOA	1.2 J	5.0	0.41	ng/L	01/10/22	01/12/22
B-15	PFOS	2.2 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFOSA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFPEA	Not detected	5.0	0.31	ng/L	01/10/22	01/12/22
B-15	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFTEDA	1.3 J	8.0	0.43	ng/L	01/10/22	01/12/22
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
B-15	SURROGATE: 13C2-4:2FTS (S)	92.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-6:2FTS (S)	84.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-8:2FTS (S)	90.7	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1217
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: NRT

Sample Collection Date: 01/03/22

ARF: 98591

APPL ID: BA48263

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-PFTEDA (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-HFPO-DA (S)	103	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFBS (S)	98.1	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFHXS (S)	99.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFBA (S)	138	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFHPA (S)	94.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFHXA (S)	86.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFPEA (S)	107	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C6-PFDA (S)	102	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C7-PFUDA (S)	113	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOA (S)	96.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOS (S)	99.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOSA (S)	101	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C9-PFNA (S)	100.0	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-MEFOSA (S)	83.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-NMEFOSAA (S)	86.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-ETFOSA (S)	88.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-NETFOSAA (S)	110	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D7-MEFOSE (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D9-ETFOSE (S)	100.0	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1217
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: COLVER RD

Sample Collection Date: 01/03/22

APPL ID: BA48264

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
B-15	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-ETFOSAA	1.0 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	01/10/22	01/12/22
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	PFBA	5.4 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFBS	6.0	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDA	2.8 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDOA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHPA	4.8 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
B-15	PFHXA	8.0	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHXS	1.0 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNA	2.3 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
B-15	PFOA	11	5.0	0.41	ng/L	01/10/22	01/12/22
B-15	PFOS	12	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFOSA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFPEA	6.4	5.0	0.31	ng/L	01/10/22	01/12/22
B-15	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	01/10/22	01/12/22
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
B-15	SURROGATE: 13C2-4:2FTS (S)	72.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-6:2FTS (S)	76.0	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-8:2FTS (S)	84.1	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1218
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: COLVER RD

Sample Collection Date: 01/03/22

ARF: 98591

APPL ID: BA48264

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	111	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-PFTEDA (S)	117	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-HFPO-DA (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFBS (S)	98.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFHXS (S)	106	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFBA (S)	139	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFHPA (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFHXA (S)	96.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFPEA (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C6-PFDA (S)	107	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C7-PFUDA (S)	109	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOA (S)	103	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOS (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOSA (S)	113	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C9-PFNA (S)	105	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-MEFOSA (S)	102	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-NMEFOSAA (S)	96.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-ETFOSA (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-NETFOSAA (S)	91.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D7-MEFOSE (S)	107	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D9-ETFOSE (S)	110	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1218
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: BEAR CREEK OAK ST.

Sample Collection Date: 01/03/22

APPL ID: BA48265

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
B-15	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	01/10/22	01/12/22
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	PFBA	3.2 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFBS	4.7 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDA	1.2 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDOA	0.52 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHPA	2.1 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
B-15	PFHXA	3.3 J	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHXS	1.1 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNA	1.1 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
B-15	PFOA	3.5 J	5.0	0.41	ng/L	01/10/22	01/12/22
B-15	PFOS	5.4	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFOSA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFPEA	3.4 J	5.0	0.31	ng/L	01/10/22	01/12/22
B-15	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	01/10/22	01/12/22
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
B-15	SURROGATE: 13C2-4:2FTS (S)	74.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-6:2FTS (S)	71.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-8:2FTS (S)	84.1	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1219
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: BEAR CREEK OAK ST.

Sample Collection Date: 01/03/22

ARF: 98591

APPL ID: BA48265

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	110	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-PFTEDA (S)	115	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-HFPO-DA (S)	99.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFBS (S)	103	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFHXS (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFBA (S)	120	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFHPA (S)	92.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFHXA (S)	94.1	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFPEA (S)	103	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C6-PFDA (S)	100.0	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C7-PFUDA (S)	113	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOA (S)	95.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOS (S)	108	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOSA (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C9-PFNA (S)	99.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-MEFOSA (S)	94.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-NMEFOSAA (S)	83.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-ETFOSA (S)	97.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-NETFOSAA (S)	93.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D7-MEFOSE (S)	107	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D9-ETFOSE (S)	92.9	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1219
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98591

Sample ID: BEAR CREEK US CELLULAR

Sample Collection Date: 01/03/22

APPL ID: BA48266

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
B-15	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	01/10/22	01/12/22
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
B-15	PFBA	1.6 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFBS	3.0 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDA	0.81 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDOA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHPA	1.4 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
B-15	PFHXA	3.6 J	5.0	0.32	ng/L	01/10/22	01/12/22
B-15	PFHXS	1.1 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNA	1.2 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
B-15	PFOA	2.9 J	5.0	0.41	ng/L	01/10/22	01/12/22
B-15	PFOS	3.6 J	5.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFOSA	1.8 J	8.0	0.25	ng/L	01/10/22	01/12/22
B-15	PFPEA	3.1 J	5.0	0.31	ng/L	01/10/22	01/12/22
B-15	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	01/10/22	01/12/22
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
B-15	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
B-15	SURROGATE: 13C2-4:2FTS (S)	70.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-6:2FTS (S)	69.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-8:2FTS (S)	74.7	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1220
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

RVCOG
155 N First St
Central Point, OR

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: BEAR CREEK US CELLULAR

Sample Collection Date: 01/03/22

ARF: 98591

APPL ID: BA48266

QCG: #PFASC-220110A-272691

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	99.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C2-PFTEDA (S)	102	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-HFPO-DA (S)	89.1	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFBS (S)	93.7	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C3-PFHXS (S)	98.5	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFBA (S)	118	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C4-PFHFA (S)	87.9	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFHXA (S)	85.3	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C5-PFPEA (S)	89.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C6-PFDA (S)	94.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C7-PFUDA (S)	97.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOA (S)	84.8	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOS (S)	107	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C8-PFOSA (S)	84.6	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: 13C9-PFNA (S)	90.3	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-MEFOSA (S)	74.0	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D3-NMEFOSAA (S)	81.2	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-ETFOSA (S)	81.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D5-NETFOSAA (S)	104	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D7-MEFOSE (S)	76.4	50-150		%	01/10/22	01/12/22
B-15	SURROGATE: D9-ETFOSE (S)	68.5	50-150		%	01/10/22	01/12/22

J = Estimated value.

Quant Method: 1633\2022_01_1
Run #: 2022-01-1220
Instrument: Saphira
Sequence: 2022-01-12
Dilution Factor: 1
Initials: DG

Printed: 1/19/2022 10:30:28 AM
APPL-F1-SC-NoMC-REG MDLs

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **220110W-48262 - 272633**
 Batch ID: \$829ADOD5-220110

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	5.8 U	125.0	5.8PC	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,4,6,7,8-HPCDF	3.0 U	125.0	3.0PC	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,4,7,8,9-HPCDF	3.1 U	125.0	3.1PC	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,4,7,8-HXCDD	3.5 U	125.0	3.5DL	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,4,7,8-HXCDF	1.7 U	125.0	1.7DL	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,6,7,8-HXCDD	3.4 U	125.0	3.4DL	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,6,7,8-HXCDF	3.4 J	125.0	3.4PC	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,7,8,9-HXCDD	3.3 U	125.0	3.3DL	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,7,8,9-HXCDF	3.7 U	125.0	3.7PC	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,7,8-PECDD	2.2 U	125.0	2.2DL	pg/L	1/10/2022	1/15/2022
BLANK	1,2,3,7,8-PECDF	2.4 U	125.0	2.4DL	pg/L	1/10/2022	1/15/2022
BLANK	2,3,4,6,7,8-HXCDF	1.9 U	125.0	1.9PC	pg/L	1/10/2022	1/15/2022
BLANK	2,3,4,7,8-PECDF	2.5 U	125.0	2.5DL	pg/L	1/10/2022	1/15/2022
BLANK	2,3,7,8-TCDD	6.2 U	50.0	6.2DL	pg/L	1/10/2022	1/15/2022
BLANK	2,3,7,8-TCDF	1.1 U	50.0	1.1DL	pg/L	1/10/2022	1/15/2022
BLANK	OCDD	17 U	250.0	17PC	pg/L	1/10/2022	1/15/2022
BLANK	OCDF	5.5 U	250.0	5.5PC	pg/L	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	82.7	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	81.5	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	87.4	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	91.3	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	71.9	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	76.5	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	74.1	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	77.6	40-135		%	1/10/2022	1/15/2022
BLANK	SURROGATE: 13C-OCDD (S)	72.4	40-135		%	1/10/2022	1/15/2022

J = Estimated value.

Quant Method: 220114_8290
 Run #: 220114_HR_11
 Instrument: MAGNETO
 Sequence: 220114
 Initials: RP

Printed: 1/17/2022 2:16:02 PM

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: **220110W-48262 LCS - 272633**

Batch ID: #829ADOD5-220110

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	1250	1350	1440	108	115	79-122	6.5	20
1,2,3,4,6,7,8-HPCDF	1250	1430	1440	114	115	81-130	0.70	20
1,2,3,4,7,8,9-HPCDF	1250	1440	1490	115	119	77-128	3.4	20
1,2,3,4,7,8-HXCDD	1250	1220	1340	97.6	107	80-126	9.4	20
1,2,3,4,7,8-HXCDF	1250	1240	1330	99.2	106	80-130	7.0	20
1,2,3,6,7,8-HXCDD	1250	1190	1330	95.2	106	78-134	11.1	20
1,2,3,6,7,8-HXCDF	1250	1260	1340	101	107	79-131	6.2	20
1,2,3,7,8,9-HXCDD	1250	1250	1300	100	104	76-137	3.9	20
1,2,3,7,8,9-HXCDF	1250	1320	1480	106	118	83-130	11.4	20
1,2,3,7,8-PECDD	1250	1410	1490	113	119	76-121	5.5	20
1,2,3,7,8-PECDF	1250	1370	1420	110	114	82-130	3.6	20
2,3,4,6,7,8-HXCDF	1250	1180	1340	94.4	107	81-130	12.7	20
2,3,4,7,8-PECDF	1250	1330	1380	106	110	77-129	3.7	20
2,3,7,8-TCDD	500	505	543	101	109	71-125	7.3	20
2,3,7,8-TCDF	500	526	575	105	115	72-138	8.9	20
OCDD	2500	2620	2780	105	111	81-135	5.9	20
OCDF	2500	2880	3170	115	127	66-150	9.6	20
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	4240	4420	84.8	88.4	40-135		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	4180	4370	83.6	87.4	40-135		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	4890	4750	97.8	95.0	40-135		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	4950	4800	99.0	96.0	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1720	1720	86.0	86.0	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1810	1790	90.5	89.5	40-135		
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1740	1680	87.0	84.0	40-135		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	220114_8290	220114_8290
Extraction Date :	1/10/2022	1/10/2022
Analysis Date :	1/14/2022	1/15/2022
Instrument :	MAGNETO	MAGNETO
Run :	220114_HR_09	220114_HR_10
Initials :	RP	

Printed: 1/17/2022 2:16:22 PM

APPL Standard LCSD

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: 220110W-48262 LCS - 272633

Batch ID: #829ADOD5-220110

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1700	1590	85.0	79.5	40-135		
SURROGATE: 13C-OCDD (S)	10000	7950	7930	79.5	79.3	40-135		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	220114_8290	220114_8290
Extraction Date :	1/10/2022	1/10/2022
Analysis Date :	1/14/2022	1/15/2022
Instrument :	MAGNETO	MAGNETO
Run :	220114_HR_09	220114_HR_10
Initials :	RP	

Printed: 1/17/2022 2:16:22 PM

APPL Standard LCSD

Method Blank

PFAS IN WATER

Blank Name/QCG: **220110W-48262 - 272691**
 Batch ID: #PFASC-220110A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	01/10/22	01/12/22
BLANK	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	01/10/22	01/12/22
BLANK	ADONA	Not detected	8.0	1.30	ng/L	01/10/22	01/12/22
BLANK	FTS 4:2	Not detected	8.0	0.54	ng/L	01/10/22	01/12/22
BLANK	FTS 6:2	Not detected	8.0	0.45	ng/L	01/10/22	01/12/22
BLANK	FTS 8:2	Not detected	8.0	1.01	ng/L	01/10/22	01/12/22
BLANK	HFPO-DA	Not detected	8.0	2.45	ng/L	01/10/22	01/12/22
BLANK	N-ETFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
BLANK	N-ETFOSAA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
BLANK	N-ETFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
BLANK	N-MEFOSA	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
BLANK	N-MEFOSAA	Not detected	8.0	0.36	ng/L	01/10/22	01/12/22
BLANK	N-MEFOSE	Not detected	8.0	3.00	ng/L	01/10/22	01/12/22
BLANK	PFBA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFBS	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFDA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFDOA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFDS	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
BLANK	PFHPA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFHPS	Not detected	5.0	0.28	ng/L	01/10/22	01/12/22
BLANK	PFHXA	Not detected	5.0	0.32	ng/L	01/10/22	01/12/22
BLANK	PFHXS	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFNA	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFNS	Not detected	8.0	0.40	ng/L	01/10/22	01/12/22
BLANK	PFOA	Not detected	5.0	0.41	ng/L	01/10/22	01/12/22
BLANK	PFOS	Not detected	5.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFOSA	Not detected	8.0	0.25	ng/L	01/10/22	01/12/22
BLANK	PFPEA	Not detected	5.0	0.31	ng/L	01/10/22	01/12/22
BLANK	PFPEs	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
BLANK	PFTEDA	Not detected	8.0	0.43	ng/L	01/10/22	01/12/22
BLANK	PFTRDA	Not detected	5.0	0.29	ng/L	01/10/22	01/12/22
BLANK	PFUDA	Not detected	5.0	0.40	ng/L	01/10/22	01/12/22
BLANK	SURROGATE: 13C2-4:2FTS (S)	61.3	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C2-6:2FTS (S)	74.0	50-150		%	01/10/22	01/12/22

= Recovery (or RPD) is outside QC limits.

Quant Method: 1633\2022_0
 Run #: 2022-01-121
 Instrument: Saphira
 Sequence: 2022-01-12
 Initials: DG

GC SC-Blank-REG MDLs
 Printed: 1/19/2022 10:30:40 AM

Method Blank

PFAS IN WATER

Blank Name/QCG: **220110W-48262 - 272691**
 Batch ID: #PFASC-220110A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	SURROGATE: 13C2-8:2FTS (S)	77.4	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C2-PFDOA (S)	113	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C2-PFTEDA (S)	112	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C3-HFPO-DA (S)	100.0	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C3-PFBS (S)	101	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C3-PFHXS (S)	102	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C4-PFBA (S)	159 #	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C4-PFHPA (S)	93.3	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C5-PFHXA (S)	83.2	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C5-PFPEA (S)	113	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C6-PFDA (S)	109	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C7-PFUDA (S)	115	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C8-PFOA (S)	94.9	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C8-PFOS (S)	109	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C8-PFOSA (S)	99.7	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: 13C9-PFNA (S)	102	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D3-MEFOSA (S)	82.3	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D3-NMEFOSAA (S)	99.4	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D5-ETFOSA (S)	88.8	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D5-NETFOSAA (S)	107	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D7-MEFOSE (S)	96.5	50-150		%	01/10/22	01/12/22
BLANK	SURROGATE: D9-ETFOSE (S)	87.6	50-150		%	01/10/22	01/12/22

= Recovery (or RPD) is outside QC limits.

Quant Method: 1633\2022_0
 Run #: 2022-01-121
 Instrument: Saphira
 Sequence: 2022-01-12
 Initials: DG

GC SC-Blank-REG MDLs
 Printed: 1/19/2022 10:30:40 AM

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 220110W-48262 LCS - 272691

Batch ID: #PFASC-220110A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
11-CL-PF3OUDS	75.5	74.0	69.1	98.1	91.6	54-138	6.8	30
9-CL-PF3ONS	74.7	67.7	68.1	90.7	91.2	62-140	0.59	30
ADONA	75.6	81.8	73.2	108	96.8	61-169	11.1	30
FTS 4:2	150	141	121	94.3	80.9	63-143	15.3	30
FTS 6:2	152	146	141	96.1	92.9	64-140	3.5	30
FTS 8:2	153	139	139	90.7	90.7	67-138	0.0	30
HFPO-DA	80.0	70.2	65.0	87.8	81.3	44-175	7.7	30
N-ETFOSA	160	143	140	89.4	87.5	76-137	2.1	30
N-ETFOSAA	40.0	42.3	35.5	106	88.8	61-135	17.5	30
N-ETFOSE	160	139	127	86.9	79.4	39-150	9.0	30
N-MEFOSA	160	157	140	98.1	87.5	68-141	11.4	30
N-MEFOSAA	40.0	40.2	36.2	101	90.5	65-136	10.5	30
N-MEFOSE	160	171	167	107	104	68-144	2.4	30
PFBA	160	149	149	93.1	93.1	73-129	0.0	30
PFBS	35.4	34.0	32.9	96.1	93.0	72-130	3.3	30
PFDA	40.0	39.7	36.6	99.3	91.5	71-129	8.1	30
PFDOA	40.0	35.5	36.0	88.8	90.0	72-134	1.4	30
PFDS	38.5	34.3	34.9	89.0	90.6	53-142	1.7	30
PFHPA	40.0	38.3	36.3	95.8	90.8	72-130	5.4	30
PFHPS	38.1	34.1	34.3	89.6	90.1	69-134	0.58	30
PFHXA	40.0	38.5	36.2	96.3	90.5	72-129	6.2	30
PFHXS	36.4	31.7	31.7	87.0	87.0	68-131	0.0	30
PFNA	40.0	47.2	40.5	118	101	69-130	15.3	30
PFNS	38.4	33.1	34.5	86.2	89.9	69-127	4.1	30

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	1633\2022_01_1	1633\2022_01_1
Extraction Date :	1/10/2022	1/10/2022
Analysis Date :	1/12/2022	1/12/2022
Instrument :	Saphira	Saphira
Run :	2022-01-1214	2022-01-1215
Initials :	DG	

Printed: 1/19/2022 10:30:11 AM

APPL Standard LCSD

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 220110W-48262 LCS - 272691

Batch ID: #PFASC-220110A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PFOA	40.0	39.8	37.0	99.5	92.5	71-133	7.3	30
PFOS	37.1	31.9	31.2	86.0	84.1	65-140	2.2	30
PFOSA	40.0	36.0	37.3	90.0	93.3	67-137	3.5	30
PFPEA	80.0	74.3	73.1	92.9	91.4	72-129	1.6	30
PFPEs	37.5	32.9	35.2	87.7	93.8	71-127	6.8	30
PFTEDA	40.0	36.1	38.8	90.3	97.0	71-132	7.2	30
PFTRDA	40.0	39.2	37.8	98.0	94.5	65-144	3.6	30
PFUDA	40.0	39.6	36.2	99.0	90.5	69-133	9.0	30
SURROGATE: 13C2-4:2FTS (S)	100	61.7	75.9	61.7	75.9	50-150		
SURROGATE: 13C2-6:2FTS (S)	100	73.3	78.5	73.3	78.5	50-150		
SURROGATE: 13C2-8:2FTS (S)	100	91.2	85.1	91.2	85.1	50-150		
SURROGATE: 13C2-PFDOA (S)	100	117	112	117	112	50-150		
SURROGATE: 13C2-PFTEDA (S)	100	121	112	121	112	50-150		
SURROGATE: 13C3-HFPO-DA (S)	100	105	110	105	110	50-150		
SURROGATE: 13C3-PFBS (S)	100	101	102	101	102	50-150		
SURROGATE: 13C3-PFHXS (S)	100	108	101	108	101	50-150		
SURROGATE: 13C4-PFBA (S)	100	151	156	151 #	156 #	50-150		
SURROGATE: 13C4-PFHPA (S)	100	92.5	99.1	92.5	99.1	50-150		
SURROGATE: 13C5-PFHXA (S)	100	84.5	95.2	84.5	95.2	50-150		
SURROGATE: 13C5-PFPEA (S)	100	114	116	114	116	50-150		
SURROGATE: 13C6-PFDA (S)	100	110	112	110	112	50-150		
SURROGATE: 13C7-PFUDA (S)	100	105	113	105	113	50-150		
SURROGATE: 13C8-PFOA (S)	100	105	105	105	105	50-150		
SURROGATE: 13C8-PFOS (S)	100	117	114	117	114	50-150		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	1633\2022_01_1	1633\2022_01_1
Extraction Date :	1/10/2022	1/10/2022
Analysis Date :	1/12/2022	1/12/2022
Instrument :	Saphira	Saphira
Run :	2022-01-1214	2022-01-1215
Initials :	DG	

Printed: 1/19/2022 10:30:11 AM

APPL Standard LCSD

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 220110W-48262 LCS - 272691

Batch ID: #PFASC-220110A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C8-PFOSA (S)	100	99.4	98.0	99.4	98.0	50-150		
SURROGATE: 13C9-PFNA (S)	100	101	110	101	110	50-150		
SURROGATE: D3-MEFOSA (S)	100	80.2	85.9	80.2	85.9	50-150		
SURROGATE: D3-NMEFOSAA (S)	100	88.9	95.3	88.9	95.3	50-150		
SURROGATE: D5-ETFOSA (S)	100	89.4	92.3	89.4	92.3	50-150		
SURROGATE: D5-NETFOSAA (S)	100	108	122	108	122	50-150		
SURROGATE: D7-MEFOSE (S)	100	90.1	94.3	90.1	94.3	50-150		
SURROGATE: D9-ETFOSE (S)	100	88.8	98.2	88.8	98.2	50-150		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	1633\2022_01_1	1633\2022_01_1
Extraction Date :	1/10/2022	1/10/2022
Analysis Date :	1/12/2022	1/12/2022
Instrument :	Saphira	Saphira
Run :	2022-01-1214	2022-01-1215
Initials :	DG	

Printed: 1/19/2022 10:30:11 AM

APPL Standard LCSD



Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. 53409

9859

Report to:		PLEASE PRINT		Invoice to:		PLEASE PRINT	
Company Name:	<u>RVCOG</u>	Phone:	<u>541-664-6674</u>	Company Name:	<u>Same</u>	Phone:	<u></u>
Address:	<u>155 N First St.</u>	Fax:	<u></u>	Address:	<u></u>	Fax:	<u></u>
	<u>Central Point, OR</u>				<u></u>		
Attn:	<u>Greg Stabach</u>			Attn:	<u></u>		
Email:	<u>gstabach@rvicog.org</u>			Email:	<u></u>		

[illegible]

Shuttle Temperature: 2.3/-1.4 IRB: 2.6/-1.1		Turnaround Requested: Check one ☒ Standard 2-3 wk ☐ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other: _____					Sample Disposal: ☐ Return to client ☒ Disposal by Lab (30-day retention)	
Relinquished by sampler: Jennie Morgan	Date 1.4.22	Time 9:00	Received by:	Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date 1-5-22	Time 13:05	Received at lab by: CH	

COOLER RECEIPT FORM

ARF: 98591

- 1) Project: NA Date Received: 1/5/2022
- 2) Coolers: Number of Coolers: 2
- 3) YES Were custody seals present and intact?
How many? 2 Name/Date on seal? SEE BELOW
- 4) YES Was there a shipping slip? Carrier name: FEDEX
- 5) Type of packing in cooler: ☒ bubble wrap ☐ popcorn ☐ foam ☒ plastic bags ☐ other
☒ wet ice ☐ dry ice ☐ no ice ☐ gel ice
- 6) YES Were cooler temperatures acceptable?
- 7) Serial number of calibrated thermometer used: IRB CF:-3.7°C
- 8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 2.6/-1.1 2: 2.3/-1.4 3: 4: 5: 6:
7: 8: 9: 10: 11: 12:

Chain of custody:

- 9) YES Was a chain of custody received?
- 10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

- 11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?
- 12) YES Did all container labels agree with custody papers?

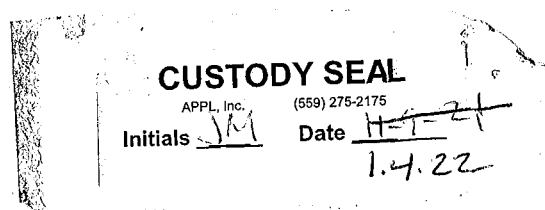
Sample Containers:

- 13) YES Were all containers sealed in separate bags?
- 14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?
- 15) YES Were correct containers and preservatives used for the tests indicated?
- 16) YES Was a sufficient amount of sample sent for tests indicated?
- 17) NA Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: _____
Smaller than a pea: _____

Preservation Hold time:

- 18) Yes Was a sufficient amount of holding time remaining to analyze the samples?
- 19) NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
- 20) NA Was the pH of acid preserved non-VOA samples < 2?
- 21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?
- 22) NO Were unpreserved VOA Vials received for VOA Dept analysis?
- 23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number: _____
Lab notified if pH was not adequate: _____

Notes/Deficiencies:



Personnel receiving samples: CH Second reviewer: NS

Personnel labeling samples: CH

Project manager notified: MS Date/Time of notification 1/5/2022

Name of client notified: _____ Date/Time of notification _____

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

Rev. 2, October 2, 2018



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Friday, January 20, 2023

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A2C0711 - Almeda Post Fire Monitoring-2022 - Almeda Post Fire Monitoring-2022

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2C0711, which was received by the laboratory on 3/16/2022 at 10:45:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.2 degC	Cooler #2	3.4 degC
Cooler #3	1.3 degC		

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street****Tigard, OR 97223****503-718-2323****ORELAP ID: OR100062****Rogue Valley Council of Governments****155 North First St/PO Box 3275****Central Point, OR 97502****Project: Almeda Post Fire Monitoring-2022****Project Number: Almeda Post Fire Monitorin****Project Manager: Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Valley View (WVV), OF	A2C0711-01	Water	03/15/22 08:45	03/16/22 10:45
North Ridge Terrace (NRT), OF	A2C0711-02	Water	03/15/22 09:00	03/16/22 10:45
Colver Rd, OF	A2C0711-03	Water	03/15/22 08:18	03/16/22 10:45

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 2 of 51



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL CASE NARRATIVE

Work Order: A2C0711

Amended Report Revision #2:

This report supersedes all previous reports.

EPA 6020B: Trace Metals

The result for Chromium by EPA 6020B was omitted from previous reports for client sample "Colver Rd, OF" (Apex Laboratories ID: A2C0711-03).

The results have been added and qualified with the AMEND qualifier in this report.

In addition, B-02 flags were removed from the "J" Flagged hits (less than MRL) per our SOP, as these are already estimated results.

David Jack
Technical Manager
January 17, 2023

Amended Report Revision #1:

This report supersedes all previous reports.

The EPA Method 8270E Tentatively Identified Compounds (TIC) results are included in this report.

Michele Poquiz
Forensic Project Manager
12/9/22

EPA Method 8270E TICs

Partial final results have been included in this report. The pending EPA Method 8270E Tentatively Identified Compounds (TIC) results will be included in an amended final report.

Subcontracts:

This report is complete only when subcontract laboratory reports are attached from:

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ALS Life Sciences - Burlington Laboratory, Canada for Polybrominated compound analyses and Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Michele Poquiz
Forensic Project Manager
5/26/22

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		Batch: 22C1094		
Diesel	52.3	39.2	78.4	ug/L	1	03/28/22 22:45	NWTPH-Dx LL	J
Oil	84.0	78.4	157	ug/L	1	03/28/22 22:45	NWTPH-Dx LL	J
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	1	03/28/22 22:45	NWTPH-Dx LL	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		Batch: 22C1094		
Diesel	52.9	39.2	78.4	ug/L	1	03/28/22 23:07	NWTPH-Dx LL	J
Oil	ND	78.4	157	ug/L	1	03/28/22 23:07	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	03/28/22 23:07	NWTPH-Dx LL	
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C1094		
Diesel	58.0	39.2	78.4	ug/L	1	03/28/22 23:30	NWTPH-Dx LL	J
Oil	93.1	78.4	157	ug/L	1	03/28/22 23:30	NWTPH-Dx LL	J
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	03/28/22 23:30	NWTPH-Dx LL	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01RE2)				Matrix: Water		Batch: 22C0860		
Acenaphthene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Acenaphthylene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Anthracene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Benz(a)anthracene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Benzo(a)pyrene	0.0158	0.0158	0.0316	ug/L	1	03/23/22 17:36	EPA 8270E	J
Benzo(b)fluoranthene	ND	0.0158	0.0316	ug/L	1	03/23/22 17:36	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0158	0.0316	ug/L	1	03/23/22 17:36	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Chrysene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Fluoranthene	0.0107	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	J
Fluorene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
1-Methylnaphthalene	ND	0.0211	0.0421	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Methylnaphthalene	ND	0.0211	0.0421	ug/L	1	03/23/22 17:36	EPA 8270E	
Naphthalene	ND	0.0211	0.0421	ug/L	1	03/23/22 17:36	EPA 8270E	
Phenanthrene	0.0190	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	J
Pyrene	0.0139	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	J
Carbazole	ND	0.0158	0.0316	ug/L	1	03/23/22 17:36	EPA 8270E	
Dibenzofuran	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Chlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4-Dichlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4-Dimethylphenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4-Dinitrophenol	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Methylphenol	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Nitrophenol	ND	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Nitrophenol	ND	0.211	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
Pentachlorophenol (PCP)	0.162	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	J
Phenol	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01RE2)				Matrix: Water		Batch: 22C0860		
2,3,5,6-Tetrachlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.283	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	J
Butyl benzyl phthalate	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
Diethylphthalate	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
Dimethylphthalate	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
Di-n-butylphthalate	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
Di-n-octyl phthalate	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0526	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Hexachlorobenzene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
Hexachlorobutadiene	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
Hexachloroethane	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Chloronaphthalene	ND	0.0105	0.0211	ug/L	1	03/23/22 17:36	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Aniline	ND	0.0526	0.105	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Chloroaniline	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
2-Nitroaniline	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
3-Nitroaniline	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
4-Nitroaniline	ND	0.211	0.421	ug/L	1	03/23/22 17:36	EPA 8270E	
Nitrobenzene	ND	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
2,4-Dinitrotoluene	ND	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
2,6-Dinitrotoluene	ND	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
Benzoic acid	ND	2.63	2.63	ug/L	1	03/23/22 17:36	EPA 8270E	
Benzyl alcohol	0.125	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	J

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01RE2)				Matrix: Water		Batch: 22C0860		
Isophorone	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0632	0.0632	ug/L	1	03/23/22 17:36	EPA 8270E	R-02
Bis(2-Ethylhexyl) adipate	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.526	1.05	ug/L	1	03/23/22 17:36	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
1,3-Dinitrobenzene	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
1,4-Dinitrobenzene	ND	0.263	0.526	ug/L	1	03/23/22 17:36	EPA 8270E	
Pyridine	0.214	0.105	0.211	ug/L	1	03/23/22 17:36	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0263	0.0526	ug/L	1	03/23/22 17:36	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	85 %	<i>Limits:</i>	44-120 %	1	03/23/22 17:36	EPA 8270E
<i>2-Fluorobiphenyl (Surr)</i>			73 %		44-120 %	1	03/23/22 17:36	EPA 8270E
<i>Phenol-d6 (Surr)</i>			24 %		10-133 %	1	03/23/22 17:36	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			76 %		50-134 %	1	03/23/22 17:36	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			41 %		19-120 %	1	03/23/22 17:36	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			94 %		43-140 %	1	03/23/22 17:36	EPA 8270E
North Ridge Terrace (NRT), OF (A2C0711-02RE1)				Matrix: Water		Batch: 22C0860		
Acenaphthene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Acenaphthylene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Anthracene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Benz(a)anthracene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Benzo(a)pyrene	0.0154	0.0147	0.0294	ug/L	1	03/23/22 16:25	EPA 8270E	J
Benzo(b)fluoranthene	ND	0.0147	0.0294	ug/L	1	03/23/22 16:25	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0147	0.0294	ug/L	1	03/23/22 16:25	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Chrysene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Fluoranthene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Fluorene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
1-Methylnaphthalene	ND	0.0196	0.0392	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Methylnaphthalene	ND	0.0196	0.0392	ug/L	1	03/23/22 16:25	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

01/20/23 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2C0711-02RE1)				Matrix: Water		Batch: 22C0860		
Naphthalene	ND	0.0196	0.0392	ug/L	1	03/23/22 16:25	EPA 8270E	
Phenanthrene	0.0130	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	J
Pyrene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Carbazole	ND	0.0147	0.0294	ug/L	1	03/23/22 16:25	EPA 8270E	
Dibenzofuran	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Chlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4-Dichlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4-Dimethylphenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4-Dinitrophenol	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Methylphenol	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Nitrophenol	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Nitrophenol	ND	0.196	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
Pentachlorophenol (PCP)	0.105	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	J
Phenol	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.266	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	J
Butyl benzyl phthalate	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
Diethylphthalate	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
Dimethylphthalate	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
Di-n-butylphthalate	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
Di-n-octyl phthalate	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2C0711-02RE1)				Matrix: Water		Batch: 22C0860		
Hexachlorobenzene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
Hexachlorobutadiene	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
Hexachloroethane	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Chloronaphthalene	ND	0.00980	0.0196	ug/L	1	03/23/22 16:25	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Aniline	ND	0.0490	0.0980	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Chloroaniline	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
2-Nitroaniline	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
3-Nitroaniline	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
4-Nitroaniline	ND	0.196	0.392	ug/L	1	03/23/22 16:25	EPA 8270E	
Nitrobenzene	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
2,4-Dinitrotoluene	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
2,6-Dinitrotoluene	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
Benzoic acid	ND	2.45	2.45	ug/L	1	03/23/22 16:25	EPA 8270E	
Benzyl alcohol	ND	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	
Isophorone	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0490	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.490	0.980	ug/L	1	03/23/22 16:25	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
1,3-Dinitrobenzene	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
1,4-Dinitrobenzene	ND	0.245	0.490	ug/L	1	03/23/22 16:25	EPA 8270E	
Pyridine	0.134	0.0980	0.196	ug/L	1	03/23/22 16:25	EPA 8270E	J
1,2-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	03/23/22 16:25	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 61 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>03/23/22 16:25</i>	<i>EPA 8270E</i>	
<i>2-Fluorobiphenyl (Surr)</i>		<i>62 %</i>		<i>44-120 %</i>	<i>1</i>	<i>03/23/22 16:25</i>	<i>EPA 8270E</i>	
<i>Phenol-d6 (Surr)</i>		<i>19 %</i>		<i>10-133 %</i>	<i>1</i>	<i>03/23/22 16:25</i>	<i>EPA 8270E</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>86 %</i>		<i>50-134 %</i>	<i>1</i>	<i>03/23/22 16:25</i>	<i>EPA 8270E</i>	
<i>2-Fluorophenol (Surr)</i>		<i>28 %</i>		<i>19-120 %</i>	<i>1</i>	<i>03/23/22 16:25</i>	<i>EPA 8270E</i>	

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AMENDED REPORT

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

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A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2C0711-02RE1)				Matrix: Water		Batch: 22C0860		
Surrogate: 2,4,6-Tribromophenol (Surr)		Recovery: 95 %		Limits: 43-140 %	1	03/23/22 16:25	EPA 8270E	
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C0860		R-04
Benzo(g,h,i)perylene	ND	0.385	0.769	ug/L	40	03/23/22 15:14	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.385	0.769	ug/L	40	03/23/22 15:14	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.385	0.769	ug/L	40	03/23/22 15:14	EPA 8270E	
Colver Rd, OF (A2C0711-03RE1)				Matrix: Water		Batch: 22C0860		
Acenaphthene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Acenaphthylene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Anthracene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Benz(a)anthracene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Benzo(a)pyrene	ND	0.0144	0.0288	ug/L	1	03/23/22 17:00	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0144	0.0288	ug/L	1	03/23/22 17:00	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0144	0.0288	ug/L	1	03/23/22 17:00	EPA 8270E	
Chrysene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Fluoranthene	0.0130	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	J
Fluorene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
1-Methylnaphthalene	ND	0.0192	0.0385	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Methylnaphthalene	ND	0.0192	0.0385	ug/L	1	03/23/22 17:00	EPA 8270E	
Naphthalene	ND	0.0192	0.0385	ug/L	1	03/23/22 17:00	EPA 8270E	
Phenanthrene	0.0344	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Pyrene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Carbazole	ND	0.0144	0.0288	ug/L	1	03/23/22 17:00	EPA 8270E	
Dibenzofuran	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Chlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	
2,4-Dichlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
2,4-Dimethylphenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
2,4-Dinitrophenol	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Methylphenol	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Nitrophenol	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A2C0711-03RE1)				Matrix: Water		Batch: 22C0860		
4-Nitrophenol	ND	0.192	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	
Pentachlorophenol (PCP)	0.124	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	J
Phenol	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.344	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	J
Butyl benzyl phthalate	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
Diethylphthalate	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
Dimethylphthalate	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
Di-n-butylphthalate	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
Di-n-octyl phthalate	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0481	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0481	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Hexachlorobenzene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
Hexachlorobutadiene	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
Hexachloroethane	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Chloronaphthalene	ND	0.00962	0.0192	ug/L	1	03/23/22 17:00	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Aniline	ND	0.0481	0.0962	ug/L	1	03/23/22 17:00	EPA 8270E	
4-Chloroaniline	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
2-Nitroaniline	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
3-Nitroaniline	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
4-Nitroaniline	ND	0.192	0.385	ug/L	1	03/23/22 17:00	EPA 8270E	
Nitrobenzene	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A2C0711-03RE1)		Matrix: Water			Batch: 22C0860			
2,4-Dinitrotoluene	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	
2,6-Dinitrotoluene	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	
Benzoic acid	ND	2.40	2.40	ug/L	1	03/23/22 17:00	EPA 8270E	
Benzyl alcohol	ND	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	
Isophorone	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0481	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.481	0.962	ug/L	1	03/23/22 17:00	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
1,3-Dinitrobenzene	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
1,4-Dinitrobenzene	ND	0.240	0.481	ug/L	1	03/23/22 17:00	EPA 8270E	
Pyridine	0.130	0.0962	0.192	ug/L	1	03/23/22 17:00	EPA 8270E	J
1,2-Dichlorobenzene	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0240	0.0481	ug/L	1	03/23/22 17:00	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	78 %	<i>Limits:</i>	44-120 %	1	03/23/22 17:00	EPA 8270E
<i>2-Fluorobiphenyl (Surr)</i>			64 %		44-120 %	1	03/23/22 17:00	EPA 8270E
<i>Phenol-d6 (Surr)</i>			22 %		10-133 %	1	03/23/22 17:00	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			99 %		50-134 %	1	03/23/22 17:00	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			37 %		19-120 %	1	03/23/22 17:00	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			96 %		43-140 %	1	03/23/22 17:00	EPA 8270E

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water				
Batch: 22C1133								
Aluminum	1160	25.0	50.0	ug/L	1	03/30/22 05:51	EPA 200.8	J
Antimony	ND	0.500	1.00	ug/L	1	03/30/22 05:51	EPA 200.8	
Arsenic	0.908	0.500	1.00	ug/L	1	03/30/22 05:51	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/22 05:51	EPA 200.8	
Calcium	22100	375	600	ug/L	1	03/30/22 05:51	EPA 200.8	
Copper	7.31	1.00	2.00	ug/L	1	03/30/22 05:51	EPA 200.8	
Iron	1190	25.0	50.0	ug/L	1	03/30/22 05:51	EPA 200.8	
Lead	2.57	0.100	0.200	ug/L	1	03/30/22 05:51	EPA 200.8	
Magnesium	5550	75.0	150	ug/L	1	03/30/22 05:51	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/22 05:51	EPA 200.8	
Nickel	1.53	1.00	2.00	ug/L	1	03/30/22 05:51	EPA 200.8	J
Selenium	ND	0.500	1.00	ug/L	1	03/30/22 05:51	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	03/30/22 05:51	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/22 05:51	EPA 200.8	
Zinc	23.9	2.00	4.00	ug/L	1	03/30/22 05:51	EPA 200.8	
West Valley View (WVV), OF (A2C0711-01RE1)				Matrix: Water				
Batch: 22C1133								
Beryllium	ND	0.100	0.200	ug/L	1	04/01/22 16:07	EPA 200.8	
Batch: 22D0397								
Chromium	1.94	1.00	2.00	ug/L	1	04/13/22 03:49	EPA 200.8	J
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water				
Batch: 22C1133								
Aluminum	456	25.0	50.0	ug/L	1	03/30/22 06:01	EPA 200.8	J
Antimony	ND	0.500	1.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Arsenic	0.650	0.500	1.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/22 06:01	EPA 200.8	
Calcium	3830	375	600	ug/L	1	03/30/22 06:01	EPA 200.8	
Chromium	1.30	1.00	2.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Copper	5.05	1.00	2.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Iron	520	25.0	50.0	ug/L	1	03/30/22 06:01	EPA 200.8	
Lead	1.25	0.100	0.200	ug/L	1	03/30/22 06:01	EPA 200.8	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water				
Magnesium	570	75.0	150	ug/L	1	03/30/22 06:01	EPA 200.8	J
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/22 06:01	EPA 200.8	
Nickel	ND	1.00	2.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	03/30/22 06:01	EPA 200.8	
Silver	0.176	0.100	0.200	ug/L	1	03/30/22 06:01	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/22 06:01	EPA 200.8	
Zinc	89.7	2.00	4.00	ug/L	1	03/30/22 06:01	EPA 200.8	
North Ridge Terrace (NRT), OF (A2C0711-02RE1)				Matrix: Water				
Batch: 22C1133								
Beryllium	ND	0.100	0.200	ug/L	1	04/01/22 16:17	EPA 200.8	
Colver Rd, OF (A2C0711-03)				Matrix: Water				
Batch: 22C1133								
Aluminum	705	25.0	50.0	ug/L	1	03/30/22 06:11	EPA 200.8	J
Antimony	ND	0.500	1.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Arsenic	0.508	0.500	1.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/22 06:11	EPA 200.8	
Calcium	6030	375	600	ug/L	1	03/30/22 06:11	EPA 200.8	
Chromium	1.70	1.00	2.00	ug/L	1	03/30/22 06:11	EPA 200.8	J, AMEND
Copper	5.55	1.00	2.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Iron	675	25.0	50.0	ug/L	1	03/30/22 06:11	EPA 200.8	
Lead	0.529	0.100	0.200	ug/L	1	03/30/22 06:11	EPA 200.8	
Magnesium	1260	75.0	150	ug/L	1	03/30/22 06:11	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/22 06:11	EPA 200.8	
Nickel	ND	1.00	2.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	03/30/22 06:11	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/22 06:11	EPA 200.8	
Zinc	12.9	2.00	4.00	ug/L	1	03/30/22 06:11	EPA 200.8	
Colver Rd, OF (A2C0711-03RE1)				Matrix: Water				
Batch: 22C1133								
Beryllium	ND	0.100	0.200	ug/L	1	04/01/22 16:29	EPA 200.8	

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		(Calculated)		
Hardness	78.0	---	2.12	mg CaCO3/L	1	03/30/22 05:51	SM 2340B	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		(Calculated)		
Hardness	11.9	---	2.12	mg CaCO3/L	1	03/30/22 06:01	SM 2340B	
Colver Rd, OF (A2C0711-03)				Matrix: Water		(Calculated)		
Hardness	20.2	---	2.12	mg CaCO3/L	1	03/30/22 06:11	SM 2340B	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water				
Batch: 22C0672								
Nitrate-Nitrogen	0.300	0.125	0.250	mg/L	1	03/16/22 19:53	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/16/22 19:53	EPA 300.0	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water				
Batch: 22C0672								
Nitrate-Nitrogen	0.248	0.125	0.250	mg/L	1	03/16/22 20:14	EPA 300.0	J
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/16/22 20:14	EPA 300.0	
Colver Rd, OF (A2C0711-03)				Matrix: Water				
Batch: 22C0672								
Nitrate-Nitrogen	0.798	0.125	0.250	mg/L	1	03/16/22 20:36	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/16/22 20:36	EPA 300.0	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		Batch: 22C0810		
Total Kjeldahl Nitrogen (TKN)	0.431	0.100	0.200	mg/L	1	03/21/22 17:23	SM 4500-NorgD	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		Batch: 22C0810		
Total Kjeldahl Nitrogen (TKN)	0.226	0.100	0.200	mg/L	1	03/21/22 17:26	SM 4500-NorgD	
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C0810		
Total Kjeldahl Nitrogen (TKN)	0.374	0.100	0.200	mg/L	1	03/21/22 17:28	SM 4500-NorgD	

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ANALYTICAL SAMPLE RESULTS

Total Nitrogen by Calculation

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	ND	---	0.500	mg/L	1	03/16/22 19:53	SM 4500-NorgD	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	ND	---	0.500	mg/L	1	03/16/22 20:14	SM 4500-NorgD	
Colver Rd, OF (A2C0711-03)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	0.798	---	0.500	mg/L	1	03/16/22 20:36	SM 4500-NorgD	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		Batch: 22C1035		
Total Organic Carbon	3.56	1.00	1.00	mg/L	1	03/25/22 23:44	SM 5310 C	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		Batch: 22C1035		
Total Organic Carbon	2.42	1.00	1.00	mg/L	1	03/26/22 00:15	SM 5310 C	
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C1035		
Total Organic Carbon	5.13	1.00	1.00	mg/L	1	03/26/22 01:50	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		Batch: 22C0687		
Phosphorus	0.0850	0.0500	0.100	mg/L	1	03/18/22 15:22	SM 4500-P E	J
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		Batch: 22C0687		
Phosphorus	0.0653	0.0500	0.100	mg/L	1	03/18/22 15:22	SM 4500-P E	J
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C0742		
Phosphorus	0.149	0.0500	0.100	mg/L	1	03/18/22 15:41	SM 4500-P E	

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2C0711-01)				Matrix: Water		Batch: 22C0855		
Total Suspended Solids	19.9	---	1.86	mg/L	1	03/22/22 08:59	D3977-97 (07)	
North Ridge Terrace (NRT), OF (A2C0711-02)				Matrix: Water		Batch: 22C0855		
Total Suspended Solids	9.12	---	1.79	mg/L	1	03/22/22 08:59	D3977-97 (07)	
Colver Rd, OF (A2C0711-03)				Matrix: Water		Batch: 22C0855		
Total Suspended Solids	9.57	---	1.81	mg/L	1	03/22/22 08:59	D3977-97 (07)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22C1094 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (22C1094-BLK1)			Prepared: 03/28/22 11:32 Analyzed: 03/28/22 21:37										
<u>NWTPH-Dx LL</u>													
Diesel	ND	36.4	72.7	ug/L	1	---	---	---	---	---	---		
Oil	ND	72.7	145	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x							
LCS (22C1094-BS1)			Prepared: 03/28/22 11:32 Analyzed: 03/28/22 22:00										
<u>NWTPH-Dx LL</u>													
Diesel	472	40.0	80.0	ug/L	1	500	---	94	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 106 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (22C1094-BSD1)			Prepared: 03/28/22 11:32 Analyzed: 03/28/22 22:22										Q-19
<u>NWTPH-Dx LL</u>													
Diesel	459	40.0	80.0	ug/L	1	500	---	92	36-132%	3	30%		
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x							

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22C0860-BLK1)			Prepared: 03/22/22 08:40		Analyzed: 03/23/22 12:18							
EPA 8270E												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	0.0189	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	B-02, J
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	

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Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)							Water					
Blank (22C0860-BLK1)			Prepared: 03/22/22 08:40		Analyzed: 03/23/22 12:18							
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.14	2.27	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22C0860-BLK1)			Prepared: 03/22/22 08:40		Analyzed: 03/23/22 12:18							
Azobenzene (1,2-DPH)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			Recovery: 88 %		Limits: 44-120 %		Dilution: 1x					
2-Fluorobiphenyl (Surr)			82 %		44-120 %		"					
Phenol-d6 (Surr)			24 %		10-133 %		"					
p-Terphenyl-d14 (Surr)			99 %		50-134 %		"					
2-Fluorophenol (Surr)			42 %		19-120 %		"					
2,4,6-Tribromophenol (Surr)			83 %		43-140 %		"					
LCS (22C0860-BS1)			Prepared: 03/22/22 08:40		Analyzed: 03/23/22 12:53							
EPA 8270E												
Acenaphthene	2.99	0.0100	0.0200	ug/L	1	4.00	---	75	47-122%	---	---	
Acenaphthylene	3.29	0.0100	0.0200	ug/L	1	4.00	---	82	41-130%	---	---	
Anthracene	3.34	0.0100	0.0200	ug/L	1	4.00	---	83	57-123%	---	---	
Benz(a)anthracene	3.53	0.0100	0.0200	ug/L	1	4.00	---	88	58-125%	---	---	
Benzo(a)pyrene	3.86	0.0150	0.0300	ug/L	1	4.00	---	96	54-128%	---	---	
Benzo(b)fluoranthene	3.58	0.0150	0.0300	ug/L	1	4.00	---	90	53-131%	---	---	
Benzo(k)fluoranthene	3.62	0.0150	0.0300	ug/L	1	4.00	---	91	57-129%	---	---	
Benzo(g,h,i)perylene	3.65	0.0100	0.0200	ug/L	1	4.00	---	91	50-134%	---	---	
Chrysene	3.38	0.0100	0.0200	ug/L	1	4.00	---	84	59-123%	---	---	
Dibenz(a,h)anthracene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	51-134%	---	---	
Fluoranthene	3.60	0.0100	0.0200	ug/L	1	4.00	---	90	57-128%	---	---	
Fluorene	3.06	0.0100	0.0200	ug/L	1	4.00	---	76	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.56	0.0100	0.0200	ug/L	1	4.00	---	89	52-134%	---	---	
1-Methylnaphthalene	2.76	0.0200	0.0400	ug/L	1	4.00	---	69	41-120%	---	---	
2-Methylnaphthalene	2.73	0.0200	0.0400	ug/L	1	4.00	---	68	40-121%	---	---	

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22C0860-BS1)						Prepared: 03/22/22 08:40 Analyzed: 03/23/22 12:53						
Naphthalene	2.83	0.0200	0.0400	ug/L	1	4.00	---	71	40-121%	---	---	B-02
Phenanthrene	3.14	0.0100	0.0200	ug/L	1	4.00	---	78	59-120%	---	---	
Pyrene	3.53	0.0100	0.0200	ug/L	1	4.00	---	88	57-126%	---	---	
Carbazole	3.26	0.0150	0.0300	ug/L	1	4.00	---	82	60-122%	---	---	
Dibenzofuran	2.93	0.0100	0.0200	ug/L	1	4.00	---	73	53-120%	---	---	
2-Chlorophenol	2.80	0.0500	0.100	ug/L	1	4.00	---	70	38-120%	---	---	
4-Chloro-3-methylphenol	3.15	0.100	0.200	ug/L	1	4.00	---	79	52-120%	---	---	
2,4-Dichlorophenol	2.96	0.0500	0.100	ug/L	1	4.00	---	74	47-121%	---	---	
2,4-Dimethylphenol	2.44	0.0500	0.100	ug/L	1	4.00	---	61	31-124%	---	---	
2,4-Dinitrophenol	3.58	0.250	0.500	ug/L	1	4.00	---	89	23-143%	---	---	Q-31
4,6-Dinitro-2-methylphenol	3.48	0.250	0.500	ug/L	1	4.00	---	87	44-137%	---	---	
2-Methylphenol	2.37	0.0250	0.0500	ug/L	1	4.00	---	59	30-120%	---	---	
3+4-Methylphenol(s)	2.11	0.0250	0.0500	ug/L	1	4.00	---	53	29-120%	---	---	
2-Nitrophenol	3.04	0.100	0.200	ug/L	1	4.00	---	76	47-123%	---	---	
4-Nitrophenol	1.05	0.100	0.200	ug/L	1	4.00	---	26	10-120%	---	---	Q-31
Pentachlorophenol (PCP)	3.08	0.100	0.200	ug/L	1	4.00	---	77	62-130%	---	---	
Phenol	1.13	0.200	0.400	ug/L	1	4.00	---	28	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.12	0.0500	0.100	ug/L	1	4.00	---	78	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.01	0.0500	0.100	ug/L	1	4.00	---	75	50-121%	---	---	
2,4,5-Trichlorophenol	3.05	0.0500	0.100	ug/L	1	4.00	---	76	53-123%	---	---	
2,4,6-Trichlorophenol	3.14	0.0500	0.100	ug/L	1	4.00	---	78	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.77	0.200	0.400	ug/L	1	4.00	---	94	55-135%	---	---	
Butyl benzyl phthalate	3.85	0.200	0.400	ug/L	1	4.00	---	96	53-134%	---	---	
Diethylphthalate	3.47	0.200	0.400	ug/L	1	4.00	---	87	56-125%	---	---	
Dimethylphthalate	3.28	0.200	0.400	ug/L	1	4.00	---	82	45-127%	---	---	
Di-n-butylphthalate	3.94	0.200	0.400	ug/L	1	4.00	---	99	59-127%	---	---	
Di-n-octyl phthalate	4.12	0.200	0.400	ug/L	1	4.00	---	103	51-140%	---	---	Q-41
N-Nitrosodimethylamine	1.82	0.0250	0.0500	ug/L	1	4.00	---	46	19-120%	---	---	
N-Nitroso-di-n-propylamine	3.42	0.0250	0.0500	ug/L	1	4.00	---	86	49-120%	---	---	
N-Nitrosodiphenylamine	3.38	0.0250	0.0500	ug/L	1	4.00	---	84	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.17	0.0250	0.0500	ug/L	1	4.00	---	79	48-120%	---	---	
Bis(2-Chloroethyl) ether	3.28	0.0250	0.0500	ug/L	1	4.00	---	82	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	3.44	0.0250	0.0500	ug/L	1	4.00	---	86	41-120%	---	---	Q-41
Hexachlorobenzene	3.09	0.0100	0.0200	ug/L	1	4.00	---	77	53-125%	---	---	

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Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22C0860-BS1)						Prepared: 03/22/22 08:40 Analyzed: 03/23/22 12:53						
Hexachlorobutadiene	2.46	0.0250	0.0500	ug/L	1	4.00	---	61	22-124%	---	---	
Hexachlorocyclopentadiene	2.69	0.0500	0.100	ug/L	1	4.00	---	67	10-127%	---	---	
Hexachloroethane	2.61	0.0250	0.0500	ug/L	1	4.00	---	65	21-120%	---	---	
2-Chloronaphthalene	2.96	0.0100	0.0200	ug/L	1	4.00	---	74	40-120%	---	---	
1,2,4-Trichlorobenzene	2.68	0.0250	0.0500	ug/L	1	4.00	---	67	29-120%	---	---	
4-Bromophenyl phenyl ether	3.18	0.0250	0.0500	ug/L	1	4.00	---	80	55-124%	---	---	
4-Chlorophenyl phenyl ether	2.95	0.0250	0.0500	ug/L	1	4.00	---	74	53-121%	---	---	
Aniline	2.09	0.0500	0.100	ug/L	1	4.00	---	52	10-120%	---	---	Q-31
4-Chloroaniline	1.93	0.0250	0.0500	ug/L	1	4.00	---	48	33-120%	---	---	Q-31
2-Nitroaniline	3.28	0.200	0.400	ug/L	1	4.00	---	82	55-127%	---	---	
3-Nitroaniline	2.78	0.200	0.400	ug/L	1	4.00	---	70	41-128%	---	---	
4-Nitroaniline	2.22	0.200	0.400	ug/L	1	4.00	---	56	25-120%	---	---	
Nitrobenzene	3.29	0.100	0.200	ug/L	1	4.00	---	82	45-121%	---	---	
2,4-Dinitrotoluene	3.37	0.100	0.200	ug/L	1	4.00	---	84	57-128%	---	---	
2,6-Dinitrotoluene	3.34	0.100	0.200	ug/L	1	4.00	---	83	57-124%	---	---	
Benzoic acid	2.66	1.25	2.50	ug/L	1	8.00	---	33	10-120%	---	---	Q-31
Benzyl alcohol	2.48	0.100	0.200	ug/L	1	4.00	---	62	31-120%	---	---	
Isophorone	3.46	0.0250	0.0500	ug/L	1	4.00	---	86	42-124%	---	---	
Azobenzene (1,2-DPH)	3.81	0.0250	0.0500	ug/L	1	4.00	---	95	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	3.90	0.250	0.500	ug/L	1	4.00	---	97	63-121%	---	---	
3,3'-Dichlorobenzidine	12.6	0.500	1.00	ug/L	1	8.00	---	158	27-129%	---	---	Q-29, Q-41, E
1,2-Dinitrobenzene	3.36	0.250	0.500	ug/L	1	4.00	---	84	59-120%	---	---	
1,3-Dinitrobenzene	3.25	0.250	0.500	ug/L	1	4.00	---	81	49-128%	---	---	
1,4-Dinitrobenzene	3.27	0.250	0.500	ug/L	1	4.00	---	82	54-120%	---	---	
Pyridine	1.48	0.100	0.200	ug/L	1	4.00	---	37	10-120%	---	---	
1,2-Dichlorobenzene	2.46	0.0250	0.0500	ug/L	1	4.00	---	61	32-120%	---	---	
1,3-Dichlorobenzene	2.39	0.0250	0.0500	ug/L	1	4.00	---	60	28-120%	---	---	
1,4-Dichlorobenzene	2.47	0.0250	0.0500	ug/L	1	4.00	---	62	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)												
			Recovery: 94 %	Limits: 44-120 %	Dilution: 1x							
2-Fluorobiphenyl (Surr)			85 %	44-120 %	"							
Phenol-d6 (Surr)			27 %	10-133 %	"							
p-Terphenyl-d14 (Surr)			94 %	50-134 %	"							
2-Fluorophenol (Surr)			45 %	19-120 %	"							
2,4,6-Tribromophenol (Surr)			93 %	43-140 %	"							

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22C0860-BSD1)			Prepared: 03/22/22 08:40 Analyzed: 03/23/22 13:28					Q-19				
EPA 8270E												
Acenaphthene	3.02	0.0100	0.0200	ug/L	1	4.00	---	75	47-122%	0.7	30%	
Acenaphthylene	3.33	0.0100	0.0200	ug/L	1	4.00	---	83	41-130%	1	30%	
Anthracene	3.38	0.0100	0.0200	ug/L	1	4.00	---	85	57-123%	1	30%	
Benz(a)anthracene	3.51	0.0100	0.0200	ug/L	1	4.00	---	88	58-125%	0.7	30%	
Benzo(a)pyrene	3.94	0.0150	0.0300	ug/L	1	4.00	---	98	54-128%	2	30%	
Benzo(b)fluoranthene	3.54	0.0150	0.0300	ug/L	1	4.00	---	89	53-131%	1	30%	
Benzo(k)fluoranthene	3.57	0.0150	0.0300	ug/L	1	4.00	---	89	57-129%	1	30%	
Benzo(g,h,i)perylene	3.64	0.0100	0.0200	ug/L	1	4.00	---	91	50-134%	0.3	30%	
Chrysene	3.38	0.0100	0.0200	ug/L	1	4.00	---	84	59-123%	0.08	30%	
Dibenz(a,h)anthracene	3.58	0.0100	0.0200	ug/L	1	4.00	---	90	51-134%	0.4	30%	
Fluoranthene	3.61	0.0100	0.0200	ug/L	1	4.00	---	90	57-128%	0.2	30%	
Fluorene	3.09	0.0100	0.0200	ug/L	1	4.00	---	77	52-124%	1	30%	
Indeno(1,2,3-cd)pyrene	3.51	0.0100	0.0200	ug/L	1	4.00	---	88	52-134%	1	30%	
1-Methylnaphthalene	2.72	0.0200	0.0400	ug/L	1	4.00	---	68	41-120%	2	30%	
2-Methylnaphthalene	2.69	0.0200	0.0400	ug/L	1	4.00	---	67	40-121%	2	30%	
Naphthalene	2.75	0.0200	0.0400	ug/L	1	4.00	---	69	40-121%	3	30%	B-02
Phenanthrene	3.18	0.0100	0.0200	ug/L	1	4.00	---	80	59-120%	1	30%	
Pyrene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	57-126%	1	30%	
Carbazole	3.28	0.0150	0.0300	ug/L	1	4.00	---	82	60-122%	0.5	30%	
Dibenzofuran	2.98	0.0100	0.0200	ug/L	1	4.00	---	74	53-120%	1	30%	
2-Chlorophenol	2.65	0.0500	0.100	ug/L	1	4.00	---	66	38-120%	5	30%	
4-Chloro-3-methylphenol	3.06	0.100	0.200	ug/L	1	4.00	---	77	52-120%	3	30%	
2,4-Dichlorophenol	2.85	0.0500	0.100	ug/L	1	4.00	---	71	47-121%	4	30%	
2,4-Dimethylphenol	2.12	0.0500	0.100	ug/L	1	4.00	---	53	31-124%	14	30%	
2,4-Dinitrophenol	3.71	0.250	0.500	ug/L	1	4.00	---	93	23-143%	4	30%	Q-31
4,6-Dinitro-2-methylphenol	3.57	0.250	0.500	ug/L	1	4.00	---	89	44-137%	3	30%	
2-Methylphenol	2.25	0.0250	0.0500	ug/L	1	4.00	---	56	30-120%	5	30%	
3+4-Methylphenol(s)	2.03	0.0250	0.0500	ug/L	1	4.00	---	51	29-120%	4	30%	
2-Nitrophenol	2.96	0.100	0.200	ug/L	1	4.00	---	74	47-123%	3	30%	
4-Nitrophenol	1.07	0.100	0.200	ug/L	1	4.00	---	27	10-120%	2	30%	Q-31
Pentachlorophenol (PCP)	3.15	0.100	0.200	ug/L	1	4.00	---	79	62-130%	2	30%	
Phenol	1.09	0.200	0.400	ug/L	1	4.00	---	27	10-120%	3	30%	
2,3,4,6-Tetrachlorophenol	3.16	0.0500	0.100	ug/L	1	4.00	---	79	50-128%	1	30%	

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Batch 22C0860 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22C0860-BSD1)						Prepared: 03/22/22 08:40 Analyzed: 03/23/22 13:28						Q-19
2,3,5,6-Tetrachlorophenol	3.10	0.0500	0.100	ug/L	1	4.00	---	78	50-121%	3	30%	
2,4,5-Trichlorophenol	3.06	0.0500	0.100	ug/L	1	4.00	---	77	53-123%	0.5	30%	
2,4,6-Trichlorophenol	3.16	0.0500	0.100	ug/L	1	4.00	---	79	50-125%	0.8	30%	
Bis(2-ethylhexyl)phthalate	3.63	0.200	0.400	ug/L	1	4.00	---	91	55-135%	4	30%	
Butyl benzyl phthalate	3.84	0.200	0.400	ug/L	1	4.00	---	96	53-134%	0.2	30%	
Diethylphthalate	3.53	0.200	0.400	ug/L	1	4.00	---	88	56-125%	2	30%	
Dimethylphthalate	3.35	0.200	0.400	ug/L	1	4.00	---	84	45-127%	2	30%	
Di-n-butylphthalate	3.94	0.200	0.400	ug/L	1	4.00	---	98	59-127%	0.05	30%	
Di-n-octyl phthalate	4.04	0.200	0.400	ug/L	1	4.00	---	101	51-140%	2	30%	Q-41
N-Nitrosodimethylamine	1.71	0.0250	0.0500	ug/L	1	4.00	---	43	19-120%	7	30%	
N-Nitroso-di-n-propylamine	3.38	0.0250	0.0500	ug/L	1	4.00	---	84	49-120%	1	30%	
N-Nitrosodiphenylamine	3.38	0.0250	0.0500	ug/L	1	4.00	---	84	51-123%	0.09	30%	
Bis(2-Chloroethoxy) methane	3.16	0.0250	0.0500	ug/L	1	4.00	---	79	48-120%	0.4	30%	
Bis(2-Chloroethyl) ether	3.07	0.0250	0.0500	ug/L	1	4.00	---	77	43-120%	7	30%	
2,2'-Oxybis(1-Chloropropane)	3.39	0.0250	0.0500	ug/L	1	4.00	---	85	41-120%	1	30%	Q-41
Hexachlorobenzene	3.05	0.0100	0.0200	ug/L	1	4.00	---	76	53-125%	1	30%	
Hexachlorobutadiene	2.34	0.0250	0.0500	ug/L	1	4.00	---	59	22-124%	5	30%	
Hexachlorocyclopentadiene	2.67	0.0500	0.100	ug/L	1	4.00	---	67	10-127%	0.7	30%	
Hexachloroethane	2.52	0.0250	0.0500	ug/L	1	4.00	---	63	21-120%	4	30%	
2-Chloronaphthalene	2.93	0.0100	0.0200	ug/L	1	4.00	---	73	40-120%	1	30%	
1,2,4-Trichlorobenzene	2.55	0.0250	0.0500	ug/L	1	4.00	---	64	29-120%	5	30%	
4-Bromophenyl phenyl ether	3.19	0.0250	0.0500	ug/L	1	4.00	---	80	55-124%	0.3	30%	
4-Chlorophenyl phenyl ether	2.94	0.0250	0.0500	ug/L	1	4.00	---	74	53-121%	0.4	30%	
Aniline	1.90	0.0500	0.100	ug/L	1	4.00	---	47	10-120%	10	30%	Q-31
4-Chloroaniline	1.92	0.0250	0.0500	ug/L	1	4.00	---	48	33-120%	0.4	30%	Q-31
2-Nitroaniline	3.38	0.200	0.400	ug/L	1	4.00	---	85	55-127%	3	30%	
3-Nitroaniline	2.86	0.200	0.400	ug/L	1	4.00	---	71	41-128%	3	30%	
4-Nitroaniline	2.56	0.200	0.400	ug/L	1	4.00	---	64	25-120%	14	30%	
Nitrobenzene	3.20	0.100	0.200	ug/L	1	4.00	---	80	45-121%	3	30%	
2,4-Dinitrotoluene	3.48	0.100	0.200	ug/L	1	4.00	---	87	57-128%	3	30%	
2,6-Dinitrotoluene	3.41	0.100	0.200	ug/L	1	4.00	---	85	57-124%	2	30%	
Benzoic acid	2.65	1.25	2.50	ug/L	1	8.00	---	33	10-120%	0.5	30%	Q-31
Benzyl alcohol	2.36	0.100	0.200	ug/L	1	4.00	---	59	31-120%	5	30%	
Isophorone	3.41	0.0250	0.0500	ug/L	1	4.00	---	85	42-124%	1	30%	

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Azobenzene (1,2-DPH)	3.76	0.0250	0.0500	ug/L	1	4.00	---	94	61-120%	1	30%	Q-29, Q-41
Bis(2-Ethylhexyl) adipate	3.74	0.250	0.500	ug/L	1	4.00	---	94	63-121%	4	30%	
3,3'-Dichlorobenzidine	10.9	0.500	1.00	ug/L	1	8.00	---	137	27-129%	14	30%	
1,2-Dinitrobenzene	3.50	0.250	0.500	ug/L	1	4.00	---	88	59-120%	4	30%	
1,3-Dinitrobenzene	3.33	0.250	0.500	ug/L	1	4.00	---	83	49-128%	2	30%	
1,4-Dinitrobenzene	3.38	0.250	0.500	ug/L	1	4.00	---	85	54-120%	3	30%	
Pyridine	1.33	0.100	0.200	ug/L	1	4.00	---	33	10-120%	11	30%	
1,2-Dichlorobenzene	2.39	0.0250	0.0500	ug/L	1	4.00	---	60	32-120%	3	30%	
1,3-Dichlorobenzene	2.31	0.0250	0.0500	ug/L	1	4.00	---	58	28-120%	3	30%	
1,4-Dichlorobenzene	2.37	0.0250	0.0500	ug/L	1	4.00	---	59	29-120%	4	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												
			Recovery: 84 %	Limits: 44-120 %	Dilution: 1x							
<i>2-Fluorobiphenyl (Surr)</i>			77 %	44-120 %	"							
<i>Phenol-d6 (Surr)</i>			24 %	10-133 %	"							
<i>p-Terphenyl-d14 (Surr)</i>			84 %	50-134 %	"							
<i>2-Fluorophenol (Surr)</i>			39 %	19-120 %	"							
<i>2,4,6-Tribromophenol (Surr)</i>			86 %	43-140 %	"							

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C1133 - EPA 3015A						Water						
Blank (22C1133-BLK1)			Prepared: 03/29/22 10:02		Analyzed: 03/30/22 05:12							
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	B-02, J
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	1.16	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
Blank (22C1133-BLK2)			Prepared: 03/29/22 10:02		Analyzed: 04/01/22 16:02							
EPA 200.8												
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22C1133-BS1)			Prepared: 03/29/22 10:02		Analyzed: 03/30/22 05:17							
EPA 200.8												
Aluminum	2780	25.0	50.0	ug/L	1	2780	---	100	85-115%	---	---	B-02
Antimony	27.2	0.500	1.00	ug/L	1	27.8	---	98	85-115%	---	---	
Arsenic	52.8	0.500	1.00	ug/L	1	55.6	---	95	85-115%	---	---	
Beryllium	27.1	0.500	1.00	ug/L	1	27.8	---	97	85-115%	---	---	
Cadmium	52.0	0.100	0.200	ug/L	1	55.6	---	94	85-115%	---	---	
Calcium	2760	375	600	ug/L	1	2780	---	99	85-115%	---	---	
Chromium	54.4	1.00	2.00	ug/L	1	55.6	---	98	85-115%	---	---	
Copper	53.3	1.00	2.00	ug/L	1	55.6	---	96	85-115%	---	---	
Iron	2940	25.0	50.0	ug/L	1	2780	---	106	85-115%	---	---	
Lead	54.0	0.100	0.200	ug/L	1	55.6	---	97	85-115%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C1133 - EPA 3015A						Water						
LCS (22C1133-BS1)						Prepared: 03/29/22 10:02 Analyzed: 03/30/22 05:17						
Magnesium	2880	75.0	150	ug/L	1	2780	---	104	85-115%	---	---	
Mercury	1.00	0.0400	0.0800	ug/L	1	1.11	---	90	85-115%	---	---	
Nickel	54.3	1.00	2.00	ug/L	1	55.6	---	98	85-115%	---	---	
Selenium	27.6	0.500	1.00	ug/L	1	27.8	---	100	85-115%	---	---	
Silver	26.7	0.100	0.200	ug/L	1	27.8	---	96	85-115%	---	---	
Thallium	26.5	0.100	0.200	ug/L	1	27.8	---	96	85-115%	---	---	
Zinc	53.4	2.00	4.00	ug/L	1	55.6	---	96	85-115%	---	---	

Duplicate (22C1133-DUP1)

Prepared: 03/29/22 10:02 Analyzed: 03/30/22 05:56

QC Source Sample: West Valley View (WVV), OF (A2C0711-01)

<u>EPA 200.8</u>												
Aluminum	1190	25.0	50.0	ug/L	1	---	1160	---	---	3	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	0.886	0.500	1.00	ug/L	1	---	0.908	---	---	2	20%	J
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Calcium	22100	375	600	ug/L	1	---	22100	---	---	0.1	20%	
Chromium	2.33	1.00	2.00	ug/L	1	---	2.22	---	---	5	20%	B-02
Copper	6.57	1.00	2.00	ug/L	1	---	7.31	---	---	11	20%	
Iron	1180	25.0	50.0	ug/L	1	---	1190	---	---	0.4	20%	
Lead	2.51	0.100	0.200	ug/L	1	---	2.57	---	---	2	20%	
Magnesium	5480	75.0	150	ug/L	1	---	5550	---	---	1	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	1.74	1.00	2.00	ug/L	1	---	1.53	---	---	13	20%	J
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Zinc	23.3	2.00	4.00	ug/L	1	---	23.9	---	---	3	20%	

Duplicate (22C1133-DUP2)

Prepared: 03/29/22 10:02 Analyzed: 04/01/22 16:12

QC Source Sample: West Valley View (WVV), OF (A2C0711-01RE1)

<u>EPA 200.8</u>												
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	Q-16

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C1133 - EPA 3015A						Water						
Matrix Spike (22C1133-MS1)				Prepared: 03/29/22 10:02		Analyzed: 03/30/22 06:06						
QC Source Sample: North Ridge Terrace (NRT), OF (A2C0711-02)												
EPA 200.8												
Aluminum	3330	25.0	50.0	ug/L	1	2780	456	103	70-130%	---	---	B-02
Antimony	27.9	0.500	1.00	ug/L	1	27.8	ND	101	70-130%	---	---	
Arsenic	53.9	0.500	1.00	ug/L	1	55.6	0.650	96	70-130%	---	---	
Cadmium	52.6	0.100	0.200	ug/L	1	55.6	ND	95	70-130%	---	---	
Calcium	6560	375	600	ug/L	1	2780	3830	98	70-130%	---	---	
Chromium	55.4	1.00	2.00	ug/L	1	55.6	1.30	97	70-130%	---	---	
Copper	58.7	1.00	2.00	ug/L	1	55.6	5.05	97	70-130%	---	---	
Iron	3510	25.0	50.0	ug/L	1	2780	520	108	70-130%	---	---	
Lead	55.7	0.100	0.200	ug/L	1	55.6	1.25	98	70-130%	---	---	
Magnesium	3530	75.0	150	ug/L	1	2780	570	107	70-130%	---	---	
Mercury	1.05	0.0400	0.0800	ug/L	1	1.11	ND	95	70-130%	---	---	
Nickel	54.8	1.00	2.00	ug/L	1	55.6	ND	99	70-130%	---	---	
Selenium	27.8	0.500	1.00	ug/L	1	27.8	ND	100	70-130%	---	---	
Silver	27.5	0.100	0.200	ug/L	1	27.8	0.176	99	70-130%	---	---	
Thallium	27.3	0.100	0.200	ug/L	1	27.8	ND	98	70-130%	---	---	
Zinc	143	2.00	4.00	ug/L	1	55.6	89.7	96	70-130%	---	---	

Matrix Spike (22C1133-MS2)

Prepared: 03/29/22 10:02 Analyzed: 03/30/22 06:16

QC Source Sample: Colver Rd, OF (A2C0711-03)

EPA 200.8												
Aluminum	3560	25.0	50.0	ug/L	1	2780	705	103	70-130%	---	---	B-02
Antimony	27.5	0.500	1.00	ug/L	1	27.8	ND	99	70-130%	---	---	
Arsenic	53.7	0.500	1.00	ug/L	1	55.6	0.508	96	70-130%	---	---	
Cadmium	52.4	0.100	0.200	ug/L	1	55.6	ND	94	70-130%	---	---	
Calcium	8810	375	600	ug/L	1	2780	6030	100	70-130%	---	---	
Chromium	55.4	1.00	2.00	ug/L	1	55.6	1.70	97	70-130%	---	---	
Copper	60.1	1.00	2.00	ug/L	1	55.6	5.55	98	70-130%	---	---	
Iron	3630	25.0	50.0	ug/L	1	2780	675	106	70-130%	---	---	
Lead	55.1	0.100	0.200	ug/L	1	55.6	0.529	98	70-130%	---	---	
Magnesium	4120	75.0	150	ug/L	1	2780	1260	103	70-130%	---	---	
Mercury	1.04	0.0400	0.0800	ug/L	1	1.11	ND	93	70-130%	---	---	
Nickel	55.1	1.00	2.00	ug/L	1	55.6	ND	99	70-130%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C1133 - EPA 3015A						Water						
Matrix Spike (22C1133-MS2)			Prepared: 03/29/22 10:02		Analyzed: 03/30/22 06:16							
QC Source Sample: Colver Rd, OF (A2C0711-03)												
Selenium	27.4	0.500	1.00	ug/L	1	27.8	ND	99	70-130%	---	---	
Silver	27.4	0.100	0.200	ug/L	1	27.8	ND	99	70-130%	---	---	
Thallium	27.1	0.100	0.200	ug/L	1	27.8	ND	97	70-130%	---	---	
Zinc	66.9	2.00	4.00	ug/L	1	55.6	12.9	97	70-130%	---	---	
Matrix Spike (22C1133-MS3)			Prepared: 03/29/22 10:02		Analyzed: 04/01/22 16:24							
QC Source Sample: North Ridge Terrace (NRT), OF (A2C0711-02RE1)												
EPA 200.8												
Beryllium	27.0	0.100	0.200	ug/L	1	27.8	ND	97	70-130%	---	---	Q-16
Matrix Spike (22C1133-MS4)			Prepared: 03/29/22 10:02		Analyzed: 04/01/22 16:34							
QC Source Sample: Colver Rd, OF (A2C0711-03RE1)												
EPA 200.8												
Beryllium	27.2	0.100	0.200	ug/L	1	27.8	ND	98	70-130%	---	---	Q-16

Apex Laboratories

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Page 35 of 51



ANALYTICAL REPORT

AMENDED REPORT

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ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0397 - EPA 3015A						Water						
Blank (22D0397-BLK1)			Prepared: 04/12/22 13:45 Analyzed: 04/13/22 03:29									
EPA 200.8												
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
LCS (22D0397-BS1)			Prepared: 04/12/22 13:45 Analyzed: 04/13/22 03:34									
EPA 200.8												
Chromium	55.0	1.00	2.00	ug/L	1	55.6	---	99	85-115%	---	---	
Duplicate (22D0397-DUP1)			Prepared: 04/12/22 13:45 Analyzed: 04/13/22 03:59									
QC Source Sample: Non-SDG (A2D0017-01)												
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (22D0397-MS1)			Prepared: 04/12/22 13:45 Analyzed: 04/13/22 04:04									
QC Source Sample: Non-SDG (A2D0017-01)												
EPA 200.8												
Chromium	58.0	1.00	2.00	ug/L	1	55.6	ND	104	70-130%	---	---	
Matrix Spike (22D0397-MS3)			Prepared: 04/12/22 13:45 Analyzed: 04/14/22 22:50									
QC Source Sample: Non-SDG (A2D0276-01RE1)												
EPA 200.8												
Chromium	52.1	1.00	2.00	ug/L	1	55.6	ND	94	70-130%	---	---	Q-16

Apex Laboratories

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ANALYTICAL REPORT

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0672 - Method Prep: Aq						Water						
Blank (22C0672-BLK1)			Prepared: 03/16/22 16:10 Analyzed: 03/16/22 17:43									
EPA 300.0												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
LCS (22C0672-BS1)			Prepared: 03/16/22 16:10 Analyzed: 03/16/22 18:05									
EPA 300.0												
Nitrate-Nitrogen	2.01	0.125	0.250	mg/L	1	2.00	---	100	90-110%	---	---	
Nitrite-Nitrogen	2.03	0.125	0.250	mg/L	1	2.00	---	101	90-110%	---	---	
Duplicate (22C0672-DUP1)			Prepared: 03/16/22 16:10 Analyzed: 03/16/22 18:48									
QC Source Sample: Non-SDG (A2C0698-01)												
Nitrate-Nitrogen	1.71	0.125	0.250	mg/L	1	---	1.71	---	---	0.03	5%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (22C0672-MS1)			Prepared: 03/16/22 16:10 Analyzed: 03/16/22 19:09									
QC Source Sample: Non-SDG (A2C0698-01)												
EPA 300.0												
Nitrate-Nitrogen	4.25	0.156	0.312	mg/L	1	2.50	1.71	102	86-118%	---	---	
Nitrite-Nitrogen	2.57	0.156	0.312	mg/L	1	2.50	ND	103	82-117%	---	---	

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ANALYTICAL REPORT

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0810 - TKN block digestion						Water						
Blank (22C0810-BLK1)			Prepared: 03/21/22 09:01		Analyzed: 03/21/22 16:59							
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---	
LCS (22C0810-BS1)			Prepared: 03/21/22 09:01		Analyzed: 03/21/22 17:01							
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	4.88	0.100	0.200	mg/L	1	5.00	---	98	90-110%	---	---	
Matrix Spike (22C0810-MS1)			Prepared: 03/21/22 09:01		Analyzed: 03/21/22 17:05							
<u>QC Source Sample: Non-SDG (A2C0514-01)</u>												
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	6.96	0.100	0.200	mg/L	1	5.00	1.98	100	90-110%	---	---	
Matrix Spike (22C0810-MS2)			Prepared: 03/21/22 09:01		Analyzed: 03/21/22 17:25							
<u>QC Source Sample: West Valley View (WVV), OF (A2C0711-01)</u>												
<u>SM 4500-NorgD</u>												
Total Kjeldahl Nitrogen (TKN)	5.30	0.100	0.200	mg/L	1	5.00	0.431	97	90-110%	---	---	
Matrix Spike Dup (22C0810-MSD1)			Prepared: 03/21/22 09:01		Analyzed: 03/21/22 17:07							
<u>QC Source Sample: Non-SDG (A2C0514-01)</u>												
Total Kjeldahl Nitrogen (TKN)	6.81	0.100	0.200	mg/L	1	5.00	1.98	97	90-110%	2	10%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C1035 - Method Prep: Aq						Water						
Blank (22C1035-BLK1)			Prepared: 03/25/22 11:56 Analyzed: 03/25/22 17:12									
<u>SM 5310 C</u>												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22C1035-BS1)			Prepared: 03/25/22 11:56 Analyzed: 03/25/22 18:11									
<u>SM 5310 C</u>												
Total Organic Carbon	10.0	1.00	1.00	mg/L	1	10.0	---	100	90-114%	---	---	
Duplicate (22C1035-DUP1)			Prepared: 03/25/22 11:56 Analyzed: 03/25/22 22:41									
<u>QC Source Sample: Non-SDG (A2C0699-01)</u>												
Total Organic Carbon	4.68	1.00	1.00	mg/L	1	---	4.69	---	---	0.1	15%	
Duplicate (22C1035-DUP2)			Prepared: 03/25/22 11:56 Analyzed: 03/26/22 00:47									
<u>QC Source Sample: North Ridge Terrace (NRT), OF (A2C0711-02)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	2.44	1.00	1.00	mg/L	1	---	2.42	---	---	0.8	15%	
Matrix Spike (22C1035-MS1)			Prepared: 03/25/22 11:56 Analyzed: 03/25/22 23:11									
<u>QC Source Sample: Non-SDG (A2C0699-01)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	15.0	1.01	1.01	mg/L	1	10.0	4.69	103	85-115%	---	---	
Matrix Spike (22C1035-MS2)			Prepared: 03/25/22 11:56 Analyzed: 03/26/22 01:18									
<u>QC Source Sample: North Ridge Terrace (NRT), OF (A2C0711-02)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	12.9	1.01	1.01	mg/L	1	10.0	2.42	104	85-115%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0687 - Persulfate Digestion						Water						
Blank (22C0687-BLK1)			Prepared: 03/17/22 09:58		Analyzed: 03/18/22 15:15							
SM 4500-PE												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (22C0687-BS1)			Prepared: 03/17/22 09:58		Analyzed: 03/18/22 15:15							
SM 4500-PE												
Phosphorus	0.458	0.0500	0.100	mg/L	1	0.522	---	88	85-115%	---	---	
Matrix Spike (22C0687-MS1)			Prepared: 03/17/22 09:58		Analyzed: 03/18/22 15:17							
QC Source Sample: Non-SDG (A2C0634-01)												
SM 4500-PE												
Phosphorus	0.520	0.0500	0.100	mg/L	1	0.522	0.0504	90	85-115%	---	---	
Matrix Spike Dup (22C0687-MSD1)			Prepared: 03/17/22 09:58		Analyzed: 03/18/22 15:17							
QC Source Sample: Non-SDG (A2C0634-01)												
Phosphorus	0.541	0.0500	0.100	mg/L	1	0.522	0.0504	94	85-115%	4	20%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0742 - Persulfate Digestion						Water						
Blank (22C0742-BLK1)			Prepared: 03/18/22 08:29		Analyzed: 03/18/22 15:38							
<u>SM 4500-P-E</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (22C0742-BS1)			Prepared: 03/18/22 08:29		Analyzed: 03/18/22 15:38							
<u>SM 4500-P-E</u>												
Phosphorus	0.509	0.0500	0.100	mg/L	1	0.522	---	98	85-115%	---	---	
Matrix Spike (22C0742-MS1)			Prepared: 03/18/22 08:29		Analyzed: 03/18/22 15:39							TEMP
<u>QC Source Sample: Non-SDG (A2C0656-16)</u>												
<u>SM 4500-P-E</u>												
Phosphorus	0.483	0.0500	0.100	mg/L	1	0.522	ND	93	85-115%	---	---	
Matrix Spike Dup (22C0742-MSD1)			Prepared: 03/18/22 08:29		Analyzed: 03/18/22 15:40							TEMP
<u>QC Source Sample: Non-SDG (A2C0656-16)</u>												
Phosphorus	0.510	0.0500	0.100	mg/L	1	0.522	ND	98	85-115%	5	20%	

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ANALYTICAL REPORT

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0855 - Total Suspended Solids						Water						
Blank (22C0855-BLK1)			Prepared: 03/22/22 08:59 Analyzed: 03/22/22 08:59									
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22C0855-BS1)			Prepared: 03/22/22 08:59 Analyzed: 03/22/22 08:59									
<u>D3977-97 (07)</u>												
Total Suspended Solids	867	---	10.0	mg/L	1	867	---	100	85-115%	---	---	
LCS Dup (22C0855-BSD1)			Prepared: 03/22/22 08:59 Analyzed: 03/22/22 08:59									
<u>D3977-97 (07)</u>												
Total Suspended Solids	830	---	10.0	mg/L	1	830	---	100	85-115%	4.36	6%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22C1094							
A2C0711-01	Water	NWTPH-Dx LL	03/15/22 08:45	03/28/22 11:32	1020mL/2mL	1000mL/2mL	0.98
A2C0711-02	Water	NWTPH-Dx LL	03/15/22 09:00	03/28/22 11:32	1020mL/2mL	1000mL/2mL	0.98
A2C0711-03	Water	NWTPH-Dx LL	03/15/22 08:18	03/28/22 11:32	1020mL/2mL	1000mL/2mL	0.98

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22C0860							
A2C0711-01RE2	Water	EPA 8270E	03/15/22 08:45	03/22/22 08:40	950mL/1mL	1000mL/1mL	1.05
A2C0711-02RE1	Water	EPA 8270E	03/15/22 09:00	03/22/22 08:40	1020mL/1mL	1000mL/1mL	0.98
A2C0711-03	Water	EPA 8270E	03/15/22 08:18	03/22/22 08:40	1040mL/1mL	1000mL/1mL	0.96
A2C0711-03RE1	Water	EPA 8270E	03/15/22 08:18	03/22/22 08:40	1040mL/1mL	1000mL/1mL	0.96

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22C1133							
A2C0711-01	Water	EPA 200.8	03/15/22 08:45	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
A2C0711-01RE1	Water	EPA 200.8	03/15/22 08:45	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
A2C0711-02	Water	EPA 200.8	03/15/22 09:00	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
A2C0711-02RE1	Water	EPA 200.8	03/15/22 09:00	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
A2C0711-03	Water	EPA 200.8	03/15/22 08:18	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
A2C0711-03RE1	Water	EPA 200.8	03/15/22 08:18	03/29/22 10:02	45mL/50mL	45mL/50mL	1.00
Batch: 22D0397							
A2C0711-01RE1	Water	EPA 200.8	03/15/22 08:45	04/12/22 13:45	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22C0672							
A2C0711-01	Water	EPA 300.0	03/15/22 08:45	03/16/22 16:10	5mL/5mL	5mL/5mL	1.00
A2C0711-02	Water	EPA 300.0	03/15/22 09:00	03/16/22 16:10	5mL/5mL	5mL/5mL	1.00
A2C0711-03	Water	EPA 300.0	03/15/22 08:18	03/16/22 16:10	5mL/5mL	5mL/5mL	1.00

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Prep: TKN block digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Batch: 22C0810

A2C0711-01	Water	SM 4500-NorgD	03/15/22 08:45	03/21/22 09:01	25mL/25mL	25mL/25mL	1.00
A2C0711-02	Water	SM 4500-NorgD	03/15/22 09:00	03/21/22 09:01	25mL/25mL	25mL/25mL	1.00
A2C0711-03	Water	SM 4500-NorgD	03/15/22 08:18	03/21/22 09:01	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Batch: 22C1035

A2C0711-01	Water	SM 5310 C	03/15/22 08:45	03/25/22 11:56	40mL/40mL	40mL/40mL	1.00
A2C0711-02	Water	SM 5310 C	03/15/22 09:00	03/25/22 11:56	40mL/40mL	40mL/40mL	1.00
A2C0711-03	Water	SM 5310 C	03/15/22 08:18	03/25/22 11:56	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Prep: Persulfate Digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Batch: 22C0687

A2C0711-01	Water	SM 4500-P E	03/15/22 08:45	03/17/22 09:58	25mL/50mL	25mL/50mL	1.00
A2C0711-02	Water	SM 4500-P E	03/15/22 09:00	03/17/22 09:58	25mL/50mL	25mL/50mL	1.00

Batch: 22C0742

A2C0711-03	Water	SM 4500-P E	03/15/22 08:18	03/18/22 08:29	25mL/50mL	25mL/50mL	1.00

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Batch: 22C0855

A2C0711-01	Water	D3977-97 (07)	03/15/22 08:45	03/22/22 08:59			NA
A2C0711-02	Water	D3977-97 (07)	03/15/22 09:00	03/22/22 08:59			NA
A2C0711-03	Water	D3977-97 (07)	03/15/22 08:18	03/22/22 08:59			NA

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street****Tigard, OR 97223****503-718-2323****ORELAP ID: OR100062****Rogue Valley Council of Governments****155 North First St/PO Box 3275****Central Point, OR 97502**Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****SAMPLE PREPARATION INFORMATION****Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration****Prep: Total Suspended Solids**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Apex Laboratories

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****QUALIFIER DEFINITIONS****Client Sample and Quality Control (QC) Sample Qualifier Definitions:****Apex Laboratories**

- AMEND** The Result, Reporting Level, Recovery and/or RPD has changed. Note: Batch QC marked as AMENDED may or may not have been issued prior to the change. Case Narrative included if client data is affected.
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- E** Estimated Value. The result is above the calibration range of the instrument.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- TEMP** Sample was received outside of recommended temperature. See Case Narrative.

Apex Laboratories

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested.
The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring-2022**Project Number: **Alameda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2C0711 - 01 20 23 1645****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Page 49 of 51

ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: **OR100062**

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: **Alameda Post Fire Monitoring**

Project Manager: **Greg Stabach**

Report ID:

A2C0711 - 01 20 23 1645

[illegible]

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2022

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2C0711 - 01 20 23 1645

APEX LABS COOLER RECEIPT FORM

Client: RVCOG Element WO#: A2 C0711

Project/Project #: Alameda Post Fire Monitoring 2022

Delivery Info:

Date/time received: 3/16/22 @ 1045 By: JS

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 3/16/22 @ 1047 By: JS

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.2	3.4	1.3				

Received on ice? (Y/N) ☒ ☒ ☒Temp. blanks? (Y/N) ☒ ☒ ☒

Ice type: (Gel/Real/Other) real real real

Condition: good good good

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 3-16-22 @ 1340 By: DS

All samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: ID Reads wrong for West Valley View,

ID Reads NAT for North Ridge Terrace. Time on 1 of 2 chambers reads 8:18 for West Valley View

COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

Additional information: ID reader cooler Rd.

Labeled by: Witness: Cooler Inspected by:

AKK

JS

AKK

Apex Laboratories

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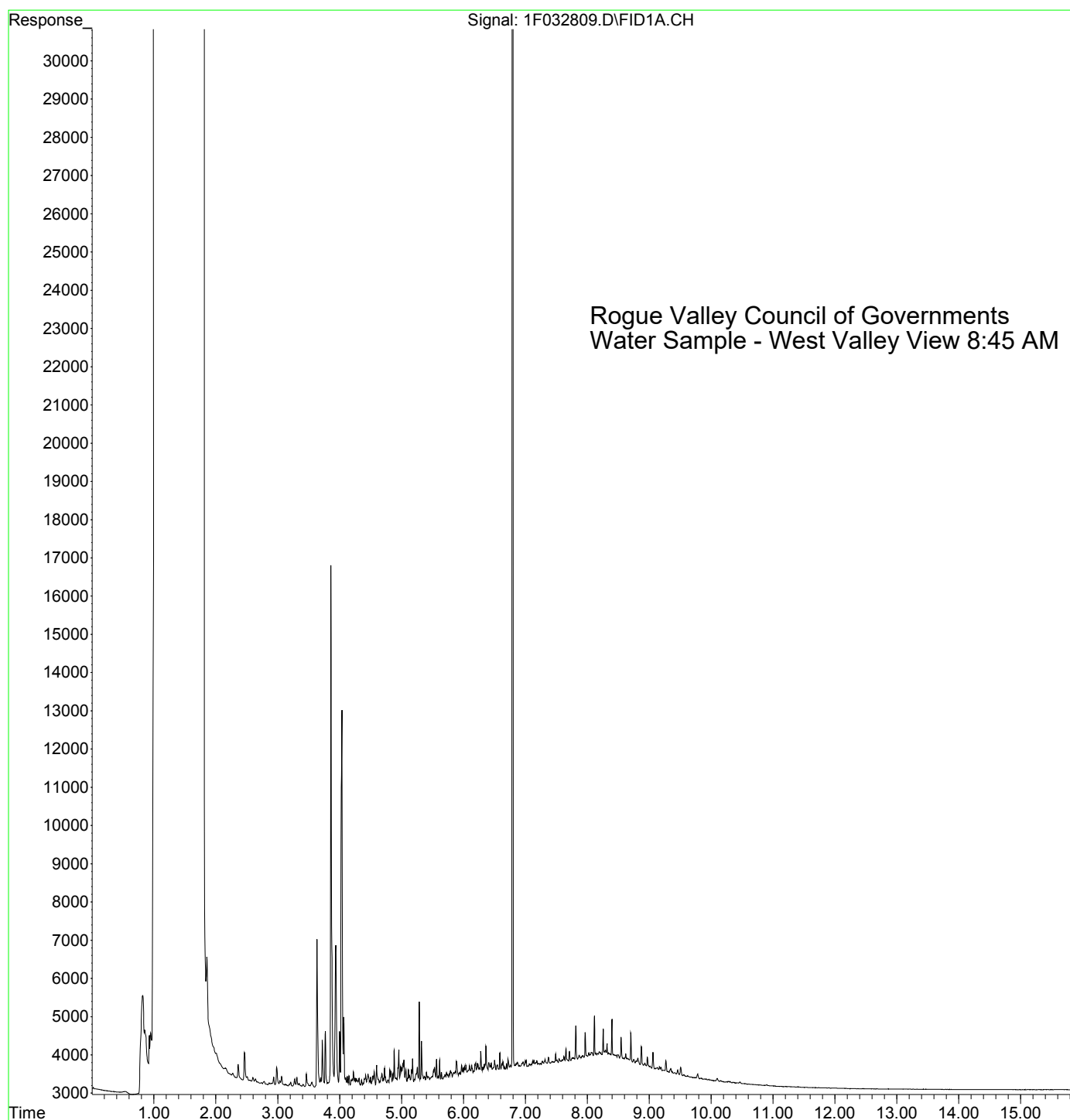
Michele Poquiz

Michele Poquiz For Kurt Johnson, Senior Chemist

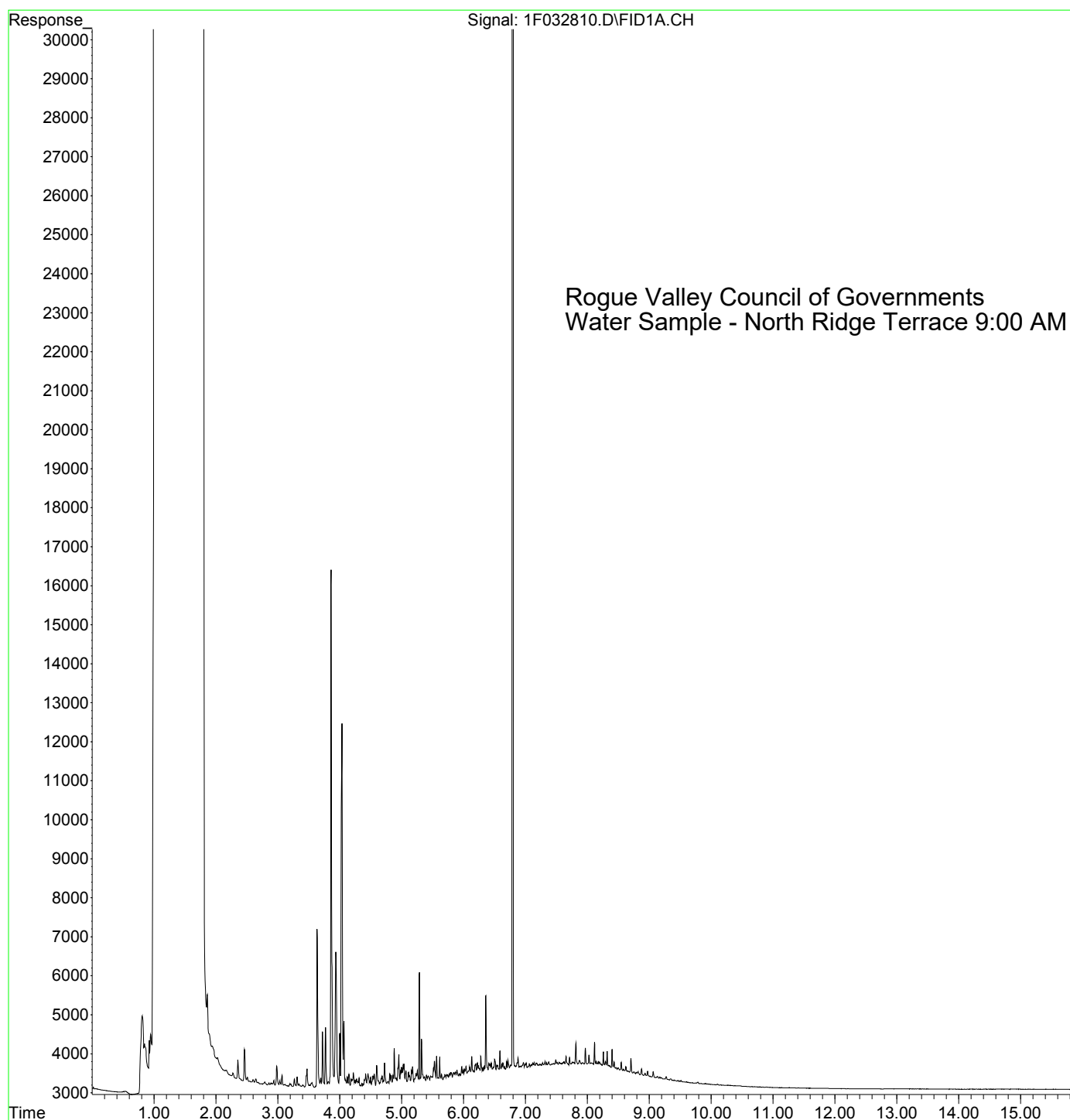
01/20/23 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 51 of 92

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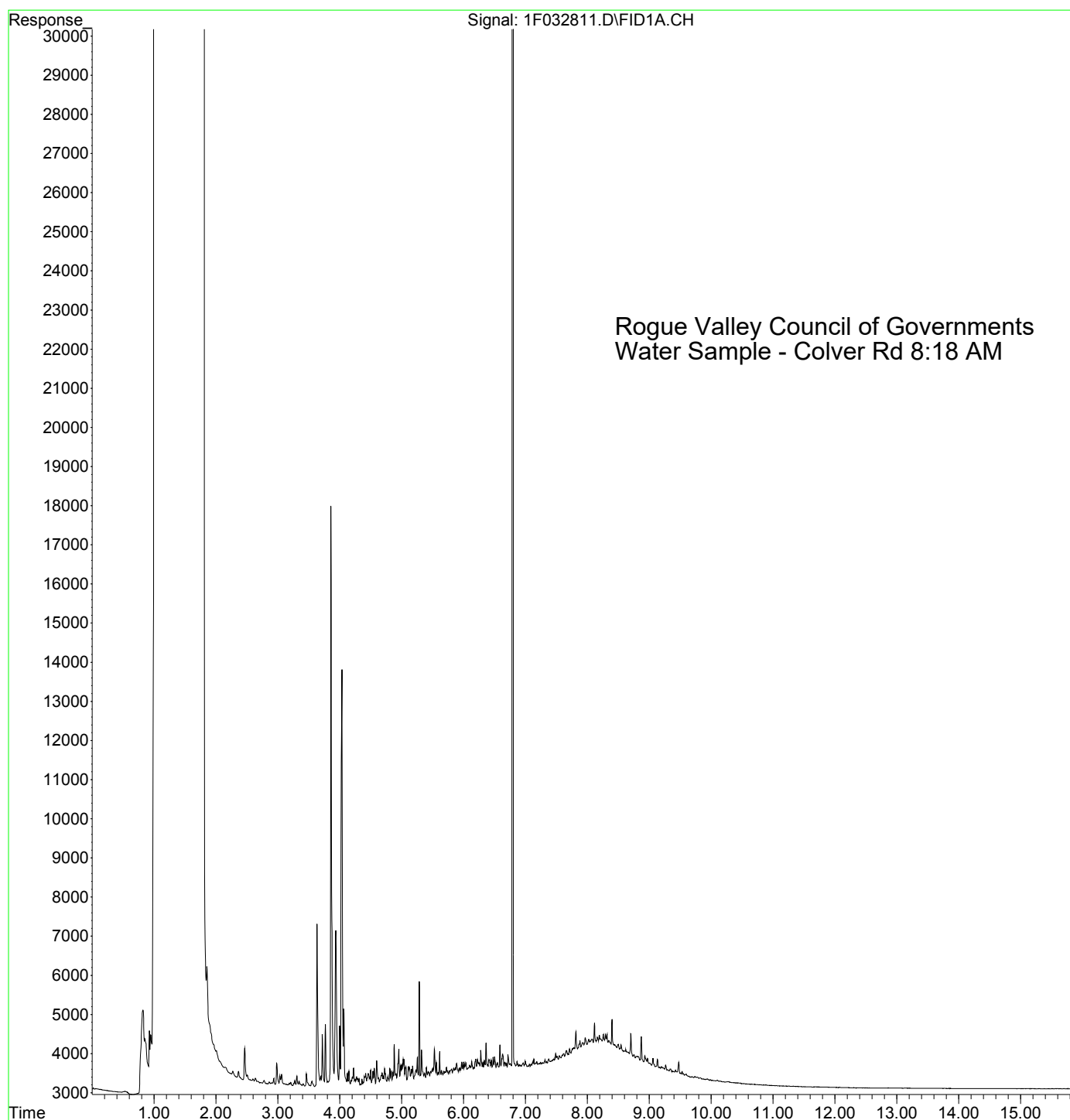
File :C:\msdchem\1\data\2022-01-06\2C28050\1F032809.D
Operator : BLL
Acquired : 28 Mar 2022 10:45 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2C0711-01
Misc Info :
Vial Number: 6



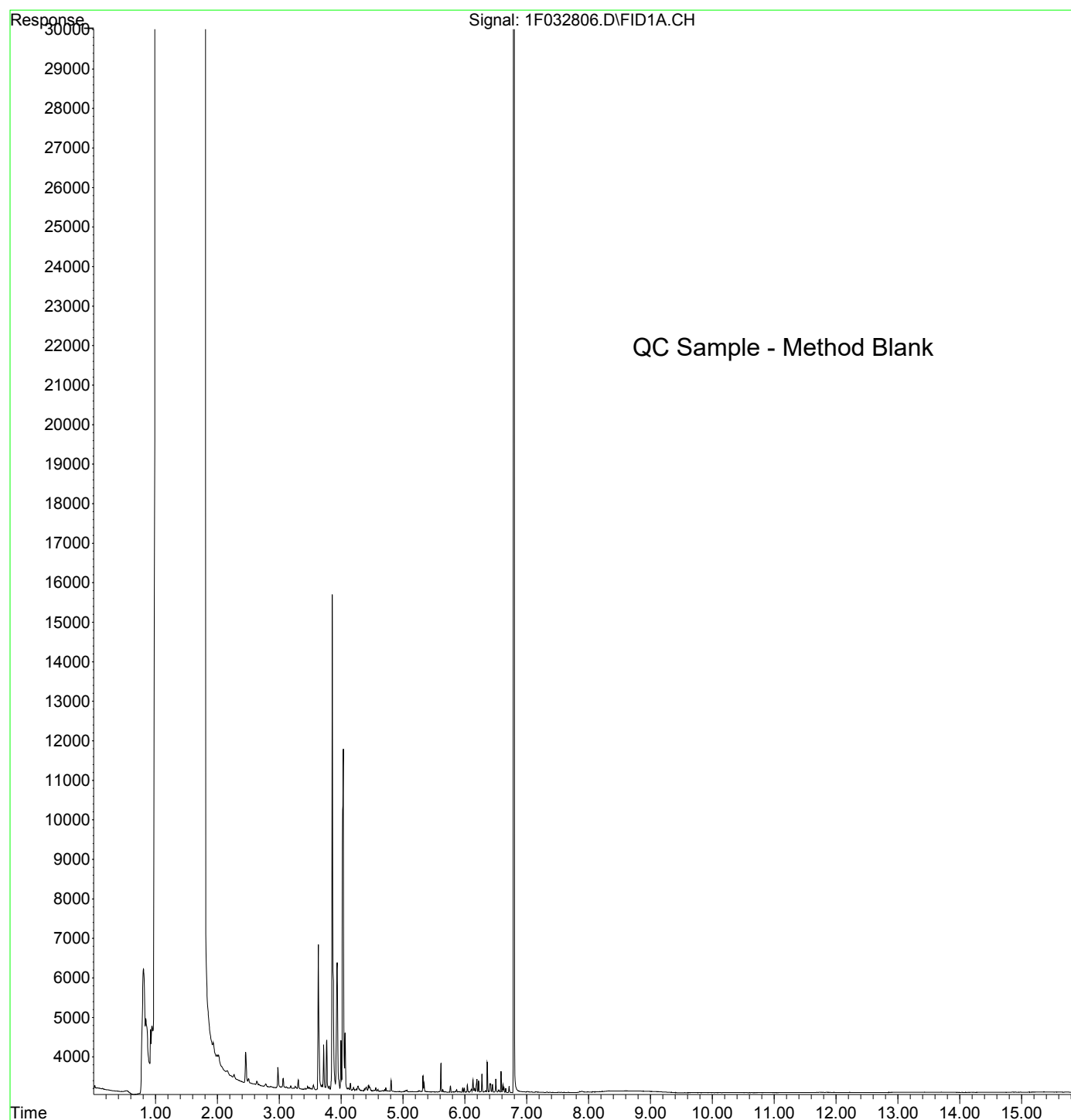
File :C:\msdchem\1\data\2022-01-06\2C28050\1F032810.D
Operator : BLL
Acquired : 28 Mar 2022 11:07 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2C0711-02
Misc Info :
Vial Number: 7



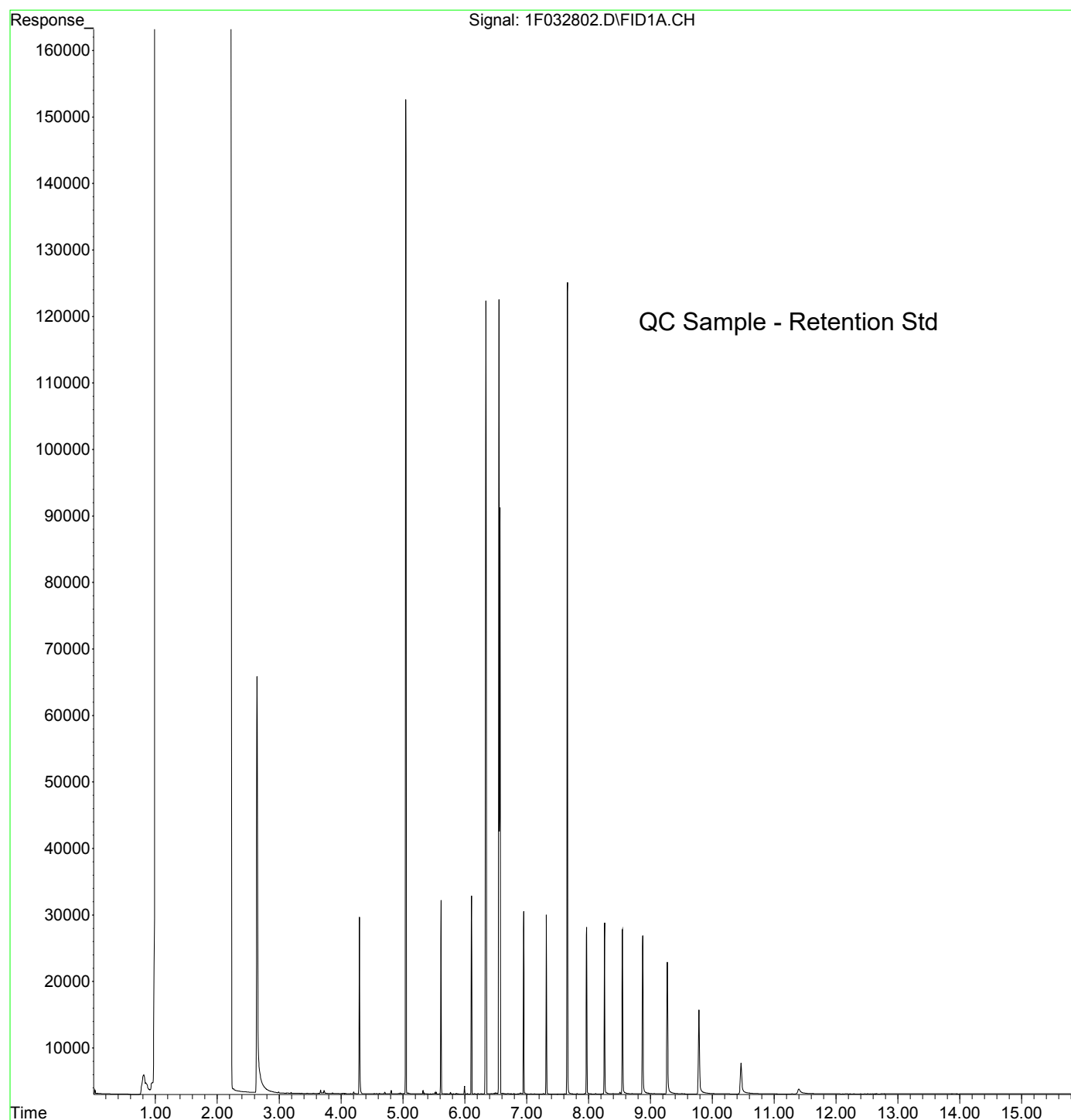
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Operator : BLL
Acquired : 28 Mar 2022 11:30 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2C0711-03
Misc Info :
Vial Number: 8



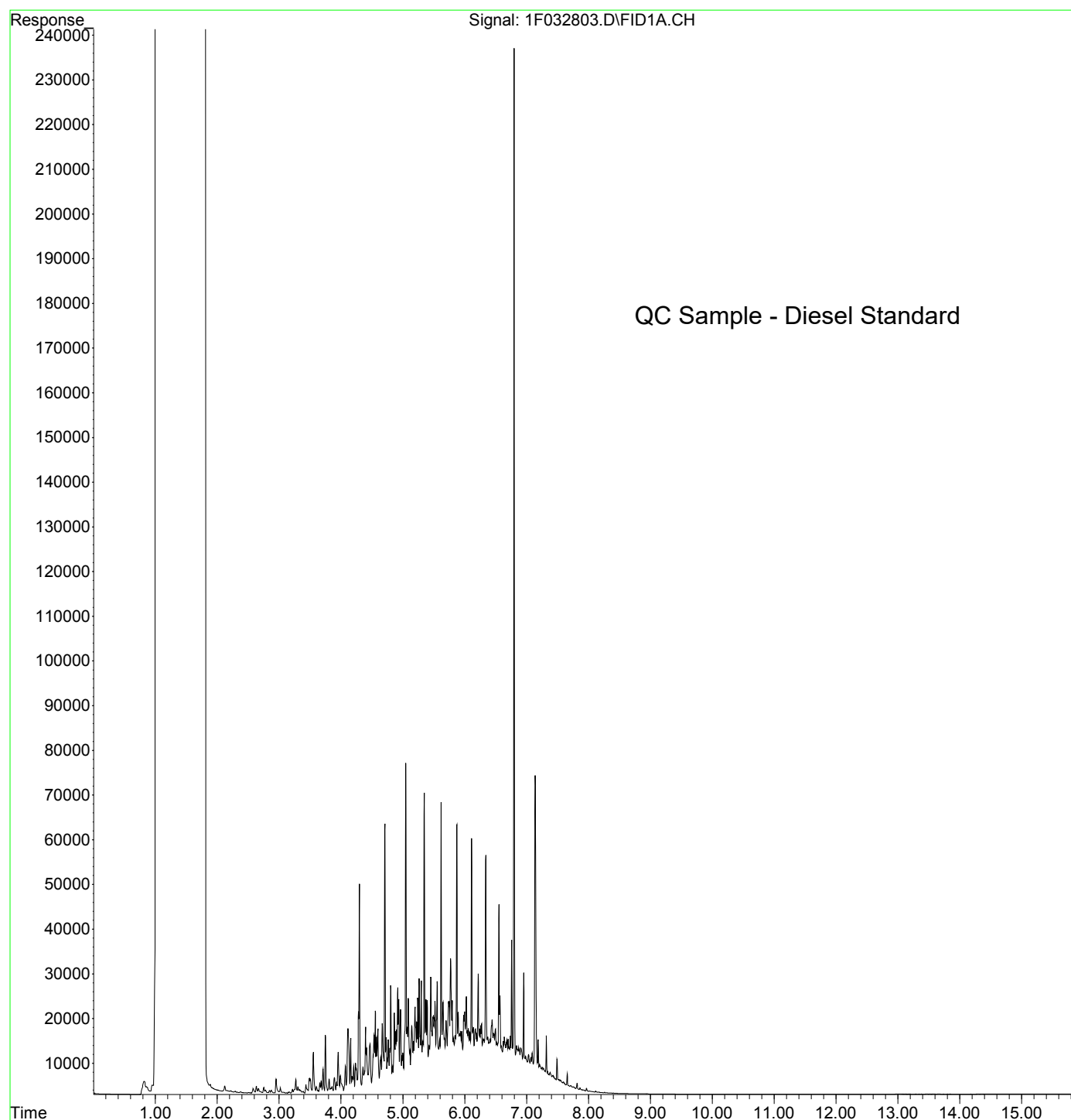
File :C:\msdchem\1\data\2022-01-06\2C28050\1F032806.D
Operator : BLL
Acquired : 28 Mar 2022 9:37 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 22C1094-BLK1
Misc Info :
Vial Number: 3



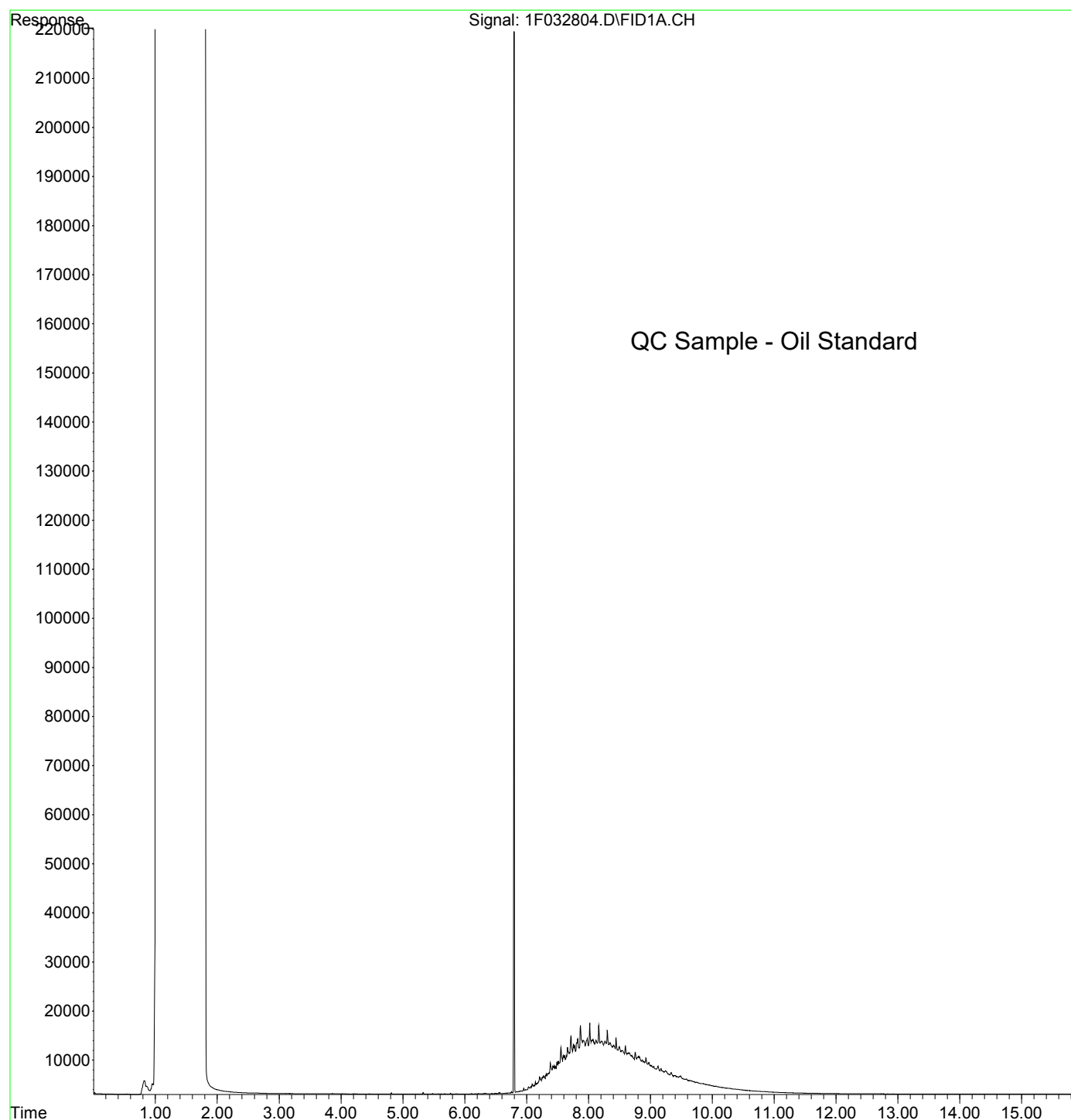
File :C:\msdchem\1\data\2022-01-06\2C28050\1F032802.D
Operator : BLL
Acquired : 28 Mar 2022 4:02 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2C28050-RES1
Misc Info :
Vial Number: 94



File :C:\msdchem\1\data\2022-01-06\2C28050\1F032803.D
Operator : BLL
Acquired : 28 Mar 2022 4:26 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2C28050-CCV1
Misc Info :
Vial Number: 1



File :C:\msdchem\1\data\2022-01-06\2C28050\1F032804.D
Operator : BLL
Acquired : 28 Mar 2022 4:49 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2C28050-CCV2
Misc Info :
Vial Number: 2



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
West Valley View (WVV), OF (A2C0711-01RE2)			
Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl-, (1R,5S)-	038651-65-9	7.535	0.43
Benzothiazole	000095-16-9	8.134	0.50
Phthalic anhydride	000085-44-9	8.627	0.39
Octadecanoic acid	000057-11-4	12.606	0.44
n-Hexadecanoic acid	000057-10-3	11.718	0.92
Eicosane	000112-95-8	18.201	0.54
Heneicosane, 11-decyl-	055320-06-4	19.864	0.77
North Ridge Terrace (NRT), OF (A2C0711-02RE1)			
Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl-, (1R,5S)-	038651-65-9	7.535	0.25
Caffeine	000058-08-2	11.338	0.19
n-Hexadecanoic acid	000057-10-3	11.718	1.4
Octadecanoic acid	000057-11-4	12.606	0.61
Colver Rd, OF (A2C0711-03RE1)			
Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl-, (1R,5S)-	038651-65-9	7.535	0.31
Benzene, (1-methyldecyl)-	004536-88-3	10.627	0.31
n-Hexadecanoic acid	000057-10-3	11.713	0.38
Tricosane	000638-67-5	18.195	0.52
Hexacosane	000630-01-3	19.864	0.72



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2693345
Date of Report: 2-May-22
Date of Sample Receipt: 18-Mar-22

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
USA
Client Contact: Michele Poquiz
Client Project ID: A2C0711

COMMENTS: Brominated Flame Retardants by EPA 1614

Certified by:

A handwritten signature in black ink, appearing to read "R. McLeod", is written over a horizontal line.

Ron McLeod, PhD
Director, Air Toxics & Special Chemistries, Life Sciences

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences

Sample Analysis Summary Report

Sample Name	WEST VALLEY VIEW (WVV), OF	NORTH RIDGE TERRACE (NRT), OF	COLVER RD, OF
ALS Sample ID	L2693345-1	L2693345-2	L2693345-3
Sample Size	0.98	0.98	1.01
Sample size units	L	L	L
Percent Moisture	n/a	n/a	n/a
Sample Matrix	Water	Water	Water
Sampling Date	15-Mar-22	15-Mar-22	15-Mar-22
Extraction Date	9-Apr-22	9-Apr-22	9-Apr-22
Target Analytes	pg/L	pg/L	pg/L
BDE 10	<1.4	<1.5	<1.1
BDE 7	<1.3	<1.4	<1.0
BDE 8/11	<0.95	<1.0	<0.73
BDE 12/13	<0.82	<0.89	<0.64
BDE 15	<0.70	<0.75	<0.54
BDE 30	<5.2	<3.5	<3.2
BDE 32	<3.8	<2.6	<2.3
BDE 17/25	<4.7	<3.2	<2.8
BDE 28/33	<4.6	<5.0	<2.8
BDE 35	<3.3	<2.2	<2.0
BDE 37	<3.3	<2.2	<2.0
PBEB	<1.8	<1.8	<1.7
HBB	<3.2	<2.5	<2.4
BDE 75	<3.3	<2.4	<2.5
BDE 51	<3.0	<2.2	<2.2
BDE 49	<4.3	9.23	<7.0
BDE 71	<4.4	<3.2	<3.3
BDE 47	100	142	96.5
BDE 79	<2.4	<1.8	<1.8
BDE 66	<4.8	<4.9	<3.6
BDE 77	<2.8	<2.0	<2.1
BDE 100	28.1	30.6	22.7
BDE 119/120	<4.3	<3.0	<2.9
BDE 99	110	145	104
BDE 116	<7.5	<5.2	<5.1
BDE 83	<6.2	<4.3	<4.2
BDE 118	<4.9	<3.5	<3.4
BDE 85	<4.5	<7.9	<3.1
BDE 126	<2.8	<2.1	<2.0
BDE 105	<5.2	<3.6	<3.5
BDE 155	<3.6	<3.2	<2.5
BDE 154	11.3	<8.8	12.8
BDE 153	<14	<12	<15
BDE 140	<11	<9.3	<7.1
BDE 138/166	<19	<16	<12
BDE 156	<25	<21	<16
BDE 128	<23	<20	<15
BDE 184	<0.73	<0.52	<0.41
BDE 183	<8.8	<6.8	6.50
BDE 191	<0.87	<1.2	<0.93
BDE 181	<2.0	<3.2	<2.0
BDE 190	<0.97	<1.8	<1.5
BDE 197	7.65	4.63	4.16
BDE 203	12.4	4.26	3.57
BDE 196	6.57	3.70	2.31
BDE 208	30.5	16.0	9.33
BDE 207	73.4	<28	26.1
BDE 206	74.9	<37	<26
BDE 209	651	372	228
DBDPE	777	<330	<200
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L
Di BDE	<0.7	<0.75	<0.54
Tri BDE	<3.3	5.00	<2
Tetra BDE	100	156	104
Penta BDE	138	184	127
Hexa BDE	11.3	8.80	27.8
Hepta BDE	12.4	10.0	8.50
Octa BDE	26.6	12.6	10.0
Nona BDE	179	81.0	61.4
Deca BDE	651	372	228
Total PBDEs	1120	829	566
Extraction Standards	% Rec	% Rec	% Rec
13C12 BDE 3			
13C12 BDE 15	49	52	49
13C12 BDE 28	51	52	51
13C6 HBB	45	48	48
13C12 BDE 47	54	56	59
13C12 BDE 77	66	73	74
13C12 BDE 100	64	70	69
13C12 BDE 99	62	68	71
13C12 BDE 126	65	70	66
13C12 BDE 154	63	66	65
13C12 BDE 153	57	59	65
13C12 BDE 183	64	59	56
13C12 BDE 197	60	58	53
13C12 BDE 207	71	68	60
13C12 BDE 209	29	19	21
13C14 DBDPE	15	5	7
13C12 BTBPE			
Cleanup Standard			
13C12 BDE 138 Cleanup	83	77	76

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3708060-1	WG3708060-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	9-Apr-22	9-Apr-22
Target Analytes	pg/L	% Rec
BDE 10	<0.10	14
BDE 7	<0.094	36
BDE 8/11	<0.067	70
BDE 12/13	<0.058	61
BDE 15	<0.049	98
BDE 30	<0.16	39
BDE 32	<0.11	88
BDE 17/25	<0.14	92
BDE 28/33	<0.14	94
BDE 35	<0.097	103
BDE 37	<0.098	108
PBEB	<0.084	114
PBB 52	<0.17	108
HBB	<1.7	100
BDE 75	<0.12	79
BDE 51	<0.10	82
BDE 49	<0.15	81
BDE 71	<0.15	86
BDE 47	4.72	94
BDE 79	<0.085	66
BDE 66	<0.17	83
BDE 77	<0.098	94
PBB 101	<0.098	79
BDE 100	<0.92	96
BDE 119/120	<0.25	95
BDE 99	<4.1	96
BDE 116	<0.43	57
BDE 83	<0.36	99
BDE 118	<0.29	104
BDE 85	<0.26	101
BDE 126	<0.15	98
BDE 105	<0.30	102
PBB 153	<0.17	118
BDE 155	<0.21	110
BDE 154	<0.45	92
BDE 153	<0.58	94
BDE 140	<0.61	115
BDE 138/166	<1.0	107
BDE 156	<1.4	119
BDE 128	<1.3	134
BDE 184	<0.22	88
BDE 183	<0.32	98
BDE 191	<0.50	99
BDE 181	<0.53	81
BDE 190	<0.79	89
PBB 180	<0.68	103
BDE 197	<0.41	93
BDE 203	<0.66	96
BDE 196	<0.58	108
PBB 194	<1.1	97
BDE 208	<0.93	97
BDE 207	<0.75	96
BDE 206	<0.90	98
PBB 206	<7.2	112
PBB 209	<1.8	89
BDE 209	<9.5	95
DBDPE	<110	96
BTBPE		
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	<0.049	
Tri BDE	<0.097	
Tetra BDE	4.72	
Penta BDE	5.02	
Hexa BDE	0.450	
Hepta BDE	<0.22	
Octa BDE	<0.41	
Nona BDE	<0.75	
Deca BDE	<9.5	
Total PBDEs	10.2	
Extraction Standards	% Rec	% Rec
13C12 BDE 3		
13C12 BDE 15	50	65
13C12 BDE 28	63	86
13C6 HBB	54	67
13C12 BDE 47	77	105
13C12 BDE 77	96	115
13C12 BDE 100	68	80
13C12 BDE 99	70	88
13C12 BDE 126	73	94
13C12 BDE 154	50	64
13C12 BDE 153	66	86
13C12 BDE 183	63	73
13C12 BDE 197	57	74
13C12 BDE 207	66	79
13C12 BDE 209	16	30
13C14 DBDPE	4	14
13C12 BTBPE		
Cleanup Standard		
13C12 BDE 138 Cleanup	73	95

ALS Life Sciences

Sample Analysis Report

Sample Name WEST VALLEY VIEW (WVV), OF
ALS Sample ID L2693345-1
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 15-Mar-22
Extraction Date 9-Apr-22
Sample Size 0.98 L
Percent Moisture n/a
Split Ratio 1

Approved:
K. BERG
 --e-signature--
 26-Apr-2022

Run Information

Run 1

Filename 9-220423A06
Run Date 23-Apr-22 02:22
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS 9 DB51752741H

Run 2

Filename 9-220423B17
Run Date 24-Apr-22 01:52
Final Volume 25 uL
Dilution Factor 6
Analysis Units pg/L
Instrument - Column HRMS 9 DB51752741H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10							NotFnd	<1.4	1.4	U		150
BDE 7							NotFnd	<1.3	1.3	U		150
BDE 8/11							NotFnd	<0.95	0.95	U		310
BDE 12/13							NotFnd	<0.82	0.82	U		310
BDE 15							NotFnd	<0.70	0.70	U		150
BDE 30							NotFnd	<5.2	5.2	U		150
BDE 32							NotFnd	<3.8	3.8	U		150
BDE 17/25							NotFnd	<4.7	4.7	U		310
BDE 28/33							8.88	<4.6	4.6	M,U	4.3	310
BDE 35							NotFnd	<3.3	3.3	U		150
BDE 37							NotFnd	<3.3	3.3	U		150
PBEB							NotFnd	<1.8	1.8	U		150
HBB							NotFnd	<3.2	3.2	U		150
BDE 75							NotFnd	<3.3	3.3	U		150
BDE 51							NotFnd	<3.0	3.0	U		150
BDE 49							NotFnd	<4.3	4.3	U		150
BDE 71							NotFnd	<4.4	4.4	U		150
BDE 47							10.77	100	3.4	J		150
BDE 79							NotFnd	<2.4	2.4	U		150
BDE 66							NotFnd	<4.8	4.8	U		150
BDE 77							NotFnd	<2.8	2.8	U		150
BDE 100							12.43	28.1	2.0	J		230
BDE 119/120							NotFnd	<4.3	4.3	U		230
BDE 99							12.94	110	3.1	J		230
BDE 116							NotFnd	<7.5	7.5	U		230
BDE 83							NotFnd	<6.2	6.2	U		230
BDE 118							NotFnd	<4.9	4.9	U		230
BDE 85							NotFnd	<4.5	4.5	U		230
BDE 126							NotFnd	<2.8	2.8	U		230
BDE 105							NotFnd	<5.2	5.2	U		230
BDE 155							NotFnd	<3.6	3.6	U		310
BDE 154							14.38	11.3	3.7	J		310
BDE 153							NotFnd	<14	14	U		310
BDE 140							NotFnd	<11	11	U		310
BDE 138/166							NotFnd	<19	19	U		610
BDE 156							NotFnd	<25	25	U		310
BDE 128							NotFnd	<23	23	U		310
BDE 184	16.91	<0.73	0.27	J,R	0.73	64						
BDE 183	17.29	<8.8	0.39	J,R	8.8	64						
BDE 191	17.87	<0.87	0.61	J,R	0.87	64						
BDE 181	18.42	<2.0	0.65	M,J,R	2.0	64						
BDE 190	NotFnd	<0.97	0.97	U		64						
BDE 197	19.77	7.65	0.40	J		64						
BDE 203	20.02	12.4	0.64	J		64						
BDE 196	20.16	6.57	0.56	J		64						
BDE 208	21.50	30.5	1.2	J		130						
BDE 207	21.63	73.4	0.94	J		130						
BDE 206	21.93	74.9	1.1	J		130						
BDE 209	23.75	651	5.6			130						
DBDPE	25.29	777	33	M		260						

Extraction Standards	pg	% Rec	Limits	% Rec	Limits
13C12 BDE 15	1000			7.31	49 25-150
13C12 BDE 28	1000			8.87	51 25-150
13C6 HBB	1000			10.21	45 25-150
13C12 BDE 47	1000			10.77	54 25-150
13C12 BDE 77	1000			11.53	66 25-150
13C12 BDE 100	1000			12.41	64 25-150
13C12 BDE 99	1000			12.92	62 25-150
13C12 BDE 126	1000			13.99	65 25-150
13C12 BDE 154	1000			14.36	63 25-150
13C12 BDE 153	1000			15.10	57 25-150
13C12 BDE 183	1000	17.29	64 25-150		
13C12 BDE 197	2000	19.76	60 25-150		
13C12 BDE 207	5000	21.63	71 25-150		
13C12 BDE 209	5000	23.75	29 20-200		
13C14 DBDPE	10000	25.29	15 5-200		

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	16.09	83 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	NORTH RIDGE TERRACE (NRT), OF	Sampling Date	15-Mar-22	Approved: K.BERG --e-signature-- 26-Apr-2022
ALS Sample ID	L2693345-2	Extraction Date	9-Apr-22	
Analysis Method	EPA 1614	Sample Size	0.98 L	
Analysis Type	Sample	Percent Moisture	n/a	
Sample Matrix	Water	Split Ratio	1	

Run Information	Run 1	Run 2
Filename	9-220423A07	9-220423B18
Run Date	23-Apr-22 02:59	24-Apr-22 02:29
Final Volume	25 uL	25 uL
Dilution Factor	1	6
Analysis Units	pg/L	pg/L
Instrument - Column	HRMS 9 DB51752741H	HRMS 9 DB51752741H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10							NotFnd	<1.5	1.5	U		150
BDE 7							NotFnd	<1.4	1.4	U		150
BDE 8/11							NotFnd	<1.0	1.0	U		310
BDE 12/13							NotFnd	<0.89	0.89	U		310
BDE 15							NotFnd	<0.75	0.75	U		150
BDE 30							NotFnd	<3.5	3.5	U		150
BDE 32							NotFnd	<2.6	2.6	U		150
BDE 17/25							NotFnd	<3.2	3.2	U		310
BDE 28/33							8.88	<5.0	3.1	J,R	5.0	310
BDE 35							NotFnd	<2.2	2.2	U		150
BDE 37							NotFnd	<2.2	2.2	U		150
PBEB							NotFnd	<1.8	1.8	U		150
HBB							NotFnd	<2.5	2.5	U		150
BDE 75							NotFnd	<2.4	2.4	U		150
BDE 51							NotFnd	<2.2	2.2	U		150
BDE 49							10.44	9.23	3.2	M,J		150
BDE 71							NotFnd	<3.2	3.2	U		150
BDE 47							10.77	142	2.6	J		150
BDE 79							NotFnd	<1.8	1.8	U		150
BDE 66							11.07	<4.9	3.5	M,J,R	4.9	150
BDE 77							NotFnd	<2.0	2.0	U		150
BDE 100							12.41	30.6	1.4	J		230
BDE 119/120							NotFnd	<3.0	3.0	U		230
BDE 99							12.92	145	2.1	J		230
BDE 116							NotFnd	<5.2	5.2	U		230
BDE 83							NotFnd	<4.3	4.3	U		230
BDE 118							NotFnd	<3.5	3.5	U		230
BDE 85							13.83	<7.9	3.1	M,J,R	7.9	230
BDE 126							NotFnd	<2.1	2.1	U		230
BDE 105							NotFnd	<3.6	3.6	U		230
BDE 155							NotFnd	<3.2	3.2	U		310
BDE 154							14.36	<8.8	3.3	J,R	8.8	310
BDE 153							NotFnd	<12	12	U		310
BDE 140							NotFnd	<9.3	9.3	U		310
BDE 138/166							NotFnd	<16	16	U		610
BDE 156							NotFnd	<21	21	U		310
BDE 128							NotFnd	<20	20	U		310
BDE 184	NotFnd	<0.52	0.52	U		64						
BDE 183	17.26	<6.8	0.75	J,R	6.8	64						
BDE 191	NotFnd	<1.2	1.2	U		64						
BDE 181	18.40	<3.2	1.2	M,J,R	3.2	64						
BDE 190	NotFnd	<1.8	1.8	U		64						
BDE 197	19.73	4.63	0.70	J		64						
BDE 203	20.00	4.26	1.1	J		64						
BDE 196	20.14	3.70	0.98	J		64						
BDE 208	21.47	16.0	1.8	J		130						
BDE 207	21.60	<28	1.5	J,R	28	130						
BDE 206	21.90	<37	1.8	J,R	37	130						
BDE 209	23.71	372	9.5			130						
DBDPE	25.24	<330	130	M,R	330	260						

Extraction Standards	pg	% Rec	Limits	% Rec	Limits
13C12 BDE 15	1000			7.30	52 25-150
13C12 BDE 28	1000			8.86	52 25-150
13C6 HBB	1000			10.21	48 25-150
13C12 BDE 47	1000			10.76	56 25-150
13C12 BDE 77	1000			11.53	73 25-150
13C12 BDE 100	1000			12.41	70 25-150
13C12 BDE 99	1000			12.91	68 25-150
13C12 BDE 126	1000			13.99	70 25-150
13C12 BDE 154	1000			14.35	66 25-150
13C12 BDE 153	1000			15.10	59 25-150
13C12 BDE 183	1000	17.25	59 25-150		
13C12 BDE 197	2000	19.73	58 25-150		
13C12 BDE 207	5000	21.60	68 25-150		
13C12 BDE 209	5000	23.71	19 20-200	M	
13C14 DBDPE	10000	25.23	5 5-200		

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	16.07	77 30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	COLVER RD, OF	Sampling Date	15-Mar-22	Approved: <i>K.BERG</i> --e-signature-- 26-Apr-2022
ALS Sample ID	L2693345-3	Extraction Date	9-Apr-22	
Analysis Method	EPA 1614	Sample Size	1.01 L	
Analysis Type	Sample	Percent Moisture	n/a	
Sample Matrix	Water	Split Ratio	1	

Run Information	Run 1	Run 2
Filename	9-220423A08	9-220423B19
Run Date	23-Apr-22 03:35	24-Apr-22 03:05
Final Volume	25 uL	25 uL
Dilution Factor	1	6
Analysis Units	pg/L	pg/L
Instrument - Column	HRMS 9 DB51752741H	HRMS 9 DB51752741H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10							NotFnd	<1.1	1.1	U		150
BDE 7							NotFnd	<1.0	1.0	U		150
BDE 8/11							NotFnd	<0.73	0.73	U		300
BDE 12/13							NotFnd	<0.64	0.64	U		300
BDE 15							NotFnd	<0.54	0.54	U		150
BDE 30							NotFnd	<3.2	3.2	U		150
BDE 32							NotFnd	<2.3	2.3	U		150
BDE 17/25							NotFnd	<2.8	2.8	U		300
BDE 28/33							NotFnd	<2.8	2.8	U		300
BDE 35							NotFnd	<2.0	2.0	U		150
BDE 37							NotFnd	<2.0	2.0	U		150
PBEB							NotFnd	<1.7	1.7	U		150
HBB							NotFnd	<2.4	2.4	U		150
BDE 75							NotFnd	<2.5	2.5	U		150
BDE 51							NotFnd	<2.2	2.2	U		150
BDE 49							10.43	<7.0	3.2	J,R	7.0	150
BDE 71							NotFnd	<3.3	3.3	U		150
BDE 47							10.77	96.5	2.6	J		150
BDE 79							NotFnd	<1.8	1.8	U		150
BDE 66							NotFnd	<3.6	3.6	U		150
BDE 77							NotFnd	<2.1	2.1	U		150
BDE 100							12.41	22.7	1.4	J		220
BDE 119/120							NotFnd	<2.9	2.9	U		220
BDE 99							12.92	104	2.0	J		220
BDE 116							NotFnd	<5.1	5.1	U		220
BDE 83							NotFnd	<4.2	4.2	U		220
BDE 118							NotFnd	<3.4	3.4	U		220
BDE 85							NotFnd	<3.1	3.1	U		220
BDE 126							NotFnd	<2.0	2.0	U		220
BDE 105							NotFnd	<3.5	3.5	U		220
BDE 155							NotFnd	<2.5	2.5	U		300
BDE 154							14.36	12.8	2.7	J		300
BDE 153							15.08	<15	8.5	M,J,R	15	300
BDE 140							NotFnd	<7.1	7.1	U		300
BDE 138/166							NotFnd	<12	12	U		600
BDE 156							NotFnd	<16	16	U		300
BDE 128							NotFnd	<15	15	U		300
BDE 184	NotFnd	<0.41	0.41	U		62						
BDE 183	17.27	6.50	0.60	J		62						
BDE 191	NotFnd	<0.93	0.93	U		62						
BDE 181	18.42	<2.0	0.98	J,R	2.0	62						
BDE 190	NotFnd	<1.5	1.5	U		62						
BDE 197	19.76	4.16	0.65	J		62						
BDE 203	20.02	3.57	1.0	J		62						
BDE 196	20.15	2.31	0.92	M,J		62						
BDE 208	21.50	9.33	1.7	J		120						
BDE 207	21.63	26.1	1.4	J		120						
BDE 206	21.92	<26	1.7	M,J,R	26	120						
BDE 209	23.74	228	8.6	M		120						
DBDPE	25.26	<200	81	J,R	200	250						

Extraction Standards	pg	% Rec Limits		% Rec Limits	
13C12 BDE 15	1000			7.30	49 25-150
13C12 BDE 28	1000			8.86	51 25-150
13C6 HBB	1000			10.21	48 25-150
13C12 BDE 47	1000			10.76	59 25-150
13C12 BDE 77	1000			11.53	74 25-150
13C12 BDE 100	1000			12.41	69 25-150
13C12 BDE 99	1000			12.91	71 25-150
13C12 BDE 126	1000			13.99	66 25-150
13C12 BDE 154	1000			14.35	65 25-150
13C12 BDE 153	1000			15.10	65 25-150
13C12 BDE 183	1000	17.27	56 25-150		
13C12 BDE 197	2000	19.76	53 25-150		
13C12 BDE 207	5000	21.61	60 25-150		
13C12 BDE 209	5000	23.73	21 20-200		
13C14 DBDPE	10000	25.25	7 5-200		

Cleanup Standard	pg	% Rec Limits	
13C12 BDE 138 Cleanup	2000	16.09	76 30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	Method Blank	Sampling Date	n/a	L	Approved: K.BERG --e-signature-- 26-Apr-2022
ALS Sample ID	WG3708060-1	Extraction Date	9-Apr-22		
Analysis Method	EPA 1614	Sample Size	1.00		
Analysis Type	Blank	Percent Moisture	n/a		
Sample Matrix	QC	Split Ratio	1		

Run Information	Run 1
Filename	9-220423A05
Run Date	23-Apr-22 01:45
Final Volume	25 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS 9 DB51752741H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.10	0.10	U		25
BDE 7	NotFnd	<0.094	0.094	U		25
BDE 8/11	NotFnd	<0.067	0.067	U		50
BDE 12/13	NotFnd	<0.058	0.058	U		50
BDE 15	NotFnd	<0.049	0.049	U		25
BDE 30	NotFnd	<0.16	0.16	U		25
BDE 32	NotFnd	<0.11	0.11	U		25
BDE 17/25	NotFnd	<0.14	0.14	U		50
BDE 28/33	NotFnd	<0.14	0.14	U		50
BDE 35	NotFnd	<0.097	0.097	U		25
BDE 37	NotFnd	<0.098	0.098	U		25
PBEB	NotFnd	<0.084	0.084	U		25
PBB 52	NotFnd	<0.17	0.17	U		25
HBB	10.23	<1.7	0.26	M,J,R	1.7	25
BDE 75	NotFnd	<0.12	0.12	U		25
BDE 51	NotFnd	<0.10	0.10	U		25
BDE 49	NotFnd	<0.15	0.15	U		25
BDE 71	NotFnd	<0.15	0.15	U		25
BDE 47	10.79	4.72	0.12	J		25
BDE 79	NotFnd	<0.085	0.085	U		25
BDE 66	NotFnd	<0.17	0.17	U		25
BDE 77	NotFnd	<0.098	0.098	U		25
PBB 101	NotFnd	<0.098	0.098	U		50
BDE 100	12.44	<0.92	0.13	J,R	0.92	38
BDE 119/120	NotFnd	<0.25	0.25	U		38
BDE 99	12.95	<4.1	0.18	J,R	4.1	38
BDE 116	NotFnd	<0.43	0.43	U		38
BDE 83	NotFnd	<0.36	0.36	U		38
BDE 118	NotFnd	<0.29	0.29	U		38
BDE 85	NotFnd	<0.26	0.26	U		38
BDE 126	NotFnd	<0.15	0.15	U		38
BDE 105	NotFnd	<0.30	0.30	U		38
PBB 153	NotFnd	<0.17	0.17	U		50
BDE 155	NotFnd	<0.21	0.21	U		50
BDE 154	14.39	<0.45	0.25	J,R	0.45	50
BDE 153	NotFnd	<0.58	0.58	U		50
BDE 140	NotFnd	<0.61	0.61	U		50
BDE 138/166	NotFnd	<1.0	1.0	U		100
BDE 156	NotFnd	<1.4	1.4	U		50
BDE 128	NotFnd	<1.3	1.3	U		50
BDE 184	NotFnd	<0.22	0.22	U		63
BDE 183	NotFnd	<0.32	0.32	U		63
BDE 191	NotFnd	<0.50	0.50	U		63
BDE 181	NotFnd	<0.53	0.53	U		63
BDE 190	NotFnd	<0.79	0.79	U		63
PBB 180	NotFnd	<0.68	0.68	U		50
BDE 197	NotFnd	<0.41	0.41	U		63
BDE 203	NotFnd	<0.66	0.66	U		63
BDE 196	NotFnd	<0.58	0.58	U		63
PBB 194	NotFnd	<1.1	1.1	U		50
BDE 208	NotFnd	<0.93	0.93	U		130
BDE 207	NotFnd	<0.75	0.75	U		130
BDE 206	NotFnd	<0.90	0.90	U		130
PBB 206	NotFnd	<7.2	7.2	U		130
PBB 209	NotFnd	<1.8	1.8	U		130
BDE 209	NotFnd	<9.5	9.5	U		130
DBDPE	NotFnd	<110	110	U		250

Extraction Standards	pg	% Rec	Limits
13C12 BDE 15	1000	7.31	50 25-150
13C12 BDE 28	1000	8.86	63 25-150
13C6 HBB	1000	10.21	54 25-150
13C12 BDE 47	1000	10.77	77 25-150
13C12 BDE 77	1000	11.54	96 25-150
13C12 BDE 100	1000	12.43	68 25-150
13C12 BDE 99	1000	12.94	70 25-150
13C12 BDE 126	1000	14.00	73 25-150
13C12 BDE 154	1000	14.38	50 25-150
13C12 BDE 153	1000	15.12	66 25-150
13C12 BDE 183	1000	17.25	63 25-150
13C12 BDE 197	2000	19.72	57 25-150
13C12 BDE 207	5000	21.60	66 25-150
13C12 BDE 209	5000	23.69	16 20-200 M
13C14 DBDPE	10000	25.22	4 5-200

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	16.07	73 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.

 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	Laboratory Control Sample	Sampling Date	n/a	Approved: K.BERG --e-signature-- 26-Apr-2022
ALS Sample ID	WG3708060-2	Extraction Date	9-Apr-22	
Analysis Method	EPA 1614	Sample Size	1 n/a	
Analysis Type	LCS	Percent Moisture	n/a	
Sample Matrix	QC	Split Ratio	1	

Run Information	Run 1
Filename	9-220423A02
Run Date	22-Apr-22 23:55
Final Volume	25 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS 9 DBS1752741H

Target Analytes	pg	Ret. Time	% Rec	Limits	Flags
BDE 10	400	6.50	14	5-130	
BDE 7	400	6.88	36	5-130	
BDE 8/11	800	7.06	70	50-150	
BDE 12/13	800	7.17	61	5-130	
BDE 15	400	7.31	98	50-150	
BDE 30	400	8.00	39	5-130	
BDE 32	400	8.47	88	50-150	
BDE 17/25	800	8.64	92	50-150	
BDE 28/33	800	8.86	94	50-150	
BDE 35	400	9.02	103	50-150	
BDE 37	400	9.22	108	50-150	
PBEB	400	9.23	114	50-150	
PBB 52	400	9.33	108	50-150	
HBB	400	10.23	100	50-150	
BDE 75	400	10.28	79	50-150	
BDE 51	400	10.35	82	50-150	
BDE 49	400	10.44	81	50-150	
BDE 71	400	10.51	86	50-150	
BDE 47	400	10.79	94	50-150	
BDE 79	400	10.95	66	50-150	
BDE 66	400	11.07	83	50-150	
BDE 77	400	11.56	94	50-150	
PBB 101	800	11.69	79	50-150	
BDE 100	600	12.44	96	50-150	
BDE 119/120	1200	12.63	95	50-150	
BDE 99	600	12.96	96	50-150	
BDE 116	600	13.11	57	40-140	
BDE 83	600	13.25	99	50-150	
BDE 118	600	13.37	104	50-150	
BDE 85	600	13.86	101	50-150	
BDE 126	600	14.03	98	50-150	
BDE 105	600	14.18	102	50-150	
PBB 153	800	14.35	118	50-150	
BDE 155	800	14.02	110	50-150	
BDE 154	800	14.40	92	50-150	
BDE 153	800	15.15	94	50-150	
BDE 140	800	15.59	115	50-150	
BDE 138/166	1600	16.09	107	50-150	
BDE 156	800	16.47	119	50-150	
BDE 128	800	17.08	134	50-150	
BDE 184	1000	16.89	88	50-150	
BDE 183	1000	17.26	98	50-150	
BDE 191	1000	17.82	99	50-150	
BDE 181	1000	18.37	81	50-150	
BDE 190	1000	18.52	89	50-150	
PBB 180	800	17.37	103	50-150	
BDE 197	1000	19.73	93	50-150	
BDE 203	1000	20.00	96	50-150	
BDE 196	1000	20.14	108	50-150	
PBB 194	800	20.20	97	50-150	
BDE 208	2000	21.47	97	50-150	
BDE 207	2000	21.60	96	50-150	
BDE 206	2000	21.90	98	50-150	
PBB 206	2000	21.31	112	40-200	
PBB 209	2000	22.27	89	40-200	
BDE 209	2000	23.70	95	40-200	
DBDPE	4000	25.22	96	40-200	
Extraction Standards	pg		% Rec	Limits	
13C12 BDE 15	1000	7.30	65	25-150	
13C12 BDE 28	1000	8.86	86	30-140	
13C6 HBB	1000	10.23	67	30-140	
13C12 BDE 47	1000	10.77	105	30-140	
13C12 BDE 77	1000	11.54	115	30-140	
13C12 BDE 100	1000	12.44	80	30-140	
13C12 BDE 99	1000	12.95	88	30-140	
13C12 BDE 126	1000	14.02	94	30-140	
13C12 BDE 154	1000	14.39	64	30-140	
13C12 BDE 153	1000	15.13	86	30-140	
13C12 BDE 183	1000	17.25	73	30-140	
13C12 BDE 197	2000	19.73	74	30-140	
13C12 BDE 207	5000	21.60	79	30-140	
13C12 BDE 209	5000	23.69	30	20-200	
13C14 DBDPE	10000	25.21	14	5-200	
Cleanup Standard	pg				
13C12 BDE 138 Cleanup	2000	16.08	95	40-125	

R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.



908 North Temperance Ave. - Clovis, CA 93611 - Phone 559-275-2175 - www.applinc.com

NELAP Certification Number: CA00046
DoD-ELAP Certification Number: 4064.01

May 26, 2022

Greg Stabach
RVCOG
155 N Front St.
Central Point, OR 97502

RE: Almeda Fire
Work Order: 22C0171

Enclosed are the results of analyses for samples received by our laboratory on 3/16/2022. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,

Greg Salata
Project Manager

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RVCOG
155 N Front St.
Central Point, OR 97502

Project: Almeda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Analysis Case Narrative

HRMS

EPA 8290A: The 220406A LCS recovered below the lower control limit for 1,2,3,4,7,8,9-HPCDF, 1,2,3,7,8,9-HXCDF and seven surrogates.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
22C0171-01	WVW	Water	03/15/2022 08:45	03/16/2022
22C0171-02	NRT	Water	03/15/2022 09:00	03/16/2022
22C0171-03	COLVER RD	Water	03/15/2022 08:18	03/16/2022

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Sample Results

Sample: WVV

22C0171-01 (Water)

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances

PFBA	3.8	J	16	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFPEA	2.0	J	8.2	0.32	ng/L	03/19/22	1	PFAS	BBC0283
PFHXA	4.2		4.1	0.33	ng/L	03/19/22	1	PFAS	BBC0283
PFHPA	1.2	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFOA	4.6		4.1	0.42	ng/L	03/19/22	1	PFAS	BBC0283
PFNA	1.0	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFDA	2.3	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFUDA	1.2	J	4.1	0.41	ng/L	03/19/22	1	PFAS	BBC0283
PFDOA	2.9	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFTRDA	0.45	J	4.1	0.30	ng/L	03/19/22	1	PFAS	BBC0283
PFTEDA	0.59	J	4.1	0.44	ng/L	03/19/22	1	PFAS	BBC0283
PFBS	2.1	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFPEs	ND		4.1	0.30	ng/L	03/19/22	1	PFAS	BBC0283
PFHXS	ND		4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFHPS	ND		4.1	0.29	ng/L	03/19/22	1	PFAS	BBC0283
PFOS	3.2	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFNS	ND		4.1	4.0	ng/L	03/19/22	1	PFAS	BBC0283
PFDS	ND		4.1	0.33	ng/L	03/19/22	1	PFAS	BBC0283
4:2 FTS	ND		16	0.56	ng/L	03/19/22	1	PFAS	BBC0283
6:2 FTS	3.0	J	16	0.46	ng/L	03/19/22	1	PFAS	BBC0283
8:2 FTS	ND		16	1.0	ng/L	03/19/22	1	PFAS	BBC0283
PFOSA	ND		16	0.26	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSA	ND		16	5.1	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSA	ND		16	5.1	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSAA	ND		4.1	0.37	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSAA	ND		4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSE	ND		16	3.1	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSE	ND		16	3.1	ng/L	03/19/22	1	PFAS	BBC0283
HFPO-DA	ND		8.2	2.5	ng/L	03/19/22	1	PFAS	BBC0283
ADONA	ND		8.2	1.3	ng/L	03/19/22	1	PFAS	BBC0283
9-CL-PF3ONS	ND		8.2	1.2	ng/L	03/19/22	1	PFAS	BBC0283
11-CL-PF3OUDS	ND		8.2	1.2	ng/L	03/19/22	1	PFAS	BBC0283
Surrogate: 13C4-PFBA	77.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C5-PFPEA	65.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C5-PFHXA	78.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C4-PFHPA	79.9%		50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOA	81.3%		50-150			03/19/22	1	PFAS	
Surrogate: 13C9-PFNA	80.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C6-PFDA	82.3%		50-150			03/19/22	1	PFAS	
Surrogate: 13C7-PFUDA	85.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-PFDOA	92.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-PFTEDA	98.7%		50-150			03/19/22	1	PFAS	
Surrogate: 13C3-PFBS	81.0%		50-150			03/19/22	1	PFAS	
Surrogate: 13C3-PFHXS	83.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOS	80.6%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-4:2FTS	112%		50-150			03/19/22	1	PFAS	

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RVCOG
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Central Point, OR 97502

Project: Alameda Fire
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Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Sample Results (Continued)

Sample: WVW (Continued)
22C0171-01 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: 13C2-6:2FTS	88.6%	50-150			03/19/22	1	PFAS	
Surrogate: 13C2-8:2FTS	87.6%	50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOA	77.8%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	65.6%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	63.6%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	81.4%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	83.3%	50-150			03/19/22	1	PFAS	
Surrogate: D7-NMEFOE	82.9%	50-150			03/19/22	1	PFAS	
Surrogate: D9-NETFOE	88.1%	50-150			03/19/22	1	PFAS	
Surrogate: 13C3-HFPO-DA	76.8%	50-150			03/19/22	1	PFAS	

RVCOG
155 N Front St.
Central Point, OR 97502

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Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Sample Results (Continued)

Sample: NRT
22C0171-02 (Water)

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances

PFBA	2.9	J	16	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFPEA	3.2	J	7.9	0.31	ng/L	03/19/22	1	PFAS	BBC0283
PFHXA	6.9		3.9	0.31	ng/L	03/19/22	1	PFAS	BBC0283
PFHPA	1.8	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFOA	3.7	J	3.9	0.40	ng/L	03/19/22	1	PFAS	BBC0283
PFNA	1.0	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFDA	3.1	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFUDA	0.98	J	3.9	0.39	ng/L	03/19/22	1	PFAS	BBC0283
PFDOA	2.5	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFTRDA	0.66	J	3.9	0.29	ng/L	03/19/22	1	PFAS	BBC0283
PFTEDA	1.6	J	3.9	0.42	ng/L	03/19/22	1	PFAS	BBC0283
PFBS	0.49	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFPEs	ND		3.9	0.29	ng/L	03/19/22	1	PFAS	BBC0283
PFHXS	ND		3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFHPS	ND		3.9	0.28	ng/L	03/19/22	1	PFAS	BBC0283
PFOS	1.9	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
PFNS	ND		3.9	3.8	ng/L	03/19/22	1	PFAS	BBC0283
PFDS	ND		3.9	0.31	ng/L	03/19/22	1	PFAS	BBC0283
4:2 FTS	ND		16	0.53	ng/L	03/19/22	1	PFAS	BBC0283
6:2 FTS	ND		16	0.44	ng/L	03/19/22	1	PFAS	BBC0283
8:2 FTS	ND		16	0.99	ng/L	03/19/22	1	PFAS	BBC0283
PFOSA	ND		16	0.25	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSA	ND		16	4.9	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSA	ND		16	4.8	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSAA	0.46	J	3.9	0.35	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSAA	0.68	J	3.9	0.25	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSE	ND		16	3.0	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSE	ND		16	3.0	ng/L	03/19/22	1	PFAS	BBC0283
HFPO-DA	ND		7.9	2.4	ng/L	03/19/22	1	PFAS	BBC0283
ADONA	ND		7.9	1.3	ng/L	03/19/22	1	PFAS	BBC0283
9-CL-PF3ONS	ND		7.9	1.2	ng/L	03/19/22	1	PFAS	BBC0283
11-CL-PF3OUDS	ND		7.9	1.2	ng/L	03/19/22	1	PFAS	BBC0283

Surrogate: 13C4-PFBA	81.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C5-PFPEA	70.0%		50-150			03/19/22	1	PFAS	
Surrogate: 13C5-PFHXA	89.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C4-PFHPA	86.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOA	84.0%		50-150			03/19/22	1	PFAS	
Surrogate: 13C9-PFNA	89.7%		50-150			03/19/22	1	PFAS	
Surrogate: 13C6-PFDA	87.7%		50-150			03/19/22	1	PFAS	
Surrogate: 13C7-PFUDA	91.8%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-PFDOA	93.3%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-PFTEDA	104%		50-150			03/19/22	1	PFAS	
Surrogate: 13C3-PFBS	86.5%		50-150			03/19/22	1	PFAS	
Surrogate: 13C3-PFHXS	82.1%		50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOS	83.2%		50-150			03/19/22	1	PFAS	
Surrogate: 13C2-4:2FTS	104%		50-150			03/19/22	1	PFAS	

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Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Sample Results (Continued)

Sample: NRT (Continued)
22C0171-02 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: 13C2-6:2FTS	86.2%	50-150			03/19/22	1	PFAS	
Surrogate: 13C2-8:2FTS	92.2%	50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOA	76.0%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	65.9%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	67.2%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	83.7%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	78.7%	50-150			03/19/22	1	PFAS	
Surrogate: D7-NMEFOE	83.0%	50-150			03/19/22	1	PFAS	
Surrogate: D9-NETFOE	93.0%	50-150			03/19/22	1	PFAS	
Surrogate: 13C3-HFPO-DA	79.9%	50-150			03/19/22	1	PFAS	

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Sample Results (Continued)

Sample: COLVER RD
22C0171-03 (Water)

Analyte	Result /Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances

PFBA	8.3	J	16	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFPEA	5.2	J	8.2	0.32	ng/L	03/19/22	1	PFAS	BBC0283
PFHXA	6.8		4.1	0.33	ng/L	03/19/22	1	PFAS	BBC0283
PFHPA	2.9	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFOA	11		4.1	0.42	ng/L	03/19/22	1	PFAS	BBC0283
PFNA	3.2	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFDA	8.1		4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFUDA	1.5	J	4.1	0.41	ng/L	03/19/22	1	PFAS	BBC0283
PFDOA	3.1	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFTRDA	0.51	J	4.1	0.30	ng/L	03/19/22	1	PFAS	BBC0283
PFTEDA	0.57	J	4.1	0.44	ng/L	03/19/22	1	PFAS	BBC0283
PFBS	2.7	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFPEs	ND		4.1	0.30	ng/L	03/19/22	1	PFAS	BBC0283
PFHXS	0.70	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFHPS	ND		4.1	0.29	ng/L	03/19/22	1	PFAS	BBC0283
PFOS	22		4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
PFNS	ND		4.1	4.0	ng/L	03/19/22	1	PFAS	BBC0283
PFDS	ND		4.1	0.33	ng/L	03/19/22	1	PFAS	BBC0283
4:2 FTS	ND		16	0.55	ng/L	03/19/22	1	PFAS	BBC0283
6:2 FTS	24		16	0.46	ng/L	03/19/22	1	PFAS	BBC0283
8:2 FTS	ND		16	1.0	ng/L	03/19/22	1	PFAS	BBC0283
PFOSA	1.1	J	16	0.26	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSA	ND		16	5.1	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSA	ND		16	5.1	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSAA	1.0	J	4.1	0.37	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSAA	2.7	J	4.1	0.26	ng/L	03/19/22	1	PFAS	BBC0283
N-MEFOSE	ND		16	3.1	ng/L	03/19/22	1	PFAS	BBC0283
N-ETFOSE	ND		16	3.1	ng/L	03/19/22	1	PFAS	BBC0283
HFPO-DA	ND		8.2	2.5	ng/L	03/19/22	1	PFAS	BBC0283
ADONA	ND		8.2	1.3	ng/L	03/19/22	1	PFAS	BBC0283
9-CL-PF3ONS	ND		8.2	1.2	ng/L	03/19/22	1	PFAS	BBC0283
11-CL-PF3OUDS	ND		8.2	1.2	ng/L	03/19/22	1	PFAS	BBC0283

Surrogate: 13C4-PFBA	79.9%	50-150	03/19/22	1	PFAS
Surrogate: 13C5-PFPEA	68.7%	50-150	03/19/22	1	PFAS
Surrogate: 13C5-PFHXA	88.1%	50-150	03/19/22	1	PFAS
Surrogate: 13C4-PFHPA	89.8%	50-150	03/19/22	1	PFAS
Surrogate: 13C8-PFOA	85.9%	50-150	03/19/22	1	PFAS
Surrogate: 13C9-PFNA	80.5%	50-150	03/19/22	1	PFAS
Surrogate: 13C6-PFDA	88.7%	50-150	03/19/22	1	PFAS
Surrogate: 13C7-PFUDA	98.5%	50-150	03/19/22	1	PFAS
Surrogate: 13C2-PFDOA	98.5%	50-150	03/19/22	1	PFAS
Surrogate: 13C2-PFTEDA	116%	50-150	03/19/22	1	PFAS
Surrogate: 13C3-PFBS	83.8%	50-150	03/19/22	1	PFAS
Surrogate: 13C3-PFHXS	92.0%	50-150	03/19/22	1	PFAS
Surrogate: 13C8-PFOS	85.7%	50-150	03/19/22	1	PFAS
Surrogate: 13C2-4:2FTS	113%	50-150	03/19/22	1	PFAS

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155 N Front St.
Central Point, OR 97502

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Reported: 05/26/2022 13:25

Sample Results (Continued)

Sample: COLVER RD (Continued)
22C0171-03 (Water)

Analyte	Result/Qual	PQL	MDL	Units	Date Analyzed	DF	Method	Prep Batch

Per- and Polyfluoroalkyl Substances (Continued)

Surrogate: 13C2-6:2FTS	93.7%	50-150			03/19/22	1	PFAS	
Surrogate: 13C2-8:2FTS	104%	50-150			03/19/22	1	PFAS	
Surrogate: 13C8-PFOA	75.7%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	67.0%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	65.2%	50-150			03/19/22	1	PFAS	
Surrogate: D3-NMEFOA	84.3%	50-150			03/19/22	1	PFAS	
Surrogate: D5-NETFOA	88.7%	50-150			03/19/22	1	PFAS	
Surrogate: D7-NMEFOE	80.2%	50-150			03/19/22	1	PFAS	
Surrogate: D9-NETFOE	86.1%	50-150			03/19/22	1	PFAS	
Surrogate: 13C3-HFPO-DA	79.8%	50-150			03/19/22	1	PFAS	

RVCOG
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Reported: 05/26/2022 13:25

PREPARATION BATCH SUMMARY

PFAS

Laboratory: APPL, Inc.

Client: RVCOG

Batch: BBC0283 Batch Matrix: Water Preparation: Table B-15

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
WVV	22C0171-01	03/17/22 14:37	48.60	2.00
NRT	22C0171-02	03/17/22 14:37	50.80	2.00
COLVER RD	22C0171-03	03/17/22 14:37	48.70	2.00
Blank	BBC0283-BLK1	03/17/22 14:37	50.00	2.00
LCS	BBC0283-BS1	03/17/22 14:37	50.00	2.00
LCS Dup	BBC0283-BSD1	03/17/22 14:37	50.00	2.00

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Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBC0283 - Table B-15

Blank (BBC0283-BLK1)

Prepared: 03/17/22 14:37 Analyzed: 03/18/22 21:48

PFBA	ND	16	0.25	ng/L						
PFPEA	ND	8.0	0.31	ng/L						
PFHXA	ND	4.0	0.32	ng/L						
PFHPA	ND	4.0	0.25	ng/L						
PFOA	ND	4.0	0.41	ng/L						
PFNA	ND	4.0	0.25	ng/L						
PFDA	ND	4.0	0.25	ng/L						
PFUDA	ND	4.0	0.40	ng/L						
PFDOA	ND	4.0	0.25	ng/L						
PFTEDA	ND	4.0	0.29	ng/L						
PFTEDA	ND	4.0	0.43	ng/L						
PFBS	ND	4.0	0.25	ng/L						
PFPEs	ND	4.0	0.29	ng/L						
PFHXS	ND	4.0	0.25	ng/L						
PFHPS	ND	4.0	0.28	ng/L						
PFOS	ND	4.0	0.25	ng/L						
PFNS	ND	4.0	3.9	ng/L						
PFDS	ND	4.0	0.32	ng/L						
4:2 FTS	ND	16	0.54	ng/L						
6:2 FTS	ND	16	0.45	ng/L						
8:2 FTS	ND	16	1.0	ng/L						
PFOSA	ND	16	0.25	ng/L						
N-MEFOSA	ND	16	4.9	ng/L						
N-ETFOSA	ND	16	4.9	ng/L						
N-MEFOSAA	ND	4.0	0.36	ng/L						
N-ETFOSAA	ND	4.0	0.25	ng/L						
N-MEFOSE	ND	16	3.0	ng/L						
N-ETFOSE	ND	16	3.0	ng/L						
HFPO-DA	ND	8.0	2.4	ng/L						
ADONA	ND	8.0	1.3	ng/L						
9-CL-PF3ONS	ND	8.0	1.2	ng/L						
11-CL-PF3OUDS	ND	8.0	1.2	ng/L						
Surrogate: 13C4-PFBA	37.4			ng/L	40.1		93.3	50-150		
Surrogate: 13C5-PFPEA	36.9			ng/L	40.1		92.2	50-150		
Surrogate: 13C5-PFHXA	35.7			ng/L	40.1		89.1	50-150		
Surrogate: 13C4-PFHPA	38.7			ng/L	40.1		96.6	50-150		
Surrogate: 13C8-PFOA	35.4			ng/L	40.1		88.4	50-150		
Surrogate: 13C9-PFNA	34.4			ng/L	40.1		85.8	50-150		
Surrogate: 13C6-PFDA	39.9			ng/L	40.1		99.6	50-150		
Surrogate: 13C7-PFUDA	41.2			ng/L	40.1		103	50-150		
Surrogate: 13C2-PFDOA	41.3			ng/L	40.1		103	50-150		
Surrogate: 13C2-PFTEDA	46.1			ng/L	40.1		115	50-150		
Surrogate: 13C3-PFBS	30.8			ng/L	40.1		76.8	50-150		
Surrogate: 13C3-PFHXS	37.9			ng/L	40.1		94.6	50-150		
Surrogate: 13C8-PFOS	34.8			ng/L	40.1		86.9	50-150		
Surrogate: 13C2-4:2FTS	38.9			ng/L	40.1		97.2	50-150		
Surrogate: 13C2-6:2FTS	36.8			ng/L	40.1		91.8	50-150		
Surrogate: 13C2-8:2FTS	36.0			ng/L	40.1		89.8	50-150		
Surrogate: 13C8-PFOSA	28.1			ng/L	40.1		70.0	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBC0283 - Table B-15 (Continued)

Blank (BBC0283-BLK1)

Prepared: 03/17/22 14:37 Analyzed: 03/18/22 21:48

Surrogate: D5-NETFOSA	117			ng/L	200		58.4	50-150		
Surrogate: D3-NMEFOSA	112			ng/L	200		56.1	50-150		
Surrogate: D3-NMEFOSAA	33.5			ng/L	40.1		83.7	50-150		
Surrogate: D5-NETFOSAA	33.9			ng/L	40.1		84.5	50-150		
Surrogate: D7-NMEFOSE	121			ng/L	200		60.5	50-150		
Surrogate: D9-NETFOSE	158			ng/L	200		79.2	50-150		
Surrogate: 13C3-HFPO-DA	191			ng/L	200		95.7	50-150		

LCS (BBC0283-BS1)

Prepared: 03/17/22 14:37 Analyzed: 03/18/22 22:03

PFBA	156	16	0.25	ng/L	160		97.5	73-129		
PFPEA	77.8	8.0	0.31	ng/L	80.0		97.2	72-129		
PFHXA	38.9	4.0	0.32	ng/L	40.0		97.3	72-129		
PFHPA	41.4	4.0	0.25	ng/L	40.0		104	72-130		
PFOA	40.5	4.0	0.41	ng/L	40.0		101	71-133		
PFNA	39.9	4.0	0.25	ng/L	40.0		99.7	69-130		
PFDA	41.7	4.0	0.25	ng/L	40.0		104	71-129		
PFUDA	36.3	4.0	0.40	ng/L	40.0		90.7	69-133		
PFDOA	37.5	4.0	0.25	ng/L	40.0		93.8	72-134		
PFTRDA	42.2	4.0	0.29	ng/L	40.0		105	65-144		
PFTEDA	39.1	4.0	0.43	ng/L	40.0		97.8	71-132		
PFBS	35.9	4.0	0.25	ng/L	35.4		102	72-130		
PFPEs	37.0	4.0	0.29	ng/L	37.6		98.5	71-127		
PFHXS	34.3	4.0	0.25	ng/L	36.6		93.8	68-131		
PFHPS	38.5	4.0	0.28	ng/L	38.2		101	69-134		
PFOS	38.3	4.0	0.25	ng/L	37.2		103	65-140		
PFNS	40.9	4.0	3.9	ng/L	38.4		107	69-127		
PFDS	42.7	4.0	0.32	ng/L	38.6		111	53-142		
4:2 FTS	161	16	0.54	ng/L	150		108	63-143		
6:2 FTS	163	16	0.45	ng/L	152		108	64-140		
8:2 FTS	154	16	1.0	ng/L	154		100	67-138		
PFOSA	37.5	16	0.25	ng/L	40.0		93.8	67-137		
N-MEFOSA	168	16	4.9	ng/L	160		105	68-141		
N-ETFOSA	153	16	4.9	ng/L	160		95.8	70-130		
N-MEFOSAA	46.8	4.0	0.36	ng/L	40.0		117	65-136		
N-ETFOSAA	36.6	4.0	0.25	ng/L	40.0		91.5	61-135		
N-MEFOSE	160	16	3.0	ng/L	160		99.8	70-130		
N-ETFOSE	157	16	3.0	ng/L	160		98.3	70-130		
HFPO-DA	81.2	8.0	2.4	ng/L	80.0		102	44-175		
ADONA	73.7	8.0	1.3	ng/L	75.6		97.5	61-169		
9-CL-PF3ONS	68.9	8.0	1.2	ng/L	74.8		92.1	62-140		
11-CL-PF3OUDS	80.9	8.0	1.2	ng/L	75.6		107	54-138		
Surrogate: 13C4-PFBA	36.9			ng/L	40.1		92.1	50-150		
Surrogate: 13C5-PFPEA	33.4			ng/L	40.1		83.3	50-150		
Surrogate: 13C5-PFHXA	34.6			ng/L	40.1		86.4	50-150		
Surrogate: 13C4-PFHPA	35.1			ng/L	40.1		87.5	50-150		
Surrogate: 13C8-PFOA	37.0			ng/L	40.1		92.4	50-150		
Surrogate: 13C9-PFNA	35.0			ng/L	40.1		87.3	50-150		
Surrogate: 13C6-PFDA	39.2			ng/L	40.1		97.8	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBC0283 - Table B-15 (Continued)

LCS (BBC0283-BS1)

Prepared: 03/17/22 14:37 Analyzed: 03/18/22 22:03

Surrogate: 13C7-PFUDA	43.5			ng/L	40.1		109	50-150		
Surrogate: 13C2-PFDOA	43.6			ng/L	40.1		109	50-150		
Surrogate: 13C2-PFTEDA	45.5			ng/L	40.1		114	50-150		
Surrogate: 13C3-PFBS	36.9			ng/L	40.1		92.1	50-150		
Surrogate: 13C3-PFHXS	36.4			ng/L	40.1		90.8	50-150		
Surrogate: 13C8-PFOS	32.6			ng/L	40.1		81.3	50-150		
Surrogate: 13C2-4:2FTS	39.2			ng/L	40.1		97.8	50-150		
Surrogate: 13C2-6:2FTS	33.9			ng/L	40.1		84.6	50-150		
Surrogate: 13C2-8:2FTS	40.5			ng/L	40.1		101	50-150		
Surrogate: 13C8-PFOA	30.9			ng/L	40.1		77.2	50-150		
Surrogate: D5-NETFOA	123			ng/L	200		61.7	50-200		
Surrogate: D3-NMEFOA	116			ng/L	200		58.1	50-200		
Surrogate: D3-NMEFOSAA	30.7			ng/L	40.1		76.5	50-150		
Surrogate: D5-NETFOSAA	32.9			ng/L	40.1		82.0	50-150		
Surrogate: D7-NMEFOSE	148			ng/L	200		74.0	50-200		
Surrogate: D9-NETFOSE	155			ng/L	200		77.3	50-200		
Surrogate: 13C3-HFPO-DA	179			ng/L	200		89.6	50-150		

LCS Dup (BBC0283-BS1)

Prepared: 03/17/22 14:37 Analyzed: 03/18/22 22:19

PFBA	146	16	0.25	ng/L	160		91.0	73-129	6.84	30
PFPEA	73.6	8.0	0.31	ng/L	80.0		92.0	72-129	5.48	30
PFHXA	36.2	4.0	0.32	ng/L	40.0		90.4	72-129	7.34	30
PFHPA	38.7	4.0	0.25	ng/L	40.0		96.7	72-130	6.88	30
PFOA	40.2	4.0	0.41	ng/L	40.0		101	71-133	0.683	30
PFNA	39.4	4.0	0.25	ng/L	40.0		98.4	69-130	1.25	30
PFDA	39.2	4.0	0.25	ng/L	40.0		98.1	71-129	6.00	30
PFUDA	36.3	4.0	0.40	ng/L	40.0		90.8	69-133	0.0568	30
PFDOA	39.5	4.0	0.25	ng/L	40.0		98.8	72-134	5.20	30
PFTRDA	41.0	4.0	0.29	ng/L	40.0		102	65-144	2.86	30
PFTEDA	37.0	4.0	0.43	ng/L	40.0		92.6	71-132	5.43	30
PFBS	32.9	4.0	0.25	ng/L	35.4		93.0	72-130	8.78	30
PFPEs	34.4	4.0	0.29	ng/L	37.6		91.5	71-127	7.32	30
PFHXS	33.7	4.0	0.25	ng/L	36.6		92.1	68-131	1.84	30
PFHPS	35.4	4.0	0.28	ng/L	38.2		92.6	69-134	8.60	30
PFOS	34.6	4.0	0.25	ng/L	37.2		92.9	65-140	10.3	30
PFNS	39.1	4.0	3.9	ng/L	38.4		102	69-127	4.47	30
PFDS	39.5	4.0	0.32	ng/L	38.6		102	53-142	7.88	30
4:2 FTS	158	16	0.54	ng/L	150		105	63-143	2.14	30
6:2 FTS	137	16	0.45	ng/L	152		90.3	64-140	17.4	30
8:2 FTS	154	16	1.0	ng/L	154		100	67-138	0.00651	30
PFOA	36.7	16	0.25	ng/L	40.0		91.8	67-137	2.12	30
N-MEFOA	163	16	4.9	ng/L	160		102	68-141	3.03	30
N-ETFOA	151	16	4.9	ng/L	160		94.3	70-130	1.61	30
N-MEFOSAA	43.8	4.0	0.36	ng/L	40.0		109	65-136	6.62	30
N-ETFOSAA	35.0	4.0	0.25	ng/L	40.0		87.5	61-135	4.46	30
N-MEFOSE	165	16	3.0	ng/L	160		103	70-130	3.36	30
N-ETFOSE	139	16	3.0	ng/L	160		87.1	70-130	12.1	30
HFPO-DA	73.4	8.0	2.4	ng/L	80.0		91.8	44-175	10.0	30
ADONA	66.7	8.0	1.3	ng/L	75.6		88.3	61-169	9.90	30

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBC0283 - Table B-15 (Continued)										
LCS Dup (BBC0283-BSD1)										
					Prepared: 03/17/22 14:37		Analyzed: 03/18/22 22:19			
9-CL-PF3ONS	66.3	8.0	1.2	ng/L	74.8		88.6	62-140	3.78	30
11-CL-PF3OUDS	86.1	8.0	1.2	ng/L	75.6		114	54-138	6.27	30
Surrogate: 13C4-PFBA	34.9			ng/L	40.1		87.1	50-150		
Surrogate: 13C5-PFPEA	32.4			ng/L	40.1		80.7	50-150		
Surrogate: 13C5-PFHXA	34.0			ng/L	40.1		84.9	50-150		
Surrogate: 13C4-PFHFA	32.4			ng/L	40.1		80.8	50-150		
Surrogate: 13C8-PFOA	34.5			ng/L	40.1		86.2	50-150		
Surrogate: 13C9-PFNA	32.4			ng/L	40.1		80.9	50-150		
Surrogate: 13C6-PFDA	36.0			ng/L	40.1		89.9	50-150		
Surrogate: 13C7-PFUDA	40.8			ng/L	40.1		102	50-150		
Surrogate: 13C2-PFDOA	37.2			ng/L	40.1		92.8	50-150		
Surrogate: 13C2-PFTEDA	44.2			ng/L	40.1		110	50-150		
Surrogate: 13C3-PFBS	33.6			ng/L	40.1		83.7	50-150		
Surrogate: 13C3-PFHXS	34.9			ng/L	40.1		87.1	50-150		
Surrogate: 13C8-PFOS	32.4			ng/L	40.1		80.8	50-150		
Surrogate: 13C2-4:2FTS	35.7			ng/L	40.1		89.2	50-150		
Surrogate: 13C2-6:2FTS	33.5			ng/L	40.1		83.7	50-150		
Surrogate: 13C2-8:2FTS	34.9			ng/L	40.1		87.2	50-150		
Surrogate: 13C8-PFOSA	30.6			ng/L	40.1		76.2	50-150		
Surrogate: D5-NETFOA	124			ng/L	200		61.9	50-200		
Surrogate: D3-NMEFOA	120			ng/L	200		59.9	50-200		
Surrogate: D3-NMEFOSAA	33.6			ng/L	40.1		83.8	50-150		
Surrogate: D5-NETFOSAA	36.7			ng/L	40.1		91.4	50-150		
Surrogate: D7-NMEFOSE	144			ng/L	200		71.8	50-200		
Surrogate: D9-NETFOSE	177			ng/L	200		88.3	50-200		
Surrogate: 13C3-HFPO-DA	170			ng/L	200		84.9	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25

Notes and Definitions

Item	Definition
J	Estimated value
U	Not detected
Dry	Sample results reported on a dry weight basis.
MDL	Method Detection Limit (only displays if reported to the MDL)
ND	Analyte NOT DETECTED at or above the reporting limit.
DF	Dilution Factor
*	Value outside control limits
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Almeda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2022 13:25



WORK ORDER

22C0171

Printed: 05/26/2022 1:25 pm

Project: Almeda Fire
Project Number:
Project Manager: Greg Salata
PO Number:

Report To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Invoice To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Date Received: 03/16/2022 10:00 AM
Date Due: 03/30/2022 (10.00 day TAT)

Logged In By: Megan Salata
Received By: Megan Salata

Analysis

Comments

22C0171-01 WVV [Water] Sampled 3/15/2022 8:45:00AM

B-15 DOD NONE

22C0171-02 NRT [Water] Sampled 3/15/2022 9:00:00AM

B-15 DOD NONE

22C0171-03 COLVER RD [Water] Sampled 3/15/2022 8:18:00AM

B-15 DOD NONE

22C0171

Sample Receipt Log

Default Cooler

Samples Received at: **-1.2°C**

Custody Seals	No	Were all containers sealed in separate bags?	Yes
Containers Intact	No	Did all containers arrive in good condition?	Yes
COC/Labels Agree	Yes	Correct containers/preserv. for tests indicated?	Yes
Preservation Confirmed	No	Sufficient volume sent for tests requested?	Yes
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	Yes
COCs complete/signed in the appropriate places?	Yes	pH of non-VOA preserved containers documented?	No
Sample labels complete? Sample ID, date/time, etc.	Yes	Unpreserved vials received for VOA analysis?	No
Did all container labels agree with COCs?	Yes	If "yes", are unpreserved VOA vials noted on ARF?	No

Page 84 of 92

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CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com C.O.C.

See page 2 for Container Preservative and Sampling Information

No Custody Seal

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: WVV

Sample Collection Date: 3/15/2022

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98808

APPL ID: BA49092

QCG: \$829ADOD5-274086-2740

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	Not detected	125.0	15PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	0.64DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	0.77DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	0.27PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	0.83PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	0.83DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	1.4PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	0.83DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	1.1DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	0.50DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	0.57DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	1.0DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	0.56DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	1.7DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	0.57DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDD	100 J	250.0	100PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDF	11 J	250.0	11PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	TEQ	0.033	NA			4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	84.0	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	82.5	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	101	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	97.5	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	79.8	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	80.2	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	78.9	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	77.2	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	69.0	40-135		%	4/6/2022	4/21/2022

J = Estimated value.

Quant Method: 220420_8290
Run #: 220420_HR_21
Instrument: MAGNETO
Sequence: 220420
Dilution Factor: 1
Initials: LA

Printed: 5/25/2022 11:01:32 AM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: NRT

Sample Collection Date: 3/15/2022

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98808

APPL ID: BA49093

QCG: \$829ADOD5-274086-2740

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	Not detected	125.0	6.1PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	0.63DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	0.84PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	0.70DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	0.82DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	0.41PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	0.79DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	0.69DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	0.96DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	0.56DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	0.59PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	2.2PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	0.46PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	1.8DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	0.40DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDD	41 J	250.0	41PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDF	Not detected	250.0	4.2PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	TEQ	0.012	NA			4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	90.7	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	88.2	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	103	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	101	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	84.2	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	82.6	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	82.0	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	79.1	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	72.4	40-135		%	4/6/2022	4/21/2022

J = Estimated value.

Quant Method: 220420_8290
Run #: 220420_HR_22
Instrument: MAGNETO
Sequence: 220420
Dilution Factor: 1
Initials: LA

Printed: 5/25/2022 11:01:32 AM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: COLVER RD

Sample Collection Date: 3/15/2022

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98808

APPL ID: BA49094

QCG: \$829ADOD5-274086-2740

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	Not detected	125.0	9.8PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	3.6PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	0.92DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	0.57DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	0.96DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	0.56DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	1.2PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	0.98PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	1.1DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	0.60PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	0.61DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	7.2PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	0.61DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	1.2DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	0.54DL	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDD	56 J	250.0	56PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	OCDF	7.7 J	250.0	7.7PC	pg/L	4/6/2022	4/21/2022
EPA 8290A	TEQ	0.019	NA			4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	97.8	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	95.1	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	109	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	106	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	91.6	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	91.6	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	89.1	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	88.5	40-135		%	4/6/2022	4/21/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	80.7	40-135		%	4/6/2022	4/21/2022

J = Estimated value.

Quant Method: 220420_8290
Run #: 220420_HR_23
Instrument: MAGNETO
Sequence: 220420
Dilution Factor: 1
Initials: LA

Printed: 5/25/2022 11:01:32 AM
Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **220406W-49092 - 274086**
 Batch ID: \$829ADOD5-274086

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	1.9 J	125.0	1.9PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	0.61DL	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	0.73DL	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,4,7,8-HXCDD	Not detected	125.0	0.54DL	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,4,7,8-HXCDF	Not detected	125.0	0.34PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,6,7,8-HXCDD	Not detected	125.0	0.41PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,6,7,8-HXCDF	Not detected	125.0	0.34PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,7,8,9-HXCDD	Not detected	125.0	0.36PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,7,8,9-HXCDF	Not detected	125.0	0.28DL	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,7,8-PECDD	Not detected	125.0	1.1PC	pg/L	4/6/2022	4/21/2022
BLANK	1,2,3,7,8-PECDF	Not detected	125.0	0.97PC	pg/L	4/6/2022	4/21/2022
BLANK	2,3,4,6,7,8-HXCDF	Not detected	125.0	0.41PC	pg/L	4/6/2022	4/21/2022
BLANK	2,3,4,7,8-PECDF	Not detected	125.0	0.78PC	pg/L	4/6/2022	4/21/2022
BLANK	2,3,7,8-TCDD	Not detected	50.0	1.5DL	pg/L	4/6/2022	4/21/2022
BLANK	2,3,7,8-TCDF	Not detected	50.0	0.46DL	pg/L	4/6/2022	4/21/2022
BLANK	OCDD	Not detected	250.0	5.9PC	pg/L	4/6/2022	4/21/2022
BLANK	OCDF	Not detected	250.0	0.41DL	pg/L	4/6/2022	4/21/2022
BLANK	TEQ	0.019	NA		pg/L	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	93.6	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	88.5	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	102	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	101	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	83.4	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	82.3	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	81.7	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	78.1	40-135		%	4/6/2022	4/21/2022
BLANK	SURROGATE: 13C-OCDD (S)	78.1	40-135		%	4/6/2022	4/21/2022

J = Estimated value.

Quant Method: 220420_8290
 Run #: 220420_HR_20
 Instrument: MAGNETO
 Sequence: 220420
 Initials: LA

Printed: 5/25/2022 10:59:48 AM

Laboratory Control Spike Recovery

EPA 8290A - DIOXINS & FURANS

APPL ID: **220406W-49092 LCS - 274086**

Batch ID: #829ADOD5-274086

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level pg/L	SPK Result pg/L	SPK % Recovery	Recovery Limits
1,2,3,4,6,7,8-HPCDD	1250	1180	94.4	79-122
1,2,3,4,6,7,8-HPCDF	1250	1280	102	81-130
1,2,3,4,7,8,9-HPCDF	1250	958	76.6 #	77-128
1,2,3,4,7,8-HXCDD	1250	1130	90.4	80-126
1,2,3,4,7,8-HXCDF	1250	1100	88.0	80-130
1,2,3,6,7,8-HXCDD	1250	1100	88.0	78-134
1,2,3,6,7,8-HXCDF	1250	1110	88.8	79-131
1,2,3,7,8,9-HXCDD	1250	1090	87.2	76-137
1,2,3,7,8,9-HXCDF	1250	965	77.2 #	83-130
1,2,3,7,8-PECDD	1250	1150	92.0	76-121
1,2,3,7,8-PECDF	1250	1230	98.4	82-130
2,3,4,6,7,8-HXCDF	1250	1110	88.8	81-130
2,3,4,7,8-PECDF	1250	1150	92.0	77-129
2,3,7,8-TCDD	500	452	90.4	71-125
2,3,7,8-TCDF	500	481	96.2	72-138
OCDD	2500	2480	99.2	81-135
OCDF	2500	2050	82.0	66-150
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	1990	39.8 #	40-135
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	1920	38.4 #	40-135
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	2280	45.6	40-135
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	2330	46.6	40-135
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	675	33.8 #	40-135
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	665	33.3 #	40-135
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	672	33.6 #	40-135
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	645	32.3 #	40-135
SURROGATE: 13C-OCDD (S)	10000	3290	32.9 #	40-135

= Recovery is outside QC limits.

Comments:

Primary	SPK
Quant Method :	220420_8290
Extraction Date :	4/6/2022
Analysis Date :	4/21/2022
Instrument :	MAGNETO
Run :	220420_HR_19
Initials :	LA

Printed: 5/25/2022 10:59:31 AM

APPL Standard LCS

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

Rev. 2, October 2, 2018



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, December 29, 2022

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A2J0791 - Almeda Post Fire Monitoring-2022 - Almeda Post Fire Monitoring-2022

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2J0791, which was received by the laboratory on 10/25/2022 at 8:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	2.4 degC	Cooler #2	4.1 degC
Cooler #3	3.6 degC	Cooler #4	3.3 degC
Cooler #5	2.1 degC		

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Valley View (WVV), OF	A2J0791-01	Water	10/22/22 17:45	10/25/22 08:00
North Ridge Terrace (NRT), OF	A2J0791-02	Water	10/22/22 16:30	10/25/22 08:00
Colver Rd, OF	A2J0791-03	Water	10/22/22 17:10	10/25/22 08:00
Bear Ck. US Cellular	A2J0791-04	Water	10/22/22 18:30	10/25/22 08:00
Bear Ck. Oak St.	A2J0791-05	Water	10/22/22 17:30	10/25/22 08:00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Page 2 of 62



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275
Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL CASE NARRATIVE

A2J0791

Apex Laboratories

Subcontracts:

This report is complete only when subcontract laboratory reports are attached from:
ALS Life Sciences - Burlington Laboratory, Canada for Polybrominated compound analyses and
Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Michele Poquiz
Forensic Project Manager
12/09/2022

Solids, TSS (D3977+SM2540D)

Sample "North Ridge Terrace (NRT), OF" (Apex Laboratories ID A2J0791-02) was analyzed for Total Suspended Solids by ASTM D3977 and SM 2540D.

The filtration of sample began on 10/27/2022 but due to sample matrix effects did not finished until 10/31/2022. Sample preparation time, 10/31/2022 09:42, noted in report, is when sample filter was placed in drying oven which is past the method holding time of 7 days from sampling.

Dean Strom
Wetchem Manager
12/01/2022

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire Monitorin
Project Manager: Greg Stabach**Report ID:**

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		Batch: 22J1215		
Diesel	ND	40.0	80.0	ug/L	1	11/01/22 00:19	NWTPH-Dx LL	F-13
Oil	455	80.0	160	ug/L	1	11/01/22 00:19	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %	1	11/01/22 00:19	NWTPH-Dx LL	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		Batch: 22J1215		
Diesel	ND	38.1	76.2	ug/L	1	11/01/22 00:42	NWTPH-Dx LL	F-13
Oil	1530	76.2	152	ug/L	1	11/01/22 00:42	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 74 %		Limits: 50-150 %	1	11/01/22 00:42	NWTPH-Dx LL	
Colver Rd, OF (A2J0791-03)				Matrix: Water		Batch: 22J1215		
Diesel	407	40.4	80.8	ug/L	1	11/01/22 01:05	NWTPH-Dx LL	F-13, F-15
Oil	554	80.8	162	ug/L	1	11/01/22 01:05	NWTPH-Dx LL	F-16
Surrogate: o-Terphenyl (Surr)		Recovery: 79 %		Limits: 50-150 %	1	11/01/22 01:05	NWTPH-Dx LL	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		Batch: 22J1215		
Diesel	85.1	47.1	94.1	ug/L	1	11/01/22 01:28	NWTPH-Dx LL	J
Oil	142	94.1	188	ug/L	1	11/01/22 01:28	NWTPH-Dx LL	J
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	11/01/22 01:28	NWTPH-Dx LL	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		Batch: 22J1215		
Diesel	128	39.2	78.4	ug/L	1	11/01/22 01:51	NWTPH-Dx LL	F-13, F-15
Oil	203	78.4	157	ug/L	1	11/01/22 01:51	NWTPH-Dx LL	F-16
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	11/01/22 01:51	NWTPH-Dx LL	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01RE1)				Matrix: Water		Batch: 22J1133		R-04
Acenaphthene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Acenaphthylene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Anthracene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Benz(a)anthracene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzo(a)pyrene	ND	0.0606	0.121	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0606	0.121	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0606	0.121	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Chrysene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Fluoranthene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Fluorene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
1-Methylnaphthalene	ND	0.0808	0.162	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Methylnaphthalene	ND	0.0808	0.162	ug/L	4	10/31/22 21:16	EPA 8270E	
Naphthalene	ND	0.0808	0.162	ug/L	4	10/31/22 21:16	EPA 8270E	
Phenanthrene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Pyrene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Carbazole	ND	0.0606	0.121	ug/L	4	10/31/22 21:16	EPA 8270E	
Dibenzofuran	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Chlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4-Dichlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4-Dimethylphenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4-Dinitrophenol	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Methylphenol	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
3+4-Methylphenol(s)	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Nitrophenol	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Nitrophenol	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
Pentachlorophenol (PCP)	0.408	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	J
Phenol	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01RE1)				Matrix: Water		Batch: 22J1133		R-04
2,3,5,6-Tetrachlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Butyl benzyl phthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Diethylphthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Dimethylphthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Di-n-butylphthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Di-n-octyl phthalate	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
N-Nitrosodimethylamine	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
Hexachlorobenzene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
Hexachlorobutadiene	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
Hexachloroethane	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Chloronaphthalene	ND	0.0404	0.0808	ug/L	4	10/31/22 21:16	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
Aniline	ND	0.202	0.404	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Chloroaniline	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	
2-Nitroaniline	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
3-Nitroaniline	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
4-Nitroaniline	ND	0.808	1.62	ug/L	4	10/31/22 21:16	EPA 8270E	
Nitrobenzene	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
2,4-Dinitrotoluene	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
2,6-Dinitrotoluene	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzoic acid	ND	5.05	10.1	ug/L	4	10/31/22 21:16	EPA 8270E	
Benzyl alcohol	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
West Valley View (WVV), OF (A2J0791-01RE1)				Matrix: Water		Batch: 22J1133		R-04	
Isophorone	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E	Q-52	
Azobenzene (1,2-DPH)	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E		
3,3'-Dichlorobenzidine	ND	2.02	4.04	ug/L	4	10/31/22 21:16	EPA 8270E		
1,2-Dinitrobenzene	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E		
1,3-Dinitrobenzene	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E		
1,4-Dinitrobenzene	ND	1.01	2.02	ug/L	4	10/31/22 21:16	EPA 8270E		
Pyridine	ND	0.404	0.808	ug/L	4	10/31/22 21:16	EPA 8270E		
1,2-Dichlorobenzene	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E		
1,3-Dichlorobenzene	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E		
1,4-Dichlorobenzene	ND	0.101	0.202	ug/L	4	10/31/22 21:16	EPA 8270E		
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	38 %	Limits:	44-120 %	4	10/31/22 21:16		EPA 8270E
2-Fluorobiphenyl (Surr)			40 %		44-120 %	4	10/31/22 21:16	EPA 8270E	S-06
Phenol-d6 (Surr)			24 %		10-133 %	4	10/31/22 21:16	EPA 8270E	
p-Terphenyl-d14 (Surr)			80 %		50-134 %	4	10/31/22 21:16	EPA 8270E	
2-Fluorophenol (Surr)			28 %		19-120 %	4	10/31/22 21:16	EPA 8270E	
2,4,6-Tribromophenol (Surr)			92 %		43-140 %	4	10/31/22 21:16	EPA 8270E	
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water		Batch: 22J1133		R-04	
Acenaphthene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	J	
Acenaphthylene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Benz(a)anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Benzo(a)pyrene	0.0750	0.0600	0.120	ug/L	4	10/31/22 21:52	EPA 8270E		
Benzo(b)fluoranthene	ND	0.0600	0.120	ug/L	4	10/31/22 21:52	EPA 8270E		
Benzo(k)fluoranthene	ND	0.0600	0.120	ug/L	4	10/31/22 21:52	EPA 8270E		
Benzo(g,h,i)perylene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Chrysene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Dibenz(a,h)anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Fluoranthene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Fluorene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
Indeno(1,2,3-cd)pyrene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E		
1-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 21:52	EPA 8270E		
2-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 21:52	EPA 8270E		

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water		Batch: 22J1133		R-04
Naphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 21:52	EPA 8270E	
Phenanthrene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	
Pyrene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	
Carbazole	ND	0.0600	0.120	ug/L	4	10/31/22 21:52	EPA 8270E	
Dibenzofuran	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	
2-Chlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4-Dichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4-Dimethylphenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4-Dinitrophenol	ND	2.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
2-Methylphenol	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
3+4-Methylphenol(s)	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
2-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
Phenol	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Butyl benzyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Diethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Dimethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Di-n-butylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Di-n-octyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
N-Nitrosodimethylamine	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water		Batch: 22J1133		R-04
Hexachlorobenzene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	
Hexachlorobutadiene	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
Hexachloroethane	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
2-Chloronaphthalene	ND	0.0400	0.0800	ug/L	4	10/31/22 21:52	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Aniline	ND	0.200	0.400	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Chloroaniline	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
2-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
3-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
4-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 21:52	EPA 8270E	
Nitrobenzene	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
2,4-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
2,6-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
Benzoic acid	ND	5.00	10.0	ug/L	4	10/31/22 21:52	EPA 8270E	
Benzyl alcohol	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
Isophorone	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.00	4.00	ug/L	4	10/31/22 21:52	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
1,3-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
1,4-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 21:52	EPA 8270E	
Pyridine	ND	0.400	0.800	ug/L	4	10/31/22 21:52	EPA 8270E	
1,2-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
1,3-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
1,4-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 21:52	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	57 %	Limits:	44-120 %	4	10/31/22 21:52	EPA 8270E Q-41
2-Fluorobiphenyl (Surr)			62 %		44-120 %	4	10/31/22 21:52	EPA 8270E
Phenol-d6 (Surr)			21 %		10-133 %	4	10/31/22 21:52	EPA 8270E
p-Terphenyl-d14 (Surr)			79 %		50-134 %	4	10/31/22 21:52	EPA 8270E
2-Fluorophenol (Surr)			30 %		19-120 %	4	10/31/22 21:52	EPA 8270E

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water		Batch: 22J1133		R-04
Surrogate: 2,4,6-Tribromophenol (Surr)		Recovery: 110 %		Limits: 43-140 %	4	10/31/22 21:52	EPA 8270E	
Colver Rd, OF (A2J0791-03RE1)				Matrix: Water		Batch: 22J1133		
Acenaphthene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Acenaphthylene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Benz(a)anthracene	0.0541	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	J
Benzo(a)pyrene	0.0894	0.0600	0.120	ug/L	4	10/31/22 22:27	EPA 8270E	J
Benzo(b)fluoranthene	0.0838	0.0600	0.120	ug/L	4	10/31/22 22:27	EPA 8270E	J
Benzo(k)fluoranthene	ND	0.0600	0.120	ug/L	4	10/31/22 22:27	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Chrysene	0.0423	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	J
Dibenz(a,h)anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Fluoranthene	0.0629	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	J
Fluorene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
1-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 22:27	EPA 8270E	
Naphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 22:27	EPA 8270E	
Phenanthrene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Pyrene	0.0699	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	J
Carbazole	ND	0.0600	0.120	ug/L	4	10/31/22 22:27	EPA 8270E	
Dibenzofuran	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Chlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4-Dichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4-Dimethylphenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4-Dinitrophenol	ND	2.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Methylphenol	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
3+4-Methylphenol(s)	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
Pentachlorophenol (PCP)	1.29	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A2J0791-03RE1)				Matrix: Water		Batch: 22J1133		
Phenol	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Butyl benzyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Diethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Dimethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Di-n-butylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Di-n-octyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
N-Nitrosodimethylamine	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.200	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Hexachlorobenzene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
Hexachlorobutadiene	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
Hexachloroethane	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Chloronaphthalene	ND	0.0400	0.0800	ug/L	4	10/31/22 22:27	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Aniline	ND	0.200	0.400	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Chloroaniline	ND	0.200	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
2-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
3-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
4-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 22:27	EPA 8270E	
Nitrobenzene	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
2,4-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
2,6-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A2J0791-03RE1)		Matrix: Water			Batch: 22J1133			
Benzoic acid	ND	5.00	10.0	ug/L	4	10/31/22 22:27	EPA 8270E	
Benzyl alcohol	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
Isophorone	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.00	4.00	ug/L	4	10/31/22 22:27	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
1,3-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
1,4-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 22:27	EPA 8270E	
Pyridine	ND	0.400	0.800	ug/L	4	10/31/22 22:27	EPA 8270E	
1,2-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
1,3-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
1,4-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 22:27	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 44-120 %</i>	4	10/31/22 22:27	EPA 8270E	Q-41
<i>2-Fluorobiphenyl (Surr)</i>		<i>82 %</i>		<i>44-120 %</i>	4	10/31/22 22:27	EPA 8270E	
<i>Phenol-d6 (Surr)</i>		<i>30 %</i>		<i>10-133 %</i>	4	10/31/22 22:27	EPA 8270E	
<i>p-Terphenyl-d14 (Surr)</i>		<i>100 %</i>		<i>50-134 %</i>	4	10/31/22 22:27	EPA 8270E	
<i>2-Fluorophenol (Surr)</i>		<i>44 %</i>		<i>19-120 %</i>	4	10/31/22 22:27	EPA 8270E	
<i>2,4,6-Tribromophenol (Surr)</i>		<i>128 %</i>		<i>43-140 %</i>	4	10/31/22 22:27	EPA 8270E	
Bear Ck. US Cellular (A2J0791-04RE2)		Matrix: Water			Batch: 22J1133			
Acenaphthene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Acenaphthylene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Anthracene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Benz(a)anthracene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Benzo(a)pyrene	0.0171	0.0147	0.0294	ug/L	1	11/01/22 15:12	EPA 8270E	J
Benzo(b)fluoranthene	0.0155	0.0147	0.0294	ug/L	1	11/01/22 15:12	EPA 8270E	J
Benzo(k)fluoranthene	ND	0.0147	0.0294	ug/L	1	11/01/22 15:12	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Chrysene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Fluoranthene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Fluorene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. US Cellular (A2J0791-04RE2)				Matrix: Water		Batch: 22J1133		
1-Methylnaphthalene	ND	0.0196	0.0392	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Methylnaphthalene	ND	0.0196	0.0392	ug/L	1	11/01/22 15:12	EPA 8270E	
Naphthalene	ND	0.0196	0.0392	ug/L	1	11/01/22 15:12	EPA 8270E	
Phenanthrene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Pyrene	0.00992	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	J
Carbazole	ND	0.0147	0.0294	ug/L	1	11/01/22 15:12	EPA 8270E	
Dibenzofuran	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Chlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4-Dichlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4-Dimethylphenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4-Dinitrophenol	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Methylphenol	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Nitrophenol	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Nitrophenol	ND	0.196	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
Phenol	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.392	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Butyl benzyl phthalate	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Diethylphthalate	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Dimethylphthalate	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Di-n-butylphthalate	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Di-n-octyl phthalate	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. US Cellular (A2J0791-04RE2)				Matrix: Water		Batch: 22J1133		
Bis(2-Chloroethyl) ether	ND	0.0490	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Hexachlorobenzene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
Hexachlorobutadiene	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
Hexachloroethane	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Chloronaphthalene	ND	0.00980	0.0196	ug/L	1	11/01/22 15:12	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Aniline	ND	0.0490	0.0980	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Chloroaniline	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
2-Nitroaniline	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
3-Nitroaniline	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
4-Nitroaniline	ND	0.196	0.392	ug/L	1	11/01/22 15:12	EPA 8270E	
Nitrobenzene	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
2,4-Dinitrotoluene	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
2,6-Dinitrotoluene	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
Benzoic acid	ND	2.45	2.45	ug/L	1	11/01/22 15:12	EPA 8270E	
Benzyl alcohol	ND	0.196	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
Isophorone	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0686	0.0686	ug/L	1	11/01/22 15:12	EPA 8270E	R-02
Bis(2-Ethylhexyl) adipate	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.490	0.980	ug/L	1	11/01/22 15:12	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
1,3-Dinitrobenzene	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
1,4-Dinitrobenzene	ND	0.245	0.490	ug/L	1	11/01/22 15:12	EPA 8270E	
Pyridine	ND	0.0980	0.196	ug/L	1	11/01/22 15:12	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0245	0.0490	ug/L	1	11/01/22 15:12	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 78 %		Limits: 44-120 %	1	11/01/22 15:12	EPA 8270E	
2-Fluorobiphenyl (Surr)		69 %		44-120 %	1	11/01/22 15:12	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire Monitorin
Project Manager: Greg StabachReport ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. US Cellular (A2J0791-04RE2)		Matrix: Water			Batch: 22J1133			
Surrogate: Phenol-d6 (Surr)		Recovery: 28 %	Limits: 10-133 %	1	11/01/22 15:12	EPA 8270E		
p-Terphenyl-d14 (Surr)		83 %	50-134 %	1	11/01/22 15:12	EPA 8270E		
2-Fluorophenol (Surr)		43 %	19-120 %	1	11/01/22 15:12	EPA 8270E		
2,4,6-Tribromophenol (Surr)		99 %	43-140 %	1	11/01/22 15:12	EPA 8270E		
Bear Ck. Oak St. (A2J0791-05RE1)		Matrix: Water			Batch: 22J1133			
					R-04			
Acenaphthene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Acenaphthylene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Benz(a)anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzo(a)pyrene	ND	0.0600	0.120	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0600	0.120	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0600	0.120	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Chrysene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Fluoranthene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Fluorene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
1-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 23:37	EPA 8270E	
2-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 23:37	EPA 8270E	
Naphthalene	ND	0.0800	0.160	ug/L	4	10/31/22 23:37	EPA 8270E	
Phenanthrene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Pyrene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Carbazole	ND	0.0600	0.120	ug/L	4	10/31/22 23:37	EPA 8270E	
Dibenzofuran	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
2-Chlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4-Dichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4-Dimethylphenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4-Dinitrophenol	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
2-Methylphenol	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
3+4-Methylphenol(s)	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. Oak St. (A2J0791-05RE1)				Matrix: Water		Batch: 22J1133		R-04
2-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Nitrophenol	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
Phenol	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
Butyl benzyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
Diethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
Dimethylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
Di-n-butylphthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
Di-n-octyl phthalate	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
N-Nitrosodimethylamine	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Hexachlorobenzene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
Hexachlorobutadiene	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
Hexachloroethane	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
2-Chloronaphthalene	ND	0.0400	0.0800	ug/L	4	10/31/22 23:37	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Aniline	ND	0.200	0.400	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Chloroaniline	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
2-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
3-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	
4-Nitroaniline	ND	0.800	1.60	ug/L	4	10/31/22 23:37	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. Oak St. (A2J0791-05RE1)				Matrix: Water		Batch: 22J1133		R-04
Nitrobenzene	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
2,4-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
2,6-Dinitrotoluene	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzoic acid	ND	5.00	10.0	ug/L	4	10/31/22 23:37	EPA 8270E	
Benzyl alcohol	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
Isophorone	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.00	4.00	ug/L	4	10/31/22 23:37	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
1,3-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
1,4-Dinitrobenzene	ND	1.00	2.00	ug/L	4	10/31/22 23:37	EPA 8270E	
Pyridine	ND	0.400	0.800	ug/L	4	10/31/22 23:37	EPA 8270E	
1,2-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
1,3-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
1,4-Dichlorobenzene	ND	0.100	0.200	ug/L	4	10/31/22 23:37	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 69 %</i>		<i>Limits: 44-120 %</i>	4	10/31/22 23:37	EPA 8270E	Q-41
<i>2-Fluorobiphenyl (Surr)</i>		<i>67 %</i>		<i>44-120 %</i>	4	10/31/22 23:37	EPA 8270E	
<i>Phenol-d6 (Surr)</i>		<i>24 %</i>		<i>10-133 %</i>	4	10/31/22 23:37	EPA 8270E	
<i>p-Terphenyl-d14 (Surr)</i>		<i>84 %</i>		<i>50-134 %</i>	4	10/31/22 23:37	EPA 8270E	
<i>2-Fluorophenol (Surr)</i>		<i>35 %</i>		<i>19-120 %</i>	4	10/31/22 23:37	EPA 8270E	
<i>2,4,6-Tribromophenol (Surr)</i>		<i>110 %</i>		<i>43-140 %</i>	4	10/31/22 23:37	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire Monitorin
Project Manager: Greg StabachReport ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water				
Batch: 22K0108								
Aluminum	2080	25.0	50.0	ug/L	1	11/05/22 08:16	EPA 200.8	
Antimony	0.559	0.500	1.00	ug/L	1	11/05/22 08:16	EPA 200.8	J
Arsenic	1.06	0.500	1.00	ug/L	1	11/05/22 08:16	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	11/05/22 08:16	EPA 200.8	
Cadmium	0.122	0.100	0.200	ug/L	1	11/05/22 08:16	EPA 200.8	J
Calcium	16700	375	600	ug/L	1	11/05/22 08:16	EPA 200.8	
Chromium	3.71	1.00	2.00	ug/L	1	11/05/22 08:16	EPA 200.8	
Copper	13.9	1.00	2.00	ug/L	1	11/05/22 08:16	EPA 200.8	
Iron	2180	25.0	50.0	ug/L	1	11/05/22 08:16	EPA 200.8	
Lead	3.57	0.100	0.200	ug/L	1	11/05/22 08:16	EPA 200.8	
Magnesium	3180	75.0	150	ug/L	1	11/05/22 08:16	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/05/22 08:16	EPA 200.8	
Nickel	3.41	1.00	2.00	ug/L	1	11/05/22 08:16	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/05/22 08:16	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/05/22 08:16	EPA 200.8	
Zinc	37.2	2.00	4.00	ug/L	1	11/05/22 08:16	EPA 200.8	
West Valley View (WVV), OF (A2J0791-01RE1)				Matrix: Water				
Batch: 22K0108								
Selenium	ND	0.500	1.00	ug/L	1	11/08/22 12:36	EPA 200.8	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water				
Batch: 22K0108								
Aluminum	3300	25.0	50.0	ug/L	1	11/05/22 08:21	EPA 200.8	
Antimony	0.757	0.500	1.00	ug/L	1	11/05/22 08:21	EPA 200.8	J
Arsenic	1.36	0.500	1.00	ug/L	1	11/05/22 08:21	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	11/05/22 08:21	EPA 200.8	
Cadmium	0.101	0.100	0.200	ug/L	1	11/05/22 08:21	EPA 200.8	J
Calcium	6040	375	600	ug/L	1	11/05/22 08:21	EPA 200.8	
Chromium	5.02	1.00	2.00	ug/L	1	11/05/22 08:21	EPA 200.8	
Copper	19.4	1.00	2.00	ug/L	1	11/05/22 08:21	EPA 200.8	
Iron	3350	25.0	50.0	ug/L	1	11/05/22 08:21	EPA 200.8	
Lead	7.30	0.100	0.200	ug/L	1	11/05/22 08:21	EPA 200.8	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water				
Magnesium	1470	75.0	150	ug/L	1	11/05/22 08:21	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/05/22 08:21	EPA 200.8	
Nickel	5.60	1.00	2.00	ug/L	1	11/05/22 08:21	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/05/22 08:21	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/05/22 08:21	EPA 200.8	
Zinc	107	2.00	4.00	ug/L	1	11/05/22 08:21	EPA 200.8	
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water				
Batch: 22K0108								
Selenium	ND	0.500	1.00	ug/L	1	11/08/22 12:41	EPA 200.8	
Colver Rd, OF (A2J0791-03)				Matrix: Water				
Batch: 22K0108								
Aluminum	986	25.0	50.0	ug/L	1	11/05/22 08:27	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	11/05/22 08:27	EPA 200.8	
Arsenic	0.943	0.500	1.00	ug/L	1	11/05/22 08:27	EPA 200.8	J
Beryllium	ND	0.100	0.200	ug/L	1	11/05/22 08:27	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/05/22 08:27	EPA 200.8	
Calcium	12200	375	600	ug/L	1	11/05/22 08:27	EPA 200.8	
Chromium	2.58	1.00	2.00	ug/L	1	11/05/22 08:27	EPA 200.8	
Copper	15.2	1.00	2.00	ug/L	1	11/05/22 08:27	EPA 200.8	
Iron	1140	25.0	50.0	ug/L	1	11/05/22 08:27	EPA 200.8	
Lead	1.39	0.100	0.200	ug/L	1	11/05/22 08:27	EPA 200.8	
Magnesium	2630	75.0	150	ug/L	1	11/05/22 08:27	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/05/22 08:27	EPA 200.8	
Nickel	3.21	1.00	2.00	ug/L	1	11/05/22 08:27	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/05/22 08:27	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/05/22 08:27	EPA 200.8	
Zinc	75.1	2.00	4.00	ug/L	1	11/05/22 08:27	EPA 200.8	
Colver Rd, OF (A2J0791-03RE1)				Matrix: Water				
Batch: 22K0108								
Selenium	ND	0.500	1.00	ug/L	1	11/08/22 12:57	EPA 200.8	

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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water				
Batch: 22K0108								
Aluminum	1340	25.0	50.0	ug/L	1	11/05/22 08:32	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	11/05/22 08:32	EPA 200.8	
Arsenic	1.45	0.500	1.00	ug/L	1	11/05/22 08:32	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	11/05/22 08:32	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/05/22 08:32	EPA 200.8	
Calcium	34900	375	600	ug/L	1	11/05/22 08:32	EPA 200.8	
Chromium	2.27	1.00	2.00	ug/L	1	11/05/22 08:32	EPA 200.8	
Copper	7.41	1.00	2.00	ug/L	1	11/05/22 08:32	EPA 200.8	
Iron	1810	25.0	50.0	ug/L	1	11/05/22 08:32	EPA 200.8	
Lead	8.84	0.100	0.200	ug/L	1	11/05/22 08:32	EPA 200.8	
Magnesium	11300	75.0	150	ug/L	1	11/05/22 08:32	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/05/22 08:32	EPA 200.8	
Nickel	2.51	1.00	2.00	ug/L	1	11/05/22 08:32	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/05/22 08:32	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/05/22 08:32	EPA 200.8	
Bear Ck. US Cellular (A2J0791-04RE1)				Matrix: Water				
Batch: 22K0108								
Selenium	ND	0.500	1.00	ug/L	1	11/08/22 11:53	EPA 200.8	
Zinc	21.9	2.00	4.00	ug/L	1	11/08/22 11:53	EPA 200.8	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water				
Batch: 22K0108								
Aluminum	2370	25.0	50.0	ug/L	1	11/05/22 08:48	EPA 200.8	
Antimony	0.777	0.500	1.00	ug/L	1	11/05/22 08:48	EPA 200.8	J
Arsenic	2.32	0.500	1.00	ug/L	1	11/05/22 08:48	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	11/05/22 08:48	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	11/05/22 08:48	EPA 200.8	
Calcium	25700	375	600	ug/L	1	11/05/22 08:48	EPA 200.8	
Chromium	3.02	1.00	2.00	ug/L	1	11/05/22 08:48	EPA 200.8	
Copper	8.39	1.00	2.00	ug/L	1	11/05/22 08:48	EPA 200.8	
Iron	3510	25.0	50.0	ug/L	1	11/05/22 08:48	EPA 200.8	
Lead	18.3	0.100	0.200	ug/L	1	11/05/22 08:48	EPA 200.8	

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water				
Magnesium	9540	75.0	150	ug/L	1	11/05/22 08:48	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	11/05/22 08:48	EPA 200.8	
Nickel	3.64	1.00	2.00	ug/L	1	11/05/22 08:48	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	11/05/22 08:48	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	11/05/22 08:48	EPA 200.8	
Bear Ck. Oak St. (A2J0791-05RE1)				Matrix: Water				
Batch: 22K0108								
Selenium	ND	0.500	1.00	ug/L	1	11/08/22 11:59	EPA 200.8	
Zinc	23.8	2.00	4.00	ug/L	1	11/08/22 11:59	EPA 200.8	

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ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		(Calculated)		
Hardness	54.7	---	2.12	mg CaCO3/L	1	11/05/22 08:16	SM 2340B	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		(Calculated)		
Hardness	21.1	---	2.12	mg CaCO3/L	1	11/05/22 08:21	SM 2340B	
Colver Rd, OF (A2J0791-03)				Matrix: Water		(Calculated)		
Hardness	41.2	---	2.12	mg CaCO3/L	1	11/05/22 08:27	SM 2340B	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		(Calculated)		
Hardness	134	---	2.12	mg CaCO3/L	1	11/05/22 08:32	SM 2340B	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		(Calculated)		
Hardness	104	---	2.12	mg CaCO3/L	1	11/05/22 08:48	SM 2340B	

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ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water				
Batch: 22J0963								
Nitrate-Nitrogen	0.260	0.125	0.250	mg/L	1	10/25/22 19:20	EPA 300.0	H-06
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 19:20	EPA 300.0	H-06
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water				
Batch: 22J0963								
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 19:42	EPA 300.0	H-06
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 19:42	EPA 300.0	H-06
Colver Rd, OF (A2J0791-03)				Matrix: Water				
Batch: 22J0963								
Nitrate-Nitrogen	2.15	0.125	0.250	mg/L	1	10/25/22 20:04	EPA 300.0	H-06
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 20:04	EPA 300.0	H-06
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water				
Batch: 22J0963								
Nitrate-Nitrogen	0.857	0.125	0.250	mg/L	1	10/25/22 20:25	EPA 300.0	H-06
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 20:25	EPA 300.0	H-06
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water				
Batch: 22J0963								
Nitrate-Nitrogen	0.132	0.125	0.250	mg/L	1	10/25/22 20:47	EPA 300.0	J, H-06
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	10/25/22 20:47	EPA 300.0	H-06

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ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01RE1)				Matrix: Water		Batch: 22K0059		
Total Kjeldahl Nitrogen (TKN)	0.621	---	0.200	mg/L	1	11/02/22 18:32	EPA 351.2	
North Ridge Terrace (NRT), OF (A2J0791-02RE1)				Matrix: Water		Batch: 22K0059		
Total Kjeldahl Nitrogen (TKN)	1.44	---	0.200	mg/L	1	11/02/22 18:33	EPA 351.2	
Colver Rd, OF (A2J0791-03RE1)				Matrix: Water		Batch: 22K0059		
Total Kjeldahl Nitrogen (TKN)	1.77	---	0.200	mg/L	1	11/02/22 18:35	EPA 351.2	
Bear Ck. US Cellular (A2J0791-04RE1)				Matrix: Water		Batch: 22K0059		
Total Kjeldahl Nitrogen (TKN)	1.16	---	0.200	mg/L	1	11/02/22 18:36	EPA 351.2	
Bear Ck. Oak St. (A2J0791-05RE1)				Matrix: Water		Batch: 22K0059		
Total Kjeldahl Nitrogen (TKN)	1.69	---	0.200	mg/L	1	11/02/22 18:38	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Nitrogen by Calculation

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	0.881	---	0.700	mg/L	1	11/02/22 18:32	SM 4500-NorgD	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.44	---	0.700	mg/L	1	11/02/22 18:33	SM 4500-NorgD	
Colver Rd, OF (A2J0791-03)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	3.92	---	0.700	mg/L	1	11/02/22 18:35	SM 4500-NorgD	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	2.02	---	0.700	mg/L	1	11/02/22 18:36	SM 4500-NorgD	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.82	---	0.700	mg/L	1	11/02/22 18:38	SM 4500-NorgD	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		Batch: 22K0024		
Total Organic Carbon	5.75	1.00	1.00	mg/L	1	11/01/22 17:47	SM 5310 C	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		Batch: 22K0024		
Total Organic Carbon	11.8	1.00	1.00	mg/L	1	11/01/22 19:18	SM 5310 C	
Colver Rd, OF (A2J0791-03RE1)				Matrix: Water		Batch: 22K0172		
Total Organic Carbon	22.1	2.00	2.00	mg/L	2	11/04/22 18:42	SM 5310 C	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		Batch: 22K0024		
Total Organic Carbon	6.72	1.00	1.00	mg/L	1	11/01/22 20:20	SM 5310 C	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		Batch: 22K0024		
Total Organic Carbon	9.81	1.00	1.00	mg/L	1	11/01/22 20:51	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		Batch: 22J1034		
Phosphorus	0.198	0.0500	0.100	mg/L	1	10/27/22 16:51	SM 4500-P E	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		Batch: 22J1034		
Phosphorus	0.449	0.0500	0.100	mg/L	1	10/27/22 16:51	SM 4500-P E	
Colver Rd, OF (A2J0791-03)				Matrix: Water		Batch: 22J1034		
Phosphorus	0.485	0.0500	0.100	mg/L	1	10/27/22 16:52	SM 4500-P E	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		Batch: 22J1034		
Phosphorus	0.267	0.0500	0.100	mg/L	1	10/27/22 16:52	SM 4500-P E	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		Batch: 22J1034		
Phosphorus	0.323	0.0500	0.100	mg/L	1	10/27/22 16:53	SM 4500-P E	

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water				
Batch: 22J0988								
pH	8.0	---		pH Units	1	10/25/22 18:46	SM 4500-H+ B	H-12
pH Temperature (deg C)	21.3	---		pH Units	1	10/25/22 18:46	SM 4500-H+ B	H-12
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water				
Batch: 22J0988								
pH	7.9	---		pH Units	1	10/25/22 18:50	SM 4500-H+ B	H-12
pH Temperature (deg C)	21.6	---		pH Units	1	10/25/22 18:50	SM 4500-H+ B	H-12

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A2J0791-01)				Matrix: Water		Batch: 22J1101		
Total Suspended Solids	51.9	---	0.911	mg/L	1	10/29/22 12:11	D3977-97 (07)	
North Ridge Terrace (NRT), OF (A2J0791-02)				Matrix: Water		Batch: 22J1101		
Total Suspended Solids	131	---	0.910	mg/L	1	10/31/22 09:42	D3977-97 (07)	H-01, X
Colver Rd, OF (A2J0791-03)				Matrix: Water		Batch: 22J1101		
Total Suspended Solids	25.1	---	0.933	mg/L	1	10/29/22 12:11	D3977-97 (07)	
Bear Ck. US Cellular (A2J0791-04)				Matrix: Water		Batch: 22J1143		
Total Suspended Solids	26.2	---	0.949	mg/L	1	10/28/22 14:40	D3977-97 (07)	
Bear Ck. Oak St. (A2J0791-05)				Matrix: Water		Batch: 22J1143		
Total Suspended Solids	124	---	0.938	mg/L	1	10/28/22 14:40	D3977-97 (07)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22J1215 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (22J1215-BLK1)			Prepared: 10/31/22 11:27 Analyzed: 10/31/22 21:37										
<u>NWTPH-Dx LL</u>													
Diesel	ND	36.4	72.7	ug/L	1	---	---	---	---	---	---		
Oil	ND	72.7	145	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %		Dilution: 1x							
LCS (22J1215-BS1)			Prepared: 10/31/22 11:27 Analyzed: 10/31/22 22:00										
<u>NWTPH-Dx LL</u>													
Diesel	393	40.0	80.0	ug/L	1	500	---	79	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (22J1215-BSD1)			Prepared: 10/31/22 11:27 Analyzed: 10/31/22 22:23										Q-19
<u>NWTPH-Dx LL</u>													
Diesel	389	40.0	80.0	ug/L	1	500	---	78	36-132%	0.9	30%		
Surr: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %		Dilution: 1x							

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22J1133-BLK1)			Prepared: 10/28/22 06:50		Analyzed: 10/28/22 15:16							
EPA 8270E												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	0.0235	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	B-02, J
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire Monitorin
Project Manager: Greg StabachReport ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22J1133-BLK1)			Prepared: 10/28/22 06:50		Analyzed: 10/28/22 15:16							
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	B-02, J
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	0.225	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	B-02, J
N-Nitrosodiphenylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	0.0356	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	B-02, J
4-Bromophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	B-02, J
Benzoic acid	ND	1.14	2.27	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	0.119	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (22J1133-BLK1)			Prepared: 10/28/22 06:50		Analyzed: 10/28/22 15:16							
Azobenzene (1,2-DPH)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			Recovery: 91 %		Limits: 44-120 %		Dilution: 1x					
2-Fluorobiphenyl (Surr)			77 %		44-120 %		"					
Phenol-d6 (Surr)			34 %		10-133 %		"					
p-Terphenyl-d14 (Surr)			103 %		50-134 %		"					
2-Fluorophenol (Surr)			52 %		19-120 %		"					
2,4,6-Tribromophenol (Surr)			76 %		43-140 %		"					
LCS (22J1133-BS1)						Prepared: 10/28/22 06:50		Analyzed: 10/28/22 15:51				
EPA 8270E												
Acenaphthene	3.18	0.0200	0.0400	ug/L	2	4.00	---	80	47-122%	---	---	
Acenaphthylene	3.39	0.0200	0.0400	ug/L	2	4.00	---	85	41-130%	---	---	
Anthracene	3.81	0.0200	0.0400	ug/L	2	4.00	---	95	57-123%	---	---	
Benz(a)anthracene	3.96	0.0200	0.0400	ug/L	2	4.00	---	99	58-125%	---	---	
Benzo(a)pyrene	4.03	0.0300	0.0600	ug/L	2	4.00	---	101	54-128%	---	---	
Benzo(b)fluoranthene	4.14	0.0300	0.0600	ug/L	2	4.00	---	103	53-131%	---	---	
Benzo(k)fluoranthene	4.11	0.0300	0.0600	ug/L	2	4.00	---	103	57-129%	---	---	
Benzo(g,h,i)perylene	4.17	0.0200	0.0400	ug/L	2	4.00	---	104	50-134%	---	---	
Chrysene	3.98	0.0200	0.0400	ug/L	2	4.00	---	99	59-123%	---	---	
Dibenz(a,h)anthracene	4.06	0.0200	0.0400	ug/L	2	4.00	---	102	51-134%	---	---	
Fluoranthene	3.98	0.0200	0.0400	ug/L	2	4.00	---	100	57-128%	---	---	
Fluorene	3.54	0.0200	0.0400	ug/L	2	4.00	---	89	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	4.02	0.0200	0.0400	ug/L	2	4.00	---	101	52-134%	---	---	
1-Methylnaphthalene	2.72	0.0400	0.0800	ug/L	2	4.00	---	68	41-120%	---	---	
2-Methylnaphthalene	2.68	0.0400	0.0800	ug/L	2	4.00	---	67	40-121%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22J1133-BS1)						Prepared: 10/28/22 06:50 Analyzed: 10/28/22 15:51						
Naphthalene	2.65	0.0400	0.0800	ug/L	2	4.00	---	66	40-121%	---	---	B-02
Phenanthrene	3.63	0.0200	0.0400	ug/L	2	4.00	---	91	59-120%	---	---	
Pyrene	3.94	0.0200	0.0400	ug/L	2	4.00	---	98	57-126%	---	---	
Carbazole	4.13	0.0300	0.0600	ug/L	2	4.00	---	103	60-122%	---	---	
Dibenzofuran	3.33	0.0200	0.0400	ug/L	2	4.00	---	83	53-120%	---	---	
2-Chlorophenol	3.17	0.100	0.200	ug/L	2	4.00	---	79	38-120%	---	---	
4-Chloro-3-methylphenol	3.52	0.200	0.400	ug/L	2	4.00	---	88	52-120%	---	---	
2,4-Dichlorophenol	3.24	0.100	0.200	ug/L	2	4.00	---	81	47-121%	---	---	
2,4-Dimethylphenol	2.91	0.100	0.200	ug/L	2	4.00	---	73	31-124%	---	---	
2,4-Dinitrophenol	3.59	0.500	1.00	ug/L	2	4.00	---	90	23-143%	---	---	
4,6-Dinitro-2-methylphenol	3.79	0.500	1.00	ug/L	2	4.00	---	95	44-137%	---	---	
2-Methylphenol	2.85	0.0500	0.100	ug/L	2	4.00	---	71	30-120%	---	---	
3+4-Methylphenol(s)	2.68	0.0500	0.100	ug/L	2	4.00	---	67	29-120%	---	---	
2-Nitrophenol	3.28	0.200	0.400	ug/L	2	4.00	---	82	47-123%	---	---	Q-41
4-Nitrophenol	1.25	0.200	0.400	ug/L	2	4.00	---	31	10-120%	---	---	
Pentachlorophenol (PCP)	3.50	0.200	0.400	ug/L	2	4.00	---	88	35-138%	---	---	
Phenol	1.47	0.400	0.800	ug/L	2	4.00	---	37	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.70	0.100	0.200	ug/L	2	4.00	---	92	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.42	0.100	0.200	ug/L	2	4.00	---	86	50-121%	---	---	
2,4,5-Trichlorophenol	3.51	0.100	0.200	ug/L	2	4.00	---	88	53-123%	---	---	
2,4,6-Trichlorophenol	3.42	0.100	0.200	ug/L	2	4.00	---	85	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	4.90	0.400	0.800	ug/L	2	4.00	---	123	55-135%	---	---	B-02
Butyl benzyl phthalate	4.52	0.400	0.800	ug/L	2	4.00	---	113	53-134%	---	---	
Diethylphthalate	3.97	0.400	0.800	ug/L	2	4.00	---	99	56-125%	---	---	
Dimethylphthalate	3.81	0.400	0.800	ug/L	2	4.00	---	95	45-127%	---	---	
Di-n-butylphthalate	4.51	0.400	0.800	ug/L	2	4.00	---	113	59-127%	---	---	
Di-n-octyl phthalate	4.81	0.400	0.800	ug/L	2	4.00	---	120	51-140%	---	---	
N-Nitrosodimethylamine	2.36	0.0500	0.100	ug/L	2	4.00	---	59	19-120%	---	---	
N-Nitroso-di-n-propylamine	4.08	0.0500	0.100	ug/L	2	4.00	---	102	49-120%	---	---	Q-41
N-Nitrosodiphenylamine	3.91	0.0500	0.100	ug/L	2	4.00	---	98	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.75	0.0500	0.100	ug/L	2	4.00	---	94	48-120%	---	---	
Bis(2-Chloroethyl) ether	3.75	0.0500	0.100	ug/L	2	4.00	---	94	43-120%	---	---	B-02
2,2'-Oxybis(1-Chloropropane)	3.91	0.0500	0.100	ug/L	2	4.00	---	98	41-120%	---	---	Q-41
Hexachlorobenzene	3.42	0.0200	0.0400	ug/L	2	4.00	---	86	53-125%	---	---	

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ANALYTICAL REPORT

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (22J1133-BS1)						Prepared: 10/28/22 06:50 Analyzed: 10/28/22 15:51						
Hexachlorobutadiene	1.62	0.0500	0.100	ug/L	2	4.00	---	41	22-124%	---	---	
Hexachlorocyclopentadiene	1.43	0.100	0.200	ug/L	2	4.00	---	36	10-127%	---	---	
Hexachloroethane	1.71	0.0500	0.100	ug/L	2	4.00	---	43	21-120%	---	---	
2-Chloronaphthalene	2.87	0.0200	0.0400	ug/L	2	4.00	---	72	40-120%	---	---	
1,2,4-Trichlorobenzene	2.12	0.0500	0.100	ug/L	2	4.00	---	53	29-120%	---	---	
4-Bromophenyl phenyl ether	3.62	0.0500	0.100	ug/L	2	4.00	---	91	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.34	0.0500	0.100	ug/L	2	4.00	---	84	53-121%	---	---	
Aniline	2.44	0.100	0.200	ug/L	2	4.00	---	61	10-120%	---	---	
4-Chloroaniline	2.61	0.0500	0.100	ug/L	2	4.00	---	65	33-120%	---	---	
2-Nitroaniline	3.85	0.400	0.800	ug/L	2	4.00	---	96	55-127%	---	---	
3-Nitroaniline	3.60	0.400	0.800	ug/L	2	4.00	---	90	41-128%	---	---	
4-Nitroaniline	2.82	0.400	0.800	ug/L	2	4.00	---	70	25-120%	---	---	
Nitrobenzene	3.66	0.200	0.400	ug/L	2	4.00	---	91	45-121%	---	---	Q-41
2,4-Dinitrotoluene	3.92	0.200	0.400	ug/L	2	4.00	---	98	57-128%	---	---	
2,6-Dinitrotoluene	3.78	0.200	0.400	ug/L	2	4.00	---	95	57-124%	---	---	
Benzoic acid	2.34	2.00	2.00	ug/L	2	8.00	---	29	10-120%	---	---	Q-31
Benzyl alcohol	3.13	0.200	0.400	ug/L	2	4.00	---	78	31-120%	---	---	B-02
Isophorone	4.00	0.0500	0.100	ug/L	2	4.00	---	100	42-124%	---	---	
Azobenzene (1,2-DPH)	4.41	0.0500	0.100	ug/L	2	4.00	---	110	61-120%	---	---	Q-41
Bis(2-Ethylhexyl) adipate	4.50	0.500	1.00	ug/L	2	4.00	---	113	63-121%	---	---	
3,3'-Dichlorobenzidine	16.7	1.00	2.00	ug/L	2	8.00	---	208	27-129%	---	---	Q-29, Q-41
1,2-Dinitrobenzene	3.77	0.500	1.00	ug/L	2	4.00	---	94	59-120%	---	---	
1,3-Dinitrobenzene	3.65	0.500	1.00	ug/L	2	4.00	---	91	49-128%	---	---	
1,4-Dinitrobenzene	3.74	0.500	1.00	ug/L	2	4.00	---	94	54-120%	---	---	
Pyridine	2.07	0.200	0.400	ug/L	2	4.00	---	52	10-120%	---	---	
1,2-Dichlorobenzene	1.94	0.0500	0.100	ug/L	2	4.00	---	49	32-120%	---	---	
1,3-Dichlorobenzene	1.80	0.0500	0.100	ug/L	2	4.00	---	45	28-120%	---	---	
1,4-Dichlorobenzene	1.87	0.0500	0.100	ug/L	2	4.00	---	47	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)												
			Recovery: 91 %	Limits: 44-120 %	Dilution: 2x							
2-Fluorobiphenyl (Surr)			76 %	44-120 %	"							
Phenol-d6 (Surr)			31 %	10-133 %	"							
p-Terphenyl-d14 (Surr)			96 %	50-134 %	"							
2-Fluorophenol (Surr)			47 %	19-120 %	"							
2,4,6-Tribromophenol (Surr)			92 %	43-140 %	"							

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22J1133-BSD1)						Prepared: 10/28/22 06:50 Analyzed: 10/28/22 16:26						Q-19
EPA 8270E												
Acenaphthene	3.21	0.0200	0.0400	ug/L	2	4.00	---	80	47-122%	0.9	30%	
Acenaphthylene	3.40	0.0200	0.0400	ug/L	2	4.00	---	85	41-130%	0.03	30%	
Anthracene	3.79	0.0200	0.0400	ug/L	2	4.00	---	95	57-123%	0.5	30%	
Benz(a)anthracene	4.03	0.0200	0.0400	ug/L	2	4.00	---	101	58-125%	2	30%	
Benzo(a)pyrene	4.09	0.0300	0.0600	ug/L	2	4.00	---	102	54-128%	2	30%	
Benzo(b)fluoranthene	4.22	0.0300	0.0600	ug/L	2	4.00	---	105	53-131%	2	30%	
Benzo(k)fluoranthene	4.16	0.0300	0.0600	ug/L	2	4.00	---	104	57-129%	1	30%	
Benzo(g,h,i)perylene	4.25	0.0200	0.0400	ug/L	2	4.00	---	106	50-134%	2	30%	
Chrysene	3.97	0.0200	0.0400	ug/L	2	4.00	---	99	59-123%	0.05	30%	
Dibenz(a,h)anthracene	4.14	0.0200	0.0400	ug/L	2	4.00	---	104	51-134%	2	30%	
Fluoranthene	4.09	0.0200	0.0400	ug/L	2	4.00	---	102	57-128%	3	30%	
Fluorene	3.51	0.0200	0.0400	ug/L	2	4.00	---	88	52-124%	0.7	30%	
Indeno(1,2,3-cd)pyrene	4.21	0.0200	0.0400	ug/L	2	4.00	---	105	52-134%	5	30%	
1-Methylnaphthalene	2.83	0.0400	0.0800	ug/L	2	4.00	---	71	41-120%	4	30%	
2-Methylnaphthalene	2.81	0.0400	0.0800	ug/L	2	4.00	---	70	40-121%	5	30%	
Naphthalene	2.70	0.0400	0.0800	ug/L	2	4.00	---	68	40-121%	2	30%	B-02
Phenanthrene	3.58	0.0200	0.0400	ug/L	2	4.00	---	90	59-120%	1	30%	
Pyrene	4.02	0.0200	0.0400	ug/L	2	4.00	---	100	57-126%	2	30%	
Carbazole	4.06	0.0300	0.0600	ug/L	2	4.00	---	101	60-122%	2	30%	
Dibenzofuran	3.32	0.0200	0.0400	ug/L	2	4.00	---	83	53-120%	0.4	30%	
2-Chlorophenol	3.14	0.100	0.200	ug/L	2	4.00	---	78	38-120%	1	30%	
4-Chloro-3-methylphenol	3.63	0.200	0.400	ug/L	2	4.00	---	91	52-120%	3	30%	
2,4-Dichlorophenol	3.22	0.100	0.200	ug/L	2	4.00	---	80	47-121%	0.6	30%	
2,4-Dimethylphenol	3.09	0.100	0.200	ug/L	2	4.00	---	77	31-124%	6	30%	
2,4-Dinitrophenol	3.82	0.500	1.00	ug/L	2	4.00	---	96	23-143%	6	30%	
4,6-Dinitro-2-methylphenol	4.01	0.500	1.00	ug/L	2	4.00	---	100	44-137%	6	30%	
2-Methylphenol	2.98	0.0500	0.100	ug/L	2	4.00	---	75	30-120%	4	30%	
3+4-Methylphenol(s)	2.88	0.0500	0.100	ug/L	2	4.00	---	72	29-120%	7	30%	
2-Nitrophenol	3.19	0.200	0.400	ug/L	2	4.00	---	80	47-123%	3	30%	Q-41
4-Nitrophenol	1.48	0.200	0.400	ug/L	2	4.00	---	37	10-120%	18	30%	
Pentachlorophenol (PCP)	3.66	0.200	0.400	ug/L	2	4.00	---	91	35-138%	4	30%	
Phenol	1.54	0.400	0.800	ug/L	2	4.00	---	38	10-120%	4	30%	
2,3,4,6-Tetrachlorophenol	3.76	0.100	0.200	ug/L	2	4.00	---	94	50-128%	2	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22J1133-BSD1)						Prepared: 10/28/22 06:50 Analyzed: 10/28/22 16:26						Q-19
2,3,5,6-Tetrachlorophenol	3.50	0.100	0.200	ug/L	2	4.00	---	87	50-121%	2	30%	
2,4,5-Trichlorophenol	3.56	0.100	0.200	ug/L	2	4.00	---	89	53-123%	1	30%	
2,4,6-Trichlorophenol	3.40	0.100	0.200	ug/L	2	4.00	---	85	50-125%	0.7	30%	
Bis(2-ethylhexyl)phthalate	4.61	0.400	0.800	ug/L	2	4.00	---	115	55-135%	6	30%	B-02
Butyl benzyl phthalate	4.58	0.400	0.800	ug/L	2	4.00	---	115	53-134%	1	30%	
Diethylphthalate	4.00	0.400	0.800	ug/L	2	4.00	---	100	56-125%	0.8	30%	
Dimethylphthalate	3.76	0.400	0.800	ug/L	2	4.00	---	94	45-127%	1	30%	
Di-n-butylphthalate	4.58	0.400	0.800	ug/L	2	4.00	---	114	59-127%	1	30%	
Di-n-octyl phthalate	4.91	0.400	0.800	ug/L	2	4.00	---	123	51-140%	2	30%	
N-Nitrosodimethylamine	2.40	0.0500	0.100	ug/L	2	4.00	---	60	19-120%	2	30%	
N-Nitroso-di-n-propylamine	3.91	0.0500	0.100	ug/L	2	4.00	---	98	49-120%	4	30%	Q-41
N-Nitrosodiphenylamine	3.86	0.0500	0.100	ug/L	2	4.00	---	96	51-123%	1	30%	
Bis(2-Chloroethoxy) methane	3.58	0.0500	0.100	ug/L	2	4.00	---	90	48-120%	5	30%	
Bis(2-Chloroethyl) ether	3.65	0.0500	0.100	ug/L	2	4.00	---	91	43-120%	3	30%	B-02
2,2'-Oxybis(1-Chloropropane)	3.76	0.0500	0.100	ug/L	2	4.00	---	94	41-120%	4	30%	Q-41
Hexachlorobenzene	3.38	0.0200	0.0400	ug/L	2	4.00	---	84	53-125%	1	30%	
Hexachlorobutadiene	1.96	0.0500	0.100	ug/L	2	4.00	---	49	22-124%	19	30%	
Hexachlorocyclopentadiene	2.04	0.100	0.200	ug/L	2	4.00	---	51	10-127%	35	30%	Q-24
Hexachloroethane	2.08	0.0500	0.100	ug/L	2	4.00	---	52	21-120%	20	30%	
2-Chloronaphthalene	2.93	0.0200	0.0400	ug/L	2	4.00	---	73	40-120%	2	30%	
1,2,4-Trichlorobenzene	2.36	0.0500	0.100	ug/L	2	4.00	---	59	29-120%	11	30%	
4-Bromophenyl phenyl ether	3.55	0.0500	0.100	ug/L	2	4.00	---	89	55-124%	2	30%	
4-Chlorophenyl phenyl ether	3.33	0.0500	0.100	ug/L	2	4.00	---	83	53-121%	0.2	30%	
Aniline	2.09	0.100	0.200	ug/L	2	4.00	---	52	10-120%	16	30%	
4-Chloroaniline	2.42	0.0500	0.100	ug/L	2	4.00	---	61	33-120%	7	30%	
2-Nitroaniline	3.83	0.400	0.800	ug/L	2	4.00	---	96	55-127%	0.5	30%	
3-Nitroaniline	3.37	0.400	0.800	ug/L	2	4.00	---	84	41-128%	7	30%	
4-Nitroaniline	2.52	0.400	0.800	ug/L	2	4.00	---	63	25-120%	11	30%	
Nitrobenzene	3.52	0.200	0.400	ug/L	2	4.00	---	88	45-121%	4	30%	Q-41
2,4-Dinitrotoluene	3.99	0.200	0.400	ug/L	2	4.00	---	100	57-128%	2	30%	
2,6-Dinitrotoluene	3.81	0.200	0.400	ug/L	2	4.00	---	95	57-124%	0.6	30%	
Benzoic acid	2.86	2.50	2.50	ug/L	2	8.00	---	36	10-120%	20	30%	Q-31
Benzyl alcohol	3.20	0.200	0.400	ug/L	2	4.00	---	80	31-120%	2	30%	B-02
Isophorone	3.84	0.0500	0.100	ug/L	2	4.00	---	96	42-124%	4	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1133 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (22J1133-BSD1)						Prepared: 10/28/22 06:50 Analyzed: 10/28/22 16:26						Q-19
Azobenzene (1,2-DPH)	4.30	0.0500	0.100	ug/L	2	4.00	---	108	61-120%	3	30%	Q-41
Bis(2-Ethylhexyl) adipate	4.53	0.500	1.00	ug/L	2	4.00	---	113	63-121%	0.7	30%	
3,3'-Dichlorobenzidine	15.6	1.00	2.00	ug/L	2	8.00	---	195	27-129%	7	30%	Q-29, Q-41
1,2-Dinitrobenzene	3.78	0.500	1.00	ug/L	2	4.00	---	94	59-120%	0.3	30%	
1,3-Dinitrobenzene	3.65	0.500	1.00	ug/L	2	4.00	---	91	49-128%	0.06	30%	
1,4-Dinitrobenzene	3.77	0.500	1.00	ug/L	2	4.00	---	94	54-120%	0.8	30%	
Pyridine	2.00	0.200	0.400	ug/L	2	4.00	---	50	10-120%	4	30%	
1,2-Dichlorobenzene	2.16	0.0500	0.100	ug/L	2	4.00	---	54	32-120%	11	30%	
1,3-Dichlorobenzene	2.06	0.0500	0.100	ug/L	2	4.00	---	52	28-120%	13	30%	
1,4-Dichlorobenzene	2.11	0.0500	0.100	ug/L	2	4.00	---	53	29-120%	12	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												
			Recovery: 89 %	Limits: 44-120 %	Dilution: 2x							
<i>2-Fluorobiphenyl (Surr)</i>			76 %	44-120 %	"							
<i>Phenol-d6 (Surr)</i>			33 %	10-133 %	"							
<i>p-Terphenyl-d14 (Surr)</i>			98 %	50-134 %	"							
<i>2-Fluorophenol (Surr)</i>			50 %	19-120 %	"							
<i>2,4,6-Tribromophenol (Surr)</i>			93 %	43-140 %	"							

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Rogue Valley Council of Governments

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0108 - EPA 3015A						Water						
Blank (22K0108-BLK1)			Prepared: 11/03/22 07:55		Analyzed: 11/05/22 08:05							
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Blank (22K0108-BLK3)			Prepared: 11/03/22 07:55		Analyzed: 11/08/22 12:30							
EPA 200.8												
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22K0108-BS1)			Prepared: 11/03/22 07:55		Analyzed: 11/05/22 08:11							
EPA 200.8												
Aluminum	3040	25.0	50.0	ug/L	1	2780	---	109	85-115%	---	---	
Antimony	27.8	0.500	1.00	ug/L	1	27.8	---	100	85-115%	---	---	
Arsenic	55.7	0.500	1.00	ug/L	1	55.6	---	100	85-115%	---	---	
Beryllium	26.0	0.100	0.200	ug/L	1	27.8	---	94	85-115%	---	---	
Cadmium	55.9	0.100	0.200	ug/L	1	55.6	---	101	85-115%	---	---	
Calcium	2850	375	600	ug/L	1	2780	---	103	85-115%	---	---	
Chromium	55.9	1.00	2.00	ug/L	1	55.6	---	101	85-115%	---	---	
Copper	55.6	1.00	2.00	ug/L	1	55.6	---	100	85-115%	---	---	
Iron	2820	25.0	50.0	ug/L	1	2780	---	102	85-115%	---	---	
Lead	55.5	0.100	0.200	ug/L	1	55.6	---	100	85-115%	---	---	

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

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A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0108 - EPA 3015A						Water						
LCS (22K0108-BS1)						Prepared: 11/03/22 07:55 Analyzed: 11/05/22 08:11						
Magnesium	3050	75.0	150	ug/L	1	2780	---	110	85-115%	---	---	
Mercury	1.05	0.0400	0.0800	ug/L	1	1.11	---	94	85-115%	---	---	
Nickel	54.8	1.00	2.00	ug/L	1	55.6	---	99	85-115%	---	---	
Selenium	26.9	1.00	2.00	ug/L	1	27.8	---	97	85-115%	---	---	
Silver	28.5	0.100	0.200	ug/L	1	27.8	---	102	85-115%	---	---	
Thallium	27.0	0.100	0.200	ug/L	1	27.8	---	97	85-115%	---	---	
Zinc	56.9	2.00	4.00	ug/L	1	55.6	---	102	85-115%	---	---	

Duplicate (22K0108-DUP1)

Prepared: 11/03/22 07:55 Analyzed: 11/05/22 10:07

QC Source Sample: Non-SDG (A2K0115-01)

Aluminum	ND	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	19.8	0.500	1.00	ug/L	1	---	19.8	---	---	0.1	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Calcium	8790	375	600	ug/L	1	---	8750	---	---	0.4	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	11.5	1.00	2.00	ug/L	1	---	11.5	---	---	0.5	20%	
Iron	39.1	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	J
Lead	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Magnesium	3330	75.0	150	ug/L	1	---	3290	---	---	1	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Selenium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Zinc	2.86	2.00	4.00	ug/L	1	---	ND	---	---	---	20%	J

Matrix Spike (22K0108-MS1)

Prepared: 11/03/22 07:55 Analyzed: 11/05/22 10:12

QC Source Sample: Non-SDG (A2K0115-01)

EPA 200.8												
Aluminum	2930	25.0	50.0	ug/L	1	2780	ND	106	70-130%	---	---	
Antimony	28.1	0.500	1.00	ug/L	1	27.8	ND	101	70-130%	---	---	
Arsenic	76.0	0.500	1.00	ug/L	1	55.6	19.8	101	70-130%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0108 - EPA 3015A						Water						
Matrix Spike (22K0108-MS1)			Prepared: 11/03/22 07:55		Analyzed: 11/05/22 10:12							
QC Source Sample: Non-SDG (A2K0115-01)												
Beryllium	26.3	0.100	0.200	ug/L	1	27.8	ND	95	70-130%	---	---	
Cadmium	55.2	0.100	0.200	ug/L	1	55.6	ND	99	70-130%	---	---	
Calcium	11500	375	600	ug/L	1	2780	8750	100	70-130%	---	---	
Chromium	55.6	1.00	2.00	ug/L	1	55.6	ND	100	70-130%	---	---	
Copper	64.3	1.00	2.00	ug/L	1	55.6	11.5	95	70-130%	---	---	
Iron	2850	25.0	50.0	ug/L	1	2780	ND	103	70-130%	---	---	
Lead	51.3	0.100	0.200	ug/L	1	55.6	ND	92	70-130%	---	---	
Magnesium	6190	75.0	150	ug/L	1	2780	3290	104	70-130%	---	---	
Mercury	1.01	0.0400	0.0800	ug/L	1	1.11	ND	91	70-130%	---	---	
Nickel	54.5	1.00	2.00	ug/L	1	55.6	ND	98	70-130%	---	---	
Selenium	26.5	1.00	2.00	ug/L	1	27.8	ND	96	70-130%	---	---	
Silver	27.7	0.100	0.200	ug/L	1	27.8	ND	100	70-130%	---	---	
Thallium	25.3	0.100	0.200	ug/L	1	27.8	ND	91	70-130%	---	---	
Zinc	56.4	2.00	4.00	ug/L	1	55.6	ND	101	70-130%	---	---	

Matrix Spike (22K0108-MS2)

Prepared: 11/03/22 07:55 Analyzed: 11/05/22 09:25

QC Source Sample: Non-SDG (A2J0864-01)EPA 200.8

Aluminum	3640	25.0	50.0	ug/L	1	2780	718	105	70-130%	---	---	
Antimony	29.0	0.500	1.00	ug/L	1	27.8	0.861	101	70-130%	---	---	
Arsenic	56.0	0.500	1.00	ug/L	1	55.6	ND	101	70-130%	---	---	
Beryllium	26.6	0.100	0.200	ug/L	1	27.8	ND	96	70-130%	---	---	
Cadmium	55.7	0.100	0.200	ug/L	1	55.6	0.845	99	70-130%	---	---	
Calcium	11100	375	600	ug/L	1	2780	8250	103	70-130%	---	---	
Chromium	109	1.00	2.00	ug/L	1	55.6	53.4	100	70-130%	---	---	
Copper	123	1.00	2.00	ug/L	1	55.6	66.3	103	70-130%	---	---	
Iron	3880	25.0	50.0	ug/L	1	2780	1160	98	70-130%	---	---	
Lead	56.8	0.100	0.200	ug/L	1	55.6	2.66	97	70-130%	---	---	
Magnesium	3340	75.0	150	ug/L	1	2780	478	103	70-130%	---	---	
Mercury	1.06	0.0400	0.0800	ug/L	1	1.11	ND	95	70-130%	---	---	
Nickel	286	1.00	2.00	ug/L	1	55.6	228	104	70-130%	---	---	
Selenium	26.6	1.00	2.00	ug/L	1	27.8	ND	96	70-130%	---	---	
Silver	30.0	0.100	0.200	ug/L	1	27.8	1.58	102	70-130%	---	---	

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Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 200.8 (ICPMS)**

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0108 - EPA 3015A						Water						
Matrix Spike (22K0108-MS2)			Prepared: 11/03/22 07:55 Analyzed: 11/05/22 09:25									
QC Source Sample: Non-SDG (A2J0864-01)												
Thallium	26.7	0.100	0.200	ug/L	1	27.8	ND	96	70-130%	---	---	
Zinc	1140	2.00	4.00	ug/L	1	55.6	1080	106	70-130%	---	---	

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Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0963 - Method Prep: Aq						Water						
Blank (22J0963-BLK1)			Prepared: 10/25/22 08:18 Analyzed: 10/25/22 15:45									
EPA 300.0												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
LCS (22J0963-BS1)			Prepared: 10/25/22 08:18 Analyzed: 10/25/22 16:06									
EPA 300.0												
Nitrate-Nitrogen	1.94	0.125	0.250	mg/L	1	2.00	---	97	90-110%	---	---	
Nitrite-Nitrogen	1.94	0.125	0.250	mg/L	1	2.00	---	97	90-110%	---	---	
Duplicate (22J0963-DUP1)			Prepared: 10/25/22 08:18 Analyzed: 10/25/22 17:54									
QC Source Sample: Non-SDG (A2J0754-03RE1)												
Nitrate-Nitrogen	0.280	0.125	0.250	mg/L	1	---	0.279	---	---	0.3	3%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (22J0963-MS1)			Prepared: 10/25/22 08:18 Analyzed: 10/25/22 18:16									
QC Source Sample: Non-SDG (A2J0754-03RE1)												
EPA 300.0												
Nitrate-Nitrogen	2.73	0.156	0.312	mg/L	1	2.50	0.279	98	87-112%	---	---	
Nitrite-Nitrogen	2.43	0.156	0.312	mg/L	1	2.50	ND	97	90-114%	---	---	

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Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire Monitorin
Project Manager: Greg StabachReport ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0059 - TKN block digestion						Water						
Blank (22K0059-BLK1)			Prepared: 11/02/22 08:07 Analyzed: 11/02/22 16:57									
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	ND	---	0.200	mg/L	1	---	---	---	---	---	---	
LCS (22K0059-BS1)			Prepared: 11/02/22 08:07 Analyzed: 11/02/22 16:59									
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	4.80	---	0.200	mg/L	1	5.00	---	96	90-110%	---	---	
Matrix Spike (22K0059-MS1)			Prepared: 11/02/22 08:07 Analyzed: 11/02/22 17:08									
<u>QC Source Sample: Non-SDG (A2J0852-14)</u>												
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	5.89	---	0.200	mg/L	1	5.00	0.728	103	90-110%	---	---	
Matrix Spike (22K0059-MS2)			Prepared: 11/02/22 08:07 Analyzed: 11/02/22 17:23									
<u>QC Source Sample: Non-SDG (A2J0907-01)</u>												
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	5.34	---	0.200	mg/L	1	5.00	0.305	101	90-110%	---	---	
Matrix Spike Dup (22K0059-MSD1)			Prepared: 11/02/22 08:07 Analyzed: 11/02/22 17:09									
<u>QC Source Sample: Non-SDG (A2J0852-14)</u>												
Total Kjeldahl Nitrogen (TKN)	5.94	---	0.200	mg/L	1	5.00	0.728	104	90-110%	0.9	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0024 - Method Prep: Aq						Water						
Blank (22K0024-BLK1)			Prepared: 11/01/22 11:59 Analyzed: 11/01/22 16:46									
SM 5310 C												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22K0024-BS1)			Prepared: 11/01/22 11:59 Analyzed: 11/01/22 17:16									
SM 5310 C												
Total Organic Carbon	9.96	1.00	1.00	mg/L	1	10.0	---	100	90-114%	---	---	
Matrix Spike (22K0024-MS1)			Prepared: 11/01/22 11:59 Analyzed: 11/01/22 18:17									
QC Source Sample: West Valley View (WVV), OF (A2J0791-01)												
SM 5310 C												
Total Organic Carbon	15.7	1.01	1.01	mg/L	1	10.0	5.75	100	85-115%	---	---	
Matrix Spike Dup (22K0024-MSD1)			Prepared: 11/01/22 11:59 Analyzed: 11/01/22 18:48									
QC Source Sample: West Valley View (WVV), OF (A2J0791-01)												
SM 5310 C												
Total Organic Carbon	15.6	1.01	1.01	mg/L	1	10.0	5.75	98	85-115%	1	15%	

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ANALYTICAL REPORT

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Central Point, OR 97502Project: Almeda Post Fire Monitoring-2022

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

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A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0172 - Method Prep: Aq						Water						
Blank (22K0172-BLK1)			Prepared: 11/04/22 11:05 Analyzed: 11/04/22 17:42									
<u>SM 5310 C</u>												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22K0172-BS1)			Prepared: 11/04/22 11:05 Analyzed: 11/04/22 18:12									
<u>SM 5310 C</u>												
Total Organic Carbon	9.74	1.00	1.00	mg/L	1	10.0	---	97	90-114%	---	---	
Matrix Spike (22K0172-MS1)			Prepared: 11/04/22 11:05 Analyzed: 11/04/22 19:45									
<u>QC Source Sample: Non-SDG (A2J0874-02RE1)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	11.7	1.01	1.01	mg/L	1	10.0	1.34	104	85-115%	---	---	
Matrix Spike Dup (22K0172-MSD1)			Prepared: 11/04/22 11:05 Analyzed: 11/04/22 20:15									
<u>QC Source Sample: Non-SDG (A2J0874-02RE1)</u>												
Total Organic Carbon	11.3	1.01	1.01	mg/L	1	10.0	1.34	100	85-115%	3	15%	

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Project Number: Almeda Post Fire Monitorin

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1034 - Persulfate Digestion						Water						
Blank (22J1034-BLK1)			Prepared: 10/26/22 12:08 Analyzed: 10/27/22 16:39									
<u>SM 4500-PE</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (22J1034-BS1)			Prepared: 10/26/22 12:08 Analyzed: 10/27/22 16:39									
<u>SM 4500-PE</u>												
Phosphorus	0.519	0.0500	0.100	mg/L	1	0.522	---	99	85-118%	---	---	
Matrix Spike (22J1034-MS1)			Prepared: 10/26/22 12:08 Analyzed: 10/27/22 16:43									
<u>QC Source Sample: Non-SDG (A2J0750-02)</u>												
<u>SM 4500-PE</u>												
Phosphorus	0.499	0.0500	0.100	mg/L	1	0.522	ND	96	85-118%	---	---	
Matrix Spike Dup (22J1034-MSD1)			Prepared: 10/26/22 12:08 Analyzed: 10/27/22 16:43									
<u>QC Source Sample: Non-SDG (A2J0750-02)</u>												
Phosphorus	0.524	0.0500	0.100	mg/L	1	0.522	ND	100	85-118%	5	19%	

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Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619****QUALITY CONTROL (QC) SAMPLE RESULTS****Conventional Chemistry Parameters**

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0988 - Method Prep: Aq						Water						
Duplicate (22J0988-DUP1)				Prepared: 10/25/22 13:11 Analyzed: 10/25/22 18:48								
QC Source Sample: Bear Ck. US Cellular (A2J0791-04)												
SM 4500-H+ B												
pH	8.0	---		pH Units	1	---	8.0	---	---	0.1	2%	H-12
pH Temperature (deg C)	20.6	---		pH Units	1	---	21.3	---	---	3	30%	H-12
Reference (22J0988-SRM1)												
				Prepared: 10/25/22 13:11 Analyzed: 10/25/22 15:13								
SM 4500-H+ B												
pH	6.0	---		pH Units	1	6.00		100	98-102%	---	---	
pH Temperature (deg C)	22.2	---		pH Units	1	20.0		111	50-200%	---	---	
Reference (22J0988-SRM2)												
				Prepared: 10/25/22 13:11 Analyzed: 10/25/22 15:15								
SM 4500-H+ B												
pH	8.0	---		pH Units	1	8.00		99	99-101%	---	---	
pH Temperature (deg C)	22.1	---		pH Units	1	20.0		110	50-200%	---	---	
Reference (22J0988-SRM3)												
				Prepared: 10/25/22 13:11 Analyzed: 10/25/22 18:30								
SM 4500-H+ B												
pH	6.0	---		pH Units	1	6.00		100	98-102%	---	---	
pH Temperature (deg C)	21.9	---		pH Units	1	20.0		110	50-200%	---	---	
Reference (22J0988-SRM4)												
				Prepared: 10/25/22 13:11 Analyzed: 10/25/22 18:53								
SM 4500-H+ B												
pH	8.0	---		pH Units	1	8.00		100	99-101%	---	---	
pH Temperature (deg C)	21.8	---		pH Units	1	20.0		109	50-200%	---	---	

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Project Manager: Greg StabachReport ID:

A2J0791 - 12 29 22 1619

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1101 - Total Suspended Solids						Water						
Blank (22J1101-BLK1)			Prepared: 10/29/22 12:11 Analyzed: 10/29/22 12:11									
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22J1101-BS1)			Prepared: 10/29/22 12:11 Analyzed: 10/29/22 12:11									
<u>D3977-97 (07)</u>												
Total Suspended Solids	839	---	10.0	mg/L	1	839	---	100	85-115%	---	---	
LCS Dup (22J1101-BSD1)			Prepared: 10/29/22 12:11 Analyzed: 10/29/22 12:11									
<u>D3977-97 (07)</u>												
Total Suspended Solids	803	---	10.0	mg/L	1	803	---	100	85-115%	4.38	7%	

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Project Manager: Greg StabachReport ID:

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1143 - Total Suspended Solids						Water						
Blank (22J1143-BLK1)			Prepared: 10/28/22 14:40 Analyzed: 10/28/22 14:40									
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (22J1143-BS1)			Prepared: 10/28/22 14:40 Analyzed: 10/28/22 14:40									
<u>D3977-97 (07)</u>												
Total Suspended Solids	836	---	10.0	mg/L	1	836	---	100	85-115%	---	---	
LCS Dup (22J1143-BSD1)			Prepared: 10/28/22 14:40 Analyzed: 10/28/22 14:40									
<u>D3977-97 (07)</u>												
Total Suspended Solids	806	---	10.0	mg/L	1	806	---	100	85-115%	3.65	7%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22J1215							
A2J0791-01	Water	NWTPH-Dx LL	10/22/22 17:45	10/31/22 11:27	1000mL/2mL	1000mL/2mL	1.00
A2J0791-02	Water	NWTPH-Dx LL	10/22/22 16:30	10/31/22 11:27	1050mL/2mL	1000mL/2mL	0.95
A2J0791-03	Water	NWTPH-Dx LL	10/22/22 17:10	10/31/22 11:27	990mL/2mL	1000mL/2mL	1.01
A2J0791-04	Water	NWTPH-Dx LL	10/22/22 18:30	10/31/22 11:27	850mL/2mL	1000mL/2mL	1.18
A2J0791-05	Water	NWTPH-Dx LL	10/22/22 17:30	10/31/22 11:27	1020mL/2mL	1000mL/2mL	0.98

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22J1133							
A2J0791-01RE1	Water	EPA 8270E	10/22/22 17:45	10/28/22 06:50	990mL/1mL	1000mL/1mL	1.01
A2J0791-02RE1	Water	EPA 8270E	10/22/22 16:30	10/28/22 06:50	1000mL/1mL	1000mL/1mL	1.00
A2J0791-03RE1	Water	EPA 8270E	10/22/22 17:10	10/28/22 06:50	1000mL/1mL	1000mL/1mL	1.00
A2J0791-04RE2	Water	EPA 8270E	10/22/22 18:30	10/28/22 06:50	1020mL/1mL	1000mL/1mL	0.98
A2J0791-05RE1	Water	EPA 8270E	10/22/22 17:30	10/28/22 06:50	1000mL/1mL	1000mL/1mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22K0108							
A2J0791-01	Water	EPA 200.8	10/22/22 17:45	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-01RE1	Water	EPA 200.8	10/22/22 17:45	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-02	Water	EPA 200.8	10/22/22 16:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-02RE1	Water	EPA 200.8	10/22/22 16:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-03	Water	EPA 200.8	10/22/22 17:10	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-03RE1	Water	EPA 200.8	10/22/22 17:10	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-04	Water	EPA 200.8	10/22/22 18:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-04RE1	Water	EPA 200.8	10/22/22 18:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-05	Water	EPA 200.8	10/22/22 17:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00
A2J0791-05RE1	Water	EPA 200.8	10/22/22 17:30	11/03/22 07:55	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619****SAMPLE PREPARATION INFORMATION****Anions by Ion Chromatography****Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22J0963							
A2J0791-01	Water	EPA 300.0	10/22/22 17:45	10/24/22 18:12	5mL/5mL	5mL/5mL	1.00
A2J0791-02	Water	EPA 300.0	10/22/22 16:30	10/24/22 18:12	5mL/5mL	5mL/5mL	1.00
A2J0791-03	Water	EPA 300.0	10/22/22 17:10	10/24/22 18:12	5mL/5mL	5mL/5mL	1.00
A2J0791-04	Water	EPA 300.0	10/22/22 18:30	10/24/22 18:12	5mL/5mL	5mL/5mL	1.00
A2J0791-05	Water	EPA 300.0	10/22/22 17:30	10/24/22 18:12	5mL/5mL	5mL/5mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection**Prep: TKN block digestion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22K0059							
A2J0791-01RE1	Water	EPA 351.2	10/22/22 17:45	11/02/22 08:07	25mL/25mL	25mL/25mL	1.00
A2J0791-02RE1	Water	EPA 351.2	10/22/22 16:30	11/02/22 08:07	25mL/25mL	25mL/25mL	1.00
A2J0791-03RE1	Water	EPA 351.2	10/22/22 17:10	11/02/22 08:07	25mL/25mL	25mL/25mL	1.00
A2J0791-04RE1	Water	EPA 351.2	10/22/22 18:30	11/02/22 08:07	25mL/25mL	25mL/25mL	1.00
A2J0791-05RE1	Water	EPA 351.2	10/22/22 17:30	11/02/22 08:07	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C**Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22K0024							
A2J0791-01	Water	SM 5310 C	10/22/22 17:45	11/01/22 11:59	40mL/40mL	40mL/40mL	1.00
A2J0791-02	Water	SM 5310 C	10/22/22 16:30	11/01/22 11:59	40mL/40mL	40mL/40mL	1.00
A2J0791-04	Water	SM 5310 C	10/22/22 18:30	11/01/22 11:59	40mL/40mL	40mL/40mL	1.00
A2J0791-05	Water	SM 5310 C	10/22/22 17:30	11/01/22 11:59	40mL/40mL	40mL/40mL	1.00
Batch: 22K0172							
A2J0791-03RE1	Water	SM 5310 C	10/22/22 17:10	11/04/22 11:05	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry**Prep: Persulfate Digestion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22J1034							
A2J0791-01	Water	SM 4500-P E	10/22/22 17:45	10/26/22 12:08	25mL/50mL	25mL/50mL	1.00
A2J0791-02	Water	SM 4500-P E	10/22/22 16:30	10/26/22 12:08	25mL/50mL	25mL/50mL	1.00

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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ORELAP ID: OR100062

Rogue Valley Council of Governments155 North First St/PO Box 3275
Central Point, OR 97502Project: **Almeda Post Fire Monitoring-2022**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A2J0791 - 12 29 22 1619****SAMPLE PREPARATION INFORMATION****Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry****Prep: Persulfate Digestion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2J0791-03	Water	SM 4500-P E	10/22/22 17:10	10/26/22 12:08	25mL/50mL	25mL/50mL	1.00
A2J0791-04	Water	SM 4500-P E	10/22/22 18:30	10/26/22 12:08	25mL/50mL	25mL/50mL	1.00
A2J0791-05	Water	SM 4500-P E	10/22/22 17:30	10/26/22 12:08	25mL/50mL	25mL/50mL	1.00

Conventional Chemistry Parameters**Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22J0988</u>							
A2J0791-04	Water	SM 4500-H+ B	10/22/22 18:30	10/25/22 18:16	20mL/20mL	20mL/20mL	NA
A2J0791-05	Water	SM 4500-H+ B	10/22/22 17:30	10/25/22 18:16	20mL/20mL	20mL/20mL	NA

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration**Prep: Total Suspended Solids**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22J1101</u>							
A2J0791-01	Water	D3977-97 (07)	10/22/22 17:45	10/29/22 12:11			NA
A2J0791-02	Water	D3977-97 (07)	10/22/22 16:30	10/31/22 09:42			NA
A2J0791-03	Water	D3977-97 (07)	10/22/22 17:10	10/29/22 12:11			NA
<u>Batch: 22J1143</u>							
A2J0791-04	Water	D3977-97 (07)	10/22/22 18:30	10/28/22 14:40			NA
A2J0791-05	Water	D3977-97 (07)	10/22/22 17:30	10/28/22 14:40			NA

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Council of Governments
155 North First St/PO Box 3275
Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**
Project Number: **Almeda Post Fire Monitorin**
Project Manager: **Greg Stabach**

Report ID:
A2J0791 - 12 29 22 1619

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-15** Results for diesel are estimated due to overlap from the reported oil result.
- F-16** Results for oil are estimated due to overlap from the reported diesel result.
- H-01** This sample was analyzed outside the recommended holding time.
- H-06** This sample was received, or the analysis requested, outside the recommended holding time.
- H-12** Sample analysis was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-24** The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-06** Surrogate recovery is outside of established control limits.
- X** See Case Narrative.

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275
Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: **Almeda Post Fire Monitorin**

Project Manager: **Greg Stabach**

Report ID:

A2J0791 - 12 29 22 1619

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested.
The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Council of Governments
155 North First St/PO Box 3275
Central Point, OR 97502

Project: **Alameda Post Fire Monitoring-2022**
Project Number: **Alameda Post Fire Monitorin**
Project Manager: **Greg Stabach**

Report ID:
A2J0791 - 12 29 22 1619

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Rogue Valley Council of Governments

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2022**

Project Number: **Almeda Post Fire Monitorin**

Project Manager: **Greg Stabach**

Report ID:

A2J0791 - 12 29 22 1619

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2022Project Number: Almeda Post Fire MonitorinProject Manager: Greg Stabach

Report ID:

A2J0791 - 12 29 22 1619

APEX LABS COOLER RECEIPT FORM

Client: Rogue Valley Council of Governments Element WO#: A2 J0791Project/Project #: Almeda Post-Fire Monitoring 2021

Delivery Info:

Date/time received: 10/25/21 @ 800 By: MSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 10/25/21 @ 800 By: MSChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.4</u>	<u>4.1</u>	<u>3.6</u>	<u>3.3</u>	<u>2.1</u>		
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>IN</u>						

Cooler out of temp? (Y/N) N Possible reason why:Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 10/25/21 @ 1230 By: MSAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: SEE FORMCOC/container discrepancies form initiated? Yes ☒ No ☒ 10/25Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

Additional information: 2795 1789 9095

Labeled by:

Witness:

Cooler Inspected by:

Form Y-003 R-00

Apex Laboratories

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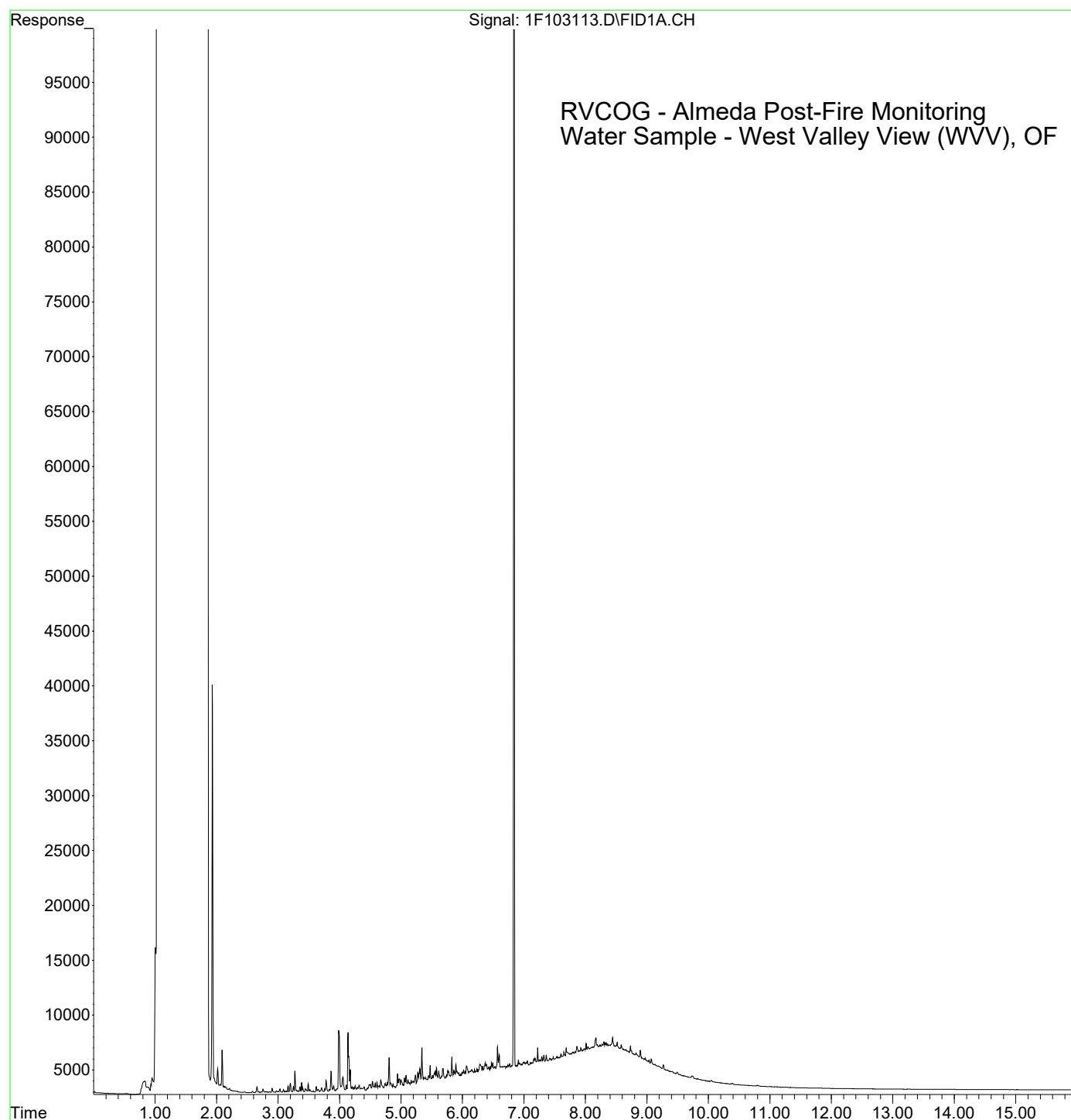
Michele Poquiz

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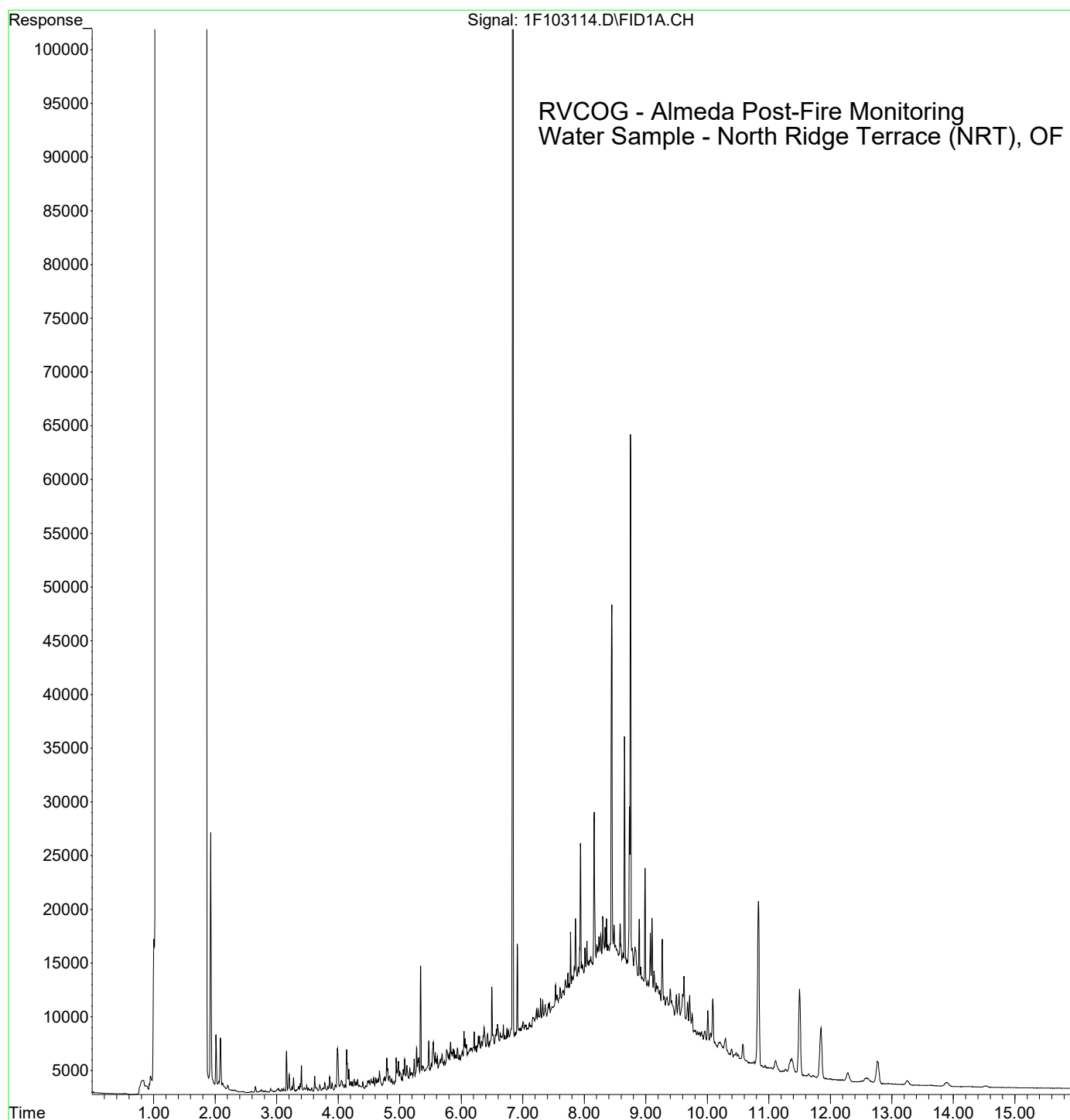
12/29/22 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL Page 62 of 116

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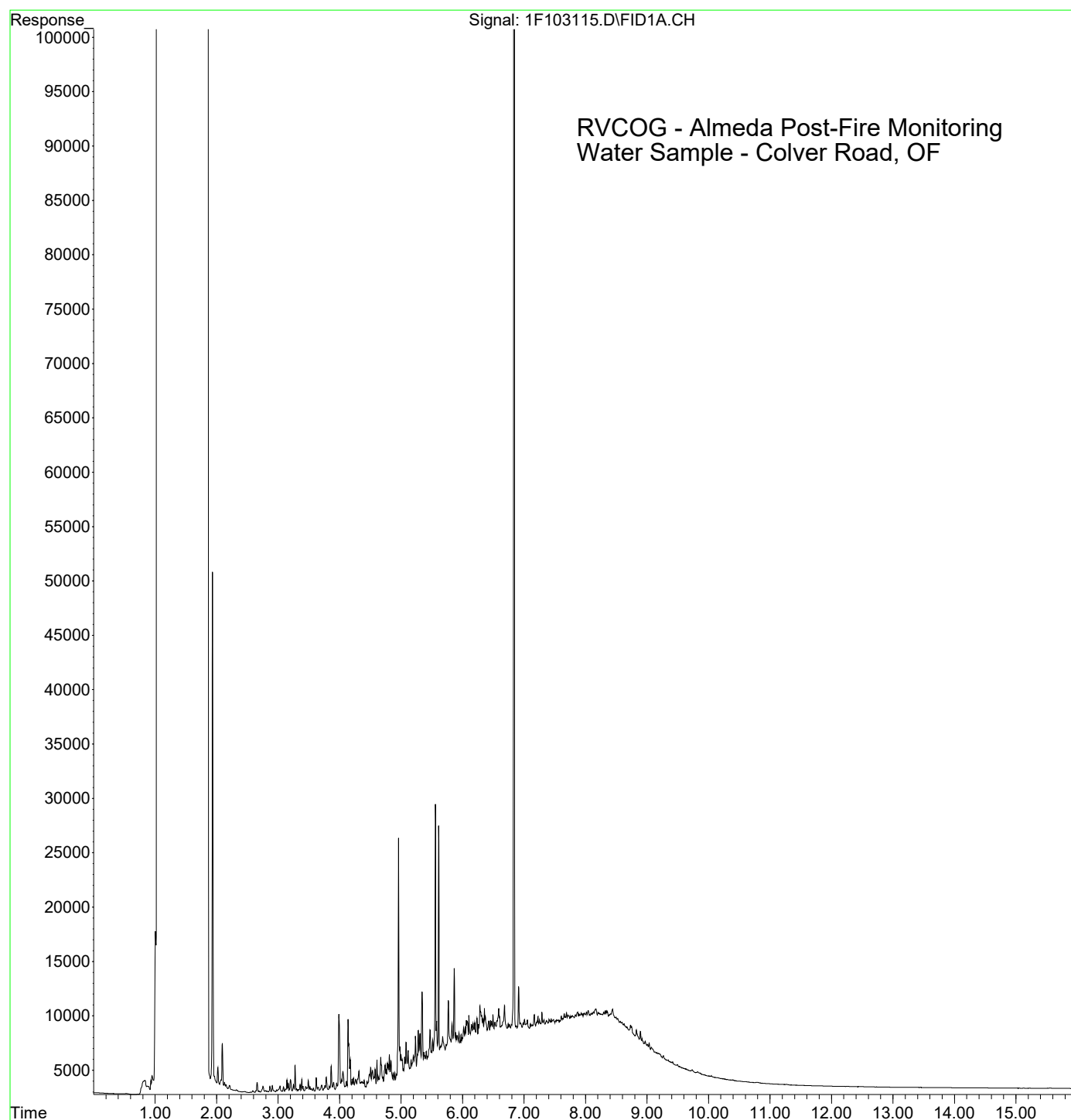
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Operator : BLL
Acquired : 01 Nov 2022 12:19 am using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2J0791-01
Misc Info :
Vial Number: 10



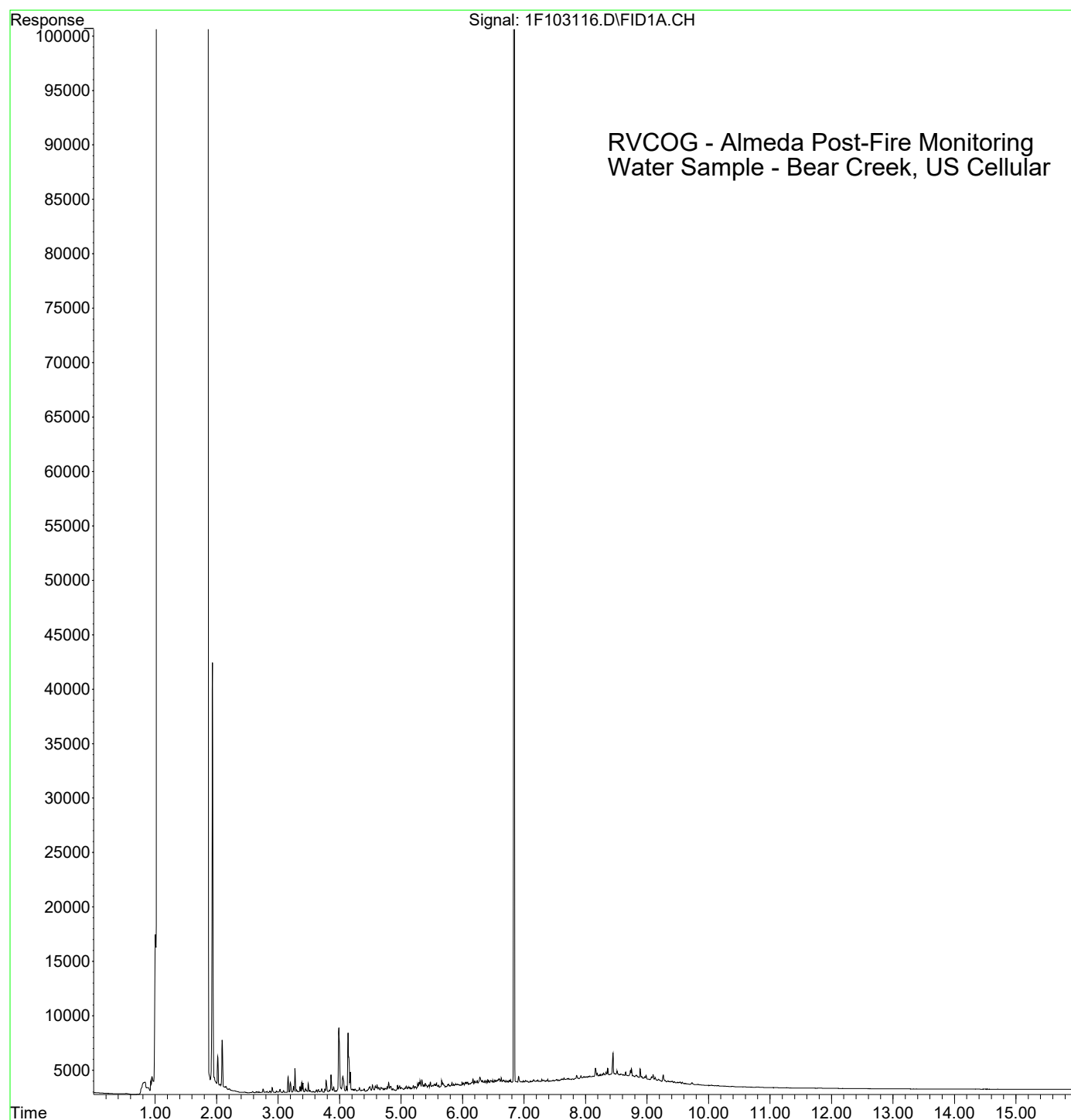
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103114.D
Operator : BLL
Acquired : 01 Nov 2022 12:42 am using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2J0791-02
Misc Info :
Vial Number: 11



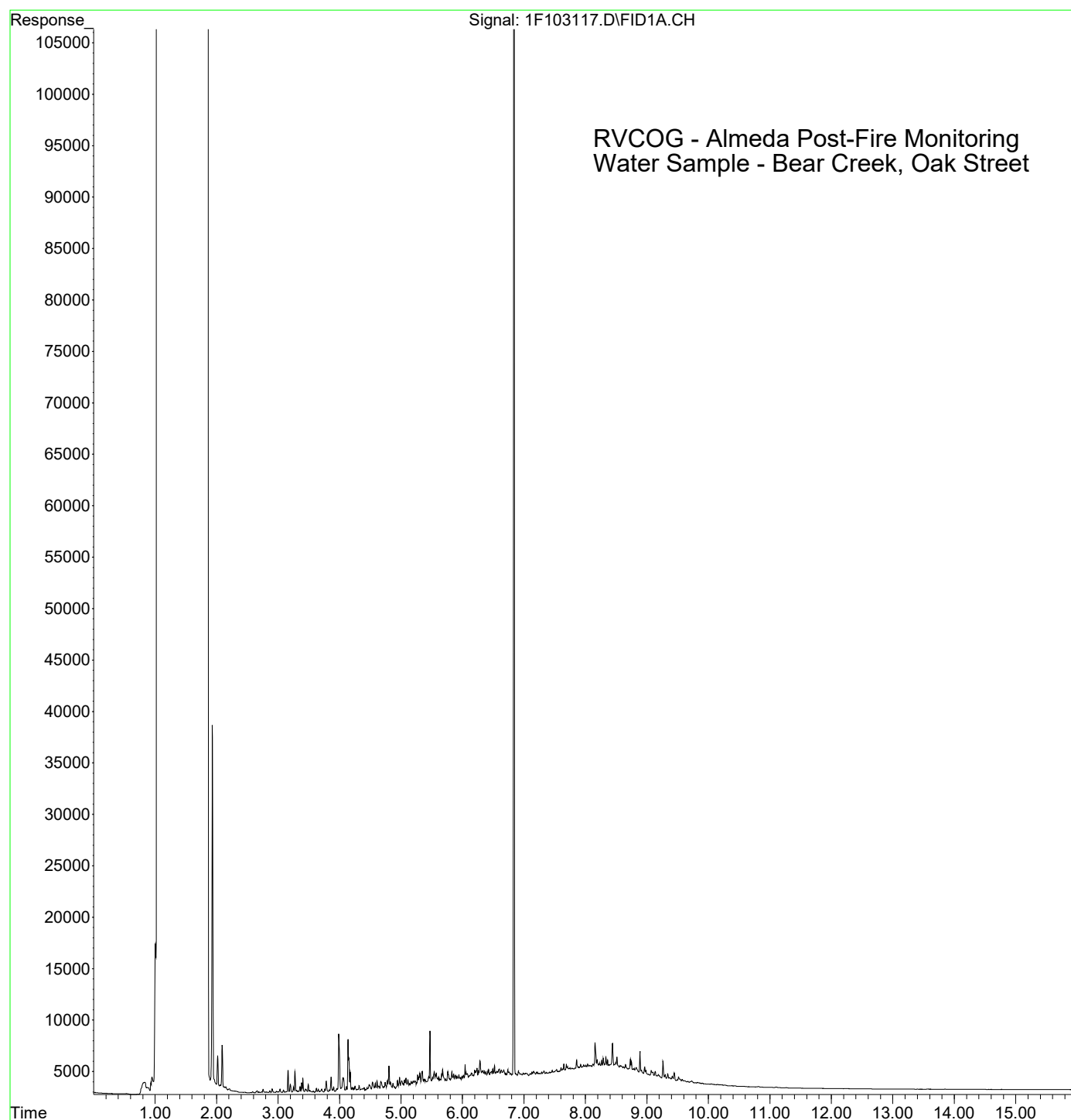
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103115.D
Operator : BLL
Acquired : 01 Nov 2022 1:05 am using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2J0791-03
Misc Info :
Vial Number: 12



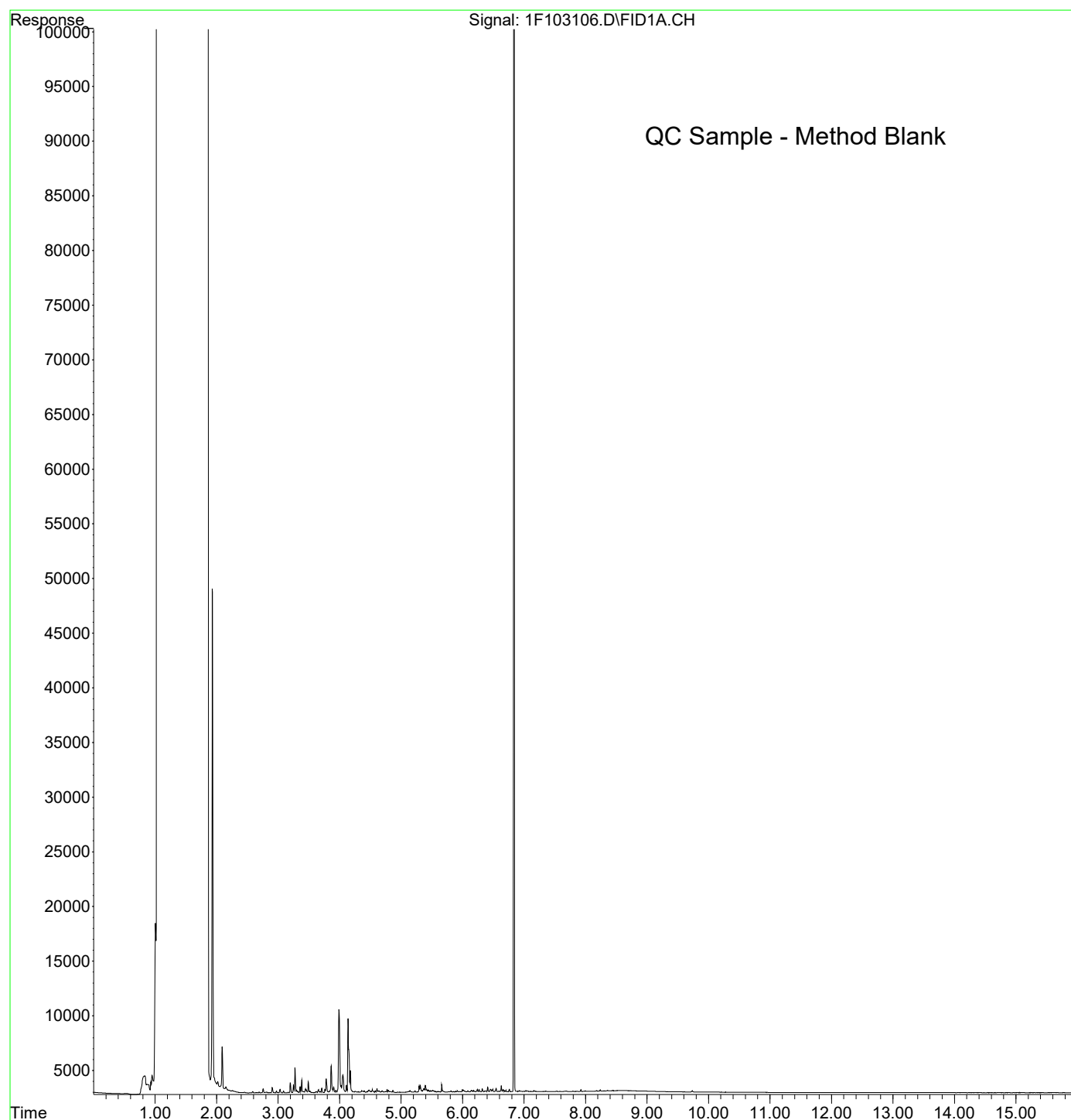
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103116.D
Operator : BLL
Acquired : 01 Nov 2022 1:28 am using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2J0791-04
Misc Info :
Vial Number: 13



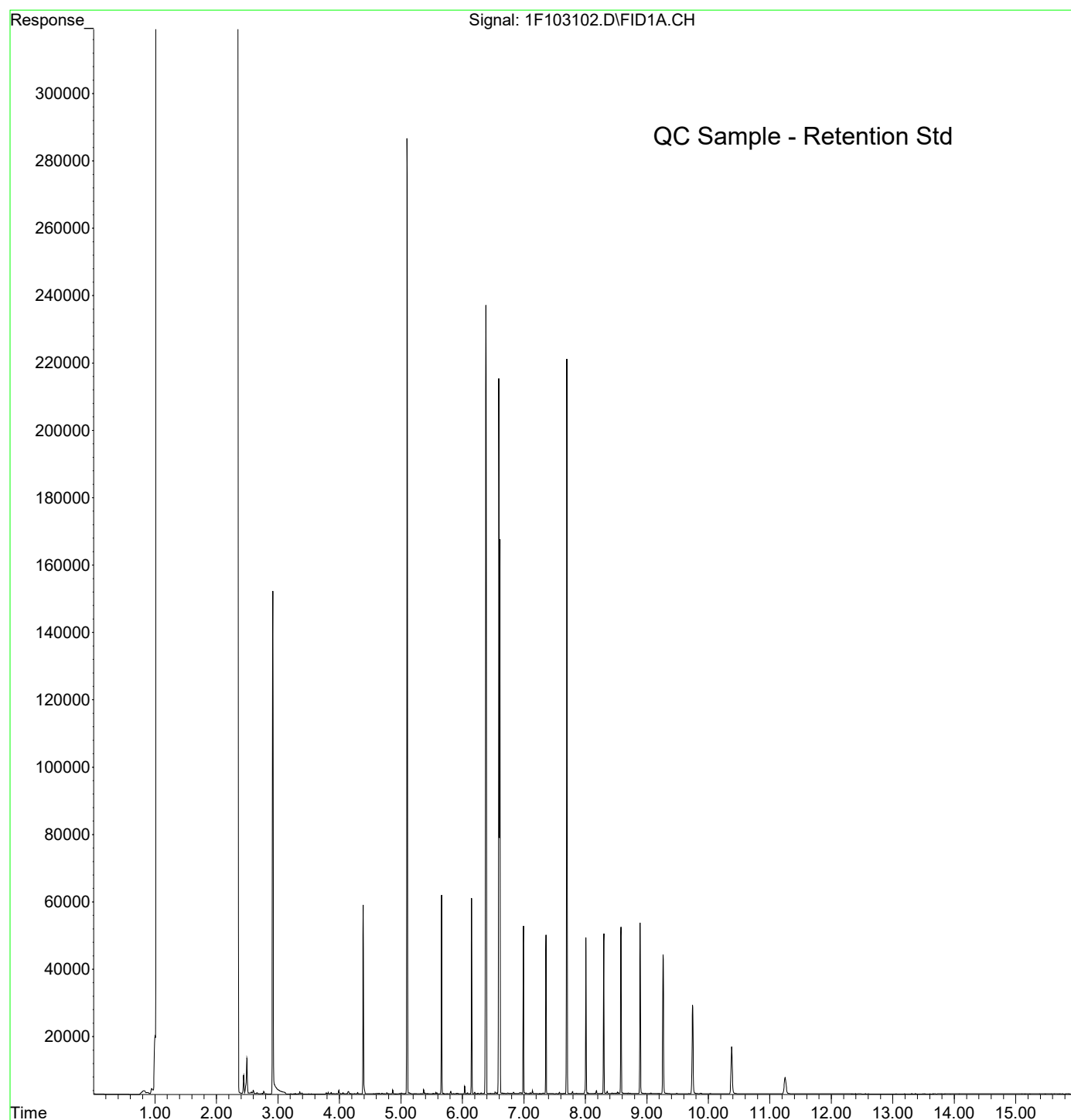
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103117.D
Operator : BLL
Acquired : 01 Nov 2022 1:51 am using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A2J0791-05
Misc Info :
Vial Number: 14



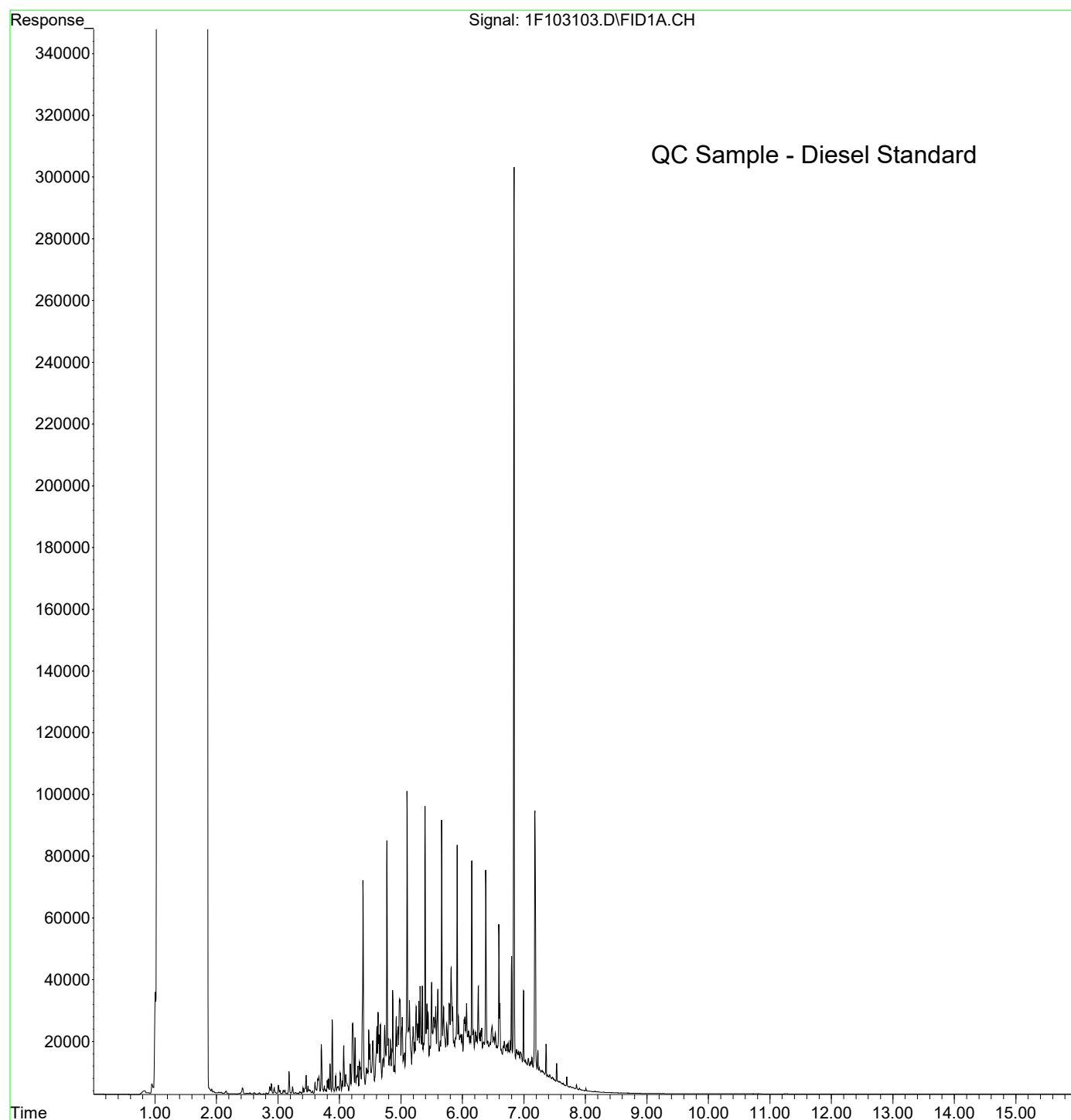
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103106.D
Operator : BLL
Acquired : 31 Oct 2022 9:37 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 22J1215-BLK1
Misc Info :
Vial Number: 3



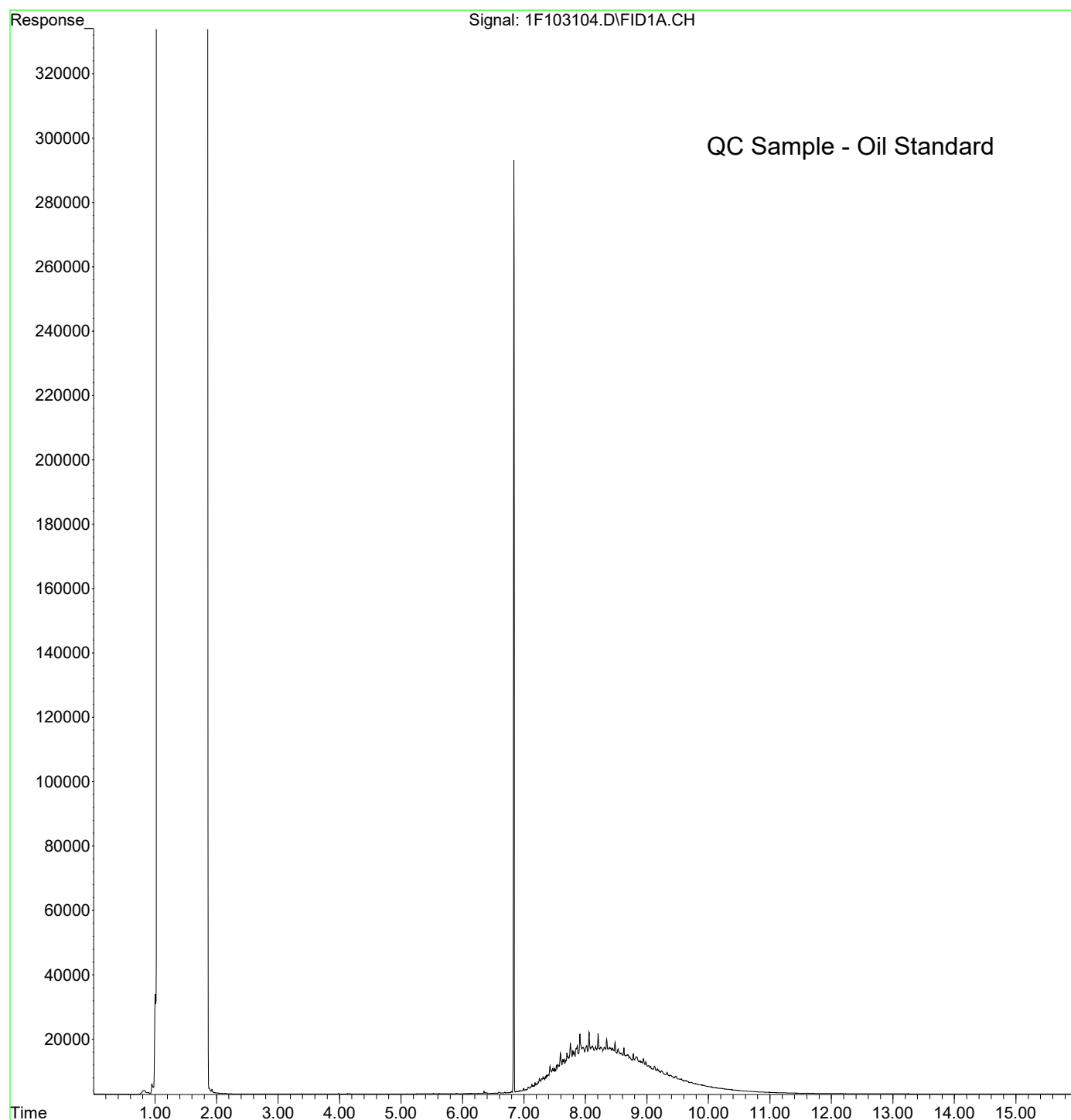
File :C:\msdchem\1\data\2022-10-12\2J31052\1F103102.D
Operator : BLL
Acquired : 31 Oct 2022 2:41 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2J31052-RES1
Misc Info :
Vial Number: 94



File :C:\msdchem\1\data\2022-10-12\2J31052\1F103103.D
Operator : BLL
Acquired : 31 Oct 2022 3:04 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2J31052-CCV1
Misc Info :
Vial Number: 1



File :C:\msdchem\1\data\2022-10-12\2J31052\1F103104.D
Operator : BLL
Acquired : 31 Oct 2022 3:28 pm using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 2J31052-CCV2
Misc Info :
Vial Number: 2



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
West Valley View (WVV), OF (A2J0791-01RE1@4)			
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	000143-22-6	9.572	0.67
Caffeine	000058-08-2	11.524	0.25
Octadecane	000593-45-3	18.627	0.30
Eicosane	000112-95-8	21.291	8.1
North Ridge Terrace (NRT), OF (A2J0791-02RE1@4)			
Phthalic anhydride	000085-44-9	8.796	1.0
Caffeine	000058-08-2	11.535	2.4
Tricosane	000638-67-5	16.883	0.50
Octadecane	000593-45-3	18.632	0.94
Colver Rd, OF (A2J0791-03RE1@4)			
Tricosane	000638-67-5	20.29	0.41
Bear Ck US Cellular (A2J0791-04RE2)			
Nonadecane	000629-92-5	14.842	0.28
Eicosane	000112-95-8	16.532	0.61
Tetracosane	000646-31-1	18.259	0.63
Heptadecane	000629-78-7	19.928	0.47
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-ol	1000210-38-4	20.297	0.34
Bear Ck Oak St (A2J0791-05RE1@4)			
Phthalic anhydride	000085-44-9	8.796	1.4
Octadecane	000593-45-3	16.889	0.65
Eicosane	000112-95-8	18.627	0.50
Cholesterol	000057-88-5	20.66	0.31



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2738195
Date of Report: 9-Dec-22
Date of Sample Receipt: 26-Oct-22

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
Client Contact: Michele Poquiz
Client Project ID: A2J0791

COMMENTS: Brominated Flame Retardants by EPA 1614

BDE-10 was not recovered in the laboratory control sample (LCS). BDE-10 was not detected in the samples. However, BDE-10 may have been present in the samples, but not recovered.

Certified by: _____

A handwritten signature in black ink, appearing to read "Steve Kennedy".

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.

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Sample Analysis Summary Report

Sample Name	WEST VALLEY VIEW (WVV), OF	NORTH RIDGE TERRANCE (NRT), OF	COLVER RD, OF	BEAR CK, US CELLULAR	BEAR CK, OAK ST.
ALS Sample ID	L2738195-1	L2738195-2	L2738195-3	L2738195-4	L2738195-5
Sample Size	1.07	1.08	1.08	1.02	0.98
Sample size units	L	L	L	L	L
Percent Moisture	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Water	Water	Water	Water	Water
Sampling Date	22-Oct-22	22-Oct-22	22-Oct-22	22-Oct-22	22-Oct-22
Extraction Date	14-Nov-22	14-Nov-22	14-Nov-22	14-Nov-22	14-Nov-22
Target Analytes	pg/L	pg/L	pg/L	pg/L	pg/L
BDE 10	<0.39	<0.63	<0.81	<0.42	<0.29
BDE 7	<0.37	<0.60	<0.77	<0.40	<0.28
BDE 8/11	<0.27	<0.44	<0.56	<0.29	<0.20
BDE 12/13	<0.23	<0.84	<0.48	<0.25	<0.17
BDE 15	<0.39	1.94	<0.42	1.77	1.35
BDE 30	<0.36	<0.85	<0.71	<0.72	<0.38
BDE 32	<0.27	<0.62	<0.52	<0.53	<0.28
BDE 17/25	1.11	8.81	<0.65	6.30	16.4
BDE 28/33	5.73	82.1	7.07	38.2	57.3
BDE 35	<1.5	<2.7	<1.0	<0.59	<0.23
BDE 37	<0.22	7.10	0.528	<0.84	0.673
PBEB	0.589	4.83	0.685	0.441	0.684
HBB	11.8	30.0	3.13	6.13	<4.3
BDE 75	0.860	9.43	0.778	4.51	5.52
BDE 51	<1.0	<5.2	<0.52	6.58	15.9
BDE 49	9.41	127	7.06	52.1	103
BDE 71	<1.0	4.52	<0.77	<2.6	7.90
BDE 47	145	1650	160	2540	4620
BDE 79	<0.63	<0.63	<0.49	<0.36	<0.29
BDE 66	7.40	136	7.08	40.0	70.8
BDE 77	<0.63	2.19	<0.42	<0.34	<0.29
BDE 100	36.2	375	36.4	384	678
BDE 119/120	<0.42	13.4	<0.35	<2.7	4.05
BDE 99	162	1460	147	1530	2650
BDE 116	<0.64	<1.2	<0.53	<0.92	<0.61
BDE 83	<0.58	<1.1	<0.47	<0.83	<0.55
BDE 118	1.21	21.4	<0.73	2.23	<4.2
BDE 85	5.81	35.9	3.24	32.2	67.7
BDE 126	<0.27	<0.51	<0.19	<0.36	0.602
BDE 105	<0.46	<0.89	<0.38	<0.67	<0.44
BDE 155	1.13	8.39	1.28	6.19	8.04
BDE 154	15.4	114	12.6	64.2	97.2
BDE 153	18.8	135	12.3	48.6	68.4
BDE 140	<0.93	<8.8	<1.4	<1.5	3.02
BDE 138/166	2.49	<15	<1.9	<2.4	<5.4
BDE 156	<1.9	<3.5	<2.4	<3.1	<1.8
BDE 128	<1.7	<3.1	<2.1	<2.7	<1.6
BDE 184	<1.0	10.2	<0.90	<0.81	<1.4
BDE 183	<19	135	11.4	32.3	80.6
BDE 191	<2.1	<4.4	<1.8	<1.6	<1.3
BDE 181	<2.1	<4.5	<1.9	<1.7	<1.3
BDE 190	<3.1	<12	<2.6	<2.4	3.83
BDE 197	16.6	71.2	<7.6	14.7	28.0
BDE 203	25.8	91.1	<7.3	11.9	27.9
BDE 196	14.8	43.3	5.06	<5.0	11.2
BDE 208	99.1	218	28.7	20.4	16.7
BDE 207	183	362	60.0	<30	42.9
BDE 206	202	408	60.8	68.6	57.8
BDE 209	2100	4380	1090	2280	2090
DBDPE	1260	16100	391	335	<120
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L	pg/L	pg/L
Di BDE	0.390	2.78	<0.42	1.77	1.35
Tri BDE	8.34	101	8.60	45.9	74.4
Tetra BDE	164	1930	175	2650	4820
Penta BDE	205	1910	187	1950	3400
Hexa BDE	37.8	281	27.6	119	182
Hepta BDE	19.0	157	11.4	32.3	85.8
Octa BDE	57.2	206	20.0	31.6	67.1
Nona BDE	484	988	150	119	117
Deca BDE	2100	4380	1090	2280	2090
Total PBDEs	3080	9960	1670	7230	10800
Extraction Standards	% Rec	% Rec	% Rec	% Rec	% Rec
13C12 BDE 15	41	27	13	29	51
13C12 BDE 28	54	41	25	42	64
13C6 HBB	76	77	73	71	73
13C12 BDE 47	62	48	33	52	76
13C12 BDE 77	71	66	55	65	82
13C12 BDE 100	92	85	93	79	90
13C12 BDE 99	79	66	62	63	88
13C12 BDE 126	81	74	91	72	84
13C12 BDE 154	84	70	74	65	77
13C12 BDE 153	77	68	71	69	83
13C12 BDE 183	76	65	57	68	81
13C12 BDE 197	86	70	73	76	79
13C12 BDE 207	70	65	67	72	73
13C12 BDE 209	80	88	82	79	81
13C14 DBDPE	76	114	86	76	76
Cleanup Standard					
13C12 BDE 138 Cleanup	75	53	55	55	84

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Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3772382-1	WG3772382-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	14-Nov-22	14-Nov-22
Target Analytes	pg/L	% Rec
BDE 10	<0.71	0
BDE 7	<0.68	9
BDE 8/11	<0.49	96
BDE 12/13	<0.42	89
BDE 15	<0.37	98
BDE 30	<0.96	53
BDE 32	<0.70	71
BDE 17/25	<0.88	67
BDE 28/33	<0.87	87
BDE 35	<0.59	142
BDE 37	<0.58	130
PBEB	<0.38	89
HBB	1.42	101
BDE 75	<0.82	126
BDE 51	<0.73	60
BDE 49	<1.0	75
BDE 71	<1.1	81
BDE 47	<1.0	105
BDE 79	<0.68	148
BDE 66	<1.1	109
BDE 77	<0.65	103
BDE 100	<0.28	98
BDE 119/120	<0.61	94
BDE 99	1.57	102
BDE 116	<0.92	66
BDE 83	<0.83	60
BDE 118	<0.64	98
BDE 85	<0.56	72
BDE 126	<0.37	101
BDE 105	<0.66	83
BDE 155	<0.73	108
BDE 154	<0.88	102
BDE 153	<1.4	95
BDE 140	<1.3	105
BDE 138/166	<2.0	89
BDE 156	<2.6	91
BDE 128	<2.3	55
BDE 184	<1.1	115
BDE 183	<1.6	98
BDE 191	<2.2	108
BDE 181	<2.2	101
BDE 190	<3.2	100
BDE 197	<1.0	100
BDE 203	<1.4	89
BDE 196	<1.2	84
BDE 208	<1.8	106
BDE 207	<1.9	101
BDE 206	<2.1	98
BDE 209	<12	95
DBDPE	<22	103
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	<0.37	
Tri BDE	<0.58	
Tetra BDE	1.00	
Penta BDE	1.57	
Hexa BDE	<0.73	
Hepta BDE	<1.1	
Octa BDE	<1	
Nona BDE	<1.8	
Deca BDE	12.0	
Total PBDEs	14.6	
Extraction Standards	% Rec	% Rec
13C12 BDE 15	36	28
13C12 BDE 28	46	45
13C6 HBB	74	74
13C12 BDE 47	53	53
13C12 BDE 77	68	70
13C12 BDE 100	76	74
13C12 BDE 99	64	64
13C12 BDE 126	70	75
13C12 BDE 154	70	66
13C12 BDE 153	73	71
13C12 BDE 183	75	74
13C12 BDE 197	73	74
13C12 BDE 207	79	81
13C12 BDE 209	70	69
13C14 DBDPE	55	54
Cleanup Standard		
13C12 BDE 138 Cleanup	61	60

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Sample Analysis Report

Sample Name WEST VALLEY VIEW (WVV), OF
ALS Sample ID L2738195-1
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 22-Oct-22
Extraction Date 14-Nov-22
Sample Size 1.07 L
Percent Moisture n/a
Split Ratio 1

Approved:
E. Sabljic
 --e-signature--
 06-Dec-2022

Run Information

Run 1

Filename 9-221202B18
Run Date 03-Dec-22 02:01
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-9 DB5US2461945H

Target Analytes

	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.39	0.39	U		23
BDE 7	NotFnd	<0.37	0.37	U		23
BDE 8/11	NotFnd	<0.27	0.27	U		47
BDE 12/13	NotFnd	<0.23	0.23	U		47
BDE 15	7.22	<0.39	0.20	M,J,R	0.39	23
BDE 30	NotFnd	<0.36	0.36	U		23
BDE 32	NotFnd	<0.27	0.27	U		23
BDE 17/25	8.53	1.11	0.33	M,J		47
BDE 28/33	8.76	5.73	0.33	J		47
BDE 35	8.88	<1.5	0.22	J,R	1.5	23
BDE 37	NotFnd	<0.22	0.22	U		23
PBEB	9.09	0.589	0.17	J		23
HBB	10.08	11.8	0.33	J,B		23
BDE 75	10.14	0.860	0.76	M,J		23
BDE 51	10.20	<1.0	0.68	J,R	1.0	23
BDE 49	10.30	9.41	0.97	M,J		23
BDE 71	NotFnd	<1.0	1.0	U		23
BDE 47	10.64	145	0.77			23
BDE 79	NotFnd	<0.63	0.63	U		23
BDE 66	10.92	7.40	1.0	J		23
BDE 77	NotFnd	<0.63	0.63	U		23
BDE 100	12.28	36.2	0.19			35
BDE 119/120	NotFnd	<0.42	0.42	U		35
BDE 99	12.77	162	0.33			35
BDE 116	NotFnd	<0.64	0.64	U		35
BDE 83	NotFnd	<0.58	0.58	U		35
BDE 118	13.18	1.21	0.45	M,J		35
BDE 85	13.67	5.81	0.39	J		35
BDE 126	NotFnd	<0.27	0.27	U		35
BDE 105	NotFnd	<0.46	0.46	U		35
BDE 155	13.84	1.13	0.47	J		47
BDE 154	14.23	15.4	0.51	J		47
BDE 153	14.97	18.8	1.2	J		47
BDE 140	NotFnd	<0.93	0.93	U		47
BDE 138/166	15.94	2.49	1.5	J		93
BDE 156	NotFnd	<1.9	1.9	U		47
BDE 128	NotFnd	<1.7	1.7	U		47
BDE 184	NotFnd	<1.0	1.0	U		58
BDE 183	17.15	<19	1.5	J,R	19	58
BDE 191	NotFnd	<2.1	2.1	U		58
BDE 181	NotFnd	<2.1	2.1	U		58
BDE 190	NotFnd	<3.1	3.1	U		58
BDE 197	19.68	16.6	0.78	J		58
BDE 203	19.97	25.8	1.0	J		58
BDE 196	20.11	14.8	0.88	J		58
BDE 208	21.52	99.1	2.2	J		120
BDE 207	21.66	183	2.3			120
BDE 206	21.98	202	2.6			120
BDE 209	23.87	2100	9.3			120
DBDPE	25.45	1260	11			230

Extraction Standards

pg	% Rec	Limits
13C12 BDE 15	7.21	41 25-150
13C12 BDE 28	8.75	54 25-150
13C6 HBB	10.07	76 25-150
13C12 BDE 47	10.62	62 25-150
13C12 BDE 77	11.38	71 25-150
13C12 BDE 100	12.27	92 25-150
13C12 BDE 99	12.77	79 25-150
13C12 BDE 126	13.83	81 25-150
13C12 BDE 154	14.22	84 25-150
13C12 BDE 153	14.96	77 25-150
13C12 BDE 183	17.13	76 25-150
13C12 BDE 197	19.68	86 25-150
13C12 BDE 207	21.65	70 25-150
13C12 BDE 209	23.87	80 20-200
13C14 DBDPE	25.44	76 5-200

Cleanup Standard

pg	
13C12 BDE 138 Cleanup	2000
	15.93
	75 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name NORTH RIDGE TERRANCE (NRT), OF
ALS Sample ID L2738195-2
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 22-Oct-22
Extraction Date 14-Nov-22
Sample Size 1.08 L
Percent Moisture n/a
Split Ratio 1

Approved:
E. Sabljic
 --e-signature--
 06-Dec-2022

Run Information

Run 1

Filename 9-221202B19
Run Date 03-Dec-22 02:38
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-9 DB5US2461945H

Target Analytes

	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.63	0.63	U		23
BDE 7	NotFnd	<0.60	0.60	U		23
BDE 8/11	NotFnd	<0.44	0.44	U		46
BDE 12/13	7.09	<0.84	0.38	M,J,R	0.84	46
BDE 15	7.23	1.94	0.33	J		23
BDE 30	NotFnd	<0.85	0.85	U		23
BDE 32	NotFnd	<0.62	0.62	U		23
BDE 17/25	8.55	8.81	0.78	M,J		46
BDE 28/33	8.77	82.1	0.77			46
BDE 35	8.90	<2.7	0.53	J,R	2.7	23
BDE 37	9.10	7.10	0.52	J		23
PBEB	9.12	4.83	0.20	J		23
HBB	10.09	30.0	0.49			23
BDE 75	10.15	9.43	0.76	J		23
BDE 51	10.21	<5.2	0.67	J,R	5.2	23
BDE 49	10.31	127	0.96			23
BDE 71	10.38	4.52	0.99	J		23
BDE 47	10.65	1650	0.83	M		23
BDE 79	NotFnd	<0.63	0.63	U		23
BDE 66	10.94	136	1.0			23
BDE 77	11.41	2.19	0.59	J		23
BDE 100	12.29	375	0.35			35
BDE 119/120	12.45	13.4	0.82	J		35
BDE 99	12.79	1460	0.69			35
BDE 116	NotFnd	<1.2	1.2	U		35
BDE 83	NotFnd	<1.1	1.1	U		35
BDE 118	13.20	21.4	0.86	M,J		35
BDE 85	13.68	35.9	0.75			35
BDE 126	NotFnd	<0.51	0.51	U		35
BDE 105	NotFnd	<0.89	0.89	U		35
BDE 155	13.86	8.39	0.57	J		46
BDE 154	14.24	114	0.66			46
BDE 153	14.99	135	2.0			46
BDE 140	15.45	<8.8	1.7	J,R	8.8	46
BDE 138/166	15.96	<15	2.8	J,R	15	93
BDE 156	NotFnd	<3.5	3.5	U		46
BDE 128	NotFnd	<3.1	3.1	U		46
BDE 184	16.78	10.2	2.2	J		58
BDE 183	17.17	135	3.2			58
BDE 191	NotFnd	<4.4	4.4	U		58
BDE 181	NotFnd	<4.5	4.5	U		58
BDE 190	18.49	<12	6.5	J,R	12	58
BDE 197	19.72	71.2	1.7			58
BDE 203	20.00	91.1	2.3			58
BDE 196	20.14	43.3	1.9	J		58
BDE 208	21.54	218	4.6			120
BDE 207	21.67	362	5.0			120
BDE 206	21.99	408	5.5			120
BDE 209	23.90	4380	12			120
DBDPE	25.52	16100	13			230

Extraction Standards

pg **% Rec** **Limits**

13C12 BDE 15	1000	7.22	27	25-150
13C12 BDE 28	1000	8.76	41	25-150
13C6 HBB	1000	10.08	77	25-150
13C12 BDE 47	1000	10.64	48	25-150
13C12 BDE 77	1000	11.40	66	25-150
13C12 BDE 100	1000	12.28	85	25-150
13C12 BDE 99	1000	12.79	66	25-150
13C12 BDE 126	1000	13.86	74	25-150
13C12 BDE 154	1000	14.23	70	25-150
13C12 BDE 153	1000	14.98	68	25-150
13C12 BDE 183	1000	17.17	65	25-150
13C12 BDE 197	2000	19.71	70	25-150
13C12 BDE 207	5000	21.67	65	25-150
13C12 BDE 209	5000	23.90	88	20-200
13C14 DBDPE	10000	25.51	114	5-200

Cleanup Standard

pg

13C12 BDE 138 Cleanup	2000	15.94	53	30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.

 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.

 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name COLVER RD, OF
ALS Sample ID L2738195-3
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 22-Oct-22
Extraction Date 14-Nov-22
Sample Size 1.08 L
Percent Moisture n/a
Split Ratio 1

Approved:
E. Sabljic
 --e-signature--
 06-Dec-2022

Run Information

Run 1

Filename 9-221202B20
Run Date 03-Dec-22 03:14
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-9 DB5US2461945H

Target Analytes

	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.81	0.81	U		23
BDE 7	NotFnd	<0.77	0.77	U		23
BDE 8/11	NotFnd	<0.56	0.56	U		46
BDE 12/13	NotFnd	<0.48	0.48	U		46
BDE 15	NotFnd	<0.42	0.42	U		23
BDE 30	NotFnd	<0.71	0.71	U		23
BDE 32	NotFnd	<0.52	0.52	U		23
BDE 17/25	NotFnd	<0.65	0.65	U		46
BDE 28/33	8.78	7.07	0.64	J		46
BDE 35	8.90	<1.0	0.44	J,R	1.0	23
BDE 37	9.12	0.528	0.43	M,J		23
PBEB	9.12	0.685	0.13	J		23
HBB	10.09	3.13	0.34	M,J,B		23
BDE 75	10.17	0.778	0.58	J		23
BDE 51	NotFnd	<0.52	0.52	U		23
BDE 49	10.33	7.06	0.74	M,J		23
BDE 71	NotFnd	<0.77	0.77	U		23
BDE 47	10.66	160	0.74	M		23
BDE 79	NotFnd	<0.49	0.49	U		23
BDE 66	10.94	7.08	0.80	J		23
BDE 77	NotFnd	<0.42	0.42	U		23
BDE 100	12.29	36.4	0.16			35
BDE 119/120	NotFnd	<0.35	0.35	U		35
BDE 99	12.80	147	0.35			35
BDE 116	NotFnd	<0.53	0.53	U		35
BDE 83	NotFnd	<0.47	0.47	U		35
BDE 118	13.21	<0.73	0.37	M,J,R	0.73	35
BDE 85	13.69	3.24	0.32	J		35
BDE 126	NotFnd	<0.19	0.19	U		35
BDE 105	NotFnd	<0.38	0.38	U		35
BDE 155	13.86	1.28	0.44	J		46
BDE 154	14.25	12.6	0.49	J		46
BDE 153	15.01	12.3	1.4	J		46
BDE 140	15.45	<1.4	1.2	J,R	1.4	46
BDE 138/166	NotFnd	<1.9	1.9	U		93
BDE 156	NotFnd	<2.4	2.4	U		46
BDE 128	NotFnd	<2.1	2.1	U		46
BDE 184	NotFnd	<0.90	0.90	U		58
BDE 183	17.18	11.4	1.3	J		58
BDE 191	NotFnd	<1.8	1.8	U		58
BDE 181	NotFnd	<1.9	1.9	U		58
BDE 190	NotFnd	<2.6	2.6	U		58
BDE 197	19.71	<7.6	0.54	J,R	7.6	58
BDE 203	19.99	<7.3	0.72	J,R	7.3	58
BDE 196	20.12	5.06	0.61	J		58
BDE 208	21.53	28.7	1.4	J		120
BDE 207	21.67	60.0	1.5	J		120
BDE 206	21.99	60.8	1.7	J		120
BDE 209	23.87	1090	6.0			120
DBDPE	25.48	391	7.3			230

Extraction Standards

pg	% Rec	Limits
13C12 BDE 15	1000	7.23 13 25-150
13C12 BDE 28	1000	8.77 25 25-150
13C6 HBB	1000	10.09 73 25-150
13C12 BDE 47	1000	10.65 33 25-150
13C12 BDE 77	1000	11.41 55 25-150
13C12 BDE 100	1000	12.29 93 25-150
13C12 BDE 99	1000	12.79 62 25-150
13C12 BDE 126	1000	13.86 91 25-150
13C12 BDE 154	1000	14.24 74 25-150
13C12 BDE 153	1000	14.99 71 25-150
13C12 BDE 183	1000	17.18 57 25-150
13C12 BDE 197	2000	19.71 73 25-150
13C12 BDE 207	5000	21.66 67 25-150
13C12 BDE 209	5000	23.86 82 20-200
13C14 DBDPE	10000	25.47 86 5-200

Cleanup Standard

pg	
13C12 BDE 138 Cleanup	2000 15.95 55 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.

 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.

 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name BEAR CK, US CELLULAR
ALS Sample ID L2738195-4
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 22-Oct-22
Extraction Date 14-Nov-22
Sample Size 1.02 L
Percent Moisture n/a
Split Ratio 1

Approved:
E. Sabljic
 --e-signature--
 06-Dec-2022

Run Information

Run 1

Filename 9-221202B21
Run Date 03-Dec-22 03:51
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-9 DB5US2461945H

Target Analytes

	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.42	0.42	U		25
BDE 7	NotFnd	<0.40	0.40	U		25
BDE 8/11	NotFnd	<0.29	0.29	U		49
BDE 12/13	NotFnd	<0.25	0.25	U		49
BDE 15	7.24	1.77	0.21	M,J		25
BDE 30	NotFnd	<0.72	0.72	U		25
BDE 32	NotFnd	<0.53	0.53	U		25
BDE 17/25	8.54	6.30	0.66	M,J		49
BDE 28/33	8.77	38.2	0.65	J		49
BDE 35	8.90	<0.59	0.45	J,R	0.59	25
BDE 37	9.10	<0.84	0.44	J,R	0.84	25
PBEB	9.12	0.441	0.18	J		25
HBB	10.09	6.13	0.50	J,B		25
BDE 75	10.15	4.51	0.43	J		25
BDE 51	10.23	6.58	0.38	J		25
BDE 49	10.31	52.1	0.55	M		25
BDE 71	10.39	<2.6	0.57	M,J,R	2.6	25
BDE 47	10.65	2540	0.46	M		25
BDE 79	NotFnd	<0.36	0.36	U		25
BDE 66	10.94	40.0	0.59			25
BDE 77	NotFnd	<0.34	0.34	U		25
BDE 100	12.29	384	0.29			37
BDE 119/120	12.45	<2.7	0.61	J,R	2.7	37
BDE 99	12.80	1530	0.50			37
BDE 116	NotFnd	<0.92	0.92	U		37
BDE 83	NotFnd	<0.83	0.83	U		37
BDE 118	13.21	2.23	0.64	J		37
BDE 85	13.71	32.2	0.56	J		37
BDE 126	NotFnd	<0.36	0.36	U		37
BDE 105	NotFnd	<0.67	0.67	U		37
BDE 155	13.87	6.19	0.53	J		49
BDE 154	14.25	64.2	0.63			49
BDE 153	15.01	48.6	1.7	J		49
BDE 140	NotFnd	<1.5	1.5	U		49
BDE 138/166	NotFnd	<2.4	2.4	U		98
BDE 156	NotFnd	<3.1	3.1	U		49
BDE 128	NotFnd	<2.7	2.7	U		49
BDE 184	NotFnd	<0.81	0.81	U		61
BDE 183	17.16	32.3	1.2	J		61
BDE 191	NotFnd	<1.6	1.6	U		61
BDE 181	NotFnd	<1.7	1.7	U		61
BDE 190	NotFnd	<2.4	2.4	U		61
BDE 197	19.67	14.7	0.68	J		61
BDE 203	19.95	11.9	0.91	J		61
BDE 196	20.10	<5.0	0.77	J,R	5.0	61
BDE 208	21.50	20.4	1.7	J		120
BDE 207	21.64	<30	1.8	J,R	30	120
BDE 206	21.94	68.6	2.0	J		120
BDE 209	23.83	2280	5.3			120
DBDPE	25.40	335	8.2			250

Extraction Standards

pg **% Rec** **Limits**

13C12 BDE 15	1000	7.23	29	25-150
13C12 BDE 28	1000	8.77	42	25-150
13C6 HBB	1000	10.09	71	25-150
13C12 BDE 47	1000	10.65	52	25-150
13C12 BDE 77	1000	11.41	65	25-150
13C12 BDE 100	1000	12.29	79	25-150
13C12 BDE 99	1000	12.80	63	25-150
13C12 BDE 126	1000	13.87	72	25-150
13C12 BDE 154	1000	14.24	65	25-150
13C12 BDE 153	1000	14.99	69	25-150
13C12 BDE 183	1000	17.16	68	25-150
13C12 BDE 197	2000	19.67	76	25-150
13C12 BDE 207	5000	21.63	72	25-150
13C12 BDE 209	5000	23.83	79	20-200
13C14 DBDPE	10000	25.39	76	5-200

Cleanup Standard

pg

13C12 BDE 138 Cleanup	2000	15.95	55	30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.

 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.

 EMPC Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	BEAR CK, OAK ST.	Sampling Date	22-Oct-22	Approved: E. Sabljic --e-signature-- 06-Dec-2022
ALS Sample ID	L2738195-5	Extraction Date	14-Nov-22	
Analysis Method	EPA 1614	Sample Size	0.98 L	
Analysis Type	Sample	Percent Moisture	n/a	
Sample Matrix	Water	Split Ratio	1	

Run Information	Run 1
Filename	9-221202B22
Run Date	03-Dec-22 04:27
Final Volume	25 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-9 DB5US2461945H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.29	0.29	U		26
BDE 7	NotFnd	<0.28	0.28	U		26
BDE 8/11	NotFnd	<0.20	0.20	U		51
BDE 12/13	NotFnd	<0.17	0.17	U		51
BDE 15	7.23	1.35	0.15	M,J		26
BDE 30	NotFnd	<0.38	0.38	U		26
BDE 32	NotFnd	<0.28	0.28	U		26
BDE 17/25	8.54	16.4	0.35	M,J		51
BDE 28/33	8.77	57.3	0.34			51
BDE 35	NotFnd	<0.23	0.23	U		26
BDE 37	9.10	0.673	0.23	M,J		26
PBEB	9.12	0.684	0.17	J		26
HBB	10.09	<4.3	0.60	M,J,R	4.3	26
BDE 75	10.15	5.52	0.34	J		26
BDE 51	10.21	15.9	0.31	J		26
BDE 49	10.31	103	0.44			26
BDE 71	10.38	7.90	0.45	J		26
BDE 47	10.65	4620	0.34	M		26
BDE 79	NotFnd	<0.29	0.29	U		26
BDE 66	10.94	70.8	0.47			26
BDE 77	NotFnd	<0.29	0.29	U		26
BDE 100	12.29	678	0.19	M		38
BDE 119/120	12.45	4.05	0.40	M,J		38
BDE 99	12.80	2650	0.29	M		38
BDE 116	NotFnd	<0.61	0.61	U		38
BDE 83	NotFnd	<0.55	0.55	U		38
BDE 118	13.21	<4.2	0.42	J,R	4.2	38
BDE 85	13.71	67.7	0.37			38
BDE 126	13.88	0.602	0.24	J		38
BDE 105	NotFnd	<0.44	0.44	U		38
BDE 155	13.87	8.04	0.49	J		51
BDE 154	14.25	97.2	0.57			51
BDE 153	15.01	68.4	0.98			51
BDE 140	15.46	3.02	0.87	J		51
BDE 138/166	15.96	<5.4	1.4	J,R	5.4	100
BDE 156	NotFnd	<1.8	1.8	U		51
BDE 128	NotFnd	<1.6	1.6	U		51
BDE 184	16.77	<1.4	0.65	J,R	1.4	64
BDE 183	17.16	80.6	0.94			64
BDE 191	NotFnd	<1.3	1.3	U		64
BDE 181	NotFnd	<1.3	1.3	U		64
BDE 190	18.48	3.83	1.9	J		64
BDE 197	19.67	28.0	0.71	J		64
BDE 203	19.95	27.9	0.95	J		64
BDE 196	20.09	11.2	0.80	J		64
BDE 208	21.50	16.7	2.2	J		130
BDE 207	21.63	42.9	2.4	J		130
BDE 206	21.94	57.8	2.6	J		130
BDE 209	23.82	2090	7.4			130
DBDPE	25.38	<120	7.9	J,R	120	260

Extraction Standards	pg	% Rec	Limits
13C12 BDE 15	1000	7.22	51 25-150
13C12 BDE 28	1000	8.76	64 25-150
13C6 HBB	1000	10.08	73 25-150
13C12 BDE 47	1000	10.64	76 25-150
13C12 BDE 77	1000	11.40	82 25-150
13C12 BDE 100	1000	12.28	90 25-150
13C12 BDE 99	1000	12.79	88 25-150
13C12 BDE 126	1000	13.87	84 25-150
13C12 BDE 154	1000	14.24	77 25-150
13C12 BDE 153	1000	14.99	83 25-150
13C12 BDE 183	1000	17.15	81 25-150
13C12 BDE 197	2000	19.66	79 25-150
13C12 BDE 207	5000	21.63	73 25-150
13C12 BDE 209	5000	23.81	81 20-200
13C14 DBDPE	10000	25.36	76 5-200

Cleanup Standard	pg		
13C12 BDE 138 Cleanup	2000	15.95	84 30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	Method Blank	Sampling Date	n/a	Approved: E. Sabljic --e-signature-- 06-Dec-2022
ALS Sample ID	WG3772382-1	Extraction Date	14-Nov-22	
Analysis Method	EPA 1614	Sample Size	1.00 L	
Analysis Type	Blank	Percent Moisture	n/a	
Sample Matrix	QC	Split Ratio	1	

Run Information	Run 1
Filename	9-221202B12
Run Date	02-Dec-22 22:20
Final Volume	25 uL
Dilution Factor	1
Analysis Units	pg/L
Instrument - Column	HRMS-9 DB5US2461945H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.71	0.71	U		25
BDE 7	NotFnd	<0.68	0.68	U		25
BDE 8/11	NotFnd	<0.49	0.49	U		50
BDE 12/13	NotFnd	<0.42	0.42	U		50
BDE 15	NotFnd	<0.37	0.37	U		25
BDE 30	NotFnd	<0.96	0.96	U		25
BDE 32	NotFnd	<0.70	0.70	U		25
BDE 17/25	NotFnd	<0.88	0.88	U		50
BDE 28/33	NotFnd	<0.87	0.87	U		50
BDE 35	NotFnd	<0.59	0.59	U		25
BDE 37	NotFnd	<0.58	0.58	U		25
PBEB	NotFnd	<0.38	0.38	U		25
HBB	10.09	1.42	0.80	M,J		25
BDE 75	NotFnd	<0.82	0.82	U		25
BDE 51	NotFnd	<0.73	0.73	U		25
BDE 49	NotFnd	<1.0	1.0	U		25
BDE 71	NotFnd	<1.1	1.1	U		25
BDE 47	10.65	<1.0	0.87	M,J,R	1.0	25
BDE 79	NotFnd	<0.68	0.68	U		25
BDE 66	NotFnd	<1.1	1.1	U		25
BDE 77	NotFnd	<0.65	0.65	U		25
BDE 100	NotFnd	<0.28	0.28	U		38
BDE 119/120	NotFnd	<0.61	0.61	U		38
BDE 99	12.79	1.57	0.48	M,J		38
BDE 116	NotFnd	<0.92	0.92	U		38
BDE 83	NotFnd	<0.83	0.83	U		38
BDE 118	NotFnd	<0.64	0.64	U		38
BDE 85	NotFnd	<0.56	0.56	U		38
BDE 126	NotFnd	<0.37	0.37	U		38
BDE 105	NotFnd	<0.66	0.66	U		38
BDE 155	NotFnd	<0.73	0.73	U		50
BDE 154	NotFnd	<0.88	0.88	U		50
BDE 153	NotFnd	<1.4	1.4	U		50
BDE 140	NotFnd	<1.3	1.3	U		50
BDE 138/166	NotFnd	<2.0	2.0	U		100
BDE 156	NotFnd	<2.6	2.6	U		50
BDE 128	NotFnd	<2.3	2.3	U		50
BDE 184	NotFnd	<1.1	1.1	U		63
BDE 183	NotFnd	<1.6	1.6	U		63
BDE 191	NotFnd	<2.2	2.2	U		63
BDE 181	NotFnd	<2.2	2.2	U		63
BDE 190	NotFnd	<3.2	3.2	U		63
BDE 197	NotFnd	<1.0	1.0	U		63
BDE 203	NotFnd	<1.4	1.4	U		63
BDE 196	NotFnd	<1.2	1.2	U		63
BDE 208	NotFnd	<1.8	1.8	U		130
BDE 207	NotFnd	<1.9	1.9	U		130
BDE 206	NotFnd	<2.1	2.1	U		130
BDE 209	23.80	<12	7.5	J,R	12	130
DBDPE	NotFnd	<22	22	U		250

Extraction Standards	pg	% Rec	Limits
13C12 BDE 15	1000	7.22	36 25-150
13C12 BDE 28	1000	8.76	46 25-150
13C6 HBB	1000	10.08	74 25-150
13C12 BDE 47	1000	10.64	53 25-150
13C12 BDE 77	1000	11.40	68 25-150
13C12 BDE 100	1000	12.28	76 25-150
13C12 BDE 99	1000	12.79	64 25-150
13C12 BDE 126	1000	13.86	70 25-150
13C12 BDE 154	1000	14.23	70 25-150
13C12 BDE 153	1000	14.97	73 25-150
13C12 BDE 183	1000	17.12	75 25-150
13C12 BDE 197	2000	19.64	73 25-150
13C12 BDE 207	5000	21.63	79 25-150
13C12 BDE 209	5000	23.79	70 20-200
13C14 DBDPE	10000	25.33	55 5-200

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	15.93	61 30-135

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
EMPC	Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	Laboratory Control Sample	Sampling Date	n/a	Approved: E. Sabljic --e-signature-- 06-Dec-2022
ALS Sample ID	WG3772382-2	Extraction Date	14-Nov-22	
Analysis Method	EPA 1614	Sample Size	1 n/a	
Analysis Type	LCS	Percent Moisture	n/a	
Sample Matrix	QC	Split Ratio	1	

Run Information	Run 1
Filename	9-221202B10
Run Date	02-Dec-22 21:07
Final Volume	25 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-9 DB5US2461945H

Target Analytes	pg	Ret. Time	% Rec	Limits	Flags
BDE 10	400	NotFnd	0	5-130	
BDE 7	400	6.80	9	5-130	
BDE 8/11	800	6.95	96	50-150	
BDE 12/13	800	7.09	89	5-130	
BDE 15	400	7.22	98	50-150	
BDE 30	400	7.93	53	5-130	
BDE 32	400	8.37	71	50-150	
BDE 17/25	800	8.56	67	50-150	
BDE 28/33	800	8.76	87	50-150	
BDE 35	400	8.90	142	50-150	
BDE 37	400	9.09	130	50-150	
PBEB	400	9.10	89	50-150	
HBB	400	10.08	101	50-150	
BDE 75	400	10.14	126	50-150	
BDE 51	400	10.21	60	50-150	
BDE 49	400	10.31	75	50-150	
BDE 71	400	10.38	81	50-150	
BDE 47	400	10.64	105	50-150	
BDE 79	400	10.80	148	50-150	
BDE 66	400	10.92	109	50-150	
BDE 77	400	11.40	103	50-150	
BDE 100	600	12.28	98	50-150	
BDE 119/120	1200	12.45	94	50-150	
BDE 99	600	12.79	102	50-150	
BDE 116	600	12.94	66	40-140	
BDE 83	600	13.07	60	50-150	
BDE 118	600	13.20	98	50-150	
BDE 85	600	13.68	72	50-150	
BDE 126	600	13.86	101	50-150	
BDE 105	600	14.02	83	50-150	
BDE 155	800	13.86	108	50-150	
BDE 154	800	14.23	102	50-150	
BDE 153	800	14.98	95	50-150	
BDE 140	800	15.44	105	50-150	
BDE 138/166	1600	15.94	89	50-150	M
BDE 156	800	16.32	91	50-150	
BDE 128	800	16.93	55	50-150	
BDE 184	1000	16.75	115	50-150	
BDE 183	1000	17.13	98	50-150	
BDE 191	1000	17.69	108	50-150	
BDE 181	1000	18.24	101	50-150	
BDE 190	1000	18.40	100	50-150	
BDE 197	1000	19.64	100	50-150	
BDE 203	1000	19.94	89	50-150	
BDE 196	1000	20.07	84	50-150	
BDE 208	2000	21.48	106	50-150	
BDE 207	2000	21.61	101	50-150	
BDE 206	2000	21.93	98	50-150	
BDE 209	2000	23.79	95	40-200	
DBDPE	4000	25.34	103	40-200	
Extraction Standards	pg	% Rec	Limits		
13C12 BDE 15	1000	7.22	28	25-150	
13C12 BDE 28	1000	8.76	45	30-140	
13C6 HBB	1000	10.08	74	30-140	
13C12 BDE 47	1000	10.64	53	30-140	
13C12 BDE 77	1000	11.40	70	30-140	
13C12 BDE 100	1000	12.27	74	30-140	
13C12 BDE 99	1000	12.77	64	30-140	
13C12 BDE 126	1000	13.84	75	30-140	
13C12 BDE 154	1000	14.23	66	30-140	
13C12 BDE 153	1000	14.97	71	30-140	
13C12 BDE 183	1000	17.12	74	30-140	
13C12 BDE 197	2000	19.63	74	30-140	
13C12 BDE 207	5000	21.61	81	30-140	
13C12 BDE 209	5000	23.79	69	20-200	
13C14 DBDPE	10000	25.33	54	5-200	
Cleanup Standard	pg				
13C12 BDE 138 Cleanup	2000	15.93	60	40-125	

M Indicates that a peak has been manually integrated.



908 North Temperance Ave. - Clovis, CA 93611 - Phone 559-275-2175 - www.applinc.com

NELAP Certification Number: CA00046

DoD-ELAP Certification Number 4064.01

State Certification Number:

November 10, 2022

Greg Stabach
RVCOG
155 N Front St.
Central Point, OR 97502

RE: Almeda Fire
22J0176

Enclosed are the results of analyses for samples received by our laboratory on 10/27/2022. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,

Greg Salata For Gregory Salata
Project Manager

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RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Analysis Case Narrative

PFAS: Manual integrations were performed for this method in accordance with APPL's SOP. Chromatograms after manual integration are enclosed for specific samples and analytes. Abbreviated flags for technical justification are listed on the chromatogram.

Some extracted internal standards recovered outside of control limits in some samples. These samples were diluted and recovered in control, unless stated otherwise.

The analyte NEtFOSE recovered above the upper control limit in BBK0011-BSD1. No results were reported for the analyte in any sample.

The analytes PFHXA, PFOA, PFNA, PFUnA, PFDS, NMeFOSE, and NEtFOSE recovered above the upper control limits in BBK0011-MRL1.

The analyte NEtFOSE recovered above the upper control limit in SB03315-LCV1, SB03315-CCV3, and SB03315-CCV4. No results were reported for the analyte in any sample.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
22J0176-01	OAK ST.	Water	10/22/2022 17:30	10/27/2022
22J0176-02	USCP	Water	10/22/2022 18:30	10/27/2022
22J0176-03	Northridge Terrace	Water	10/22/2022 16:30	10/27/2022
22J0176-04	Colver Rd	Water	10/22/2022 17:10	10/27/2022
22J0176-05	West Valley View	Water	10/22/2022 18:30	10/27/2022

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Sample Results

Sample: OAK ST.
22J0176-01 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	7.4 J	16	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEA	4.5 J	8.2	1.0	0.32	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXA	4.8	4.1	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPA	4.0 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFOA	7.9	4.1	1.0	0.42	ng/L	11/04/22	1	Table B-15	BBK0011
PFNA	1.9 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFDA	2.0 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFUnA	1.0 U	4.1	1.0	0.41	ng/L	11/04/22	1	Table B-15	BBK0011
PFDOA	1.0 U	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFTTDA	1.0 U	4.1	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	1.0 U	4.1	1.0	0.44	ng/L	11/04/22	1	Table B-15	BBK0011
PFBS	8.6	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEs	1.0 U	4.1	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXS	1.5 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPS	1.0 U	4.1	1.0	0.29	ng/L	11/04/22	1	Table B-15	BBK0011
PFOS	7.0	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFNS	2.0 U	4.1	2.0	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
PFDS	1.0 U	4.1	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
4:2FTS	2.0 U	16	2.0	0.55	ng/L	11/04/22	1	Table B-15	BBK0011
6:2FTS	1.0 U	16	1.0	0.46	ng/L	11/04/22	1	Table B-15	BBK0011
8:2FTS	3.1 U	16	3.1	1.0	ng/L	11/04/22	1	Table B-15	BBK0011
PFOSA	1.0 U	16	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSA	10 U	16	10	5.0	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSA	10 U	16	10	5.0	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSAA	1.0 J	4.1	1.0	0.37	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSAA	1.0 U	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSE	6.1 U	16	6.1	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSE	6.1 U	16	6.1	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
HFPO-DA	5.1 U	8.2	5.1	2.5	ng/L	11/04/22	1	Table B-15	BBK0011
ADONA	3.1 U	8.2	3.1	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
9CL-PF3ONS	3.1 U	8.2	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
11CL-PF3OUDS	3.1 U	8.2	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFBA	85.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFPEA	92.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFHXA	89.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFHPA	84.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	92.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C9-PFNA	88.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C6-PFDA	91.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C7-PFUnA	102%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFDOA	77.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFTEDA	75.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFBS	95.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFHXS	93.0%		50-150			11/04/22	1	Table B-15	BBK0011

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Sample Results (Continued)

Sample: OAK ST. (Continued)
22J0176-01 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	87.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	135%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	121%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	120%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOSA	82.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSA	81.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSA	84.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	88.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	117%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D7-NMEFOSE	108%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D9-NETFOSE	135%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-HFPO-DA	86.7%		50-150			11/04/22	1	Table B-15	BBK0011

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Sample Results (Continued)

Sample: USCP
22J0176-02 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	3.2 J	17	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEA	12	8.4	1.1	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXA	9.8	4.2	1.1	0.34	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPA	2.5 J	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFOA	7.0	4.2	1.1	0.43	ng/L	11/04/22	1	Table B-15	BBK0011
PFNA	2.0 J	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFDA	0.92 J	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFUnA	1.1 U	4.2	1.1	0.42	ng/L	11/04/22	1	Table B-15	BBK0011
PFDOA	1.1 U	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFTDA	1.1 U	4.2	1.1	0.31	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	1.1 U	4.2	1.1	0.45	ng/L	11/04/22	1	Table B-15	BBK0011
PFBS	5.0	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPE	1.1 U	4.2	1.1	0.31	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXS	0.92 J	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPS	1.1 U	4.2	1.1	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFOS	5.9	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFNS	2.1 U	4.2	2.1	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
PFDS	1.1 U	4.2	1.1	0.34	ng/L	11/04/22	1	Table B-15	BBK0011
4:2FTS	2.1 U	17	2.1	0.57	ng/L	11/04/22	1	Table B-15	BBK0011
6:2FTS	1.1 U	17	1.1	0.47	ng/L	11/04/22	1	Table B-15	BBK0011
8:2FTS	3.2 U	17	3.2	1.1	ng/L	11/04/22	1	Table B-15	BBK0011
PFOSA	0.69 J IR2,	17	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSA	11 U	17	11	5.2	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSA	11 U	17	11	5.2	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSAA	0.69 J	4.2	1.1	0.38	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSAA	1.1 U	4.2	1.1	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSE	4.1 J	17	6.3	3.2	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSE	6.3 U	17	6.3	3.2	ng/L	11/04/22	1	Table B-15	BBK0011
HFPO-DA	5.3 U	8.4	5.3	2.6	ng/L	11/04/22	1	Table B-15	BBK0011
ADONA	3.2 U	8.4	3.2	1.4	ng/L	11/04/22	1	Table B-15	BBK0011
9CL-PF3ONS	3.2 U	8.4	3.2	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
11CL-PF3OUDS	3.2 U	8.4	3.2	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFBA	89.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFPEA	84.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFHXA	86.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFHPA	81.7%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	83.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C9-PFNA	82.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C6-PFDA	94.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C7-PFUnA	98.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFDOA	88.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFTEDA	92.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFBS	93.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFHXS	88.1%		50-150			11/04/22	1	Table B-15	BBK0011

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Sample Results (Continued)

Sample: USCP (Continued)
22J0176-02 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	85.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	117%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	97.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	94.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOSA	77.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSA	76.7%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSA	81.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	93.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	113%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D7-NMEFOSE	113%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D9-NETFOSE	141%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-HFPO-DA	80.6%		50-150			11/04/22	1	Table B-15	BBK0011

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Sample Results (Continued)

**Sample: Northridge Terrace
22J0176-03 (Water)**

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	1.0 U	16	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEA	7.5 J	8.2	1.0	0.32	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXA	1.8 J IR1,	4.1	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPA	1.7 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFOA	5.5	4.1	1.0	0.42	ng/L	11/04/22	1	Table B-15	BBK0011
PFNA	0.96 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFDA	4.1 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFUnA	1.1 J IR2,	4.1	1.0	0.41	ng/L	11/04/22	1	Table B-15	BBK0011
PFDOA	4.4	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFTDA	0.69 J	4.1	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	2.0 J IR2,	4.1	1.0	0.44	ng/L	11/04/22	1	Table B-15	BBK0011
PFBS	0.88 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPE	1.0 U	4.1	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXS	1.0 U	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPS	1.0 U	4.1	1.0	0.29	ng/L	11/04/22	1	Table B-15	BBK0011
PFOS	3.2 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFNS	2.0 U	4.1	2.0	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
PFDS	1.0 U	4.1	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
4:2FTS	2.0 U	16	2.0	0.55	ng/L	11/04/22	1	Table B-15	BBK0011
6:2FTS	1.0 U	16	1.0	0.46	ng/L	11/04/22	1	Table B-15	BBK0011
8:2FTS	3.1 U	16	3.1	1.0	ng/L	11/04/22	1	Table B-15	BBK0011
PFOSA	1.6 J IR1,	16	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSA	10 U	16	10	5.0	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSA	10 U	16	10	5.0	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSAA	0.60 J	4.1	1.0	0.37	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSAA	0.58 J	4.1	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSE	6.1 U	16	6.1	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSE	6.1 U	16	6.1	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
HFPO-DA	5.1 U	8.2	5.1	2.5	ng/L	11/04/22	1	Table B-15	BBK0011
ADONA	3.1 U	8.2	3.1	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
9CL-PF3ONS	3.1 U	8.2	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
11CL-PF3OUDS	3.1 U	8.2	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFBA	91.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFPEA	88.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFHXA	90.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFHPA	85.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	95.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C9-PFNA	91.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C6-PFDA	93.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C7-PFUnA	108%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFDOA	82.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFTEDA	64.7%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFBS	99.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFHXS	93.0%		50-150			11/04/22	1	Table B-15	BBK0011

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Project Manager: Greg Stabach

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Sample Results (Continued)

Sample: Northridge Terrace (Continued)
22J0176-03 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	102%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	199% S2		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	109%		50-150			11/04/22	10	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	199% S2		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	98.8%		50-150			11/04/22	10	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	195% S2		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	113%		50-150			11/04/22	10	Table B-15	BBK0011
Surrogate: 13C8-PFOA	79.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOA	91.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOA	90.9%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	162% S2		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	106%		50-150			11/04/22	10	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	206% S2		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	120%		50-150			11/04/22	10	Table B-15	BBK0011
Surrogate: D7-NMEFOSE	116%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D9-NETFOSE	137%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-HFPO-DA	80.9%		50-150			11/04/22	1	Table B-15	BBK0011

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Project Manager: Greg Stabach

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Sample Results (Continued)

**Sample: Colver Rd
22J0176-04 (Water)**

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	1.0 U	17	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEA	1.0 U	8.3	1.0	0.32	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXA	3.4 J	4.2	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPA	1.2 J	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFOA	3.0 J	4.2	1.0	0.43	ng/L	11/04/22	1	Table B-15	BBK0011
PFNA	1.0 U	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFDA	1.5 J	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFUnA	1.0 U	4.2	1.0	0.42	ng/L	11/04/22	1	Table B-15	BBK0011
PFDOA	0.87 J IR2,	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFTDA	1.0 U	4.2	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	1.0 U	4.2	1.0	0.45	ng/L	11/04/22	1	Table B-15	BBK0011
PFBS	0.46 J	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFPE	1.0 U	4.2	1.0	0.30	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXS	1.0 U	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPS	1.0 U	4.2	1.0	0.29	ng/L	11/04/22	1	Table B-15	BBK0011
PFOS	2.0 J	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
PFNS	2.1 U	4.2	2.1	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
PFDS	1.0 U	4.2	1.0	0.33	ng/L	11/04/22	1	Table B-15	BBK0011
4:2FTS	2.1 U	17	2.1	0.56	ng/L	11/04/22	1	Table B-15	BBK0011
6:2FTS	1.0 U	17	1.0	0.47	ng/L	11/04/22	1	Table B-15	BBK0011
8:2FTS	3.1 U	17	3.1	1.1	ng/L	11/04/22	1	Table B-15	BBK0011
PFOSA	0.72 J	17	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSA	10 U	17	10	5.1	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSA	10 U	17	10	5.1	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSAA	1.0 U	4.2	1.0	0.37	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSAA	0.57 J IR2,	4.2	1.0	0.26	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSE	6.2 U	17	6.2	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSE	6.2 U	17	6.2	3.1	ng/L	11/04/22	1	Table B-15	BBK0011
HFPO-DA	5.2 U	8.3	5.2	2.6	ng/L	11/04/22	1	Table B-15	BBK0011
ADONA	3.1 U	8.3	3.1	1.4	ng/L	11/04/22	1	Table B-15	BBK0011
9CL-PF3ONS	3.1 U	8.3	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
11CL-PF3OUDS	3.1 U	8.3	3.1	1.2	ng/L	11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFBA	87.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFPEA	82.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFHXA	84.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFHPA	81.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	85.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C9-PFNA	84.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C6-PFDA	93.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C7-PFUnA	102%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFDOA	80.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFTEDA	69.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFBS	94.7%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFHXS	88.6%		50-150			11/04/22	1	Table B-15	BBK0011

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Sample Results (Continued)

Sample: Colver Rd (Continued)
22J0176-04 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	88.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	121%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	132%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	144%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	69.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOA	76.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOA	75.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	118%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	143%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D7-NMEFOSE	109%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D9-NETFOSE	116%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-HFPO-DA	79.8%		50-150			11/04/22	1	Table B-15	BBK0011

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Sample Results (Continued)

**Sample: West Valley View
22J0176-05 (Water)**

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	5.7 J	18	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEA	1.1 U	8.8	1.1	0.34	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXA	10	4.4	1.1	0.35	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPA	2.7 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFOA	8.3	4.4	1.1	0.45	ng/L	11/04/22	1	Table B-15	BBK0011
PFNA	1.8 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFDA	5.7	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFUnA	0.65 J	4.4	1.1	0.44	ng/L	11/04/22	1	Table B-15	BBK0011
PFDOA	1.8 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	1.1 U	4.4	1.1	0.32	ng/L	11/04/22	1	Table B-15	BBK0011
PFTEDA	0.85 J	4.4	1.1	0.47	ng/L	11/04/22	1	Table B-15	BBK0011
PFBS	2.2 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFPEs	1.1 U	4.4	1.1	0.32	ng/L	11/04/22	1	Table B-15	BBK0011
PFHXS	0.70 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFHPS	1.1 U	4.4	1.1	0.31	ng/L	11/04/22	1	Table B-15	BBK0011
PFOS	3.5 J	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
PFNS	2.2 U	4.4	2.2	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
PFDS	1.1 U	4.4	1.1	0.35	ng/L	11/04/22	1	Table B-15	BBK0011
4:2FTS	2.2 U	18	2.2	0.59	ng/L	11/04/22	1	Table B-15	BBK0011
6:2FTS	2.5 J	18	1.1	0.49	ng/L	11/04/22	1	Table B-15	BBK0011
8:2FTS	3.3 U	18	3.3	1.1	ng/L	11/04/22	1	Table B-15	BBK0011
PFOSA	0.72 J IR1,	18	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSA	11 U	18	11	5.4	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSA	11 U	18	11	5.4	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSAA	1.1 U	4.4	1.1	0.39	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSAA	1.1 U	4.4	1.1	0.27	ng/L	11/04/22	1	Table B-15	BBK0011
NMeFOSE	6.6 U	18	6.6	3.3	ng/L	11/04/22	1	Table B-15	BBK0011
NEtFOSE	6.6 U	18	6.6	3.3	ng/L	11/04/22	1	Table B-15	BBK0011
HFPO-DA	5.5 U	8.8	5.5	2.7	ng/L	11/04/22	1	Table B-15	BBK0011
ADONA	3.3 U	8.8	3.3	1.4	ng/L	11/04/22	1	Table B-15	BBK0011
9CL-PF3ONS	3.3 U	8.8	3.3	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
11CL-PF3OUDS	3.3 U	8.8	3.3	1.3	ng/L	11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFBA	86.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFPEA	90.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C5-PFHXA	90.7%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C4-PFHPA	86.8%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	87.3%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C9-PFNA	88.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C6-PFDA	96.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C7-PFUnA	104%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFDOA	84.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-PFTEDA	80.5%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFBS	91.4%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-PFHXS	90.6%		50-150			11/04/22	1	Table B-15	BBK0011

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Sample Results (Continued)

Sample: West Valley View (Continued)
22J0176-05 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	82.6%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-4:2FTS	128%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-6:2FTS	122%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C2-8:2FTS	131%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C8-PFOA	71.0%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOA	68.2%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOA	69.1%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D3-NMEFOSAA	105%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D5-NETFOSAA	135%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D7-NMEFOSE	109%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: D9-NETFOSE	112%		50-150			11/04/22	1	Table B-15	BBK0011
Surrogate: 13C3-HFPO-DA	86.9%		50-150			11/04/22	1	Table B-15	BBK0011

RVCOG
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Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

PREPARATION BATCH SUMMARY

Table B-15

Laboratory: APPL, Inc.

Client: RVCOG

Batch: BBK0011 Batch Matrix: Water Preparation: Table B-15

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
OAK ST.	22J0176-01	11/01/22 08:45	48.95	2.00
USCP	22J0176-02	11/01/22 08:45	47.45	2.00
Northridge Terrace	22J0176-03	11/01/22 08:45	48.83	2.00
Northridge Terrace	22J0176-03RE1	11/01/22 08:45	48.83	2.00
Colver Rd	22J0176-04	11/01/22 08:45	48.03	2.00
West Valley View	22J0176-05	11/01/22 08:45	45.68	2.00
Blank	BBK0011-BLK1	11/01/22 08:45	50.00	2.00
LCS	BBK0011-BS1	11/01/22 08:45	50.00	2.00
LCS Dup	BBK0011-BSD1	11/01/22 08:45	50.00	2.00
MRL Check	BBK0011-MRL1	11/01/22 08:45	50.00	2.00

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Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15

Blank (BBK0011-BLK1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 00:59

	ng/L									
PFBA	1.0 U	16	1.0	0.25						
PFPEA	1.0 U	8.0	1.0	0.31						
PFHXA	1.0 U	4.0	1.0	0.32						
PFHPA	1.0 U	4.0	1.0	0.25						
PFOA	0.879 J	4.0	1.0	0.41						
PFNA	1.0 U	4.0	1.0	0.25						
PFDA	1.0 U	4.0	1.0	0.25						
PFUnA	1.0 U	4.0	1.0	0.40						
PFDOA	1.0 U	4.0	1.0	0.25						
PFTRDA	1.0 U	4.0	1.0	0.29						
PFTEDA	1.0 U	4.0	1.0	0.43						
PFBS	1.0 U	4.0	1.0	0.25						
PFES	1.0 U	4.0	1.0	0.29						
PFHXS	1.0 U	4.0	1.0	0.25						
PFHPS	1.0 U	4.0	1.0	0.28						
PFOS	0.549 J	4.0	1.0	0.25						
PFNS	2.0 U	4.0	2.0	1.2						
PFDS	1.0 U	4.0	1.0	0.32						
4:2FTS	2.0 U	16	2.0	0.54						
6:2FTS	1.0 U	16	1.0	0.45						
8:2FTS	3.0 U	16	3.0	1.0						
PFOSA	1.0 U	16	1.0	0.25						
NMeFOSA	10 U	16	10	4.9						
NEtFOSA	10 U	16	10	4.9						
NMeFOSAA	1.0 U	4.0	1.0	0.36						
NEtFOSAA	1.0 U	4.0	1.0	0.25						
NMeFOSE	6.0 U	16	6.0	3.0						
NEtFOSE	6.0 U	16	6.0	3.0						
HFPO-DA	5.0 U	8.0	5.0	2.4						
ADONA	3.0 U	8.0	3.0	1.3						
9CL-PF3ONS	3.0 U	8.0	3.0	1.2						
11CL-PF3OUDS	3.0 U	8.0	3.0	1.2						

Surrogates

13C4-PFBA	283	320	88.5	50-150
13C5-PFPEA	144	160	89.7	50-150
13C5-PFHXA	74.8	80.0	93.5	50-150
13C4-PFHPA	71.0	80.0	88.8	50-150
13C8-PFOA	76.4	80.0	95.5	50-150
13C9-PFNA	37.5	40.0	93.7	50-150
13C6-PFDA	40.3	40.0	101	50-150
13C7-PFUnA	46.4	40.0	116	50-150
13C2-PFDOA	42.8	40.0	107	50-150
13C2-PFTEDA	28.5	40.0	71.4	50-150
13C3-PFBS	76.7	80.0	95.8	50-150
13C3-PFHXS	72.1	80.0	90.1	50-150
13C8-PFOS	78.5	80.0	98.2	50-150

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15 (Continued)

Blank (BBK0011-BLK1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 00:59

	ng/L									
Surrogates										
13C2-4:2FTS	159				160		99.1	50-150		
13C2-6:2FTS	137				160		85.6	50-150		
13C2-8:2FTS	142				160		88.9	50-150		
13C8-PFOA	76.5				80.0		95.6	50-150		
D3-NMEFOSA	70.1				80.0		87.7	50-150		
D5-NETFOA	74.1				80.0		92.6	50-150		
D3-NMEFOSAA	169				160		106	50-150		
D5-NETFOSAA	188				160		117	50-150		
D7-NMEFOSE	943				800		118	50-150		
D9-NETFOSE	980				800		123	50-150		
13C3-HFPO-DA	293				320		91.4	50-150		

LCS (BBK0011-BS1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:11

	ng/L									
PFBA	167				160		104	73-129		
PFPEA	85.6				80.0		107	72-129		
PFHXA	42.5				40.0		106	72-129		
PFHPA	41.4				40.0		104	72-130		
PFOA	42.6				40.0		107	71-133		
PFNA	41.8				40.0		104	69-130		
PFDA	42.2				40.0		105	71-129		
PFUnA	42.7				40.0		107	69-133		
PFDOA	47.0				40.0		117	72-134		
PFTRDA	40.9				40.0		102	65-144		
PFTEDA	39.4				40.0		98.4	71-132		
PFBS	36.6				35.4		104	72-130		
PFPEs	38.9				37.6		103	71-127		
PFHXS	36.2				36.6		99.0	68-131		
PFHPS	39.9				38.2		104	69-134		
PFOS	38.6				37.2		104	65-140		
PFNS	41.0				38.4		107	69-127		
PFDS	46.5				38.6		121	53-142		
4:2FTS	157				150		105	63-143		
6:2FTS	168				152		110	64-140		
8:2FTS	170				154		111	67-138		
PFOSA	40.2				40.0		101	67-137		
NMeFOSA	154				160		96.3	68-141		
NEtFOSA	162				160		101	70-130		
NMeFOSAA	38.8				40.0		97.1	65-136		
NEtFOSAA	41.7				40.0		104	61-135		
NMeFOSE	155				160		96.9	70-130		
NEtFOSE	205				160		128	70-130		
HFPO-DA	78.4				80.0		97.9	44-175		
ADONA	77.5				75.6		102	61-169		
9CL-PF3ONS	74.5				74.8		99.6	62-140		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15 (Continued)

LCS (BBK0011-BS1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:11

11CL-PF3OUDS	ng/L 80.8				75.6		107	54-138		
Surrogates										
13C4-PFBA	285				320		89.1	50-150		
13C5-PFPEA	153				160		95.5	50-150		
13C5-PFHXA	75.3				80.0		94.1	50-150		
13C4-PFHFA	72.6				80.0		90.8	50-150		
13C8-PFOA	67.7				80.0		84.6	50-150		
13C9-PFNA	37.7				40.0		94.4	50-150		
13C6-PFDA	38.1				40.0		95.2	50-150		
13C7-PFUnA	38.4				40.0		96.1	50-150		
13C2-PFDOA	36.5				40.0		91.4	50-150		
13C2-PFTEDA	35.2				40.0		87.9	50-150		
13C3-PFBS	73.3				80.0		91.6	50-150		
13C3-PFHXS	74.3				80.0		92.8	50-150		
13C8-PFOS	71.6				80.0		89.5	50-150		
13C2-4:2FTS	144				160		89.9	50-150		
13C2-6:2FTS	143				160		89.7	50-150		
13C2-8:2FTS	150				160		93.8	50-150		
13C8-PFOA	75.3				80.0		94.2	50-150		
D3-NMEFOSA	53.4				80.0		66.7	50-150		
D5-NETFOA	56.8				80.0		71.0	50-150		
D3-NMEFOSAA	157				160		97.8	50-150		
D5-NETFOSAA	165				160		103	50-150		
D7-NMEFOSE	746				800		93.2	50-150		
D9-NETFOSE	753				800		94.1	50-150		
13C3-HFPO-DA	303				320		94.6	50-150		

LCS Dup (BBK0011-BS1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:24

PFBA	ng/L 156				160		97.6	73-129	6.78	30
PFPEA	81.8				80.0		102	72-129	4.51	30
PFHXA	43.1				40.0		108	72-129	1.37	30
PFHFA	40.1				40.0		100	72-130	3.14	30
PFOA	38.9				40.0		97.3	71-133	9.01	30
PFNA	42.1				40.0		105	69-130	0.736	30
PFDA	39.9				40.0		99.6	71-129	5.70	30
PFUnA	39.1				40.0		97.8	69-133	8.78	30
PFDOA	39.8				40.0		99.5	72-134	16.6	30
PFTRDA	36.2				40.0		90.4	65-144	12.2	30
PFTEDA	41.7				40.0		104	71-132	5.78	30
PFBS	34.2				35.4		96.5	72-130	6.99	30
PFPEA	37.0				37.6		98.5	71-127	4.89	30
PFHXS	34.6				36.6		94.6	68-131	4.55	30
PFHPS	39.2				38.2		103	69-134	1.60	30
PFOS	37.3				37.2		100	65-140	3.49	30
PFNS	40.8				38.4		106	69-127	0.552	30
PFDS	45.4				38.6		118	53-142	2.53	30

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15 (Continued)

LCS Dup (BBK0011-BSD1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:24

	ng/L									
4:2FTS	155				150		103	63-143	1.64	30
6:2FTS	167				152		110	64-140	0.435	30
8:2FTS	158				154		103	67-138	7.58	30
PFOSA	39.6				40.0		98.9	67-137	1.66	30
NMeFOSA	155				160		97.0	68-141	0.781	30
NEtFOSA	155				160		96.7	70-130	4.50	30
NMeFOSAA	37.4				40.0		93.5	65-136	3.74	30
NEtFOSAA	50.0				40.0		125	61-135	18.0	30
NMeFOSE	171				160		107	70-130	9.56	30
NEtFOSE	212 BS2				160		132	70-130	3.38	30
HFPO-DA	75.1				80.0		93.9	44-175	4.25	30
ADONA	71.1				75.6		94.0	61-169	8.61	30
9CL-PF3ONS	74.9				74.8		100	62-140	0.513	30
11CL-PF3OUDS	79.8				75.6		106	54-138	1.28	30

Surrogates

13C4-PFBA	293	320	91.6	50-150
13C5-PFPEA	146	160	91.1	50-150
13C5-PFHXA	69.1	80.0	86.3	50-150
13C4-PFHFA	70.0	80.0	87.5	50-150
13C8-PFOA	71.2	80.0	89.1	50-150
13C9-PFNA	36.9	40.0	92.1	50-150
13C6-PFDA	37.3	40.0	93.4	50-150
13C7-PFUnA	39.5	40.0	98.7	50-150
13C2-PFDOA	38.0	40.0	95.0	50-150
13C2-PFTEDA	31.8	40.0	79.6	50-150
13C3-PFBS	79.7	80.0	99.6	50-150
13C3-PFHXS	77.4	80.0	96.8	50-150
13C8-PFOS	73.9	80.0	92.3	50-150
13C2-4:2FTS	145	160	90.9	50-150
13C2-6:2FTS	151	160	94.3	50-150
13C2-8:2FTS	151	160	94.7	50-150
13C8-PFOSA	79.0	80.0	98.7	50-150
D3-NMEFOSA	60.6	80.0	75.7	50-150
D5-NETFOSA	63.9	80.0	79.9	50-150
D3-NMEFOSAA	158	160	99.0	50-150
D5-NETFOSAA	174	160	109	50-150
D7-NMEFOSE	710	800	88.8	50-150
D9-NETFOSE	874	800	109	50-150
13C3-HFPO-DA	292	320	91.2	50-150

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15 (Continued)

MRL Check (BBK0011-MRL1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:37

	ng/L									
PFBA	17.1				16.0		107	73-129		
PFPEA	10.1				8.00		126	72-129		
PFHXA	5.94 BS2				4.00		148	72-129		
PFHPA	4.95				4.00		124	72-130		
PFOA	6.83 BS2				4.00		171	71-133		
PFNA	5.40 BS2				4.00		135	69-130		
PFDA	4.76				4.00		119	71-129		
PFUnA	5.66 BS2				4.00		141	69-133		
PFDOA	5.01				4.00		125	72-134		
PFTRDA	4.91				4.00		123	65-144		
PFTEDA	5.12				4.00		128	71-132		
PFBS	4.10				3.54		116	72-130		
PFPEs	4.43				3.76		118	71-127		
PFHXS	4.48				3.66		122	68-131		
PFHPS	4.55				3.82		119	69-134		
PFOS	4.96				3.72		133	65-140		
PFNS	4.65				3.84		121	69-127		
PFDS	5.60 BS2				3.86		145	53-142		
4:2FTS	18.9				15.0		126	63-143		
6:2FTS	21.0				15.2		138	64-140		
8:2FTS	21.1				15.4		137	67-138		
PFOSA	5.28 J				4.00		132	67-137		
NMeFOSA	18.8				16.0		118	68-141		
NEtFOSA	18.3				16.0		114	70-130		
NMeFOSAA	5.27				4.00		132	65-136		
NEtFOSAA	4.27				4.00		107	61-135		
NMeFOSE	24.0 BS2				16.0		150	70-130		
NEtFOSE	30.5 BS2				16.0		191	70-130		
HFPO-DA	8.43				8.00		105	44-175		
ADONA	9.19				7.56		122	61-169		
9CL-PF3ONS	8.48				7.48		113	62-140		
11CL-PF3OUDS	8.84				7.56		117	54-138		

Surrogates

13C4-PFBA	298	320	93.2	50-150
13C5-PFPEA	148	160	92.4	50-150
13C5-PFHXA	75.1	80.0	93.9	50-150
13C4-PFHPA	71.2	80.0	89.0	50-150
13C8-PFOA	70.8	80.0	88.6	50-150
13C9-PFNA	34.6	40.0	86.5	50-150
13C6-PFDA	41.1	40.0	103	50-150
13C7-PFUnA	41.1	40.0	103	50-150
13C2-PFDOA	38.7	40.0	96.6	50-150
13C2-PFTEDA	34.7	40.0	86.8	50-150
13C3-PFBS	78.2	80.0	97.7	50-150
13C3-PFHXS	76.2	80.0	95.2	50-150
13C8-PFOS	74.3	80.0	92.9	50-150

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBK0011 - Table B-15 (Continued)

MRL Check (BBK0011-MRL1)

Prepared: 11/01/22 08:45 Analyzed: 11/04/22 01:37

	ng/L									
Surrogates										
13C2-4:2FTS	148				160		92.7	50-150		
13C2-6:2FTS	149				160		92.9	50-150		
13C2-8:2FTS	155				160		96.8	50-150		
13C8-PFOA	76.7				80.0		95.9	50-150		
D3-NMEFOA	58.9				80.0		73.7	50-150		
D5-NETFOA	65.4				80.0		81.7	50-150		
D3-NMEFOSAA	169				160		105	50-150		
D5-NETFOSAA	187				160		117	50-150		
D7-NMEFOSE	719				800		89.9	50-150		
D9-NETFOSE	991				800		124	50-150		
13C3-HFPO-DA	286				320		89.4	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

Notes and Definitions

Item	Definition
BS2	Blank spike recovered above the upper control limit
IR1	Ion ratio below the lower control limit
IR2	Ion ratio above the upper control limit
J	Estimated value
S2	Surrogate recovered above the upper control limit
U	Not detected
Dry	Sample results reported on a dry weight basis.
DL	Dilution Factor
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30



WORK ORDER

22J0176

Printed: 11/10/2022 9:31 am

Project: Alameda Fire
Project Number:
Project Manager: Gregory Salata
PO Number:

Report To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Invoice To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Date Received: 10/27/2022 10:19 AM
Date Due: 11/10/2022 (10.00 day TAT)

Logged In By: Megan Salata
Received By: Lincoln Hooper

Analysis	Comments
22J0176-01 OAK ST. [Water] Sampled 10/22/2022 5:30:00PM	
B-15 DOD	NONE
22J0176-02 USCP [Water] Sampled 10/22/2022 6:30:00PM	
B-15 DOD	NONE
22J0176-03 Northridge Terrace [Water] Sampled 10/22/2022 4:30:00PM	
B-15 DOD	NONE
22J0176-04 Colver Rd [Water] Sampled 10/22/2022 5:10:00PM	
B-15 DOD	NONE
22J0176-05 West Valley View [Water] Sampled 10/22/2022 6:30:00PM	
B-15 DOD	NONE

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 11/10/2022 09:30

22J0176

Sample Receipt Log

Default Cooler

Samples Received at: **3.0°C**

Custody Seals	Yes	Were all containers sealed in separate bags?	Yes
Containers Intact	Yes	Did all containers arrive in good condition?	Yes
COC/Labels Agree	Yes	Correct containers/preserv. for tests indicated?	Yes
Preservation Confirmed	No	Sufficient volume sent for tests requested?	No
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	Yes
COCs complete/signed in the appropriate places?	Yes	pH of non-VOA preserved containers documented?	No
Sample labels complete? Sample ID, date/time, etc.	Yes	Unpreserved vials received for VOA analysis?	No
Did all container labels agree with COCs?	Yes	If "yes", are unpreserved VOA vials noted on ARF?	No

APPL, Inc.

908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175

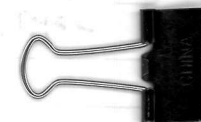
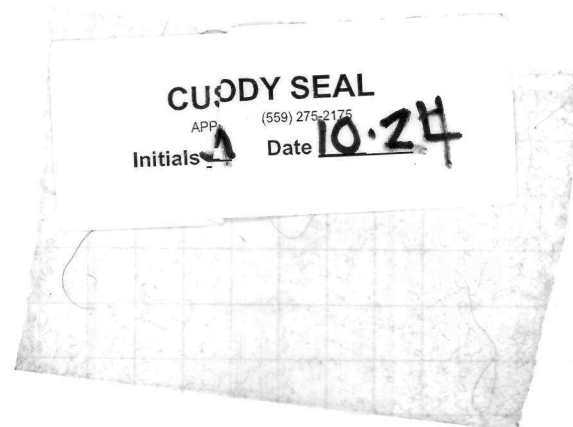
Fax: (559) 275-4422

coc@applinc.com

C.O.C.

54673

Report to:		PLEASE PRINT										Invoice to:		PLEASE PRINT										
Company Name: RUCOG		Phone: 341-664-6674										Company Name:		Phone:										
Address: 155 N St.		Fax:										Address:		Fax:										
Attn: Greg Stabach												Attn:												
Email: gstabach@rucog.org												Email:												
Project Name/Number		Sampler (Print)					No. of Containers		Matrix				Analysis Requested/Method Number										Date Shipped:	
Purchase Order Number		Sampler (Signature)																					Carrier:	
Sample Identification		Location		Date Collected	Time Collected	Time Zone	Aq		Sed.		Soil												Waybill No.:	
Oak St.		Ashland Oak St.		10/22	17:30	Q	✓						1613B										1,2 - 1 Liter	
USCP		USCP Bridge		10/22	18:30	D	✓						537MB15										3,4 - 1 Liter	
Northridge Terrace				10.22	16:30		✓						✓											
Colver Rd				10.22	17:10		✓						✓											
West Valley View				10.22	18:30		✓						✓											
Shuttle Temperature: 71.4/30		Turnaround Requested: Check one ☐ Standard 2-3 wk ☐ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:										Sample Disposal: ☐ Return to client ☐ Disposal by Lab (30-day retention)												
Relinquished by sampler: Jennie Morgan		Date: 10.24		Time: 11:00		Received by:		Relinquished by:				Date:		Time:		Received by:								
Relinquished by:		Date:		Time:		Received by:		Relinquished by:				Date: 10/27/22		Time: 11:19		Received at lab by: [Signature]								



24813

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N St.
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98876

Sample ID: OAK ST

Sample Collection Date: 10/22/2022

APPL ID: BA49413

QCG: \$829ADOD5-274515-2745

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	0.70DL U	125.0	0.70DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	0.66DL U	125.0	0.66DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	0.92DL U	125.0	0.92DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	0.97 J	125.0	0.97PC	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	0.86DL U	125.0	0.86DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	1.2DL U	125.0	1.2DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	0.82DL U	125.0	0.82DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	0.53PC U	125.0	0.53PC	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	1.2DL U	125.0	1.2DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDD	1.2DL U	125.0	1.2DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDF	1.1DL U	125.0	1.1DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	0.90DL U	125.0	0.90DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	2,3,4,7,8-PECDF	1.1DL U	125.0	1.1DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDD	2.4DL U	50.0	2.4DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDF	0.97DL U	50.0	0.97DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	OCDD	1.7DL U	250.0	1.7DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	OCDF	4.5DL U	250.0	4.5DL	pg/L	10/31/2022	11/6/2022
EPA 8290A	TEQ	0.097	NA			10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	77.3	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	71.7	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	89.8	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	78.4	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	60.3	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	60.9	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	65.3	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	63.7	40-135		%	10/31/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	67.7	40-135		%	10/31/2022	11/6/2022

J = Estimated value.

Quant Method: 220927_8290
Run #: 221106_HR_06
Instrument: Magneto
Sequence: 221106
Dilution Factor: 1
Initials: LA

Printed: 11/8/2022 1:52:03 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N St.
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98876

Sample ID: USCP

Sample Collection Date: 10/22/2022

APPL ID: BA49414

QCG: \$829ADOD5-274515-2745

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	11 J	125.0	11PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	2.3DL U	125.0	2.3DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	3.2DL U	125.0	3.2DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	2.4DL U	125.0	2.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	1.2DL U	125.0	1.2DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	2.3DL U	125.0	2.3DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	0.96PC U	125.0	0.96PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	2.4DL U	125.0	2.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	1.5DL U	125.0	1.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDD	1.8DL U	125.0	1.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDF	1.7DL U	125.0	1.7DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	1.2DL U	125.0	1.2DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,7,8-PECDF	1.8DL U	125.0	1.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDD	2.2DL U	50.0	2.2DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDF	0.83DL U	50.0	0.83DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDD	83PC U	250.0	83PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDF	3.0DL U	250.0	3.0DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	TEQ	0.11	NA			11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	75.4	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	67.7	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	79.5	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	73.4	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	61.5	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	61.4	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	66.9	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	62.6	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	70.0	40-135		%	11/7/2022	11/6/2022

J = Estimated value.

Quant Method: 220927_8290
Run #: 221106_HR_07
Instrument: Magneto
Sequence: 221106
Dilution Factor: 1
Initials: LA

Printed: 11/8/2022 1:52:03 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N St.
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98876

Sample ID: NORTHRIDGE TERRACE

Sample Collection Date: 10/22/2022

APPL ID: BA49415

QCG: \$829ADOD5-274515-2745

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	1.8PC U	125.0	1.8PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	1.5DL U	125.0	1.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	0.73PC U	125.0	0.73PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	2.4DL U	125.0	2.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	0.97DL U	125.0	0.97DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	2.3DL U	125.0	2.3DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	0.92DL U	125.0	0.92DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	2.5DL U	125.0	2.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	1.3DL U	125.0	1.3DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDD	1.9DL U	125.0	1.9DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDF	1.8DL U	125.0	1.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	1.0DL U	125.0	1.0DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,7,8-PECDF	1.9DL U	125.0	1.9DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDD	2.7DL U	50.0	2.7DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDF	1.8DL U	50.0	1.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDD	6.5DL U	250.0	6.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDF	5.3DL U	250.0	5.3DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	67.1	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	60.0	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	76.1	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	66.2	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	48.1	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	50.2	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	52.8	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	51.4	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	52.3	40-135		%	11/7/2022	11/6/2022

Quant Method: 220927_8290
Run #: 221106_HR_08
Instrument: Magneto
Sequence: 221106
Dilution Factor: 1
Initials: LA

Printed: 11/8/2022 1:52:03 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N St.
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98876

Sample ID: COLVER RD

Sample Collection Date: 10/22/2022

APPL ID: BA49416

QCG: \$829ADOD5-274515-2745

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	11PC U	125.0	11PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	4.5DL U	125.0	4.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	5.7DL U	125.0	5.7DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	3.8DL U	125.0	3.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	1.1PC U	125.0	1.1PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	3.6DL U	125.0	3.6DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	1.7 J	125.0	1.7PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	3.9DL U	125.0	3.9DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	1.7DL U	125.0	1.7DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDD	2.9DL U	125.0	2.9DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDF	0.67PC U	125.0	0.67PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	1.4DL U	125.0	1.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,7,8-PECDF	0.85PC U	125.0	0.85PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDD	1.8DL U	50.0	1.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDF	1.1DL U	50.0	1.1DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDD	92 J	250.0	92PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDF	2.1PC U	250.0	2.1PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	TEQ	0.20	NA			11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	82.3	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	71.2	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	99.0	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	86.1	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	67.2	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	67.1	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	70.9	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	68.0	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	76.9	40-135		%	11/7/2022	11/6/2022

J = Estimated value.

Quant Method: 220927_8290
Run #: 221106_HR_09
Instrument: Magneto
Sequence: 221106
Dilution Factor: 1
Initials: LA

Printed: 11/8/2022 1:52:03 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N St.
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98876

Sample ID: WEST VALLEY VIEW

Sample Collection Date: 10/22/2022

APPL ID: BA49417

QCG: \$829ADOD5-274515-2745

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	140	125.0	140PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,6,7,8-HPCDF	12DL U	125.0	12DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8,9-HPCDF	16DL U	125.0	16DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDD	4.5DL U	125.0	4.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,4,7,8-HXCDF	6.5DL U	125.0	6.5DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDD	2.2 J	125.0	2.2PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,6,7,8-HXCDF	6.2DL U	125.0	6.2DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDD	4.6PC U	125.0	4.6PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8,9-HXCDF	8.7DL U	125.0	8.7DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDD	2.1PC U	125.0	2.1PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	1,2,3,7,8-PECDF	4.8DL U	125.0	4.8DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,6,7,8-HXCDF	72PC U	125.0	72PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,4,7,8-PECDF	5.0DL U	125.0	5.0DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDD	1.4DL U	50.0	1.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	2,3,7,8-TCDF	1.4DL U	50.0	1.4DL	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDD	820	250.0	820PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	OCDF	170PC U	250.0	170PC	pg/L	11/7/2022	11/6/2022
EPA 8290A	TEQ	1.9	NA			11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	70.5	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	67.0	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	74.9	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	72.5	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	39.8	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	35.8 #	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	64.2	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	59.4	40-135		%	11/7/2022	11/6/2022
EPA 8290A	SURROGATE: 13C-OCDD (S)	61.1	40-135		%	11/7/2022	11/6/2022

J = Estimated value.

= Recovery (or RPD) is outside QC limits.

Quant Method: 220927_8290
Run #: 221106_HR_10
Instrument: Magneto
Sequence: 221106
Dilution Factor: 1
Initials: LA

Printed: 11/8/2022 1:52:03 PM
Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **221031W-49413 - 274515**
 Batch ID: \$829ADOD5-274515

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	1.2PC U	125.0	1.2PC	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,4,6,7,8-HPCDF	1.1DL U	125.0	1.1DL	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,4,7,8,9-HPCDF	1.5DL U	125.0	1.5DL	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,4,7,8-HXCDD	1.4DL U	125.0	1.4DL	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,4,7,8-HXCDF	0.73 J	125.0	0.73PC	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,6,7,8-HXCDD	0.57PC U	125.0	0.57PC	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,6,7,8-HXCDF	0.80PC U	125.0	0.80PC	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,7,8,9-HXCDD	1.4DL U	125.0	1.4DL	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,7,8,9-HXCDF	0.70DL U	125.0	0.70DL	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,7,8-PECDD	0.37PC U	125.0	0.37PC	pg/L	10/31/2022	11/6/2022
BLANK	1,2,3,7,8-PECDF	1.3DL U	125.0	1.3DL	pg/L	10/31/2022	11/6/2022
BLANK	2,3,4,6,7,8-HXCDF	0.54DL U	125.0	0.54DL	pg/L	10/31/2022	11/6/2022
BLANK	2,3,4,7,8-PECDF	2.4PC U	125.0	2.4PC	pg/L	10/31/2022	11/6/2022
BLANK	2,3,7,8-TCDD	2.1DL U	50.0	2.1DL	pg/L	10/31/2022	11/6/2022
BLANK	2,3,7,8-TCDF	0.98PC U	50.0	0.98PC	pg/L	10/31/2022	11/6/2022
BLANK	OCDD	5.6 J	250.0	5.6PC	pg/L	10/31/2022	11/6/2022
BLANK	OCDF	4.5DL U	250.0	4.5DL	pg/L	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	76.6	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	77.5	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	95.5	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	81.3	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	60.5	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	58.9	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	63.8	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	61.6	40-135		%	10/31/2022	11/6/2022
BLANK	SURROGATE: 13C-OCDD (S)	67.0	40-135		%	10/31/2022	11/6/2022

J = Estimated value.

Quant Method: 220927_8290
 Run #: 221106_HR_04
 Instrument: Magneto
 Sequence: 221106
 Initials: LA

Printed: 11/8/2022 1:51:47 PM

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: **221107W-49413 LCS - 274515**

Batch ID: #829ADOD5-274515

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	1250	1760	1590	141 #	127 #	79-122	10.1	20
1,2,3,4,6,7,8-HPCDF	1250	1710	1860	137 #	149 #	81-130	8.4	20
1,2,3,4,7,8,9-HPCDF	1250	1510	1490	121	119	77-128	1.3	20
1,2,3,4,7,8-HXCDD	1250	1520	1590	122	127 #	80-126	4.5	20
1,2,3,4,7,8-HXCDF	1250	1450	1470	116	118	80-130	1.4	20
1,2,3,6,7,8-HXCDD	1250	1600	1960	128	157 #	78-134	20.2 #	20
1,2,3,6,7,8-HXCDF	1250	1490	1780	119	142 #	79-131	17.7	20
1,2,3,7,8,9-HXCDD	1250	1500	1550	120	124	76-137	3.3	20
1,2,3,7,8,9-HXCDF	1250	1350	1370	108	110	83-130	1.5	20
1,2,3,7,8-PECDD	1250	1570	1680	126 #	134 #	76-121	6.8	20
1,2,3,7,8-PECDF	1250	1620	1780	130	142 #	82-130	9.4	20
2,3,4,6,7,8-HXCDF	1250	1460	1560	117	125	81-130	6.6	20
2,3,4,7,8-PECDF	1250	1610	1690	129	135 #	77-129	4.8	20
2,3,7,8-TCDD	500	628	661	126 #	132 #	71-125	5.1	20
2,3,7,8-TCDF	500	653	690	131	138	72-138	5.5	20
OCDD	2500	3290	3620	132	145 #	81-135	9.6	20
OCDF	2500	2730	2610	109	104	66-150	4.5	20
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (	5000	4370	3450	87.4	69.0	40-135		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	4020	3320	80.4	66.4	40-135		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	4840	4280	96.8	85.6	40-135		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	4580	3730	91.6	74.6	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1710	1050	85.5	52.5	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1640	1050	82.0	52.5	40-135		
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1640	1160	82.0	58.0	40-135		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	220927_8290	220927_8290
Extraction Date :	11/7/2022	10/31/2022
Analysis Date :	11/5/2022	11/6/2022
Instrument :	Magneto	Magneto
Run :	221103_HR_52	221106_HR_03
Initials :	LA	

Printed: 11/8/2022 1:51:28 PM

APPL Standard LCSD

Laboratory Control Spike Recoveries

EPA 8290A - DIOXINS & FURANS

APPL ID: 221107W-49413 LCS - 274515

Batch ID: #829ADOD5-274515

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1560	1150	78.0	57.5	40-135		
SURROGATE: 13C-OCDD (S)	10000	8260	5720	82.6	57.2	40-135		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	220927_8290	220927_8290
Extraction Date :	11/7/2022	10/31/2022
Analysis Date :	11/5/2022	11/6/2022
Instrument :	Magneto	Magneto
Run :	221103_HR_52	221106_HR_03
Initials :	LA	

Printed: 11/8/2022 1:51:28 PM

APPL Standard LCSD

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

Rev. 2, October 2, 2018



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Wednesday, May 3, 2023

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A3C0537 - Almeda Post Fire Monitoring-2023 - Almeda Post Fire Monitoring-2023

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C0537, which was received by the laboratory on 3/15/2023 at 11:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.1 degC	Cooler #2	2.6 degC
Cooler #3	2.9 degC		

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Valley View (WVV), OF	A3C0537-01	Water	03/13/23 19:30	03/15/23 11:40
North Ridge Terrace (NRT), OF	A3C0537-02	Water	03/13/23 18:26	03/15/23 11:40
Colver Rd, OF	A3C0537-03	Water	03/13/23 18:59	03/15/23 11:40

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



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ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL CASE NARRATIVE

A3C0537

Apex Laboratories

Amended Report Revision 1:

This report supersedes all previous reports.

Dioxins/Furans Final Results

The initial report issued by APPL Inc. included preliminary results as well as incorrect forms generated for the dioxin/furan analysis. The APPL report has been amended to include the final results and corrected forms.

Michele Poquiz
Forensics Project Manager
4/28/23

Subcontract

This report is complete only when the subcontract laboratory reports are attached from:
ALS Life Sciences - Burlington Laboratory, Canada for polybrominated compound analyses and
Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Michele Poquiz
Forensics Project Manager
4/3/2023

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

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Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)		Matrix: Water			Batch: 23C0979			
Diesel	ND	40.0	80.0	ug/L	1	03/24/23 22:11	NWTPH-Dx LL	
Oil	349	80.0	160	ug/L	1	03/24/23 22:11	NWTPH-Dx LL	F-13
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>03/24/23 22:11</i>	<i>NWTPH-Dx LL</i>	
North Ridge Terrace (NRT), OF (A3C0537-02)		Matrix: Water			Batch: 23C0979			
Diesel	ND	42.1	84.2	ug/L	1	03/24/23 22:31	NWTPH-Dx LL	
Oil	527	84.2	168	ug/L	1	03/24/23 22:31	NWTPH-Dx LL	F-13
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>03/24/23 22:31</i>	<i>NWTPH-Dx LL</i>	
Colver Rd, OF (A3C0537-03)		Matrix: Water			Batch: 23C0979			
Diesel	ND	40.0	80.0	ug/L	1	03/24/23 22:52	NWTPH-Dx LL	
Oil	443	80.0	160	ug/L	1	03/24/23 22:52	NWTPH-Dx LL	F-13
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>03/24/23 22:52</i>	<i>NWTPH-Dx LL</i>	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01RE2)				Matrix: Water		Batch: 23C0838		H-02, R-04
Acenaphthene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Acenaphthylene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Anthracene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Benz(a)anthracene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzo(a)pyrene	ND	0.0652	0.130	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0652	0.130	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0652	0.130	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Chrysene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Fluoranthene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Fluorene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
1-Methylnaphthalene	ND	0.0870	0.174	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Methylnaphthalene	ND	0.0870	0.174	ug/L	4	03/22/23 18:10	EPA 8270E	
Naphthalene	ND	0.0870	0.174	ug/L	4	03/22/23 18:10	EPA 8270E	
Phenanthrene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Pyrene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Carbazole	ND	0.0652	0.130	ug/L	4	03/22/23 18:10	EPA 8270E	
Dibenzofuran	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Chlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4-Dichlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4-Dimethylphenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4-Dinitrophenol	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Methylphenol	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
3+4-Methylphenol(s)	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Nitrophenol	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Nitrophenol	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
Pentachlorophenol (PCP)	0.475	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	J
Phenol	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01RE2)				Matrix: Water		Batch: 23C0838		H-02, R-04
2,3,5,6-Tetrachlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Butyl benzyl phthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Diethylphthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Dimethylphthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Di-n-butylphthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Di-n-octyl phthalate	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
N-Nitrosodimethylamine	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Hexachlorobenzene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Hexachlorobutadiene	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
Hexachloroethane	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Chloronaphthalene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Aniline	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Chloroaniline	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
2-Nitroaniline	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
3-Nitroaniline	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
4-Nitroaniline	ND	0.870	1.74	ug/L	4	03/22/23 18:10	EPA 8270E	
Nitrobenzene	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,4-Dinitrotoluene	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,6-Dinitrotoluene	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzoic acid	ND	5.43	10.9	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzyl alcohol	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



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ORELAP ID: OR100062

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01RE2)				Matrix: Water		Batch: 23C0838		H-02, R-04
Isophorone	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	Q-52
Azobenzene (1,2-DPH)	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzidine	ND	2.17	4.35	ug/L	4	03/22/23 18:10	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	Q-52
3,3'-Dichlorobenzidine	ND	2.17	4.35	ug/L	4	03/22/23 18:10	EPA 8270E	
1,2-Dinitrobenzene	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	
1,3-Dinitrobenzene	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	
1,4-Dinitrobenzene	ND	1.09	2.17	ug/L	4	03/22/23 18:10	EPA 8270E	
Pyridine	ND	0.435	0.870	ug/L	4	03/22/23 18:10	EPA 8270E	
Benzo(e)pyrene	0.0449	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	J
Perylene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,6-Dichlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
2,3,4,5-Tetrachlorophenol	ND	0.217	0.435	ug/L	4	03/22/23 18:10	EPA 8270E	
1,2-Dichlorobenzene	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
1,3-Dichlorobenzene	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
1,4-Dichlorobenzene	ND	0.109	0.217	ug/L	4	03/22/23 18:10	EPA 8270E	
1,1'-Biphenyl	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,3,5-Trimethylnaphthalene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
2,6-Dimethylnaphthalene	ND	0.0435	0.0870	ug/L	4	03/22/23 18:10	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 41 %		Limits: 44-120 %	4	03/22/23 18:10	EPA 8270E	S-03
2-Fluorobiphenyl (Surr)		47 %		44-120 %	4	03/22/23 18:10	EPA 8270E	
Phenol-d6 (Surr)		14 %		10-133 %	4	03/22/23 18:10	EPA 8270E	
p-Terphenyl-d14 (Surr)		77 %		50-134 %	4	03/22/23 18:10	EPA 8270E	
2-Fluorophenol (Surr)		25 %		19-120 %	4	03/22/23 18:10	EPA 8270E	
2,4,6-Tribromophenol (Surr)		87 %		43-140 %	4	03/22/23 18:10	EPA 8270E	
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Acenaphthene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Acenaphthylene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Anthracene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Benz(a)anthracene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzo(a)pyrene	ND	0.0632	0.126	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0632	0.126	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0632	0.126	ug/L	4	03/22/23 18:44	EPA 8270E	

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Benzo(g,h,i)perylene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Chrysene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Fluoranthene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Fluorene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
1-Methylnaphthalene	ND	0.0842	0.168	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Methylnaphthalene	ND	0.0842	0.168	ug/L	4	03/22/23 18:44	EPA 8270E	
Naphthalene	ND	0.0842	0.168	ug/L	4	03/22/23 18:44	EPA 8270E	
Phenanthrene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Pyrene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Carbazole	ND	0.0632	0.126	ug/L	4	03/22/23 18:44	EPA 8270E	
Dibenzofuran	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Chlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4-Dichlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4-Dimethylphenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4-Dinitrophenol	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Methylphenol	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
3+4-Methylphenol(s)	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Nitrophenol	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Nitrophenol	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
Phenol	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
Butyl benzyl phthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
Diethylphthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
Dimethylphthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Di-n-butylphthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
Di-n-octyl phthalate	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
N-Nitrosodimethylamine	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.253	0.253	ug/L	4	03/22/23 18:44	EPA 8270E	R-02
2,2'-Oxybis(1-Chloropropane)	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Hexachlorobenzene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Hexachlorobutadiene	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
Hexachloroethane	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Chloronaphthalene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Aniline	ND	0.211	0.421	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Chloroaniline	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
2-Nitroaniline	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
3-Nitroaniline	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
4-Nitroaniline	ND	0.842	1.68	ug/L	4	03/22/23 18:44	EPA 8270E	
Nitrobenzene	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
2,4-Dinitrotoluene	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
2,6-Dinitrotoluene	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzoic acid	ND	5.26	10.5	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzyl alcohol	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
Isophorone	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzidine	ND	2.11	4.21	ug/L	4	03/22/23 18:44	EPA 8270E	Q-52
Bis(2-Ethylhexyl) adipate	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.11	4.21	ug/L	4	03/22/23 18:44	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	
1,3-Dinitrobenzene	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	

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Central Point, OR 97502Project: Alameda Post Fire Monitoring-2023

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
1,4-Dinitrobenzene	ND	1.05	2.11	ug/L	4	03/22/23 18:44	EPA 8270E	
Pyridine	ND	0.421	0.842	ug/L	4	03/22/23 18:44	EPA 8270E	
Benzo(e)pyrene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
Perylene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
1,2-Dichlorobenzene	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
1,3-Dichlorobenzene	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
1,4-Dichlorobenzene	ND	0.105	0.211	ug/L	4	03/22/23 18:44	EPA 8270E	
1,1'-Biphenyl	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
2,3,5-Trimethylnaphthalene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
2,6-Dimethylnaphthalene	ND	0.0421	0.0842	ug/L	4	03/22/23 18:44	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery:</i>	37 %	<i>Limits:</i>	44-120 %	4	03/22/23 18:44	EPA 8270E S-03
<i>2-Fluorobiphenyl (Surr)</i>			38 %		44-120 %	4	03/22/23 18:44	EPA 8270E S-03
<i>Phenol-d6 (Surr)</i>			11 %		10-133 %	4	03/22/23 18:44	EPA 8270E
<i>p-Terphenyl-d14 (Surr)</i>			82 %		50-134 %	4	03/22/23 18:44	EPA 8270E
<i>2-Fluorophenol (Surr)</i>			22 %		19-120 %	4	03/22/23 18:44	EPA 8270E
<i>2,4,6-Tribromophenol (Surr)</i>			86 %		43-140 %	4	03/22/23 18:44	EPA 8270E
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Acenaphthene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Acenaphthylene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Anthracene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Benz(a)anthracene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzo(a)pyrene	ND	0.0645	0.129	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0645	0.129	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0645	0.129	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Chrysene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Fluoranthene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Fluorene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
1-Methylnaphthalene	ND	0.0860	0.172	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Methylnaphthalene	ND	0.0860	0.172	ug/L	4	03/22/23 19:19	EPA 8270E	
Naphthalene	ND	0.0860	0.172	ug/L	4	03/22/23 19:19	EPA 8270E	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Phenanthrene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Pyrene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Carbazole	ND	0.0645	0.129	ug/L	4	03/22/23 19:19	EPA 8270E	
Dibenzofuran	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Chlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
2,4-Dichlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
2,4-Dimethylphenol	0.284	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	J
2,4-Dinitrophenol	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Methylphenol	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
3+4-Methylphenol(s)	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Nitrophenol	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Nitrophenol	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
Phenol	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Butyl benzyl phthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Diethylphthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Dimethylphthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Di-n-butylphthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Di-n-octyl phthalate	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
N-Nitrosodimethylamine	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Hexachlorobenzene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

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Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water		Batch: 23C0838		H-02, R-04
Hexachlorobutadiene	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
Hexachloroethane	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Chloronaphthalene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Aniline	ND	0.215	0.430	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Chloroaniline	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
2-Nitroaniline	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
3-Nitroaniline	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
4-Nitroaniline	ND	0.860	1.72	ug/L	4	03/22/23 19:19	EPA 8270E	
Nitrobenzene	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
2,4-Dinitrotoluene	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
2,6-Dinitrotoluene	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzoic acid	ND	5.38	10.8	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzyl alcohol	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
Isophorone	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzidine	ND	2.15	4.30	ug/L	4	03/22/23 19:19	EPA 8270E	Q-52
Bis(2-Ethylhexyl) adipate	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.15	4.30	ug/L	4	03/22/23 19:19	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
1,3-Dinitrobenzene	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
1,4-Dinitrobenzene	ND	1.08	2.15	ug/L	4	03/22/23 19:19	EPA 8270E	
Pyridine	ND	0.430	0.860	ug/L	4	03/22/23 19:19	EPA 8270E	
Benzo(e)pyrene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
Perylene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
1,2-Dichlorobenzene	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
1,3-Dichlorobenzene	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
1,4-Dichlorobenzene	ND	0.108	0.215	ug/L	4	03/22/23 19:19	EPA 8270E	
1,1'-Biphenyl	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
2,3,5-Trimethylnaphthalene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	

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Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water		Batch: 23C0838	H-02, R-04	
2,6-Dimethylnaphthalene	ND	0.0430	0.0860	ug/L	4	03/22/23 19:19	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 61 %</i>	<i>Limits: 44-120 %</i>	4	03/22/23 19:19	EPA 8270E	
<i>2-Fluorobiphenyl (Surr)</i>			54 %	44-120 %	4	03/22/23 19:19	EPA 8270E	
<i>Phenol-d6 (Surr)</i>			21 %	10-133 %	4	03/22/23 19:19	EPA 8270E	
<i>p-Terphenyl-d14 (Surr)</i>			77 %	50-134 %	4	03/22/23 19:19	EPA 8270E	
<i>2-Fluorophenol (Surr)</i>			35 %	19-120 %	4	03/22/23 19:19	EPA 8270E	
<i>2,4,6-Tribromophenol (Surr)</i>			97 %	43-140 %	4	03/22/23 19:19	EPA 8270E	

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A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water				
Batch: 23C1136								
Aluminum	3340	25.0	50.0	ug/L	1	03/30/23 00:30	EPA 200.8	J
Antimony	0.787	0.500	1.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Arsenic	1.35	0.500	1.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 00:30	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 00:30	EPA 200.8	
Calcium	20000	375	600	ug/L	1	03/30/23 00:30	EPA 200.8	
Chromium	5.51	1.00	2.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Copper	16.8	1.00	2.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Iron	3710	25.0	50.0	ug/L	1	03/30/23 00:30	EPA 200.8	
Lead	4.34	0.100	0.200	ug/L	1	03/30/23 00:30	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 00:30	EPA 200.8	
Nickel	5.19	1.00	2.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 00:30	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 00:30	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 00:30	EPA 200.8	
Zinc	56.3	2.00	4.00	ug/L	1	03/30/23 00:30	EPA 200.8	
West Valley View (WVV), OF (A3C0537-01RE1)				Matrix: Water				
Batch: 23C1136								
Magnesium	6570	75.0	150	ug/L	1	03/31/23 07:49	EPA 200.8	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water				
Batch: 23C1136								
Aluminum	3100	25.0	50.0	ug/L	1	03/30/23 00:35	EPA 200.8	J
Antimony	0.571	0.500	1.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Arsenic	1.15	0.500	1.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 00:35	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 00:35	EPA 200.8	
Calcium	6490	375	600	ug/L	1	03/30/23 00:35	EPA 200.8	
Chromium	4.87	1.00	2.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Copper	19.6	1.00	2.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Iron	3490	25.0	50.0	ug/L	1	03/30/23 00:35	EPA 200.8	
Lead	2.16	0.100	0.200	ug/L	1	03/30/23 00:35	EPA 200.8	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water				
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 00:35	EPA 200.8	
Nickel	4.62	1.00	2.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 00:35	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 00:35	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 00:35	EPA 200.8	
Zinc	180	2.00	4.00	ug/L	1	03/30/23 00:35	EPA 200.8	
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water				
Batch: 23C1136								
Magnesium	1590	75.0	150	ug/L	1	03/31/23 08:03	EPA 200.8	
Colver Rd, OF (A3C0537-03)				Matrix: Water				
Batch: 23C1136								
Aluminum	3480	25.0	50.0	ug/L	1	03/30/23 00:41	EPA 200.8	
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Arsenic	1.00	0.500	1.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 00:41	EPA 200.8	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 00:41	EPA 200.8	
Calcium	8750	375	600	ug/L	1	03/30/23 00:41	EPA 200.8	
Chromium	5.97	1.00	2.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Copper	13.5	1.00	2.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Iron	3320	25.0	50.0	ug/L	1	03/30/23 00:41	EPA 200.8	
Lead	2.74	0.100	0.200	ug/L	1	03/30/23 00:41	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 00:41	EPA 200.8	
Nickel	4.99	1.00	2.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 00:41	EPA 200.8	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 00:41	EPA 200.8	
Zinc	52.4	2.00	4.00	ug/L	1	03/30/23 00:41	EPA 200.8	
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water				
Batch: 23C1136								
Magnesium	2710	75.0	150	ug/L	1	03/31/23 08:08	EPA 200.8	

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Project Manager: Greg Stabach

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ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water		(Calculated)		
Hardness	76.9	---	2.12	mg CaCO3/L	1	03/31/23 07:49	SM 2340B	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water		(Calculated)		
Hardness	22.7	---	2.12	mg CaCO3/L	1	03/31/23 08:03	SM 2340B	
Colver Rd, OF (A3C0537-03)				Matrix: Water		(Calculated)		
Hardness	33.0	---	2.12	mg CaCO3/L	1	03/31/23 08:08	SM 2340B	

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ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water				
Batch: 23C0630								
Nitrate-Nitrogen	0.282	0.125	0.250	mg/L	1	03/17/23 14:35	EPA 300.0	H-01
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/17/23 14:35	EPA 300.0	H-01
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water				
Batch: 23C0630								
Nitrate-Nitrogen	0.321	0.125	0.250	mg/L	1	03/17/23 14:57	EPA 300.0	H-01
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/17/23 14:57	EPA 300.0	H-01
Colver Rd, OF (A3C0537-03)				Matrix: Water				
Batch: 23C0630								
Nitrate-Nitrogen	0.435	0.125	0.250	mg/L	1	03/17/23 16:46	EPA 300.0	H-01
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	03/17/23 16:46	EPA 300.0	H-01

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water		Batch: 23C0955		
Total Kjeldahl Nitrogen (TKN)	0.738	---	0.200	mg/L	1	03/27/23 13:34	EPA 351.2	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water		Batch: 23C0955		
Total Kjeldahl Nitrogen (TKN)	1.32	---	0.200	mg/L	1	03/27/23 13:35	EPA 351.2	
Colver Rd, OF (A3C0537-03)				Matrix: Water		Batch: 23C0955		
Total Kjeldahl Nitrogen (TKN)	0.774	---	0.200	mg/L	1	03/27/23 13:44	EPA 351.2	

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

ANALYTICAL SAMPLE RESULTS

Total Nitrogen by Calculation

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.02	---	0.700	mg/L	1	03/27/23 13:34	EPA 351.2	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.64	---	0.700	mg/L	1	03/27/23 13:35	EPA 351.2	
Colver Rd, OF (A3C0537-03)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.21	---	0.700	mg/L	1	03/27/23 13:44	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01RE1)				Matrix: Water		Batch: 23C0790		
Total Organic Carbon	5.38	1.00	1.00	mg/L	1	03/23/23 16:40	SM 5310 C	
North Ridge Terrace (NRT), OF (A3C0537-02RE1)				Matrix: Water		Batch: 23C0790		
Total Organic Carbon	7.38	1.00	1.00	mg/L	1	03/23/23 17:13	SM 5310 C	
Colver Rd, OF (A3C0537-03RE1)				Matrix: Water		Batch: 23C0790		
Total Organic Carbon	9.41	1.00	1.00	mg/L	1	03/23/23 17:47	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water		Batch: 23C0963		
Phosphorus	0.160	0.0500	0.100	mg/L	1	03/24/23 17:43	SM 4500-P E	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water		Batch: 23C0963		
Phosphorus	0.207	0.0500	0.100	mg/L	1	03/24/23 17:44	SM 4500-P E	
Colver Rd, OF (A3C0537-03)				Matrix: Water		Batch: 23C0963		
Phosphorus	0.260	0.0500	0.100	mg/L	1	03/24/23 17:44	SM 4500-P E	

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3C0537-01)				Matrix: Water		Batch: 23C0704		
Total Suspended Solids	94.7	1.64	1.64	mg/L	1	03/17/23 18:21	D3977-97 (19)	
North Ridge Terrace (NRT), OF (A3C0537-02)				Matrix: Water		Batch: 23C0704		
Total Suspended Solids	35.8	1.66	1.66	mg/L	1	03/17/23 18:21	D3977-97 (19)	
Colver Rd, OF (A3C0537-03)				Matrix: Water		Batch: 23C0704		
Total Suspended Solids	21.1	1.67	1.67	mg/L	1	03/17/23 18:21	D3977-97 (19)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23C0979 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23C0979-BLK1)			Prepared: 03/24/23 11:49		Analyzed: 03/24/23 21:11								
<u>NWTPH-Dx LL</u>													
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---		
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x							
LCS (23C0979-BS1)			Prepared: 03/24/23 11:49		Analyzed: 03/24/23 21:31								
<u>NWTPH-Dx LL</u>													
Diesel	277	40.0	80.0	ug/L	1	500	---	55	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (23C0979-BSD1)			Prepared: 03/24/23 11:49		Analyzed: 03/24/23 21:51								Q-19
<u>NWTPH-Dx LL</u>													
Diesel	292	40.0	80.0	ug/L	1	500	---	58	36-132%	5	30%		
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x							

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23C0838-BLK1)			Prepared: 03/22/23 06:19		Analyzed: 03/22/23 16:25							
EPA 8270E												
Acenaphthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23C0838-BLK1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 16:25						
2,3,5,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.25	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23C0838-BLK1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 16:25						
Azobenzene (1,2-DPH)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Benzidine	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Benzo(e)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,1'-Biphenyl	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,3,5-Trimethylnaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,6-Dimethylnaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr) Recovery: 57 % Limits: 44-120 % Dilution: 1x												
2-Fluorobiphenyl (Surr) 51 % 44-120 % "												
Phenol-d6 (Surr) 19 % 10-133 % "												
p-Terphenyl-d14 (Surr) 83 % 50-134 % "												
2-Fluorophenol (Surr) 32 % 19-120 % "												
2,4,6-Tribromophenol (Surr) 68 % 43-140 % "												

LCS (23C0838-BS1)

Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:00

EPA 8270E

Acenaphthene	3.14	0.0400	0.0800	ug/L	4	4.00	---	79	47-122%	---	---
Acenaphthylene	3.38	0.0400	0.0800	ug/L	4	4.00	---	85	41-130%	---	---
Anthracene	3.74	0.0400	0.0800	ug/L	4	4.00	---	93	57-123%	---	---
Benz(a)anthracene	3.85	0.0400	0.0800	ug/L	4	4.00	---	96	58-125%	---	---
Benzo(a)pyrene	3.90	0.0600	0.120	ug/L	4	4.00	---	97	54-128%	---	---
Benzo(b)fluoranthene	3.94	0.0600	0.120	ug/L	4	4.00	---	98	53-131%	---	---
Benzo(k)fluoranthene	3.79	0.0600	0.120	ug/L	4	4.00	---	95	57-129%	---	---
Benzo(g,h,i)perylene	3.86	0.0400	0.0800	ug/L	4	4.00	---	97	50-134%	---	---
Chrysene	3.75	0.0400	0.0800	ug/L	4	4.00	---	94	59-123%	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23C0838-BS1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:00						
Dibenz(a,h)anthracene	3.80	0.0400	0.0800	ug/L	4	4.00	---	95	51-134%	---	---	
Fluoranthene	3.96	0.0400	0.0800	ug/L	4	4.00	---	99	57-128%	---	---	
Fluorene	3.60	0.0400	0.0800	ug/L	4	4.00	---	90	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.80	0.0400	0.0800	ug/L	4	4.00	---	95	52-134%	---	---	
1-Methylnaphthalene	2.91	0.0800	0.160	ug/L	4	4.00	---	73	41-120%	---	---	
2-Methylnaphthalene	2.93	0.0800	0.160	ug/L	4	4.00	---	73	40-121%	---	---	
Naphthalene	2.61	0.0800	0.160	ug/L	4	4.00	---	65	40-121%	---	---	
Phenanthrene	3.52	0.0400	0.0800	ug/L	4	4.00	---	88	59-120%	---	---	
Pyrene	3.94	0.0400	0.0800	ug/L	4	4.00	---	99	57-126%	---	---	
Carbazole	3.89	0.0600	0.120	ug/L	4	4.00	---	97	60-122%	---	---	
Dibenzofuran	3.44	0.0400	0.0800	ug/L	4	4.00	---	86	53-120%	---	---	
2-Chlorophenol	2.95	0.200	0.400	ug/L	4	4.00	---	74	38-120%	---	---	
4-Chloro-3-methylphenol	3.66	0.400	0.800	ug/L	4	4.00	---	92	52-120%	---	---	
2,4-Dichlorophenol	3.50	0.200	0.400	ug/L	4	4.00	---	88	47-121%	---	---	
2,4-Dimethylphenol	3.26	0.200	0.400	ug/L	4	4.00	---	81	31-124%	---	---	
2,4-Dinitrophenol	5.48	1.00	2.00	ug/L	4	4.00	---	137	23-143%	---	---	Q-41
4,6-Dinitro-2-methylphenol	5.14	1.00	2.00	ug/L	4	4.00	---	128	44-137%	---	---	Q-41
2-Methylphenol	2.69	0.100	0.200	ug/L	4	4.00	---	67	30-120%	---	---	
3+4-Methylphenol(s)	2.45	0.100	0.200	ug/L	4	4.00	---	61	29-120%	---	---	
2-Nitrophenol	3.77	0.400	0.800	ug/L	4	4.00	---	94	47-123%	---	---	Q-41
4-Nitrophenol	1.22	0.400	0.800	ug/L	4	4.00	---	30	10-120%	---	---	
Pentachlorophenol (PCP)	3.11	0.400	0.800	ug/L	4	4.00	---	78	35-138%	---	---	
Phenol	1.33	0.800	0.800	ug/L	4	4.00	---	33	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.87	0.200	0.400	ug/L	4	4.00	---	97	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.79	0.200	0.400	ug/L	4	4.00	---	95	50-121%	---	---	
2,4,5-Trichlorophenol	3.85	0.200	0.400	ug/L	4	4.00	---	96	53-123%	---	---	
2,4,6-Trichlorophenol	3.60	0.200	0.400	ug/L	4	4.00	---	90	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.43	0.800	1.60	ug/L	4	4.00	---	86	55-135%	---	---	
Butyl benzyl phthalate	3.67	0.800	1.60	ug/L	4	4.00	---	92	53-134%	---	---	
Diethylphthalate	3.76	0.800	1.60	ug/L	4	4.00	---	94	56-125%	---	---	
Dimethylphthalate	3.78	0.800	1.60	ug/L	4	4.00	---	95	45-127%	---	---	
Di-n-butylphthalate	3.94	0.800	1.60	ug/L	4	4.00	---	99	59-127%	---	---	
Di-n-octyl phthalate	3.82	0.800	1.60	ug/L	4	4.00	---	96	51-140%	---	---	
N-Nitrosodimethylamine	1.76	0.100	0.200	ug/L	4	4.00	---	44	19-120%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23C0838-BS1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:00						
N-Nitroso-di-n-propylamine	3.59	0.100	0.200	ug/L	4	4.00	---	90	49-120%	---	---	
N-Nitrosodiphenylamine	3.59	0.100	0.200	ug/L	4	4.00	---	90	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.19	0.100	0.200	ug/L	4	4.00	---	80	48-120%	---	---	
Bis(2-Chloroethyl) ether	2.92	0.100	0.200	ug/L	4	4.00	---	73	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	2.73	0.100	0.200	ug/L	4	4.00	---	68	41-120%	---	---	
Hexachlorobenzene	3.63	0.0400	0.0800	ug/L	4	4.00	---	91	53-125%	---	---	
Hexachlorobutadiene	2.01	0.100	0.200	ug/L	4	4.00	---	50	22-124%	---	---	
Hexachlorocyclopentadiene	2.13	0.200	0.400	ug/L	4	4.00	---	53	10-127%	---	---	
Hexachloroethane	1.85	0.100	0.200	ug/L	4	4.00	---	46	21-120%	---	---	
2-Chloronaphthalene	2.93	0.0400	0.0800	ug/L	4	4.00	---	73	40-120%	---	---	
1,2,4-Trichlorobenzene	2.36	0.100	0.200	ug/L	4	4.00	---	59	29-120%	---	---	
4-Bromophenyl phenyl ether	3.67	0.100	0.200	ug/L	4	4.00	---	92	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.65	0.100	0.200	ug/L	4	4.00	---	91	53-121%	---	---	
Aniline	1.85	0.200	0.400	ug/L	4	4.00	---	46	10-120%	---	---	
4-Chloroaniline	2.99	0.100	0.200	ug/L	4	4.00	---	75	33-120%	---	---	Q-41
2-Nitroaniline	3.68	0.800	1.60	ug/L	4	4.00	---	92	55-127%	---	---	
3-Nitroaniline	3.98	0.800	1.60	ug/L	4	4.00	---	99	41-128%	---	---	Q-41
4-Nitroaniline	4.08	0.800	1.60	ug/L	4	4.00	---	102	25-120%	---	---	
Nitrobenzene	3.16	0.400	0.800	ug/L	4	4.00	---	79	45-121%	---	---	
2,4-Dinitrotoluene	3.98	0.400	0.800	ug/L	4	4.00	---	99	57-128%	---	---	
2,6-Dinitrotoluene	3.71	0.400	0.800	ug/L	4	4.00	---	93	57-124%	---	---	
Benzoic acid	4.60	4.00	4.00	ug/L	4	8.00	---	58	10-120%	---	---	Q-41
Benzyl alcohol	2.60	0.400	0.800	ug/L	4	4.00	---	65	31-120%	---	---	
Isophorone	3.33	0.100	0.200	ug/L	4	4.00	---	83	42-124%	---	---	
Azobenzene (1,2-DPH)	3.00	0.100	0.200	ug/L	4	4.00	---	75	61-120%	---	---	
Benzidine	1.11	0.800	0.800	ug/L	4	8.00	---	14	10-127%	---	---	Q-41, Q-52
Bis(2-Ethylhexyl) adipate	3.67	1.00	2.00	ug/L	4	4.00	---	92	63-121%	---	---	
3,3'-Dichlorobenzidine	20.9	2.00	4.00	ug/L	4	8.00	---	262	27-129%	---	---	Q-29, Q-41, Q-52
1,2-Dinitrobenzene	3.91	1.00	2.00	ug/L	4	4.00	---	98	59-120%	---	---	
1,3-Dinitrobenzene	3.80	1.00	2.00	ug/L	4	4.00	---	95	49-128%	---	---	
1,4-Dinitrobenzene	4.01	1.00	2.00	ug/L	4	4.00	---	100	54-120%	---	---	
Pyridine	1.36	0.400	0.800	ug/L	4	4.00	---	34	10-120%	---	---	
Benzo(e)pyrene	3.88	0.0400	0.0800	ug/L	4	4.00	---	97	67-120%	---	---	
Perylene	3.88	0.0400	0.0800	ug/L	4	4.00	---	97	62-130%	---	---	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23C0838-BS1)			Prepared: 03/22/23 06:19		Analyzed: 03/22/23 17:00							
1,2-Dichlorobenzene	2.10	0.100	0.200	ug/L	4	4.00	---	53	32-120%	---	---	
1,3-Dichlorobenzene	1.97	0.100	0.200	ug/L	4	4.00	---	49	28-120%	---	---	
1,4-Dichlorobenzene	2.00	0.100	0.200	ug/L	4	4.00	---	50	29-120%	---	---	
1,1'-Biphenyl	3.14	0.0400	0.0800	ug/L	4	4.00	---	79	49-120%	---	---	
2,3,5-Trimethylnaphthalene	3.49	0.0400	0.0800	ug/L	4	4.00	---	87	47-120%	---	---	
2,6-Dimethylnaphthalene	3.10	0.0400	0.0800	ug/L	4	4.00	---	77	35-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 78 %		Limits: 44-120 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		69 %		44-120 %		"						
Phenol-d6 (Surr)		26 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		94 %		50-134 %		"						
2-Fluorophenol (Surr)		42 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		94 %		43-140 %		"						
LCS Dup (23C0838-BSD1)			Prepared: 03/22/23 06:19		Analyzed: 03/22/23 17:35							Q-19
EPA 8270E												
Acenaphthene	2.91	0.0400	0.0800	ug/L	4	4.00	---	73	47-122%	8	30%	
Acenaphthylene	3.17	0.0400	0.0800	ug/L	4	4.00	---	79	41-130%	7	30%	
Anthracene	3.56	0.0400	0.0800	ug/L	4	4.00	---	89	57-123%	5	30%	
Benz(a)anthracene	3.71	0.0400	0.0800	ug/L	4	4.00	---	93	58-125%	4	30%	
Benzo(a)pyrene	3.91	0.0600	0.120	ug/L	4	4.00	---	98	54-128%	0.5	30%	
Benzo(b)fluoranthene	3.97	0.0600	0.120	ug/L	4	4.00	---	99	53-131%	0.8	30%	
Benzo(k)fluoranthene	3.80	0.0600	0.120	ug/L	4	4.00	---	95	57-129%	0.2	30%	
Benzo(g,h,i)perylene	3.65	0.0400	0.0800	ug/L	4	4.00	---	91	50-134%	6	30%	
Chrysene	3.62	0.0400	0.0800	ug/L	4	4.00	---	91	59-123%	4	30%	
Dibenz(a,h)anthracene	3.72	0.0400	0.0800	ug/L	4	4.00	---	93	51-134%	2	30%	
Fluoranthene	3.89	0.0400	0.0800	ug/L	4	4.00	---	97	57-128%	2	30%	
Fluorene	3.29	0.0400	0.0800	ug/L	4	4.00	---	82	52-124%	9	30%	
Indeno(1,2,3-cd)pyrene	3.69	0.0400	0.0800	ug/L	4	4.00	---	92	52-134%	3	30%	
1-Methylnaphthalene	2.66	0.0800	0.160	ug/L	4	4.00	---	66	41-120%	9	30%	
2-Methylnaphthalene	2.72	0.0800	0.160	ug/L	4	4.00	---	68	40-121%	7	30%	
Naphthalene	2.47	0.0800	0.160	ug/L	4	4.00	---	62	40-121%	6	30%	
Phenanthrene	3.26	0.0400	0.0800	ug/L	4	4.00	---	82	59-120%	8	30%	
Pyrene	3.87	0.0400	0.0800	ug/L	4	4.00	---	97	57-126%	2	30%	
Carbazole	3.71	0.0600	0.120	ug/L	4	4.00	---	93	60-122%	5	30%	

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (23C0838-BSD1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:35						Q-19
Dibenzofuran	3.12	0.0400	0.0800	ug/L	4	4.00	---	78	53-120%	10	30%	
2-Chlorophenol	2.52	0.200	0.400	ug/L	4	4.00	---	63	38-120%	16	30%	
4-Chloro-3-methylphenol	3.11	0.400	0.800	ug/L	4	4.00	---	78	52-120%	16	30%	
2,4-Dichlorophenol	3.05	0.200	0.400	ug/L	4	4.00	---	76	47-121%	14	30%	
2,4-Dimethylphenol	2.94	0.200	0.400	ug/L	4	4.00	---	73	31-124%	10	30%	
2,4-Dinitrophenol	5.35	1.00	2.00	ug/L	4	4.00	---	134	23-143%	2	30%	Q-41
4,6-Dinitro-2-methylphenol	5.06	1.00	2.00	ug/L	4	4.00	---	127	44-137%	2	30%	Q-41
2-Methylphenol	2.19	0.100	0.200	ug/L	4	4.00	---	55	30-120%	20	30%	
3+4-Methylphenol(s)	1.96	0.100	0.200	ug/L	4	4.00	---	49	29-120%	22	30%	
2-Nitrophenol	3.48	0.400	0.800	ug/L	4	4.00	---	87	47-123%	8	30%	Q-41
4-Nitrophenol	1.22	0.400	0.800	ug/L	4	4.00	---	31	10-120%	0.6	30%	
Pentachlorophenol (PCP)	3.07	0.400	0.800	ug/L	4	4.00	---	77	35-138%	1	30%	
Phenol	1.12	0.800	0.800	ug/L	4	4.00	---	28	10-120%	17	30%	
2,3,4,6-Tetrachlorophenol	3.57	0.200	0.400	ug/L	4	4.00	---	89	50-128%	8	30%	
2,3,5,6-Tetrachlorophenol	3.44	0.200	0.400	ug/L	4	4.00	---	86	50-121%	10	30%	
2,4,5-Trichlorophenol	3.46	0.200	0.400	ug/L	4	4.00	---	87	53-123%	11	30%	
2,4,6-Trichlorophenol	3.21	0.200	0.400	ug/L	4	4.00	---	80	50-125%	12	30%	
Bis(2-ethylhexyl)phthalate	3.42	0.800	1.60	ug/L	4	4.00	---	85	55-135%	0.4	30%	
Butyl benzyl phthalate	3.60	0.800	1.60	ug/L	4	4.00	---	90	53-134%	2	30%	
Diethylphthalate	3.46	0.800	1.60	ug/L	4	4.00	---	86	56-125%	8	30%	
Dimethylphthalate	3.43	0.800	1.60	ug/L	4	4.00	---	86	45-127%	10	30%	
Di-n-butylphthalate	3.96	0.800	1.60	ug/L	4	4.00	---	99	59-127%	0.3	30%	
Di-n-octyl phthalate	3.93	0.800	1.60	ug/L	4	4.00	---	98	51-140%	3	30%	
N-Nitrosodimethylamine	1.60	0.100	0.200	ug/L	4	4.00	---	40	19-120%	9	30%	
N-Nitroso-di-n-propylamine	2.91	0.100	0.200	ug/L	4	4.00	---	73	49-120%	21	30%	
N-Nitrosodiphenylamine	3.27	0.100	0.200	ug/L	4	4.00	---	82	51-123%	9	30%	
Bis(2-Chloroethoxy) methane	2.77	0.100	0.200	ug/L	4	4.00	---	69	48-120%	14	30%	
Bis(2-Chloroethyl) ether	2.57	0.100	0.200	ug/L	4	4.00	---	64	43-120%	13	30%	
2,2'-Oxybis(1-Chloropropane)	2.33	0.100	0.200	ug/L	4	4.00	---	58	41-120%	16	30%	
Hexachlorobenzene	3.42	0.0400	0.0800	ug/L	4	4.00	---	85	53-125%	6	30%	
Hexachlorobutadiene	2.13	0.100	0.200	ug/L	4	4.00	---	53	22-124%	6	30%	
Hexachlorocyclopentadiene	2.24	0.200	0.400	ug/L	4	4.00	---	56	10-127%	5	30%	
Hexachloroethane	1.88	0.100	0.200	ug/L	4	4.00	---	47	21-120%	2	30%	
2-Chloronaphthalene	2.74	0.0400	0.0800	ug/L	4	4.00	---	68	40-120%	7	30%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2023

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (23C0838-BSD1)						Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:35						Q-19
1,2,4-Trichlorobenzene	2.35	0.100	0.200	ug/L	4	4.00	---	59	29-120%	0.6	30%	
4-Bromophenyl phenyl ether	3.45	0.100	0.200	ug/L	4	4.00	---	86	55-124%	6	30%	
4-Chlorophenyl phenyl ether	3.33	0.100	0.200	ug/L	4	4.00	---	83	53-121%	9	30%	
Aniline	1.99	0.200	0.400	ug/L	4	4.00	---	50	10-120%	7	30%	
4-Chloroaniline	2.35	0.100	0.200	ug/L	4	4.00	---	59	33-120%	24	30%	Q-41
2-Nitroaniline	3.28	0.800	1.60	ug/L	4	4.00	---	82	55-127%	12	30%	
3-Nitroaniline	3.47	0.800	1.60	ug/L	4	4.00	---	87	41-128%	14	30%	Q-41
4-Nitroaniline	3.79	0.800	1.60	ug/L	4	4.00	---	95	25-120%	7	30%	
Nitrobenzene	2.62	0.400	0.800	ug/L	4	4.00	---	65	45-121%	19	30%	
2,4-Dinitrotoluene	3.65	0.400	0.800	ug/L	4	4.00	---	91	57-128%	9	30%	
2,6-Dinitrotoluene	3.36	0.400	0.800	ug/L	4	4.00	---	84	57-124%	10	30%	
Benzoic acid	4.41	4.00	4.00	ug/L	4	8.00	---	55	10-120%	4	30%	Q-41
Benzyl alcohol	2.08	0.400	0.800	ug/L	4	4.00	---	52	31-120%	22	30%	
Isophorone	2.97	0.100	0.200	ug/L	4	4.00	---	74	42-124%	12	30%	
Azobenzene (1,2-DPH)	2.74	0.100	0.200	ug/L	4	4.00	---	69	61-120%	9	30%	
Benzidine	3.63	2.00	2.00	ug/L	4	8.00	---	45	10-127%	106	30%	Q-41, Q-52
Bis(2-Ethylhexyl) adipate	3.59	1.00	2.00	ug/L	4	4.00	---	90	63-121%	2	30%	
3,3'-Dichlorobenzidine	20.5	2.00	4.00	ug/L	4	8.00	---	256	27-129%	2	30%	Q-41, Q-52, Q-29
1,2-Dinitrobenzene	3.52	1.00	2.00	ug/L	4	4.00	---	88	59-120%	11	30%	
1,3-Dinitrobenzene	3.46	1.00	2.00	ug/L	4	4.00	---	87	49-128%	9	30%	
1,4-Dinitrobenzene	3.65	1.00	2.00	ug/L	4	4.00	---	91	54-120%	9	30%	
Pyridine	1.52	0.400	0.800	ug/L	4	4.00	---	38	10-120%	11	30%	
Benzo(e)pyrene	3.85	0.0400	0.0800	ug/L	4	4.00	---	96	67-120%	0.9	30%	
Perylene	3.92	0.0400	0.0800	ug/L	4	4.00	---	98	62-130%	1	30%	
1,2-Dichlorobenzene	2.03	0.100	0.200	ug/L	4	4.00	---	51	32-120%	3	30%	
1,3-Dichlorobenzene	1.96	0.100	0.200	ug/L	4	4.00	---	49	28-120%	0.8	30%	
1,4-Dichlorobenzene	1.96	0.100	0.200	ug/L	4	4.00	---	49	29-120%	2	30%	
1,1'-Biphenyl	2.93	0.0400	0.0800	ug/L	4	4.00	---	73	49-120%	7	30%	
2,3,5-Trimethylnaphthalene	3.19	0.0400	0.0800	ug/L	4	4.00	---	80	47-120%	9	30%	
2,6-Dimethylnaphthalene	2.89	0.0400	0.0800	ug/L	4	4.00	---	72	35-120%	7	30%	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 65 %		Limits: 44-120 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		65 %		44-120 %		"						
Phenol-d6 (Surr)		22 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		94 %		50-134 %		"						

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0838 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (23C0838-BSD1)		Prepared: 03/22/23 06:19 Analyzed: 03/22/23 17:35										Q-19
Surr: 2-Fluorophenol (Surr)		Recovery:	37 %	Limits:	19-120 %	Dilution:	4x					
2,4,6-Tribromophenol (Surr)			89 %		43-140 %		"					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1136 - EPA 3015A						Water						
Blank (23C1136-BLK1)				Prepared: 03/29/23 06:44 Analyzed: 03/30/23 00:19								
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	0.124	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
LCS (23C1136-BS1)				Prepared: 03/29/23 06:44 Analyzed: 03/30/23 00:25								
EPA 200.8												
Aluminum	2910	25.0	50.0	ug/L	1	2780	---	105	85-115%	---	---	
Antimony	27.1	0.500	1.00	ug/L	1	27.8	---	98	85-115%	---	---	
Arsenic	54.6	0.500	1.00	ug/L	1	55.6	---	98	85-115%	---	---	
Beryllium	26.2	0.100	0.200	ug/L	1	27.8	---	94	85-115%	---	---	
Cadmium	54.1	0.100	0.200	ug/L	1	55.6	---	97	85-115%	---	---	
Calcium	2830	375	600	ug/L	1	2780	---	102	85-115%	---	---	
Chromium	56.9	1.00	2.00	ug/L	1	55.6	---	102	85-115%	---	---	
Copper	58.1	1.00	2.00	ug/L	1	55.6	---	105	85-115%	---	---	
Iron	2930	25.0	50.0	ug/L	1	2780	---	106	85-115%	---	---	
Lead	51.8	0.100	0.200	ug/L	1	55.6	---	93	85-115%	---	---	
Magnesium	3090	75.0	150	ug/L	1	2780	---	111	85-115%	---	---	Q-41
Mercury	1.01	0.0400	0.0800	ug/L	1	1.11	---	91	85-115%	---	---	
Nickel	57.3	1.00	2.00	ug/L	1	55.6	---	103	85-115%	---	---	

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AMENDED REPORT

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503-718-2323

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1136 - EPA 3015A						Water						
LCS (23C1136-BS1)			Prepared: 03/29/23 06:44		Analyzed: 03/30/23 00:25							
Selenium	27.5	0.500	1.00	ug/L	1	27.8	---	99	85-115%	---	---	
Silver	26.6	0.100	0.200	ug/L	1	27.8	---	96	85-115%	---	---	
Thallium	27.8	0.100	0.200	ug/L	1	27.8	---	100	85-115%	---	---	
Zinc	59.8	2.00	4.00	ug/L	1	55.6	---	108	85-115%	---	---	
Duplicate (23C1136-DUP1)			Prepared: 03/29/23 06:44		Analyzed: 03/30/23 00:51							
QC Source Sample: Non-SDG (A3C0584-01)												
Aluminum	107	25.0	50.0	ug/L	1	---	104	---	---	3	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Calcium	ND	375	600	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	5.12	1.00	2.00	ug/L	1	---	4.68	---	---	9	20%	
Iron	352	25.0	50.0	ug/L	1	---	341	---	---	3	20%	
Lead	2.49	0.100	0.200	ug/L	1	---	2.31	---	---	8	20%	
Magnesium	ND	75.0	150	ug/L	1	---	ND	---	---	---	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	1.09	1.00	2.00	ug/L	1	---	1.05	---	---	4	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Zinc	74.2	2.00	4.00	ug/L	1	---	70.4	---	---	5	20%	

Matrix Spike (23C1136-MS1)

Prepared: 03/29/23 06:44 Analyzed: 03/30/23 00:57

QC Source Sample: Non-SDG (A3C0584-01)EPA 200.8

Aluminum	2870	25.0	50.0	ug/L	1	2780	104	100	70-130%	---	---	
Antimony	26.0	0.500	1.00	ug/L	1	27.8	ND	93	70-130%	---	---	
Arsenic	52.3	0.500	1.00	ug/L	1	55.6	ND	94	70-130%	---	---	
Beryllium	25.0	0.100	0.200	ug/L	1	27.8	ND	90	70-130%	---	---	
Cadmium	52.0	0.100	0.200	ug/L	1	55.6	ND	94	70-130%	---	---	
Calcium	3140	375	600	ug/L	1	2780	ND	113	70-130%	---	---	

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AMENDED REPORT

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1136 - EPA 3015A						Water						
Matrix Spike (23C1136-MS1)				Prepared: 03/29/23 06:44 Analyzed: 03/30/23 00:57								
QC Source Sample: Non-SDG (A3C0584-01)												
Chromium	55.6	1.00	2.00	ug/L	1	55.6	ND	100	70-130%	---	---	Q-41
Copper	61.1	1.00	2.00	ug/L	1	55.6	4.68	102	70-130%	---	---	
Iron	3380	25.0	50.0	ug/L	1	2780	341	109	70-130%	---	---	
Lead	51.9	0.100	0.200	ug/L	1	55.6	2.31	89	70-130%	---	---	
Magnesium	2920	75.0	150	ug/L	1	2780	ND	105	70-130%	---	---	
Mercury	0.942	0.0400	0.0800	ug/L	1	1.11	ND	85	70-130%	---	---	
Nickel	56.1	1.00	2.00	ug/L	1	55.6	1.05	99	70-130%	---	---	
Selenium	28.1	0.500	1.00	ug/L	1	27.8	ND	101	70-130%	---	---	
Silver	25.5	0.100	0.200	ug/L	1	27.8	ND	92	70-130%	---	---	
Thallium	26.4	0.100	0.200	ug/L	1	27.8	ND	95	70-130%	---	---	
Zinc	129	2.00	4.00	ug/L	1	55.6	70.4	105	70-130%	---	---	
Matrix Spike (23C1136-MS2)				Prepared: 03/29/23 06:44 Analyzed: 03/30/23 01:18								
QC Source Sample: Non-SDG (A3C0584-02)												
EPA 200.8												
Aluminum	2990	25.0	50.0	ug/L	1	2780	140	103	70-130%	---	---	Q-41
Antimony	26.3	0.500	1.00	ug/L	1	27.8	ND	95	70-130%	---	---	
Arsenic	53.7	0.500	1.00	ug/L	1	55.6	0.856	95	70-130%	---	---	
Beryllium	24.8	0.100	0.200	ug/L	1	27.8	ND	89	70-130%	---	---	
Cadmium	52.7	0.100	0.200	ug/L	1	55.6	ND	95	70-130%	---	---	
Calcium	3270	375	600	ug/L	1	2780	523	99	70-130%	---	---	
Chromium	56.6	1.00	2.00	ug/L	1	55.6	ND	102	70-130%	---	---	
Copper	62.8	1.00	2.00	ug/L	1	55.6	5.42	103	70-130%	---	---	
Iron	3180	25.0	50.0	ug/L	1	2780	279	105	70-130%	---	---	
Lead	50.0	0.100	0.200	ug/L	1	55.6	1.29	88	70-130%	---	---	
Magnesium	3130	75.0	150	ug/L	1	2780	133	108	70-130%	---	---	
Mercury	0.942	0.0400	0.0800	ug/L	1	1.11	ND	85	70-130%	---	---	
Nickel	57.3	1.00	2.00	ug/L	1	55.6	ND	103	70-130%	---	---	
Selenium	26.9	0.500	1.00	ug/L	1	27.8	ND	97	70-130%	---	---	
Silver	26.0	0.100	0.200	ug/L	1	27.8	ND	94	70-130%	---	---	
Thallium	27.1	0.100	0.200	ug/L	1	27.8	ND	98	70-130%	---	---	
Zinc	83.4	2.00	4.00	ug/L	1	55.6	27.1	101	70-130%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

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Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0630 - Method Prep: Aq						Water						
Blank (23C0630-BLK1)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 07:20									
EPA 300.0												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
LCS (23C0630-BS1)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 07:42									
EPA 300.0												
Nitrate-Nitrogen	2.14	0.125	0.250	mg/L	1	2.00	---	107	90-110%	---	---	
Nitrite-Nitrogen	2.10	0.125	0.250	mg/L	1	2.00	---	105	90-110%	---	---	
Duplicate (23C0630-DUP1)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 13:08									
QC Source Sample: Non-SDG (A3C0527-02)												
Nitrate-Nitrogen	2.55	0.125	0.250	mg/L	1	---	2.56	---	---	0.2	3%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Duplicate (23C0630-DUP2)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 15:19									
QC Source Sample: North Ridge Terrace (NRT), OF (A3C0537-02)												
EPA 300.0												
Nitrate-Nitrogen	0.319	0.125	0.250	mg/L	1	---	0.321	---	---	0.8	3%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (23C0630-MS1)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 13:30									
QC Source Sample: Non-SDG (A3C0527-02)												
EPA 300.0												
Nitrate-Nitrogen	5.48	0.156	0.312	mg/L	1	2.50	2.56	117	87-112%	---	---	Q-01
Nitrite-Nitrogen	2.88	0.156	0.312	mg/L	1	2.50	ND	115	90-114%	---	---	Q-01
Matrix Spike (23C0630-MS2)			Prepared: 03/16/23 12:02 Analyzed: 03/17/23 16:24									
QC Source Sample: North Ridge Terrace (NRT), OF (A3C0537-02)												
EPA 300.0												
Nitrate-Nitrogen	2.82	0.156	0.312	mg/L	1	2.50	0.321	100	87-112%	---	---	
Nitrite-Nitrogen	2.48	0.156	0.312	mg/L	1	2.50	ND	99	90-114%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0955 - TKN block digestion						Water						
Blank (23C0955-BLK1)			Prepared: 03/24/23 08:10 Analyzed: 03/27/23 13:17									
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	ND	---	0.200	mg/L	1	---	---	---	---	---	---	
LCS (23C0955-BS1)			Prepared: 03/24/23 08:10 Analyzed: 03/27/23 13:19									
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	4.61	---	0.200	mg/L	1	5.00	---	92	90-110%	---	---	
Matrix Spike (23C0955-MS1)			Prepared: 03/24/23 08:10 Analyzed: 03/27/23 13:23									
QC Source Sample: Non-SDG (A3C0473-01)												
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	5.74	---	0.200	mg/L	1	5.00	0.344	108	90-110%	---	---	
Matrix Spike (23C0955-MS2)			Prepared: 03/24/23 08:10 Analyzed: 03/27/23 13:52									
QC Source Sample: Non-SDG (A3C0606-02)												
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	6.68	---	0.200	mg/L	1	5.00	1.11	111	90-110%	---	---	Q-01
Matrix Spike Dup (23C0955-MSD1)			Prepared: 03/24/23 08:10 Analyzed: 03/27/23 13:25									
QC Source Sample: Non-SDG (A3C0473-01)												
Total Kjeldahl Nitrogen (TKN)	5.83	---	0.200	mg/L	1	5.00	0.344	110	90-110%	2	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0790 - Method Prep: Aq						Water						
Blank (23C0790-BLK1)			Prepared: 03/21/23 09:15		Analyzed: 03/22/23 14:53							
SM 5310 C												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (23C0790-BS1)			Prepared: 03/21/23 09:15		Analyzed: 03/22/23 15:23							
SM 5310 C												
Total Organic Carbon	10.5	1.00	1.00	mg/L	1	10.0	---	105	90-114%	---	---	
Matrix Spike (23C0790-MS1)			Prepared: 03/21/23 09:15		Analyzed: 03/22/23 17:54							
QC Source Sample: Non-SDG (A3C0527-04)												
SM 5310 C												
Total Organic Carbon	10.4	1.01	1.01	mg/L	1	10.0	ND	104	85-115%	---	---	
Matrix Spike Dup (23C0790-MSD1)			Prepared: 03/21/23 09:15		Analyzed: 03/22/23 18:24							
QC Source Sample: Non-SDG (A3C0527-04)												
Total Organic Carbon	10.7	1.01	1.01	mg/L	1	10.0	ND	107	85-115%	3	15%	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0963 - Persulfate Digestion						Water						
Blank (23C0963-BLK1)			Prepared: 03/24/23 08:55		Analyzed: 03/24/23 17:35							
<u>SM 4500-P-E</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (23C0963-BS1)			Prepared: 03/24/23 08:55		Analyzed: 03/24/23 17:36							
<u>SM 4500-P-E</u>												
Phosphorus	0.554	0.0500	0.100	mg/L	1	0.522	---	106	85-118%	---	---	
Matrix Spike (23C0963-MS1)			Prepared: 03/24/23 08:55		Analyzed: 03/24/23 17:39							
<u>QC Source Sample: Non-SDG (A3C0446-01)</u>												
<u>SM 4500-P-E</u>												
Phosphorus	1.05	0.0500	0.100	mg/L	1	0.522	0.451	115	85-118%	---	---	
Matrix Spike Dup (23C0963-MSD1)			Prepared: 03/24/23 08:55		Analyzed: 03/24/23 17:39							
<u>QC Source Sample: Non-SDG (A3C0446-01)</u>												
Phosphorus	1.06	0.0500	0.100	mg/L	1	0.522	0.451	117	85-118%	0.7	19%	

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Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0704 - Total Suspended Solids - 2022							Water					
Blank (23C0704-BLK1)			Prepared: 03/17/23 18:21		Analyzed: 03/17/23 18:21							
<u>D3977-97 (19)</u>												
Total Suspended Solids	ND	1.43	1.43	mg/L	1	---	---	---	---	---	---	
LCS (23C0704-BS1)			Prepared: 03/17/23 18:21		Analyzed: 03/17/23 18:21							
<u>D3977-97 (19)</u>												
Total Suspended Solids	1010			mg/L	1	961	---	105	85-115%	---	---	
LCS Dup (23C0704-BSD1)			Prepared: 03/17/23 18:21		Analyzed: 03/17/23 18:21							
<u>D3977-97 (19)</u>												
Total Suspended Solids	1010			mg/L	1	961	---	105	85-115%	0.297	7%	

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0979							
A3C0537-01	Water	NWTPH-Dx LL	03/13/23 19:30	03/24/23 11:49	1000mL/2mL	1000mL/2mL	1.00
A3C0537-02	Water	NWTPH-Dx LL	03/13/23 18:26	03/24/23 11:49	950mL/2mL	1000mL/2mL	1.05
A3C0537-03	Water	NWTPH-Dx LL	03/13/23 18:59	03/24/23 11:49	1000mL/2mL	1000mL/2mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0838							
A3C0537-01RE2	Water	EPA 8270E	03/13/23 19:30	03/22/23 06:20	920mL/1mL	1000mL/1mL	1.09
A3C0537-02RE1	Water	EPA 8270E	03/13/23 18:26	03/22/23 06:20	950mL/1mL	1000mL/1mL	1.05
A3C0537-03RE1	Water	EPA 8270E	03/13/23 18:59	03/22/23 06:19	930mL/1mL	1000mL/1mL	1.08

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1136							
A3C0537-01	Water	EPA 200.8	03/13/23 19:30	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00
A3C0537-01RE1	Water	EPA 200.8	03/13/23 19:30	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00
A3C0537-02	Water	EPA 200.8	03/13/23 18:26	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00
A3C0537-02RE1	Water	EPA 200.8	03/13/23 18:26	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00
A3C0537-03	Water	EPA 200.8	03/13/23 18:59	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00
A3C0537-03RE1	Water	EPA 200.8	03/13/23 18:59	03/29/23 06:44	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0630							
A3C0537-01	Water	EPA 300.0	03/13/23 19:30	03/16/23 12:02	5mL/5mL	5mL/5mL	1.00
A3C0537-02	Water	EPA 300.0	03/13/23 18:26	03/16/23 12:02	5mL/5mL	5mL/5mL	1.00
A3C0537-03	Water	EPA 300.0	03/13/23 18:59	03/16/23 12:02	5mL/5mL	5mL/5mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC****6700 S.W. Sandburg Street****Tigard, OR 97223****503-718-2323****ORELAP ID: OR100062****Rogue Valley Council of Governments****155 North First St/PO Box 3275****Central Point, OR 97502**Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115****SAMPLE PREPARATION INFORMATION****Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection****Prep: TKN block digestion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0955							
A3C0537-01	Water	EPA 351.2	03/13/23 19:30	03/24/23 08:10	25mL/25mL	25mL/25mL	1.00
A3C0537-02	Water	EPA 351.2	03/13/23 18:26	03/24/23 08:10	25mL/25mL	25mL/25mL	1.00
A3C0537-03	Water	EPA 351.2	03/13/23 18:59	03/24/23 08:10	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C**Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0790							
A3C0537-01RE1	Water	SM 5310 C	03/13/23 19:30	03/21/23 09:15	40mL/40mL	40mL/40mL	1.00
A3C0537-02RE1	Water	SM 5310 C	03/13/23 18:26	03/21/23 09:15	40mL/40mL	40mL/40mL	1.00
A3C0537-03RE1	Water	SM 5310 C	03/13/23 18:59	03/21/23 09:15	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry**Prep: Persulfate Digestion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0963							
A3C0537-01	Water	SM 4500-P E	03/13/23 19:30	03/24/23 08:55	25mL/50mL	25mL/50mL	1.00
A3C0537-02	Water	SM 4500-P E	03/13/23 18:26	03/24/23 08:55	25mL/50mL	25mL/50mL	1.00
A3C0537-03	Water	SM 4500-P E	03/13/23 18:59	03/24/23 08:55	25mL/50mL	25mL/50mL	1.00

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration**Prep: Total Suspended Solids - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0704							
A3C0537-01	Water	D3977-97 (19)	03/13/23 19:30	03/17/23 18:21			NA
A3C0537-02	Water	D3977-97 (19)	03/13/23 18:26	03/17/23 18:21			NA
A3C0537-03	Water	D3977-97 (19)	03/13/23 18:59	03/17/23 18:21			NA

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- H-01** Analyzed outside the recommended holding time.
- H-02** This sample was extracted outside of the recommended holding time.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-03** Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.

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Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested.

The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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ORELAP ID: OR100062

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring-2023**Project Number: **Alameda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:**Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3C0537 - 05 03 23 1115****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
Water	EPA 8270E		2,3,4,5-Tetrachlorophenol	6730	
Water	EPA 8270E		2,3,5-Trimethylnaphthalene	6852	
Water	EPA 8270E		2,6-Dichlorophenol	6005	
Water	EPA 8270E		2,6-Dimethylnaphthalene	6188	
Water	EPA 8270E		Benzidine	5595	

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project: Alameda Post Fire Monitoring-2023

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3C0537 - 05 03 23 1115

APEX LABS COOLER RECEIPT FORM

Client: RVOG Element WO#: A3 C0537Project/Project #: Alameda Post - Fire Monitoring 2022

Delivery Info:

Date/time received: 3/15/23 @ 1140 By: JSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 3/15/23 @ 1142 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.1</u>	<u>2.6</u>	<u>2.9</u>				
Custody seals? (Y/N)	<u>N</u>	<u>N</u>	<u>N</u>				
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>				
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>				
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>				
Condition (In/Out):	<u>In</u>	<u>In</u>	<u>In</u>				

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes/No ☒Out of temperature samples form initiated? Yes/No ☒Sample Inspection: Date/time inspected: 3/15/23 @ 1424 By: WJAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Labels read WVV, Northridge Terr, Colver Rd.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

Additional information: 3957 4573 6919

Labeled by:

Witness:

Cooler Inspected by:

Form Y-003 R-00

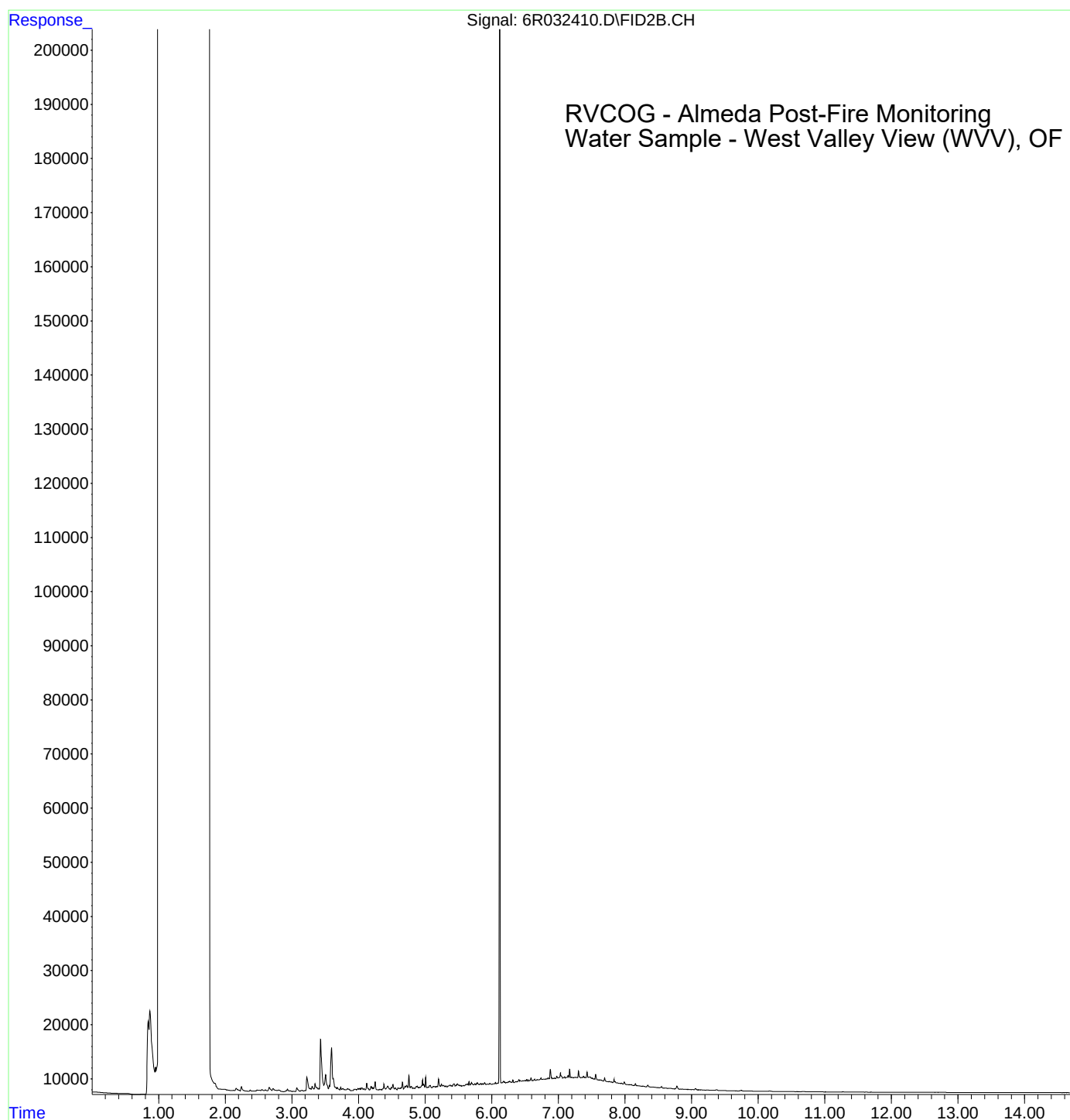
Apex Laboratories

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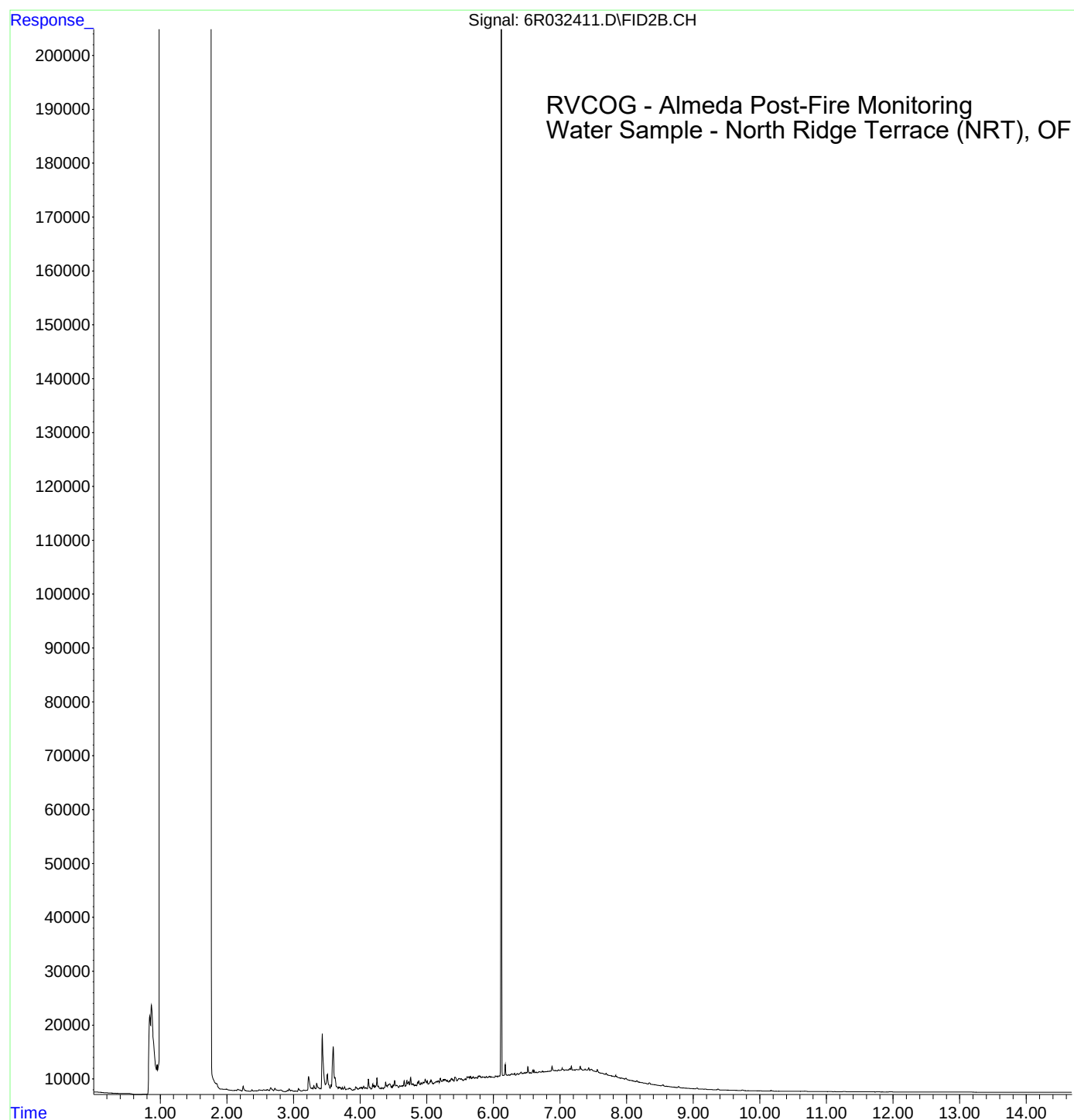
Michele Poquiz For Kurt Johnson, Senior Chemist

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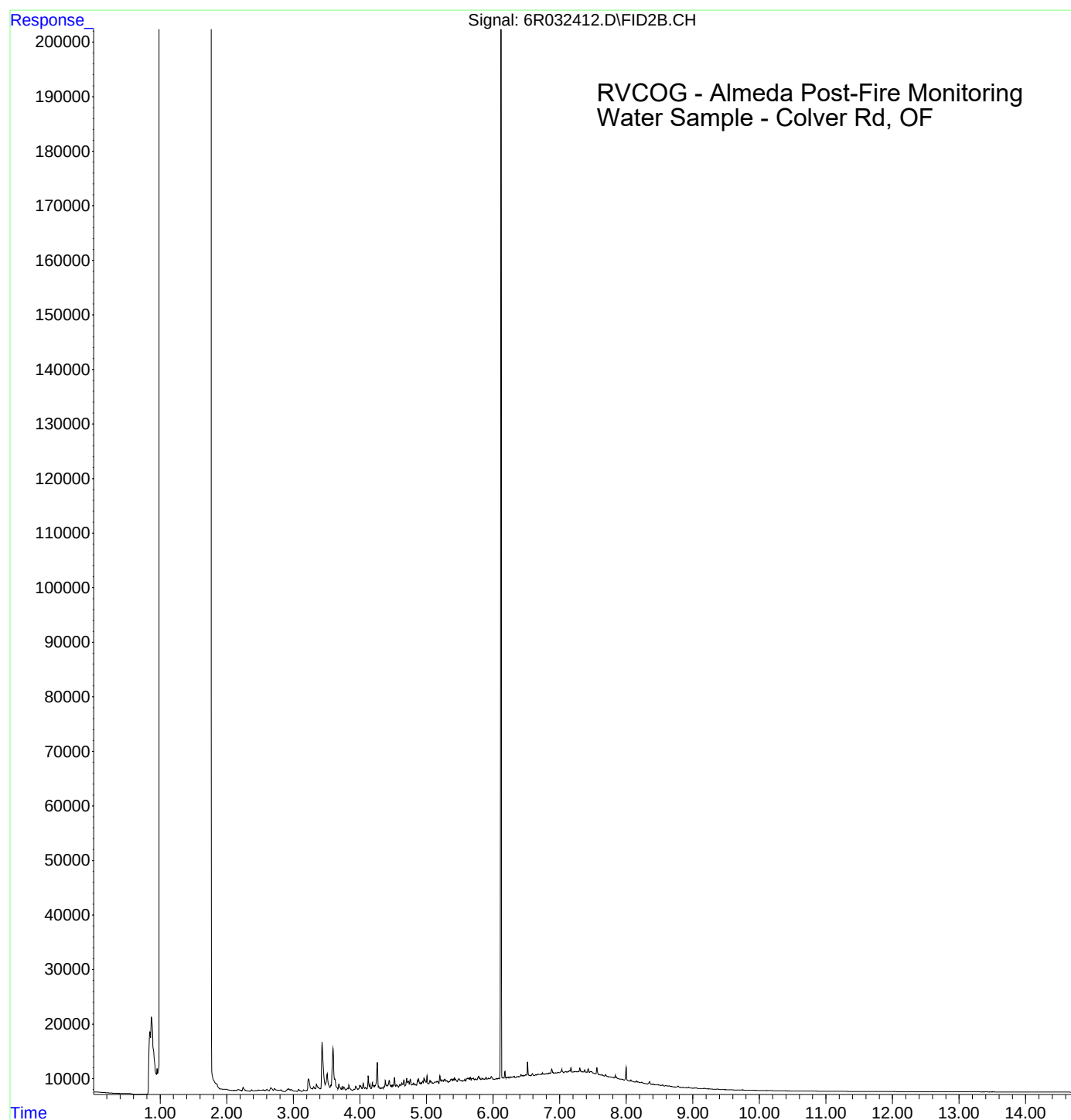
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Operator : BLL
Acquired : 24 Mar 2023 10:11 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3C0537-01
Misc Info :
Vial Number: 54



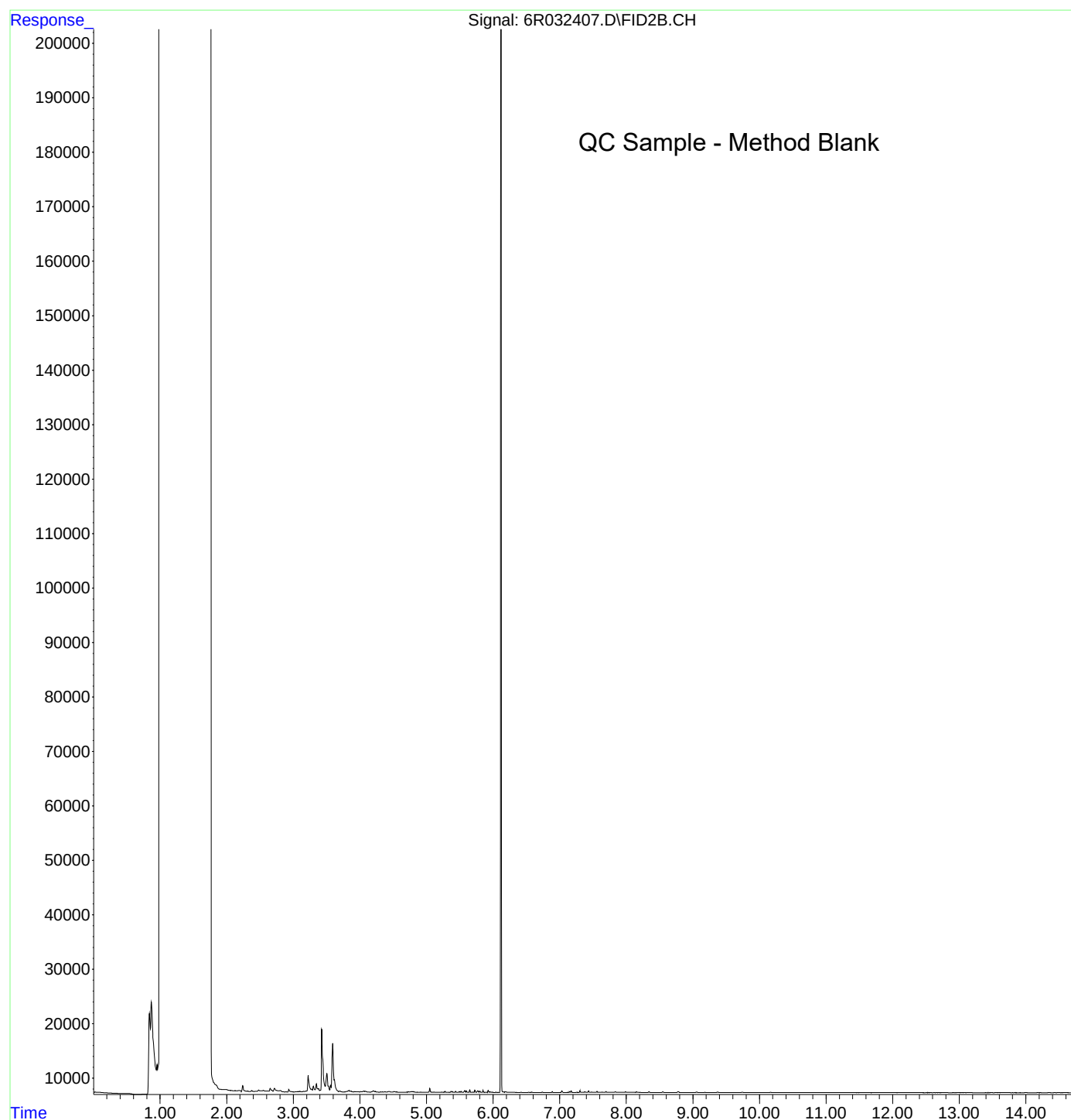
File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032411.D
Operator : BLL
Acquired : 24 Mar 2023 10:31 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3C0537-02
Misc Info :
Vial Number: 55



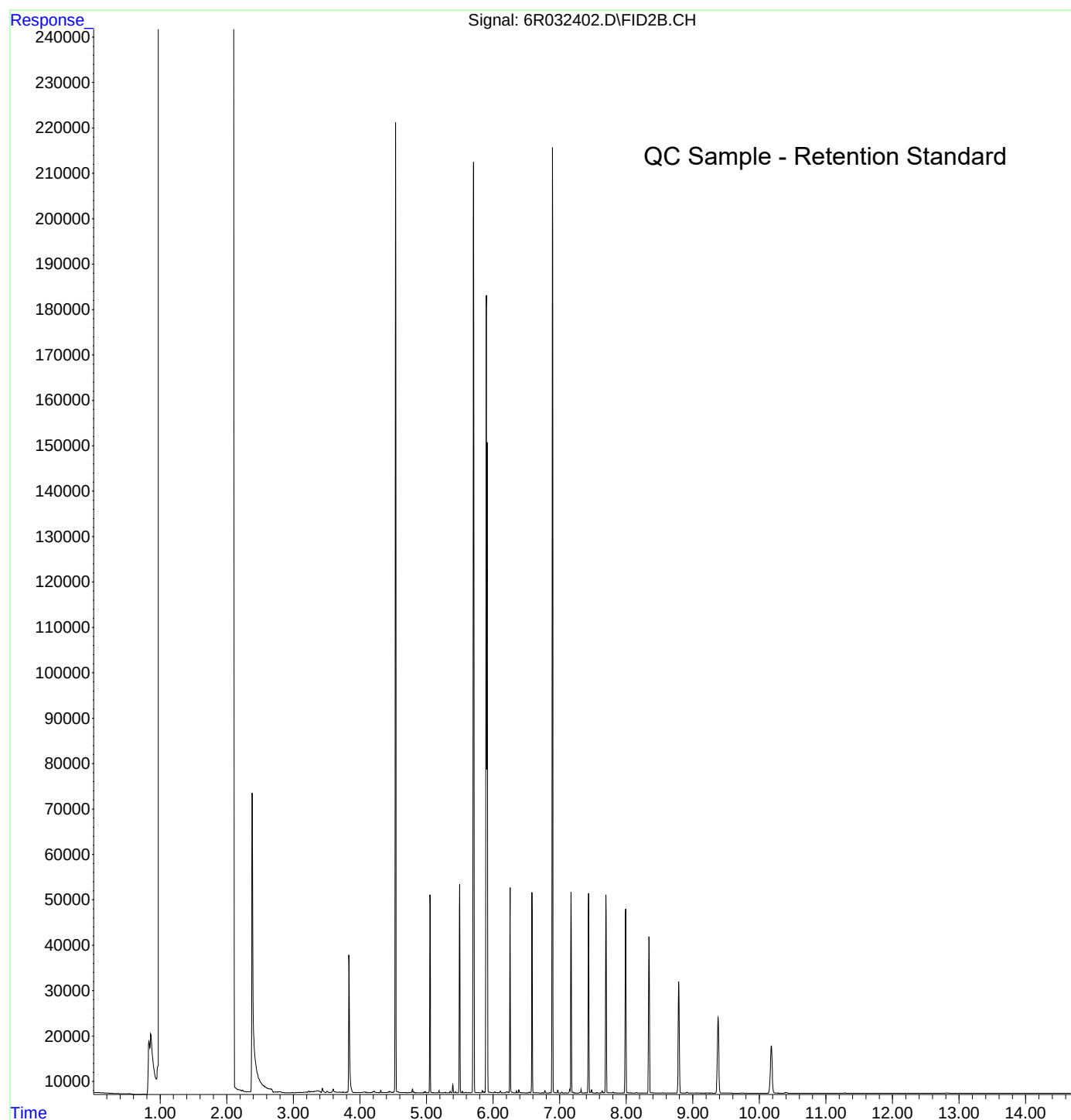
File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032412.D
Operator : BLL
Acquired : 24 Mar 2023 10:52 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3C0537-03
Misc Info :
Vial Number: 56



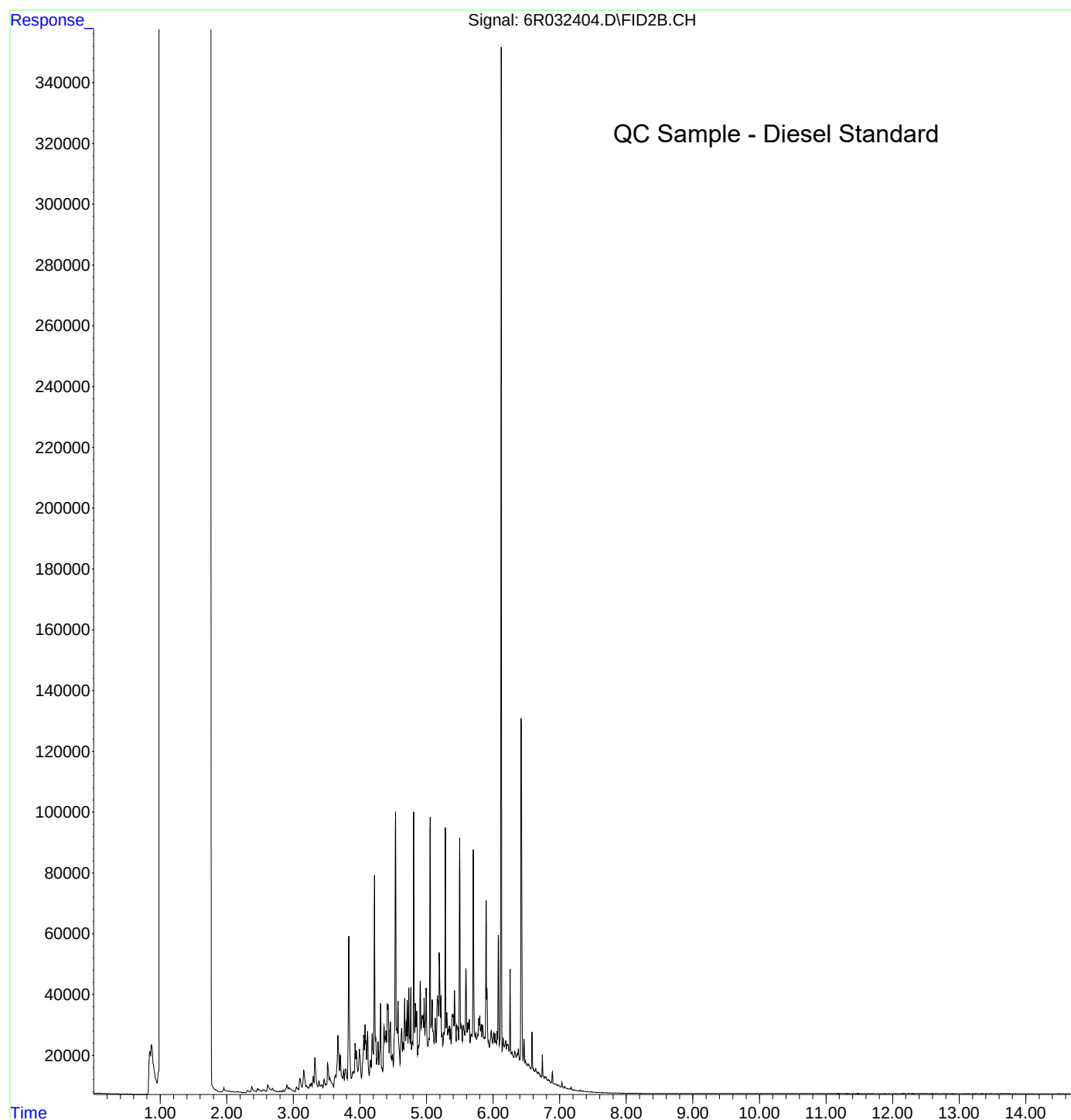
File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032407.D
Operator : BLL
Acquired : 24 Mar 2023 9:11 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 23C0979-BLK1
Misc Info :
Vial Number: 51



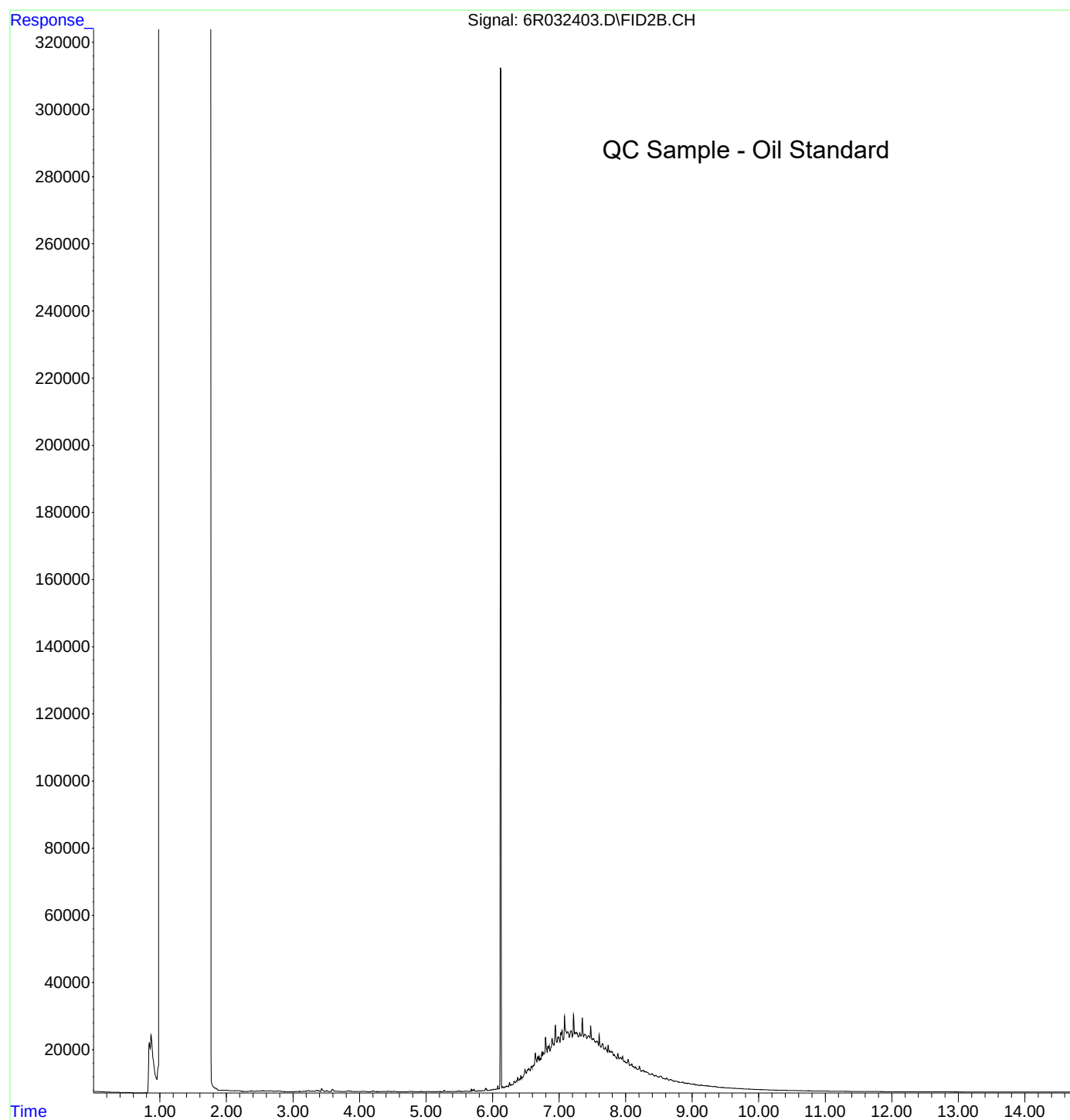
File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032402.D
Operator : BLL
Acquired : 24 Mar 2023 4:21 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 3C24039-RES1
Misc Info :
Vial Number: 95



File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032404.D
Operator : BLL
Acquired : 24 Mar 2023 5:02 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 3C24039-CCV2
Misc Info :
Vial Number: 1



File :M:\DUALFID6\1\DATA\2023-03\3C24039\6R032403.D
Operator : BLL
Acquired : 24 Mar 2023 4:41 pm using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 3C24039-CCV1
Misc Info :
Vial Number: 2



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

For the samples West Valley View (WVV), OF, North Ridge Terrace (NRT), OF, and Colver Rd, OF, it should be noted that:

- The total ion chromatograms generated showed the presence of medium boiling material. This material appeared as an irregular pattern of peaks on top of a broad hump or unresolved complex mixture (UCM).
- The samples were extracted 2 days outside of the recommending holding time due to a blank spike failure associated with the original batch.
- The samples were analyzed using a four-fold dilution due to the presence of hydrocarbon background in the samples.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
West Valley View (WVV), OF (A3C0537-01)			
Benzothiazole	000095-16-9	8.156	0.46
2(3H)-Benzothiazolone	000934-34-9	10.579	0.45
North Ridge Terrace (NRT), OF (A2J0791-02)			
no TICs present with a qualifier value ≥ 85			
Colver Rd, OF (A2J0791-03)			
Cholesterol	000057-88-5	20.26	0.67



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2749139
Date of Report: 4-Apr-23
Date of Sample Receipt: 17-Mar-23

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
UNITED STATES
Client Contact: Michele Poquiz
Client Project ID: A3C0537

COMMENTS: **Brominated Flame Retardants by EPA 1614**

The recovery of several analytes in the Laboratory Control Sample were outside the method limits, but those affected compounds were not positively identified in the client samples, so no impact to overall data quality is expected.

Certified by:

A handwritten signature in black ink, appearing to read "Bradley Reimer", is written over a horizontal line.

Bradley Reimer
GC/MS Laboratory Senior Technical Specialist

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences				
Sample Analysis Summary Report				
Sample Name	WEST VALLEY VIEW (WVV), OF	NORTH RIDGE TERRACE (NRT), OF	COLVER RD, OF	
ALS Sample ID	L2749139-1	L2749139-2	L2749139-3	
Sample Size	0.98	1.03	1.02	
Sample size units	L	L	L	
Percent Moisture	n/a	n/a	n/a	
Sample Matrix	Water	Water	Water	
Sampling Date	13-Mar-23	13-Mar-23	13-Mar-23	
Extraction Date	25-Mar-23	25-Mar-23	25-Mar-23	
Target Analytes	pg/L	pg/L	pg/L	
BDE 10	<1.9	<0.30	<0.23	
BDE 7	<1.8	<0.28	<0.21	
BDE 8/11	<1.3	<0.34	<0.15	
BDE 12/13	<1.1	0.689	<0.13	
BDE 15	<0.93	<1.0	0.255	
BDE 30	<6.9	<9.3	<1.5	
BDE 32	<0.71	<0.37	<0.18	
BDE 17/25	<0.89	5.99	0.598	
BDE 28/33	<8.2	18.2	3.76	
BDE 35	<2.7	<5.0	<0.86	
BDE 37	<0.61	<0.85	<0.44	
PBEB	1.46	1.28	0.794	
HBB	5.68	7.37	<3.7	
BDE 75	<0.72	1.50	<0.54	
BDE 51	<0.61	2.07	<0.79	
BDE 49	<7.9	24.9	9.60	
BDE 71	<0.93	1.68	<0.71	
BDE 47	232	424	158	
BDE 79	<0.59	<0.44	<0.45	
BDE 66	11.3	18.8	6.74	
BDE 77	<0.54	<0.47	<0.48	
BDE 100	76.5	107	61.5	
BDE 119/120	<0.79	<1.9	<0.40	
BDE 99	294	398	207	
BDE 116	<1.3	<1.4	<0.68	
BDE 83	<1.1	<1.1	<0.57	
BDE 118	<3.0	<3.3	<0.45	
BDE 85	5.62	13.1	7.96	
BDE 126	<0.50	<0.52	<0.26	
BDE 105	<0.93	<0.95	<0.47	
BDE 155	3.68	2.80	<0.78	
BDE 154	28.5	30.0	20.1	
BDE 153	<25	31.7	19.1	
BDE 140	<3.5	<2.4	<2.6	
BDE 138/166	7.14	7.17	<4.3	
BDE 156	<8.0	<5.5	<5.9	
BDE 128	<6.9	<4.7	<5.1	
BDE 184	<1.8	<0.84	<0.62	
BDE 183	28.8	<17	11.1	
BDE 191	<4.0	<1.9	<1.4	
BDE 181	<4.0	<1.9	<1.4	
BDE 190	<5.8	<2.7	<2.0	
BDE 197	<18	<12	8.82	
BDE 203	24.0	<10	<2.3	
BDE 196	<4.4	<6.6	<1.8	
BDE 208	91.3	32.0	23.1	
BDE 207	211	65.4	65.8	
BDE 206	213	96.6	80.0	
BDE 209	1760	1090	644	
DBDPE	1240	533	324	
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L	
Di BDE	<0.93	2.03	0.255	
Tri BDE	17.8	39.3	7.16	
Tetra BDE	251	473	175	
Penta BDE	379	523	276	
Hexa BDE	64.3	71.7	39.2	
Hepta BDE	28.8	17.0	11.1	
Octa BDE	42.0	28.6	8.82	
Nona BDE	515	194	169	
Deca BDE	1760	1090	644	
Total PBDEs	3060	2440	1330	
Extraction Standards	% Rec	% Rec	% Rec	
13C12 BDE 15	17	99	100	
13C12 BDE 28	41	137	119	
13C6 HBB	92	120	87	
13C12 BDE 47	58	154	123	
13C12 BDE 77	89	168	125	
13C12 BDE 100	87	82	88	
13C12 BDE 99	64	83	85	
13C12 BDE 126	77	81	84	
13C12 BDE 154	30	30	31	
13C12 BDE 153	57	71	77	
13C12 BDE 183	49	73	84	
13C12 BDE 197	42	60	68	
13C12 BDE 207	58	66	75	
13C12 BDE 209	70	69	72	
13C14 DBDPE	64	67	70	
Cleanup Standard				
13C12 BDE 138 Cleanup	38	61	66	

ALS Life Sciences		
Quality Control Summary Report		
Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3781805-1	WG3781805-2
Sample Size	1.00	1.00
Sample size units	L	L
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	25-Mar-23	25-Mar-23
Target Analytes	pg/L	% Rec
BDE 10	<1.2	NR
BDE 7	<1.1	6
BDE 8/11	<0.77	116
BDE 12/13	<0.67	106
BDE 15	<0.57	105
BDE 30	<0.73	49
BDE 32	<0.51	61
BDE 17/25	<0.64	62
BDE 28/33	<0.63	81
BDE 35	<0.44	171
BDE 37	<0.44	159
PBEB	<0.20	97
HBB	3.04	105
BDE 75	<0.72	134
BDE 51	<0.61	46
BDE 49	<0.90	58
BDE 71	<0.94	72
BDE 47	<2.3	104
BDE 79	<0.59	134
BDE 66	<1.0	107
BDE 77	<0.59	104
BDE 100	<0.54	123
BDE 119/120	<0.46	120
BDE 99	<1.7	106
BDE 116	<0.78	70
BDE 83	<0.64	50
BDE 118	<0.51	102
BDE 85	<0.44	63
BDE 126	<0.28	115
BDE 105	<0.54	72
BDE 155	<0.45	136
BDE 154	<0.54	106
BDE 153	<1.7	102
BDE 140	<1.6	121
BDE 138/166	<2.7	89
BDE 156	<3.6	88
BDE 128	<3.1	53
BDE 184	<0.86	134
BDE 183	<1.2	103
BDE 191	<1.9	114
BDE 181	<1.9	105
BDE 190	<2.8	102
BDE 197	<2.3	102
BDE 203	<3.3	86
BDE 196	<2.7	79
BDE 208	<4.7	104
BDE 207	<4.5	103
BDE 206	<5.2	103
BDE 209	<15	100
DBDPE	<41	103
PBDE Homologue Group Totals		
(Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	<0.57	
Tri BDE	<0.44	
Tetra BDE	2.30	
Penta BDE	2.24	
Hexa BDE	<0.45	
Hepta BDE	<0.86	
Octa BDE	<2.3	
Nona BDE	<4.5	
Deca BDE	<15	
Total PBDEs	4.54	
Extraction Standards	% Rec	% Rec
13C12 BDE 15	13	13
13C12 BDE 28	23	27
13C6 HBB	28	43
13C12 BDE 47	31	38
13C12 BDE 77	42	56
13C12 BDE 100	43	49
13C12 BDE 99	46	44
13C12 BDE 126	46	51
13C12 BDE 154	33	40
13C12 BDE 153	36	42
13C12 BDE 183	45	53
13C12 BDE 197	32	47
13C12 BDE 207	41	55
13C12 BDE 209	25	36
13C14 DBDPE	21	29
Cleanup Standard		
13C12 BDE 138 Cleanup	33	33

ALS Life Sciences									
Sample Analysis Report									
Sample Name		WEST VALLEY VIEW (WVV), OF			Sampling Date		13-Mar-23		Approved: Ella Gdyczynski --e-signature-- 03-Apr-2023
ALS Sample ID		L2749139-1			Extraction Date		25-Mar-23		
Analysis Method		EPA 1614			Sample Size		0.98 L		
Analysis Type		Sample			Percent Moisture		n/a		
Sample Matrix		Water			Split Ratio		1		
Run Information									
Run 1									
Filename		9-230329B12							
Run Date		29-Mar-23 21:53							
Final Volume		25 uL							
Dilution Factor		1							
Analysis Units		pg/L							
Instrument - Column		HRMS-9 DB5 US2461925H							
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL		
BDE 10		NotFnd	<1.9	1.9	U		26		
BDE 7		NotFnd	<1.8	1.8	U		26		
BDE 8/11		NotFnd	<1.3	1.3	U		51		
BDE 12/13		NotFnd	<1.1	1.1	U		51		
BDE 15		NotFnd	<0.93	0.93	U		26		
BDE 30		7.94	<6.9	1.0	J,R	6.9	26		
BDE 32		NotFnd	<0.71	0.71	U		26		
BDE 17/25		NotFnd	<0.89	0.89	U		51		
BDE 28/33		8.73	<8.2	0.86	J,R	8.2	51		
BDE 35		8.87	<2.7	0.61	J,R	2.7	26		
BDE 37		NotFnd	<0.61	0.61	U		26		
PBEB		9.09	1.46	0.16	J		26		
HBB		10.10	5.68	0.54	M,J,B		26		
BDE 75		NotFnd	<0.72	0.72	U		26		
BDE 51		NotFnd	<0.61	0.61	U		26		
BDE 49		10.31	<7.9	0.89	J,R	7.9	26		
BDE 71		NotFnd	<0.93	0.93	U		26		
BDE 47		10.66	232	0.84			26		
BDE 79		NotFnd	<0.59	0.59	U		26		
BDE 66		10.95	11.3	1.0	M,J		26		
BDE 77		NotFnd	<0.54	0.54	U		26		
BDE 100		12.33	76.5	0.34			38		
BDE 119/120		NotFnd	<0.79	0.79	U		38		
BDE 99		12.85	294	0.65			38		
BDE 116		NotFnd	<1.3	1.3	U		38		
BDE 83		NotFnd	<1.1	1.1	U		38		
BDE 118		13.26	<3.0	0.88	M,J,R	3.0	38		
BDE 85		13.76	5.62	0.76	J		38		
BDE 126		NotFnd	<0.50	0.50	U		38		
BDE 105		NotFnd	<0.93	0.93	U		38		
BDE 155		13.92	3.68	0.78	J		51		
BDE 154		14.30	28.5	1.2	J		51		
BDE 153		15.06	<25	2.8	J,R	25	51		
BDE 140		NotFnd	<3.5	3.5	U		51		
BDE 138/166		16.02	7.14	5.9	M,J		100		
BDE 156		NotFnd	<8.0	8.0	U		51		
BDE 128		NotFnd	<6.9	6.9	U		51		
BDE 184		NotFnd	<1.8	1.8	U		64		
BDE 183		17.23	28.8	2.5	J		64		
BDE 191		NotFnd	<4.0	4.0	U		64		
BDE 181		NotFnd	<4.0	4.0	U		64		
BDE 190		NotFnd	<5.8	5.8	U		64		
BDE 197		19.71	<18	3.8	M,J,R	18	64		
BDE 203		19.96	24.0	5.5	M,J		64		
BDE 196		NotFnd	<4.4	4.4	U		64		
BDE 208		21.43	91.3	8.7	J		130		
BDE 207		21.57	211	8.4			130		
BDE 206		21.90	213	9.6			130		
BDE 209		23.84	1760	19			130		
DBDPE		25.50	1240	59			260		
Extraction Standards		pg	% Rec		Limits				
13C12 BDE 15		1000	7.16	17	25-150				
13C12 BDE 28		1000	8.73	41	25-150				
13C6 HBB		1000	10.09	92	25-150				
13C12 BDE 47		1000	10.65	58	25-150				
13C12 BDE 77		1000	11.43	89	25-150				
13C12 BDE 100		1000	12.33	87	25-150				
13C12 BDE 99		1000	12.84	64	25-150				
13C12 BDE 126		1000	13.92	77	25-150				
13C12 BDE 154		1000	14.29	30	25-150				
13C12 BDE 153		1000	15.05	57	25-150				
13C12 BDE 183		1000	17.22	49	25-150				
13C12 BDE 197		2000	19.70	42	25-150				
13C12 BDE 207		5000	21.56	58	25-150				
13C12 BDE 209		5000	23.83	70	20-200				
13C14 DBDPE		10000	25.50	64	5-200				
Cleanup Standard		pg							
13C12 BDE 138 Cleanup		2000	16.01	38	30-135				
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.							
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.							
M		Indicates that a peak has been manually integrated.							
U		Indicates that this compound was not detected above the EDL.							
J		Indicates that a target analyte was detected below the calibrated range.							
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.							
B		Indicates that this target was detected in the blank at greater than 10% of the sample concentration.							
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure							

ALS Life Sciences									
Sample Analysis Report									
Sample Name		NORTH RIDGE TERRACE (NRT), OF			Sampling Date		13-Mar-23		Approved: Ella Gdyczynski --e-signature-- 03-Apr-2023
ALS Sample ID		L2749139-2			Extraction Date		25-Mar-23		
Analysis Method		EPA 1614			Sample Size		1.03 L		
Analysis Type		Sample			Percent Moisture		n/a		
Sample Matrix		Water			Split Ratio		1		
Run Information									
Run 1									
Filename		9-230329B13							
Run Date		29-Mar-23 22:29							
Final Volume		25 uL							
Dilution Factor		1							
Analysis Units		pg/L							
Instrument - Column		HRMS-9 DB5 US2461925H							
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL		
BDE 10		NotFnd	<0.30	0.30	U		24		
BDE 7		NotFnd	<0.28	0.28	U		24		
BDE 8/11		6.88	<0.34	0.20	M,J,R	0.34	49		
BDE 12/13		7.02	0.689	0.17	J		49		
BDE 15		7.16	<1.0	0.15	J,R	1.0	24		
BDE 30		7.94	<9.3	0.52	J,R	9.3	24		
BDE 32		NotFnd	<0.37	0.37	U		24		
BDE 17/25		8.49	5.99	0.46	J		49		
BDE 28/33		8.73	18.2	0.45	J		49		
BDE 35		8.86	<5.0	0.32	J,R	5.0	24		
BDE 37		9.08	<0.85	0.32	J,R	0.85	24		
PBEB		9.09	1.28	0.11	J		24		
HBB		10.10	7.37	0.92	M,J,B		24		
BDE 75		10.17	1.50	0.54	J		24		
BDE 51		10.23	2.07	0.46	J		24		
BDE 49		10.31	24.9	0.67			24		
BDE 71		10.39	1.68	0.70	J		24		
BDE 47		10.66	424	0.52			24		
BDE 79		NotFnd	<0.44	0.44	U		24		
BDE 66		10.96	18.8	0.75	J		24		
BDE 77		NotFnd	<0.47	0.47	U		24		
BDE 100		12.33	107	0.39			36		
BDE 119/120		12.50	<1.9	0.81	J,R	1.9	36		
BDE 99		12.84	398	0.55	M		36		
BDE 116		NotFnd	<1.4	1.4	U		36		
BDE 83		NotFnd	<1.1	1.1	U		36		
BDE 118		13.26	<3.3	0.91	J,R	3.3	36		
BDE 85		13.74	13.1	0.78	J		36		
BDE 126		NotFnd	<0.52	0.52	U		36		
BDE 105		NotFnd	<0.95	0.95	U		36		
BDE 155		13.92	2.80	0.65	J		49		
BDE 154		14.29	30.0	1.1	J		49		
BDE 153		15.05	31.7	1.7	J		49		
BDE 140		NotFnd	<2.4	2.4	U		49		
BDE 138/166		16.02	7.17	4.1	J		97		
BDE 156		NotFnd	<5.5	5.5	U		49		
BDE 128		NotFnd	<4.7	4.7	U		49		
BDE 184		NotFnd	<0.84	0.84	U		61		
BDE 183		17.20	<17	1.2	J,R	17	61		
BDE 191		NotFnd	<1.9	1.9	U		61		
BDE 181		NotFnd	<1.9	1.9	U		61		
BDE 190		NotFnd	<2.7	2.7	U		61		
BDE 197		19.68	<12	1.2	M,J,R	12	61		
BDE 203		19.95	<10	1.8	M,J,R	10	61		
BDE 196		20.07	<6.6	1.4	J,R	6.6	61		
BDE 208		21.41	32.0	5.2	J		120		
BDE 207		21.56	65.4	5.0	J		120		
BDE 206		21.87	96.6	5.7	J		120		
BDE 209		23.84	1090	8.1			120		
DBDPE		25.52	533	32			240		
Extraction Standards		pg	% Rec		Limits				
13C12 BDE 15		1000	7.15	99	25-150				
13C12 BDE 28		1000	8.73	137	25-150				
13C6 HBB		1000	10.10	120	25-150				
13C12 BDE 47		1000	10.65	154	25-150				
13C12 BDE 77		1000	11.43	168	25-150				
13C12 BDE 100		1000	12.33	82	25-150				
13C12 BDE 99		1000	12.84	83	25-150				
13C12 BDE 126		1000	13.92	81	25-150				
13C12 BDE 154		1000	14.29	30	25-150				
13C12 BDE 153		1000	15.04	71	25-150				
13C12 BDE 183		1000	17.20	73	25-150				
13C12 BDE 197		2000	19.68	60	25-150				
13C12 BDE 207		5000	21.54	66	25-150				
13C12 BDE 209		5000	23.83	69	20-200				
13C14 DBDPE		10000	25.50	67	5-200				
Cleanup Standard		pg							
13C12 BDE 138 Cleanup		2000	16.00	61	30-135				
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.							
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.							
M		Indicates that a peak has been manually integrated.							
U		Indicates that this compound was not detected above the EDL.							
J		Indicates that a target analyte was detected below the calibrated range.							
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.							
B		Indicates that this target was detected in the blank at greater than 10% of the sample concentration.							
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure							

ALS Life Sciences									
Sample Analysis Report									
Sample Name		COLVER RD, OF			Sampling Date		13-Mar-23		Approved: Ella Gdyczynski --e-signature-- 03-Apr-2023
ALS Sample ID		L2749139-3			Extraction Date		25-Mar-23		
Analysis Method		EPA 1614			Sample Size		1.02 L		
Analysis Type		Sample			Percent Moisture		n/a		
Sample Matrix		Water			Split Ratio		1		
Run Information		Run 1							
Filename		9-230329B14							
Run Date		29-Mar-23 23:04							
Final Volume		25 uL							
Dilution Factor		1							
Analysis Units		pg/L							
Instrument - Column		HRMS-9 DB5 US2461925H							
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL		
BDE 10		NotFnd	<0.23	0.23	U		25		
BDE 7		NotFnd	<0.21	0.21	U		25		
BDE 8/11		NotFnd	<0.15	0.15	U		49		
BDE 12/13		NotFnd	<0.13	0.13	U		49		
BDE 15		7.16	0.255	0.11	M,J		25		
BDE 30		7.93	<1.5	0.25	J,R	1.5	25		
BDE 32		NotFnd	<0.18	0.18	U		25		
BDE 17/25		8.49	0.598	0.22	J		49		
BDE 28/33		8.73	3.76	0.21	J		49		
BDE 35		8.86	<0.86	0.15	J,R	0.86	25		
BDE 37		9.08	<0.44	0.15	J,R	0.44	25		
PBEB		9.09	0.794	0.15	M,J		25		
HBB		10.10	<3.7	1.2	M,J,R	3.7	25		
BDE 75		NotFnd	<0.54	0.54	U		25		
BDE 51		10.23	<0.79	0.46	M,J,R	0.79	25		
BDE 49		10.33	9.60	0.68	J		25		
BDE 71		NotFnd	<0.71	0.71	U		25		
BDE 47		10.66	158	0.51	M		25		
BDE 79		NotFnd	<0.45	0.45	U		25		
BDE 66		10.95	6.74	0.76	J		25		
BDE 77		NotFnd	<0.48	0.48	U		25		
BDE 100		12.33	61.5	0.18			37		
BDE 119/120		NotFnd	<0.40	0.40	U		37		
BDE 99		12.85	207	0.29			37		
BDE 116		NotFnd	<0.68	0.68	U		37		
BDE 83		NotFnd	<0.57	0.57	U		37		
BDE 118		NotFnd	<0.45	0.45	U		37		
BDE 85		13.76	7.96	0.39	J		37		
BDE 126		NotFnd	<0.26	0.26	U		37		
BDE 105		NotFnd	<0.47	0.47	U		37		
BDE 155		NotFnd	<0.78	0.78	U		49		
BDE 154		14.30	20.1	1.3	J		49		
BDE 153		15.05	19.1	1.8	J		49		
BDE 140		NotFnd	<2.6	2.6	U		49		
BDE 138/166		NotFnd	<4.3	4.3	U		98		
BDE 156		NotFnd	<5.9	5.9	U		49		
BDE 128		NotFnd	<5.1	5.1	U		49		
BDE 184		NotFnd	<0.62	0.62	U		61		
BDE 183		17.22	11.1	0.87	J		61		
BDE 191		NotFnd	<1.4	1.4	U		61		
BDE 181		NotFnd	<1.4	1.4	U		61		
BDE 190		NotFnd	<2.0	2.0	U		61		
BDE 197		19.68	8.82	1.6	M,J		61		
BDE 203		NotFnd	<2.3	2.3	U		61		
BDE 196		NotFnd	<1.8	1.8	U		61		
BDE 208		21.41	23.1	3.4	J		120		
BDE 207		21.54	65.8	3.3	J		120		
BDE 206		21.86	80.0	3.8	J		120		
BDE 209		23.83	644	7.9			120		
DBDPE		25.51	324	37			250		
Extraction Standards		pg	% Rec		Limits				
13C12 BDE 15		1000	7.15	100	25-150				
13C12 BDE 28		1000	8.73	119	25-150				
13C6 HBB		1000	10.10	87	25-150				
13C12 BDE 47		1000	10.65	123	25-150				
13C12 BDE 77		1000	11.43	125	25-150				
13C12 BDE 100		1000	12.33	88	25-150				
13C12 BDE 99		1000	12.84	85	25-150				
13C12 BDE 126		1000	13.92	84	25-150				
13C12 BDE 154		1000	14.29	31	25-150				
13C12 BDE 153		1000	15.05	77	25-150				
13C12 BDE 183		1000	17.20	84	25-150				
13C12 BDE 197		2000	19.68	68	25-150				
13C12 BDE 207		5000	21.54	75	25-150				
13C12 BDE 209		5000	23.83	72	20-200				
13C14 DBDPE		10000	25.51	70	5-200				
Cleanup Standard		pg							
13C12 BDE 138 Cleanup		2000	16.00	66	30-135				
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.							
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.							
M		Indicates that a peak has been manually integrated.							
U		Indicates that this compound was not detected above the EDL.							
J		Indicates that a target analyte was detected below the calibrated range.							
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.							
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure							

ALS Life Sciences									
Laboratory Method Blank Analysis Report									
Sample Name		Method Blank		Sampling Date		n/a		Approved: <i>Ella Gdyczynski</i> --e-signature-- 03-Apr-2023	
ALS Sample ID		WG3781805-1		Extraction Date		25-Mar-23			
Analysis Method		EPA 1614		Sample Size		1 L			
Analysis Type		Blank		Percent Moisture		n/a			
Sample Matrix		QC		Split Ratio		1			
Run Information									
Run 1									
Filename		9-230329B08							
Run Date		29-Mar-23 19:32							
Final Volume		25 uL							
Dilution Factor		1							
Analysis Units		pg/L							
Instrument - Column		HRMS-9 DB5 US2461925H							
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL		
BDE 10		NotFnd	<1.2	1.2	U		25		
BDE 7		NotFnd	<1.1	1.1	U		25		
BDE 8/11		NotFnd	<0.77	0.77	U		50		
BDE 12/13		NotFnd	<0.67	0.67	U		50		
BDE 15		NotFnd	<0.57	0.57	U		25		
BDE 30		NotFnd	<0.73	0.73	U		25		
BDE 32		NotFnd	<0.51	0.51	U		25		
BDE 17/25		NotFnd	<0.64	0.64	U		50		
BDE 28/33		NotFnd	<0.63	0.63	U		50		
BDE 35		NotFnd	<0.44	0.44	U		25		
BDE 37		NotFnd	<0.44	0.44	U		25		
PBEB		NotFnd	<0.20	0.20	U		25		
HBB		10.10	3.04	1.0	M,J		25		
BDE 75		NotFnd	<0.72	0.72	U		25		
BDE 51		NotFnd	<0.61	0.61	U		25		
BDE 49		NotFnd	<0.90	0.90	U		25		
BDE 71		NotFnd	<0.94	0.94	U		25		
BDE 47		10.66	<2.3	0.76	J,R	2.3	25		
BDE 79		NotFnd	<0.59	0.59	U		25		
BDE 66		NotFnd	<1.0	1.0	U		25		
BDE 77		NotFnd	<0.59	0.59	U		25		
BDE 100		12.31	<0.54	0.22	M,J,R	0.54	38		
BDE 119/120		NotFnd	<0.46	0.46	U		38		
BDE 99		12.82	<1.7	0.32	J,R	1.7	38		
BDE 116		NotFnd	<0.78	0.78	U		38		
BDE 83		NotFnd	<0.64	0.64	U		38		
BDE 118		NotFnd	<0.51	0.51	U		38		
BDE 85		NotFnd	<0.44	0.44	U		38		
BDE 126		NotFnd	<0.28	0.28	U		38		
BDE 105		NotFnd	<0.54	0.54	U		38		
BDE 155		NotFnd	<0.45	0.45	U		50		
BDE 154		NotFnd	<0.54	0.54	U		50		
BDE 153		NotFnd	<1.7	1.7	U		50		
BDE 140		NotFnd	<1.6	1.6	U		50		
BDE 138/166		NotFnd	<2.7	2.7	U		100		
BDE 156		NotFnd	<3.6	3.6	U		50		
BDE 128		NotFnd	<3.1	3.1	U		50		
BDE 184		NotFnd	<0.86	0.86	U		63		
BDE 183		NotFnd	<1.2	1.2	U		63		
BDE 191		NotFnd	<1.9	1.9	U		63		
BDE 181		NotFnd	<1.9	1.9	U		63		
BDE 190		NotFnd	<2.8	2.8	U		63		
BDE 197		NotFnd	<2.3	2.3	U		63		
BDE 203		NotFnd	<3.3	3.3	U		63		
BDE 196		NotFnd	<2.7	2.7	U		63		
BDE 208		NotFnd	<4.7	4.7	U		130		
BDE 207		NotFnd	<4.5	4.5	U		130		
BDE 206		NotFnd	<5.2	5.2	U		130		
BDE 209		NotFnd	<15	15	U		130		
DBDPE		NotFnd	<41	41	U		250		
Extraction Standards		pg	% Rec		Limits				
13C12 BDE 15		1000	7.15	13	25-150				
13C12 BDE 28		1000	8.73	23	25-150				
13C6 HBB		1000	10.09	28	25-150				
13C12 BDE 47		1000	10.65	31	25-150				
13C12 BDE 77		1000	11.42	42	25-150				
13C12 BDE 100		1000	12.31	43	25-150				
13C12 BDE 99		1000	12.81	46	25-150				
13C12 BDE 126		1000	13.89	46	25-150				
13C12 BDE 154		1000	14.27	33	25-150				
13C12 BDE 153		1000	15.01	36	25-150				
13C12 BDE 183		1000	17.16	45	25-150				
13C12 BDE 197		2000	19.64	32	25-150				
13C12 BDE 207		5000	21.50	41	25-150				
13C12 BDE 209		5000	23.70	25	20-200				
13C14 DBDPE		10000	25.29	21	5-200				
Cleanup Standard		pg							
13C12 BDE 138 Cleanup		2000	15.98	33	30-135				
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.							
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.							
M		Indicates that a peak has been manually integrated.							
U		Indicates that this compound was not detected above the EDL.							
J		Indicates that a target analyte was detected below the calibrated range.							
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.							
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure							



AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES

A METIRI GROUP COMPANY

908 N. Temperance Ave., Clovis, CA 93611 - Phone 559-275-2175 - www.applinc.com

NELAP Certification Number: CA00046

DoD-ELAP Certification Number 4064.01

State Certification Number:

April 27, 2023

Greg Stabach
RVCOG
155 N Front St.
Central Point, OR 97502

RE: Almeda Fire
23C0135

Enclosed are the results of analyses for samples received by our laboratory on 3/15/2023. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,

Chue Moua
Project Manager

cmoua@applinc.com
559-862-2155

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RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Work Order Case Narrative

8290: In the LCS, 1,2,3,4,6,7,8-HPCCDD recovered slightly above the upper control limit.

Revision 04/26/23: During the initial reporting, the analyst inadvertently reported the prelim data for EPA 8290. Therefore, the final data has been included.

Revision 04/27/23: The incorrect forms were generated for the dioxins/furans data. This has been fixed.

Analysis Case Narrative

PFAS: Manual integrations were performed for this method in accordance with APPL's SOP. Chromatograms after manual integration are enclosed for specific samples and analytes. Abbreviated flags for technical justification are listed on the chromatogram.

Some extracted internal standards recovered outside of control limits in some samples; these samples were diluted and recovered in control, unless stated otherwise.

The extracted internal standard 13C2-4:2FTS recovered above the upper control limit in the BCC0432-BLK1.

The extracted internal standard 13C2-4:2FTS recovered above the upper control limit in the BCC0432-BSD1.

The analyte PFOSA recovered above the upper control limit in the BCC0432-MRL1. The extracted internal standard 13C2-4:2FTS recovered above the upper control limit.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23C0135-01	WVW	Water	03/13/2023 07:30	03/15/2023
23C0135-02	NRT	Water	03/13/2023 06:26	03/15/2023
23C0135-03	COLVER RD	Water	03/13/2023 06:59	03/15/2023

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Sample Results

Sample: WVV
23C0135-01 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	5.9 J	16	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEA	3.3 J	8.1	1.0	0.31	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXA	3.2 J	4.0	1.0	0.32	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPA	1.7 J IR1,	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFOA	3.6 J	4.0	1.0	0.41	ng/L	03/27/23	1	Table B-15	BCC0432
PFNA	1.0 U	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFDA	1.4 J	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFUnA	1.0 U	4.0	1.0	0.40	ng/L	03/27/23	1	Table B-15	BCC0432
PFDOA	1.2 J IR2,	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFTTDA	1.0 U	4.0	1.0	0.29	ng/L	03/27/23	1	Table B-15	BCC0432
PFTEDA	1.0 U	4.0	1.0	0.43	ng/L	03/27/23	1	Table B-15	BCC0432
PFBS	2.5 J	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEs	1.0 U	4.0	1.0	0.29	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXS	1.0 U	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPS	1.0 U	4.0	1.0	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFOS	4.1 MI4	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
PFNS	2.0 U	4.0	2.0	1.2	ng/L	03/27/23	1	Table B-15	BCC0432
PFDS	1.0 U	4.0	1.0	0.32	ng/L	03/27/23	1	Table B-15	BCC0432
4:2FTS	2.0 U	16	2.0	0.54	ng/L	03/27/23	1	Table B-15	BCC0432
6:2FTS	1.0 U	16	1.0	0.45	ng/L	03/27/23	1	Table B-15	BCC0432
8:2FTS	3.0 U	16	3.0	1.0	ng/L	03/27/23	1	Table B-15	BCC0432
PFOSA	0.68 J	16	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSA	10 U	16	10	5.0	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSA	10 U	16	10	5.0	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSAA	1.0 U	4.0	1.0	0.36	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSAA	1.0 U	4.0	1.0	0.25	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSE	6.0 U	16	6.0	3.0	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSE	6.0 U	16	6.0	3.0	ng/L	03/27/23	1	Table B-15	BCC0432
HFPO-DA	5.0 U	8.1	5.0	2.5	ng/L	03/27/23	1	Table B-15	BCC0432
ADONA	3.0 U	8.1	3.0	1.3	ng/L	03/27/23	1	Table B-15	BCC0432
9CL-PF3ONS	3.0 U	8.1	3.0	1.2	ng/L	03/27/23	1	Table B-15	BCC0432
11CL-PF3OUDS	3.0 U	8.1	3.0	1.2	ng/L	03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFBA	86.8%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFPEA	44.7% S1		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFPEA	54.3%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C5-PFHXA	51.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFHPA	45.0% S1		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFHPA	58.7%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C8-PFOA	92.4%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C9-PFNA	91.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C6-PFDA	91.6%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C7-PFUnA	81.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFDOA	96.2%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFTEDA	68.9%		50-150			03/27/23	1	Table B-15	BCC0432

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Sample Results (Continued)

Sample: WVV (Continued)
23C0135-01 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C3-PFBS	104%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-PFHXS	93.3%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOS	90.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	205% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	125%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	160% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	109%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-8:2FTS	141%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOA	66.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOA	60.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOA	72.4%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOSAA	117%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOSAA	130%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D7-NMEFOSE	59.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D9-NETFOSE	71.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-HFPO-DA	57.9%		50-150			03/27/23	1	Table B-15	BCC0432

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Sample Results (Continued)

Sample: NRT
23C0135-02 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	9.1 J	18	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEA	6.6 J	9.0	1.1	0.35	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXA	11 IR2	4.5	1.1	0.36	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPA	3.0 J	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFOA	11	4.5	1.1	0.46	ng/L	03/27/23	1	Table B-15	BCC0432
PFNA	1.2 J	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFDA	4.3 J	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFUnA	1.1 U	4.5	1.1	0.45	ng/L	03/27/23	1	Table B-15	BCC0432
PFDOA	1.4 J IR2,	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFTTDA	1.1 U	4.5	1.1	0.33	ng/L	03/27/23	1	Table B-15	BCC0432
PFTEDA	1.1 U	4.5	1.1	0.49	ng/L	03/27/23	1	Table B-15	BCC0432
PFBS	1.4 J	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEs	1.1 U	4.5	1.1	0.33	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXS	1.1 U	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPS	1.1 U	4.5	1.1	0.32	ng/L	03/27/23	1	Table B-15	BCC0432
PFOS	6.6	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
PFNS	2.3 U	4.5	2.3	1.4	ng/L	03/27/23	1	Table B-15	BCC0432
PFDS	1.1 U	4.5	1.1	0.36	ng/L	03/27/23	1	Table B-15	BCC0432
4:2FTS	2.3 U	18	2.3	0.61	ng/L	03/27/23	1	Table B-15	BCC0432
6:2FTS	1.1 U	18	1.1	0.51	ng/L	03/27/23	1	Table B-15	BCC0432
8:2FTS	3.4 U	18	3.4	1.1	ng/L	03/27/23	1	Table B-15	BCC0432
PFOSA	3.1 J	18	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSA	11 U	18	11	5.6	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSA	11 U	18	11	5.6	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSAA	9.4	4.5	1.1	0.41	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSAA	2.9 J MI4,	4.5	1.1	0.28	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSE	6.8 U	18	6.8	3.4	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSE	6.8 U	18	6.8	3.4	ng/L	03/27/23	1	Table B-15	BCC0432
HFPO-DA	5.7 U	9.0	5.7	2.8	ng/L	03/27/23	1	Table B-15	BCC0432
ADONA	3.4 U	9.0	3.4	1.5	ng/L	03/27/23	1	Table B-15	BCC0432
9CL-PF3ONS	3.4 U	9.0	3.4	1.3	ng/L	03/27/23	1	Table B-15	BCC0432
11CL-PF3OUDS	3.4 U	9.0	3.4	1.4	ng/L	03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFBA	91.3%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFPEA	54.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFHXA	57.8%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFHPA	51.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOA	99.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C9-PFNA	98.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C6-PFDA	88.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C7-PFUnA	94.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFDOA	95.3%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFTEDA	74.6%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-PFBS	107%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-PFHXS	99.5%		50-150			03/27/23	1	Table B-15	BCC0432

RVCOG
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Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Sample Results (Continued)

Sample: NRT (Continued)
23C0135-02 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	93.3%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	196% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	133%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	177% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	106%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-8:2FTS	157% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-8:2FTS	91.4%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C8-PFOA	70.2%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOA	66.5%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOA	73.4%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOSAA	126%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOSAA	143%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D7-NMEFOSE	57.8%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D9-NETFOSE	73.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-HFPO-DA	58.2%		50-150			03/27/23	1	Table B-15	BCC0432

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Central Point, OR 97502

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Project Number:
Project Manager: Greg Stabach

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Sample Results (Continued)

Sample: COLVER RD
23C0135-03 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	13 J	17	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEA	10	8.5	1.1	0.33	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXA	8.1 IR2	4.2	1.1	0.34	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPA	6.8	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFOA	23	4.2	1.1	0.43	ng/L	03/27/23	1	Table B-15	BCC0432
PFNA	6.7	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFDA	15	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFUnA	1.3 J	4.2	1.1	0.42	ng/L	03/27/23	1	Table B-15	BCC0432
PFDOA	2.6 J	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFTTDA	1.1 U	4.2	1.1	0.31	ng/L	03/27/23	1	Table B-15	BCC0432
PFTEDA	1.1 U	4.2	1.1	0.46	ng/L	03/27/23	1	Table B-15	BCC0432
PFBS	3.0 J	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFPEs	1.1 U	4.2	1.1	0.31	ng/L	03/27/23	1	Table B-15	BCC0432
PFHXS	1.5 J	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFHPS	1.1 U	4.2	1.1	0.30	ng/L	03/27/23	1	Table B-15	BCC0432
PFOS	48	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
PFNS	2.1 U	4.2	2.1	1.3	ng/L	03/27/23	1	Table B-15	BCC0432
PFDS	1.1 U	4.2	1.1	0.34	ng/L	03/27/23	1	Table B-15	BCC0432
4:2FTS	2.1 U	17	2.1	0.57	ng/L	03/27/23	1	Table B-15	BCC0432
6:2FTS	1.1 U	17	1.1	0.48	ng/L	03/27/23	1	Table B-15	BCC0432
8:2FTS	3.2 U	17	3.2	1.1	ng/L	03/27/23	1	Table B-15	BCC0432
PFOSA	2.1 J	17	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSA	11 U	17	11	5.2	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSA	11 U	17	11	5.2	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSAA	1.1 U	4.2	1.1	0.38	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSAA	1.6 J	4.2	1.1	0.26	ng/L	03/27/23	1	Table B-15	BCC0432
NMeFOSE	6.4 U	17	6.4	3.2	ng/L	03/27/23	1	Table B-15	BCC0432
NEtFOSE	6.4 U	17	6.4	3.2	ng/L	03/27/23	1	Table B-15	BCC0432
HFPO-DA	5.3 U	8.5	5.3	2.6	ng/L	03/27/23	1	Table B-15	BCC0432
ADONA	3.2 U	8.5	3.2	1.4	ng/L	03/27/23	1	Table B-15	BCC0432
9CL-PF3ONS	3.2 U	8.5	3.2	1.2	ng/L	03/27/23	1	Table B-15	BCC0432
11CL-PF3OUDS	3.2 U	8.5	3.2	1.3	ng/L	03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFBA	89.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFPEA	49.8% S1		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C5-PFPEA	54.9%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C5-PFHXA	57.8%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C4-PFHPA	50.3%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOA	102%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C9-PFNA	98.9%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C6-PFDA	91.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C7-PFUnA	84.9%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFDOA	98.0%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-PFTEDA	78.7%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-PFBS	85.6%		50-150			03/27/23	1	Table B-15	BCC0432

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Sample Results (Continued)

Sample: COLVER RD (Continued)
23C0135-03 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C3-PFHXS	82.6%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOS	94.9%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	163% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-4:2FTS	110%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	155% S2		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C2-6:2FTS	103%		50-150			03/27/23	10	Table B-15	BCC0432
Surrogate: 13C2-8:2FTS	134%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C8-PFOA	68.8%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOA	67.5%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOA	75.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D3-NMEFOSAA	113%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D5-NETFOSAA	133%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D7-NMEFOSE	62.1%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: D9-NETFOSE	74.5%		50-150			03/27/23	1	Table B-15	BCC0432
Surrogate: 13C3-HFPO-DA	60.9%		50-150			03/27/23	1	Table B-15	BCC0432

RVCOG	Project: Alameda Fire	
155 N Front St.	Project Number:	
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PREPARATION BATCH SUMMARY

Table B-15

Laboratory: APPL, LLC
Client: RVCOG
Batch: BCC0432 Batch Matrix: Water Preparation: Table B-15

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
WVV	23C0135-01	03/24/23 10:40	49.65	2.00
WVV	23C0135-01RE1	03/24/23 10:40	49.65	2.00
NRT	23C0135-02	03/24/23 10:40	44.23	2.00
NRT	23C0135-02RE1	03/24/23 10:40	44.23	2.00
COLVER RD	23C0135-03	03/24/23 10:40	47.23	2.00
COLVER RD	23C0135-03RE1	03/24/23 10:40	47.23	2.00
Blank	BCC0432-BLK1	03/24/23 10:40	50.00	2.00
LCS	BCC0432-BS1	03/24/23 10:40	50.00	2.00
LCS Dup	BCC0432-BSD1	03/24/23 10:40	50.00	2.00
MRL Check	BCC0432-MRL1	03/24/23 10:40	50.00	2.00

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Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Method: Table B-15

Batch: BCC0432 - Table B-15

	ng/L									
Blank (BCC0432-BLK1)										Prepared: 03/24/23 10:40 Analyzed: 03/27/23 15:54
PFBA	1.0 U	16	1.0	0.25						
PFPEA	1.0 U	8.0	1.0	0.31						
PFHXA	1.0 U	4.0	1.0	0.32						
PFHPA	1.0 U	4.0	1.0	0.25						
PFOA	1.0 U	4.0	1.0	0.41						
PFNA	1.0 U	4.0	1.0	0.25						
PFDA	1.0 U	4.0	1.0	0.25						
PFUnA	1.0 U	4.0	1.0	0.40						
PFDOA	1.0 U	4.0	1.0	0.25						
PFTRDA	1.0 U	4.0	1.0	0.29						
PFTEDA	1.0 U	4.0	1.0	0.43						
PFBS	1.0 U	4.0	1.0	0.25						
PFPEs	1.0 U	4.0	1.0	0.29						
PFHXS	1.0 U	4.0	1.0	0.25						
PFHPS	1.0 U	4.0	1.0	0.28						
PFOS	0.866 J MIZ,	4.0	1.0	0.25						
PFNS	2.0 U	4.0	2.0	1.2						
PFDS	1.0 U	4.0	1.0	0.32						
4:2FTS	2.0 U	16	2.0	0.54						
6:2FTS	1.0 U	16	1.0	0.45						
8:2FTS	3.0 U	16	3.0	1.0						
PFOSA	2.53 J	16	1.0	0.25						
NMeFOSA	10 U	16	10	4.9						
NEtFOSA	10 U	16	10	4.9						
NMeFOSAA	1.0 U	4.0	1.0	0.36						
NEtFOSAA	1.0 U	4.0	1.0	0.25						
NMeFOSE	6.0 U	16	6.0	3.0						
NEtFOSE	6.0 U	16	6.0	3.0						
HFPO-DA	5.0 U	8.0	5.0	2.4						
ADONA	3.0 U	8.0	3.0	1.3						
9CL-PF3ONS	3.0 U	8.0	3.0	1.2						
11CL-PF3OUDS	3.0 U	8.0	3.0	1.2						

Surrogates

13C4-PFBA	302	320	94.5	50-150
13C5-PFPEA	160	160	100	50-150
13C5-PFHXA	75.3	80.0	94.1	50-150
13C4-PFHPA	82.8	80.0	103	50-150
13C8-PFOA	94.1	80.0	118	50-150
13C9-PFNA	33.8	40.0	84.4	50-150
13C6-PFDA	37.7	40.0	94.3	50-150
13C7-PFUnA	38.4	40.0	95.9	50-150
13C2-PFDOA	40.5	40.0	101	50-150
13C2-PFTEDA	36.9	40.0	92.3	50-150
13C3-PFBS	83.0	80.0	104	50-150
13C3-PFHXS	74.6	80.0	93.2	50-150

RVCOG	Project: Alameda Fire	
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Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
Blank (BCC0432-BLK1)										
Surrogates										
13C8-PFOS	72.3				80.0		90.3	50-150		
13C2-4:2FTS	279 S2				160		175	50-150		
13C2-6:2FTS	157				160		97.9	50-150		
13C2-8:2FTS	140				160		87.5	50-150		
13C8-PFOSA	75.0				80.0		93.8	50-150		
D3-NMEFOSA	56.8				80.0		71.1	50-150		
D5-NETFOSA	67.8				80.0		84.8	50-150		
D3-NMEFOSAA	141				160		87.9	50-150		
D5-NETFOSAA	156				160		97.4	50-150		
D7-NMEFOSE	561				800		70.1	50-150		
D9-NETFOSE	745				800		93.1	50-150		
13C3-HFPO-DA	341				320		106	50-150		
ng/L										
LCS (BCC0432-BS1)										
PFBA	167				160		104	73-129		
PFPEA	79.4				80.0		99.3	72-129		
PFHXA	41.0				40.0		103	72-129		
PFHPA	42.2				40.0		106	72-130		
PFOA	41.8				40.0		104	71-133		
PFNA	45.1				40.0		113	69-130		
PFDA	39.7				40.0		99.3	71-129		
PFUnA	39.5				40.0		98.8	69-133		
PFDOA	42.9				40.0		107	72-134		
PFTRDA	40.7				40.0		102	65-144		
PFTEDA	36.7				40.0		91.7	71-132		
PFBS	35.4				35.4		100	72-130		
PFPEs	36.1				37.6		96.0	71-127		
PFHXS	34.4				36.6		94.0	68-131		
PFHPS	38.6				38.2		101	69-134		
PFOS	40.8				37.2		110	65-140		
PFNS	40.1				38.4		104	69-127		
PFDS	38.9				38.6		101	53-142		
4:2FTS	170				150		113	63-143		
6:2FTS	162				152		106	64-140		
8:2FTS	163				154		106	67-138		
PFOSA	48.3				40.0		121	67-137		
NMeFOSA	174				160		109	68-141		
NEtFOSA	156				160		97.5	70-130		
NMeFOSAA	39.3				40.0		98.2	65-136		
NEtFOSAA	38.4				40.0		96.0	61-135		
NMeFOSE	168				160		105	70-130		
NEtFOSE	170				160		106	70-130		
HFPO-DA	68.9				80.0		86.1	44-175		
ADONA	64.4				75.6		85.1	61-169		
9CL-PF3ONS	65.8				74.8		88.0	62-140		
11CL-PF3OUDS	65.1				75.6		86.1	54-138		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
LCS (BCC0432-BS1)					Prepared: 03/24/23 10:40 Analyzed: 03/27/23 16:06					
Surrogates										
13C4-PFBA	291				320		91.0	50-150		
13C5-PFPEA	133				160		83.3	50-150		
13C5-PFHXA	68.5				80.0		85.6	50-150		
13C4-PFHFA	65.9				80.0		82.3	50-150		
13C8-PFOA	78.7				80.0		98.3	50-150		
13C9-PFNA	38.2				40.0		95.5	50-150		
13C6-PFDA	37.7				40.0		94.2	50-150		
13C7-PFUnA	36.0				40.0		89.9	50-150		
13C2-PFDOA	36.0				40.0		90.1	50-150		
13C2-PFTEDA	33.5				40.0		83.6	50-150		
13C3-PFBS	72.2				80.0		90.3	50-150		
13C3-PFHXS	84.3				80.0		105	50-150		
13C8-PFOS	75.4				80.0		94.3	50-150		
13C2-4:2FTS	236				160		148	50-150		
13C2-6:2FTS	149				160		93.0	50-150		
13C2-8:2FTS	139				160		86.8	50-150		
13C8-PFOA	75.9				80.0		94.9	50-150		
D3-NMEFOSA	57.4				80.0		71.8	50-150		
D5-NETFOA	67.2				80.0		84.0	50-150		
D3-NMEFOSAA	149				160		92.8	50-150		
D5-NETFOSAA	156				160		97.8	50-150		
D7-NMEFOSE	606				800		75.7	50-150		
D9-NETFOSE	709				800		88.6	50-150		
13C3-HFPO-DA	304				320		95.1	50-150		

LCS Dup (BCC0432-BSD1)		ng/L	Prepared: 03/24/23 10:40 Analyzed: 03/27/23 16:19			
PFBA	149	160	92.9	73-129	11.3	30
PFPEA	80.2	80.0	100	72-129	0.923	30
PFHXA	48.7	40.0	122	72-129	17.1	30
PFHPA	44.6	40.0	111	72-130	5.43	30
PFOA	35.4	40.0	88.4	71-133	16.6	30
PFNA	39.3	40.0	98.3	69-130	13.6	30
PFDA	41.5	40.0	104	71-129	4.42	30
PFUnA	38.9	40.0	97.3	69-133	1.53	30
PFDOA	42.0	40.0	105	72-134	1.93	30
PFTRDA	42.7	40.0	107	65-144	4.63	30
PFTEDA	45.2	40.0	113	71-132	20.7	30
PFBS	35.1	35.4	99.0	72-130	0.995	30
PFPEs	37.6	37.6	99.9	71-127	3.99	30
PFHXS	35.6	36.6	97.3	68-131	3.49	30
PFHPS	40.2	38.2	105	69-134	4.07	30
PFOS	38.0	37.2	102	65-140	7.18	30
PFNS	39.7	38.4	103	69-127	0.986	30
PFDS	38.8	38.6	100	53-142	0.298	30
4:2FTS	134	150	89.1	63-143	23.7	30
6:2FTS	164	152	108	64-140	1.54	30
8:2FTS	157	154	102	67-138	4.00	30

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
LCS Dup (BCC0432-BSD1)						Prepared: 03/24/23 10:40	Analyzed: 03/27/23 16:19			
PFOSA	48.2				40.0		120	67-137	0.347	30
NMeFOSA	180				160		113	68-141	3.81	30
NEtFOSA	162				160		101	70-130	3.48	30
NMeFOSAA	45.8				40.0		114	65-136	15.3	30
NEtFOSAA	38.8				40.0		97.0	61-135	1.01	30
NMeFOSE	171				160		107	70-130	1.48	30
NEtFOSE	162				160		101	70-130	4.65	30
HFPO-DA	77.2				80.0		96.5	44-175	11.4	30
ADONA	69.6				75.6		92.1	61-169	7.90	30
9CL-PF3ONS	71.2				74.8		95.2	62-140	7.91	30
11CL-PF3OUDS	69.3				75.6		91.7	54-138	6.24	30
Surrogates										
13C4-PFBA	298				320		93.0	50-150		
13C5-PFPEA	128				160		80.1	50-150		
13C5-PFHXA	67.5				80.0		84.3	50-150		
13C4-PFHFA	63.9				80.0		79.8	50-150		
13C8-PFOA	84.7				80.0		106	50-150		
13C9-PFNA	37.4				40.0		93.6	50-150		
13C6-PFDA	36.2				40.0		90.6	50-150		
13C7-PFUnA	36.3				40.0		90.7	50-150		
13C2-PFDOA	35.5				40.0		88.7	50-150		
13C2-PFTEDA	34.0				40.0		85.0	50-150		
13C3-PFBS	76.2				80.0		95.2	50-150		
13C3-PFHXS	79.2				80.0		99.0	50-150		
13C8-PFOS	75.0				80.0		93.7	50-150		
13C2-4:2FTS	247 S2				160		155	50-150		
13C2-6:2FTS	141				160		87.9	50-150		
13C2-8:2FTS	137				160		85.8	50-150		
13C8-PFOSA	74.5				80.0		93.1	50-150		
D3-NMEFOSA	56.8				80.0		71.0	50-150		
D5-NETFOSA	65.6				80.0		82.0	50-150		
D3-NMEFOSAA	157				160		98.3	50-150		
D5-NETFOSAA	162				160		101	50-150		
D7-NMEFOSE	554				800		69.2	50-150		
D9-NETFOSE	709				800		88.7	50-150		
13C3-HFPO-DA	277				320		86.5	50-150		

RVCOG	Project: Alameda Fire	
155 N Front St.	Project Number:	
Central Point, OR 97502	Project Manager: Greg Stabach	Reported: 04/27/2023 13:26

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
MRL Check (BCC0432-MRL1)					Prepared: 03/24/23 10:40 Analyzed: 03/27/23 16:32					
PFBA	17.7				16.0		110	73-129		
PFPEA	8.80				8.00		110	72-129		
PFHXA	3.86 J IR2,				4.00		96.5	72-129		
PFHPA	4.61				4.00		115	72-130		
PFOA	5.07				4.00		127	71-133		
PFNA	4.73				4.00		118	69-130		
PFDA	4.38				4.00		110	71-129		
PFUnA	3.86 J				4.00		96.6	69-133		
PFDOA	4.32				4.00		108	72-134		
PFTRDA	4.55				4.00		114	65-144		
PFTEDA	4.15				4.00		104	71-132		
PFBS	3.41 J				3.54		96.4	72-130		
PFPEs	3.82 J				3.76		102	71-127		
PFHXS	3.52 J				3.66		96.2	68-131		
PFHPS	4.36				3.82		114	69-134		
PFOS	4.18 MI2				3.72		112	65-140		
PFNS	4.10				3.84		107	69-127		
PFDS	3.62 J				3.86		93.9	53-142		
4:2FTS	14.0 J				15.0		93.7	63-143		
6:2FTS	16.2				15.2		107	64-140		
8:2FTS	13.6 J				15.4		88.5	67-138		
PFOSA	10.2 J BS2,				4.00		255	67-137		
NMeFOSA	15.5 J				16.0		96.7	68-141		
NEtFOSA	15.2 J				16.0		94.9	70-130		
NMeFOSAA	4.86				4.00		121	65-136		
NEtFOSAA	5.21				4.00		130	61-135		
NMeFOSE	16.8				16.0		105	70-130		
NEtFOSE	15.4 J				16.0		96.2	70-130		
HFPO-DA	8.25				8.00		103	44-175		
ADONA	6.24 J				7.56		82.5	61-169		
9CL-PF3ONS	6.10 J				7.48		81.6	62-140		
11CL-PF3OUDS	6.05 J				7.56		80.1	54-138		

Surrogates										
13C4-PFBA	308				320		96.3	50-150		
13C5-PFPEA	120				160		74.7	50-150		
13C5-PFHXA	68.8				80.0		86.0	50-150		
13C4-PFHPA	64.7				80.0		80.9	50-150		
13C8-PFOA	82.6				80.0		103	50-150		
13C9-PFNA	35.2				40.0		88.0	50-150		
13C6-PFDA	35.8				40.0		89.4	50-150		
13C7-PFUnA	37.7				40.0		94.3	50-150		
13C2-PFDOA	33.6				40.0		84.0	50-150		
13C2-PFTEDA	34.3				40.0		85.6	50-150		
13C3-PFBS	88.4				80.0		110	50-150		
13C3-PFHXS	71.9				80.0		89.9	50-150		
13C8-PFOS	70.3				80.0		87.9	50-150		
13C2-4:2FTS	258 S2				160		161	50-150		
13C2-6:2FTS	137				160		85.5	50-150		

RVCOG	Project: Alameda Fire	
155 N Front St.	Project Number:	
Central Point, OR 97502	Project Manager: Greg Stabach	Reported: 04/27/2023 13:26

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
MRL Check (BCC0432-MRL1)						Prepared: 03/24/23 10:40 Analyzed: 03/27/23 16:32				

Surrogates										
13C2-8:2FTS	132				160		82.8	50-150		
13C8-PFOSA	71.1				80.0		88.9	50-150		
D3-NMEFOSA	53.3				80.0		66.6	50-150		
D5-NETFOSA	59.6				80.0		74.6	50-150		
D3-NMEFOSAA	137				160		85.5	50-150		
D5-NETFOSAA	150				160		94.0	50-150		
D7-NMEFOSE	515				800		64.3	50-150		
D9-NETFOSE	677				800		84.6	50-150		
13C3-HFPO-DA	304				320		95.1	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

Notes and Definitions

Item	Definition
BS2	Blank spike recovered above the upper control limit
IR1	Ion ratio below the lower control limit
IR2	Ion ratio above the upper control limit
J	Estimated value
MI2	Manual integration, non-target peak interference
MI4	Manual integration, peak unsplit
S1	Surrogate recovered below the lower control limit
S2	Surrogate recovered above the upper control limit
U	Not detected
Dry	Sample results reported on a dry weight basis.
DF	Dilution Factor
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
LOQ, Limit of Quantitation = Method Reporting Limit (MRL).	

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Almeda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26



WORK ORDER

23C0135

Printed: 04/27/2023 1:26 pm

Project: Almeda Fire
Project Number:
Project Manager: Chue Moua
PO Number:

Report To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Invoice To:

APEX Laboratories, LLC
Michele Poquiz
6700 SW Sandburg St.
Tigard, OR 97223
Phone: (503) 718-2323

Date Received: 03/15/2023 10:00 AM
Date Due: 03/29/2023 (10.00 day TAT)

Logged In By: Megan Salata
Received By: Megan Horne

Analysis	Comments
23C0135-01 WVV [Water] Sampled 3/13/2023 7:30:00AM	
B-15 DOD	NONE
23C0135-02 NRT [Water] Sampled 3/13/2023 6:26:00AM	
B-15 DOD	NONE
23C0135-03 COLVER RD [Water] Sampled 3/13/2023 6:59:00AM	
B-15 DOD	NONE

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 04/27/2023 13:26

23C0135 Sample Receipt Log

Default Cooler

Samples Received at: 2.0°C

Custody Seals	No	Were all containers sealed in separate bags?	Yes
Containers Intact	Yes	Did all containers arrive in good condition?	Yes
COC/Labels Agree	Yes	Correct containers/preserv. for tests indicated?	Yes
Preservation Confirmed	No	Sufficient volume sent for tests requested?	Yes
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	Yes
COCs complete/signed in the appropriate places?	Yes	pH of non-VOA preserved containers documented?	No
Sample labels complete? Sample ID, date/time, etc.	Yes	Unpreserved vials received for VOA analysis?	No
Did all container labels agree with COCs?	Yes	If "yes", are unpreserved VOA vials noted on ARF?	No

Red

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. 55052

2300135

Report to: PLEASE PRINT		Invoice to: PLEASE PRINT	
Company Name: RVCOG Phone: 541-664-6674		Company Name: Same Phone:	
Address: 155 N first ST Fax:		Address: Fax:	
Attn: Greg Stabach		Attn:	
Email: gstabach@rvco9.org		Email:	
Project Name/Number		Sampler (Print)	
Purchase Order Number		Sampler (Signature)	
Sample Identification		Location	
Date Collected		Time Collected	
Time Zone		No. of Containers	
Aq		Matrix	
Sed.		Soil	
PFOs		Dioxins	
Furans		PFOA	
Date Shipped: 3/14/23		Carrier:	
Waybill No.:		Comments:	
W VV		3/13 7:30 PST 4 V	
N RT		3/13 6:26 1 V	
Colver Rd		3/13 6:59 1 V	
Shuttle Temperature: RT-5/20		Turnaround Requested: Check one	
Relinquished by sampler: Alex Galluzzo		Standard 2-3 wk One week 3 days 24/48 Hrs. Other:	
Relinquished by:		Sample Disposal: Return to client Disposal by Lab (30-day retention)	
Date		Time	
Received by:		Relinquished by:	
Date		Time	
Received by:		Relinquished by:	
Date		Time	
Received at lab by:		Received by:	

White: Return to client with report

Yellow: Laboratory Copy

See reverse side for Container Preservative and Sampling Information

No Custody Seal

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St.
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: WVV

Sample Collection Date: 3/13/2023

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98931

APPL ID: BA49622

QCG: #829ADOD5-274600-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	42 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,7,8-PECDF	4.3 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDD	320	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDF	Not detected	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	TEQ	5.6	NA	pg/L	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	55.3	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	57.7	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	66.3	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	68.3	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	54.4	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	54.4	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	57.9	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	54.4	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	46.4	40-135	%	3/17/2023	3/25/2023

J = Estimated value.

Quant Method: 230324_8290
Run #: 230324_HR_18
Instrument: Magneto
Sequence: 230324
Dilution Factor: 1
Initials: LA

Printed: 4/27/2023 1:07:59 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St.
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: NRT

Sample Collection Date: 3/13/2023

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98931

APPL ID: BA49623

QCG: #829ADOD5-274600-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	43 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	16 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDD	270	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDF	Not detected	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	TEQ	2.1	NA	pg/L	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	64.7	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	64.6	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	71.3	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	75.8	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	58.7	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	58.6	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	60.9	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	56.9	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	56.1	40-135	%	3/17/2023	3/25/2023

J = Estimated value.

Quant Method: 230324_8290
Run #: 230324_HR_19
Instrument: Magneto
Sequence: 230324
Dilution Factor: 1
Initials: LA

Printed: 4/27/2023 1:07:59 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N Front St.
Central Point, OR 97502

Attn: Greg Stabach
Project: Alameda Fire

Sample ID: COLVER RD

Sample Collection Date: 3/13/2023

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98931

APPL ID: BA49624

QCG: #829ADOD5-274600-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	110 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	3.1 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	5.2 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	46 J	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDD	590	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	OCDF	110 J	250.0	pg/L	3/17/2023	3/25/2023
EPA 8290A	TEQ	6.7	NA	pg/L	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	83.1	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	83.0	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	93.8	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	98.8	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	77.5	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	78.4	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	80.7	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	77.5	40-135	%	3/17/2023	3/25/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	74.3	40-135	%	3/17/2023	3/25/2023

J = Estimated value.

Quant Method: 230324_8290
Run #: 230324_HR_20
Instrument: Magneto
Sequence: 230324
Dilution Factor: 1
Initials: LA

Printed: 4/27/2023 1:07:59 PM
Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **230317W-49622 - 274600**
 Batch ID: #829ADOD5-274600

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	31 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,4,6,7,8-HPCDF	29 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,4,7,8,9-HPCDF	27 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,4,7,8-HXCDD	23 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,4,7,8-HXCDF	23 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,6,7,8-HXCDD	Not detected	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,7,8,9-HXCDD	25 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,7,8,9-HXCDF	25 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,7,8-PECDD	32 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	1,2,3,7,8-PECDF	28 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	2,3,4,6,7,8-HXCDF	24 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	2,3,4,7,8-PECDF	29 J	125.0	pg/L	3/17/2023	3/25/2023
BLANK	2,3,7,8-TCDD	11 J	50.0	pg/L	3/17/2023	3/25/2023
BLANK	2,3,7,8-TCDF	14 J	50.0	pg/L	3/17/2023	3/25/2023
BLANK	OCDD	Not detected	250.0	pg/L	3/17/2023	3/25/2023
BLANK	OCDF	50 J	250.0	pg/L	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	83.6	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	81.8	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	87.5	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	91.7	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	66.3	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	66.0	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	71.7	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	70.5	40-135	%	3/17/2023	3/25/2023
BLANK	SURROGATE: 13C-OCDD (S)	78.7	40-135	%	3/17/2023	3/25/2023

J = Estimated value.

Quant Method: 230324_8290
 Run #: 230324_HR_17
 Instrument: Magneto
 Sequence: 230324
 Initials: LA

Printed: 4/27/2023 1:07:27 PM

Laboratory Control Spike Recovery

EPA 8290A - DIOXINS & FURANS

APPL ID: **230317W-49622 LCS - 274600**

Batch ID: #829ADOD5-274600

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level pg/L	SPK Result pg/L	SPK % Recovery	Recovery Limits
1,2,3,4,6,7,8-HPCDD	1250	1580	126 #	79-122
1,2,3,4,6,7,8-HPCDF	1250	1560	125	81-130
1,2,3,4,7,8,9-HPCDF	1250	1420	114	77-128
1,2,3,4,7,8-HXCDD	1250	1370	110	80-126
1,2,3,4,7,8-HXCDF	1250	1390	111	80-130
1,2,3,6,7,8-HXCDD	1250	1340	107	78-134
1,2,3,6,7,8-HXCDF	1250	1380	110	79-131
1,2,3,7,8,9-HXCDD	1250	1310	105	76-137
1,2,3,7,8,9-HXCDF	1250	1470	118	83-130
1,2,3,7,8-PECDD	1250	1320	106	76-121
1,2,3,7,8-PECDF	1250	1300	104	82-130
2,3,4,6,7,8-HXCDF	1250	1370	110	81-130
2,3,4,7,8-PECDF	1250	1270	102	77-129
2,3,7,8-TCDD	500	468	93.6	71-125
2,3,7,8-TCDF	500	473	94.6	72-138
OCDD	2500	2990	120	81-135
OCDF	2500	2630	105	66-150
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	2390	47.8	40-135
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	2440	48.8	40-135
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	2630	52.6	40-135
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	2730	54.6	40-135
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	977	48.9	40-135
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	955	47.8	40-135
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1050	52.5	40-135
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1020	51.0	40-135
SURROGATE: 13C-OCDD (S)	10000	4460	44.6	40-135

= Recovery is outside QC limits.

Comments:

Primary	SPK
Quant Method :	230324_8290
Extraction Date :	3/17/2023
Analysis Date :	3/25/2023
Instrument :	Magneto
Run :	230324_HR_15
Initials :	LA

Printed: 4/27/2023 1:07:07 PM

APPL Standard LCS

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Friday, June 23, 2023

Greg Stabach

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

RE: A3E0957 - Almeda Post Fire Monitoring-2023 - Almeda Post Fire Monitoring-2023

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E0957, which was received by the laboratory on 5/3/2023 at 10:47:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 4.8 degC

Cooler #2 4.0 degC

Cooler #3 3.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Page 1 of 51



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Valley View (WVV), OF	A3E0957-01	Water	05/02/23 10:02	05/03/23 10:47
North Ridge Terrace (NRT), OF	A3E0957-02	Water	05/02/23 09:06	05/03/23 10:47
Colver Rd, OF	A3E0957-03	Water	05/02/23 09:36	05/03/23 10:47

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 2 of 51



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL CASE NARRATIVE

A3E0957

Apex Laboratories

Subcontract

This report is complete only when the subcontract laboratory reports are attached from:
ALS Life Sciences - Burlington Laboratory, Canada for polybrominated compound analyses and
Agriculture and Priority Pollutants Laboratories, Inc. (APPL Inc.) for PFAS and Dioxin/Furan analyses.

Michele Poquiz
Forensics Project Manager
5/23/23

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 3 of 51



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		Batch: 23E0593		
Diesel	171	42.1	84.2	ug/L	1	05/16/23 01:23	NWTPH-Dx LL	F-11
Oil	ND	84.2	168	ug/L	1	05/16/23 01:23	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %	1	05/16/23 01:23	NWTPH-Dx LL	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0593		
Diesel	718	43.5	87.0	ug/L	1	05/16/23 01:44	NWTPH-Dx LL	F-11
Oil	ND	87.0	174	ug/L	1	05/16/23 01:44	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 99 %		Limits: 50-150 %	1	05/16/23 01:44	NWTPH-Dx LL	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0593		
Diesel	591	41.7	83.3	ug/L	1	05/16/23 02:05	NWTPH-Dx LL	F-11
Oil	ND	83.3	167	ug/L	1	05/16/23 02:05	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Recovery: 105 %		Limits: 50-150 %	1	05/16/23 02:05	NWTPH-Dx LL	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Page 4 of 51



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01RE1)				Matrix: Water		Batch: 23E0300		
Acenaphthene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Acenaphthylene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Anthracene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Benz(a)anthracene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Benzo(a)pyrene	ND	0.0156	0.0312	ug/L	1	05/08/23 18:12	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0156	0.0312	ug/L	1	05/08/23 18:12	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0156	0.0312	ug/L	1	05/08/23 18:12	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Chrysene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Fluoranthene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Fluorene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
1-Methylnaphthalene	ND	0.0208	0.0417	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Methylnaphthalene	ND	0.0208	0.0417	ug/L	1	05/08/23 18:12	EPA 8270E	
Naphthalene	ND	0.0208	0.0417	ug/L	1	05/08/23 18:12	EPA 8270E	
Phenanthrene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Pyrene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Carbazole	ND	0.0156	0.0312	ug/L	1	05/08/23 18:12	EPA 8270E	
Dibenzofuran	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Chlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4-Dichlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4-Dimethylphenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4-Dinitrophenol	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Methylphenol	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0521	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Nitrophenol	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Nitrophenol	ND	0.208	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
Pentachlorophenol (PCP)	0.128	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	J
Phenol	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3E0957 - 06 23 23 1253**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01RE1)				Matrix: Water		Batch: 23E0300		
2,3,4,6-Tetrachlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Butyl benzyl phthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Diethylphthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Dimethylphthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Di-n-butylphthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Di-n-octyl phthalate	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Hexachlorobenzene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
Hexachlorobutadiene	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
Hexachloroethane	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Chloronaphthalene	ND	0.0104	0.0208	ug/L	1	05/08/23 18:12	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Aniline	ND	0.0521	0.104	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Chloroaniline	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
2-Nitroaniline	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
3-Nitroaniline	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
4-Nitroaniline	ND	0.208	0.417	ug/L	1	05/08/23 18:12	EPA 8270E	
Nitrobenzene	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
2,4-Dinitrotoluene	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
2,6-Dinitrotoluene	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01RE1)				Matrix: Water		Batch: 23E0300		
Benzoic acid	ND	2.60	2.60	ug/L	1	05/08/23 18:12	EPA 8270E	
Benzyl alcohol	0.273	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
Isophorone	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.521	1.04	ug/L	1	05/08/23 18:12	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
1,3-Dinitrobenzene	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
1,4-Dinitrobenzene	ND	0.260	0.521	ug/L	1	05/08/23 18:12	EPA 8270E	
Pyridine	ND	0.104	0.208	ug/L	1	05/08/23 18:12	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0260	0.0521	ug/L	1	05/08/23 18:12	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 51 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	
<i>2-Fluorobiphenyl (Surr)</i>		<i>47 %</i>		<i>44-120 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	
<i>Phenol-d6 (Surr)</i>		<i>18 %</i>		<i>10-133 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>92 %</i>		<i>50-134 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	
<i>2-Fluorophenol (Surr)</i>		<i>27 %</i>		<i>19-120 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	
<i>2,4,6-Tribromophenol (Surr)</i>		<i>89 %</i>		<i>43-140 %</i>	<i>1</i>	<i>05/08/23 18:12</i>	<i>EPA 8270E</i>	

North Ridge Terrace (NRT), OF (A3E0957-02)**Matrix: Water****Batch: 23E0300****R-04**

Acenaphthene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Acenaphthylene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Anthracene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Benz(a)anthracene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzo(a)pyrene	ND	0.0625	0.125	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0625	0.125	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0625	0.125	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Chrysene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Fluoranthene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Fluorene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0300		R-04
Indeno(1,2,3-cd)pyrene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
1-Methylnaphthalene	ND	0.0833	0.167	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Methylnaphthalene	ND	0.0833	0.167	ug/L	4	05/08/23 16:59	EPA 8270E	
Naphthalene	ND	0.0833	0.167	ug/L	4	05/08/23 16:59	EPA 8270E	
Phenanthrene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Pyrene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Carbazole	ND	0.0625	0.125	ug/L	4	05/08/23 16:59	EPA 8270E	
Dibenzofuran	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Chlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4-Dichlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4-Dimethylphenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4-Dinitrophenol	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Methylphenol	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
3+4-Methylphenol(s)	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Nitrophenol	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Nitrophenol	ND	0.833	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
Phenol	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Butyl benzyl phthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Diethylphthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Dimethylphthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Di-n-butylphthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Di-n-octyl phthalate	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
N-Nitrosodimethylamine	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0300		R-04
N-Nitrosodiphenylamine	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Hexachlorobenzene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
Hexachlorobutadiene	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
Hexachloroethane	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Chloronaphthalene	ND	0.0417	0.0833	ug/L	4	05/08/23 16:59	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Aniline	ND	0.208	0.417	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Chloroaniline	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
2-Nitroaniline	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
3-Nitroaniline	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
4-Nitroaniline	ND	0.833	1.67	ug/L	4	05/08/23 16:59	EPA 8270E	
Nitrobenzene	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
2,4-Dinitrotoluene	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
2,6-Dinitrotoluene	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzoic acid	ND	10.4	10.4	ug/L	4	05/08/23 16:59	EPA 8270E	
Benzyl alcohol	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
Isophorone	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.08	4.17	ug/L	4	05/08/23 16:59	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
1,3-Dinitrobenzene	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
1,4-Dinitrobenzene	ND	1.04	2.08	ug/L	4	05/08/23 16:59	EPA 8270E	
Pyridine	ND	0.417	0.833	ug/L	4	05/08/23 16:59	EPA 8270E	
1,2-Dichlorobenzene	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
1,3-Dichlorobenzene	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	

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Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0300		R-04
1,4-Dichlorobenzene	ND	0.104	0.208	ug/L	4	05/08/23 16:59	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 45 %		Limits: 44-120 %	4	05/08/23 16:59	EPA 8270E	
2-Fluorobiphenyl (Surr)		50 %		44-120 %	4	05/08/23 16:59	EPA 8270E	
Phenol-d6 (Surr)		15 %		10-133 %	4	05/08/23 16:59	EPA 8270E	
p-Terphenyl-d14 (Surr)		95 %		50-134 %	4	05/08/23 16:59	EPA 8270E	
2-Fluorophenol (Surr)		26 %		19-120 %	4	05/08/23 16:59	EPA 8270E	
2,4,6-Tribromophenol (Surr)		107 %		43-140 %	4	05/08/23 16:59	EPA 8270E	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0300		R-04
Acenaphthene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Acenaphthylene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Anthracene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Benz(a)anthracene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzo(a)pyrene	ND	0.0600	0.120	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0600	0.120	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0600	0.120	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Chrysene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Fluoranthene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Fluorene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
1-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Methylnaphthalene	ND	0.0800	0.160	ug/L	4	05/08/23 17:35	EPA 8270E	
Naphthalene	ND	0.0800	0.160	ug/L	4	05/08/23 17:35	EPA 8270E	
Phenanthrene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Pyrene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Carbazole	ND	0.0600	0.120	ug/L	4	05/08/23 17:35	EPA 8270E	
Dibenzofuran	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Chlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
2,4-Dichlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
2,4-Dimethylphenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A3E0957-03)		Matrix: Water			Batch: 23E0300		R-04	
2,4-Dinitrophenol	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Methylphenol	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
3+4-Methylphenol(s)	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Nitrophenol	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Nitrophenol	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
Pentachlorophenol (PCP)	0.437	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	J
Phenol	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Butyl benzyl phthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Diethylphthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Dimethylphthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Di-n-butylphthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Di-n-octyl phthalate	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
N-Nitrosodimethylamine	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Hexachlorobenzene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
Hexachlorobutadiene	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
Hexachloroethane	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Chloronaphthalene	ND	0.0400	0.0800	ug/L	4	05/08/23 17:35	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3E0957 - 06 23 23 1253**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Colver Rd, OF (A3E0957-03)		Matrix: Water			Batch: 23E0300		R-04	
Aniline	ND	0.200	0.400	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Chloroaniline	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
2-Nitroaniline	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
3-Nitroaniline	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
4-Nitroaniline	ND	0.800	1.60	ug/L	4	05/08/23 17:35	EPA 8270E	
Nitrobenzene	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
2,4-Dinitrotoluene	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
2,6-Dinitrotoluene	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzoic acid	ND	10.0	10.0	ug/L	4	05/08/23 17:35	EPA 8270E	
Benzyl alcohol	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
Isophorone	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
3,3'-Dichlorobenzidine	ND	2.00	4.00	ug/L	4	05/08/23 17:35	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
1,3-Dinitrobenzene	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
1,4-Dinitrobenzene	ND	1.00	2.00	ug/L	4	05/08/23 17:35	EPA 8270E	
Pyridine	ND	0.400	0.800	ug/L	4	05/08/23 17:35	EPA 8270E	
1,2-Dichlorobenzene	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
1,3-Dichlorobenzene	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
1,4-Dichlorobenzene	ND	0.100	0.200	ug/L	4	05/08/23 17:35	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	87 %	Limits:	44-120 %	4	05/08/23 17:35	EPA 8270E
2-Fluorobiphenyl (Surr)			82 %		44-120 %	4	05/08/23 17:35	EPA 8270E
Phenol-d6 (Surr)			26 %		10-133 %	4	05/08/23 17:35	EPA 8270E
p-Terphenyl-d14 (Surr)			94 %		50-134 %	4	05/08/23 17:35	EPA 8270E
2-Fluorophenol (Surr)			46 %		19-120 %	4	05/08/23 17:35	EPA 8270E
2,4,6-Tribromophenol (Surr)			113 %		43-140 %	4	05/08/23 17:35	EPA 8270E

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Custom Tentatively Identified Compounds by GC/MS (8270E)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01RE1)				Matrix: Water		Batch: 23E0300		
See TIC Report	0.0	---		ug/L	1	05/08/23 18:12	EPA 8270E TICs	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0300		
See TIC Report	0.0	---		ug/L	4	05/08/23 16:59	EPA 8270E TICs	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0300		
See TIC Report	0.0	---		ug/L	4	05/08/23 17:35	EPA 8270E TICs	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water				
Batch: 23E0513								
Aluminum	9260	25.0	50.0	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Antimony	1.03	0.500	1.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Arsenic	1.93	0.500	1.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Beryllium	0.165	0.100	0.200	ug/L	1	05/15/23 20:54	EPA 200.8	CONT,J
Cadmium	0.108	0.100	0.200	ug/L	1	05/15/23 20:54	EPA 200.8	CONT,J
Calcium	10600	375	600	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Chromium	10.8	1.00	2.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Copper	31.8	1.00	2.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Iron	8540	25.0	50.0	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Lead	11.1	0.100	0.200	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Magnesium	4280	75.0	150	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Mercury	ND	0.0400	0.0800	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Nickel	11.3	1.00	2.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Selenium	ND	0.500	1.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Silver	ND	0.100	0.200	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Thallium	ND	0.100	0.200	ug/L	1	05/15/23 20:54	EPA 200.8	CONT
Zinc	133	2.00	4.00	ug/L	1	05/15/23 20:54	EPA 200.8	CONT,B-02

North Ridge Terrace (NRT), OF (A3E0957-02)

Matrix: Water

Batch: 23E0513								
Aluminum	2240	25.0	50.0	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Antimony	0.569	0.500	1.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT,J
Arsenic	1.15	0.500	1.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Beryllium	ND	0.100	0.200	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Cadmium	ND	0.100	0.200	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Calcium	5070	375	600	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Chromium	4.36	1.00	2.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Copper	29.9	1.00	2.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Iron	2980	25.0	50.0	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Lead	3.56	0.100	0.200	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Magnesium	1400	75.0	150	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Mercury	ND	0.0400	0.0800	ug/L	1	05/15/23 20:59	EPA 200.8	CONT

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water				
Nickel	3.96	1.00	2.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Selenium	ND	0.500	1.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Silver	ND	0.100	0.200	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Thallium	ND	0.100	0.200	ug/L	1	05/15/23 20:59	EPA 200.8	CONT
Zinc	227	2.00	4.00	ug/L	1	05/15/23 20:59	EPA 200.8	CONT,B-02
Colver Rd, OF (A3E0957-03)				Matrix: Water				
Batch: 23E0513								
Aluminum	2270	25.0	50.0	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Antimony	ND	0.500	1.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Arsenic	1.00	0.500	1.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Beryllium	ND	0.100	0.200	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Cadmium	ND	0.100	0.200	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Calcium	7550	375	600	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Chromium	3.52	1.00	2.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Copper	13.2	1.00	2.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Iron	2500	25.0	50.0	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Lead	3.11	0.100	0.200	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Magnesium	1460	75.0	150	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Mercury	ND	0.0400	0.0800	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Nickel	4.45	1.00	2.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Selenium	ND	0.500	1.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Silver	ND	0.100	0.200	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Thallium	ND	0.100	0.200	ug/L	1	05/15/23 21:03	EPA 200.8	CONT
Zinc	51.0	2.00	4.00	ug/L	1	05/15/23 21:03	EPA 200.8	CONT,B-02

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		(Calculated)		
Hardness	44.1	---	2.12	mg CaCO3/L	1	05/15/23 20:54	SM 2340B	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		(Calculated)		
Hardness	18.4	---	2.12	mg CaCO3/L	1	05/15/23 20:59	SM 2340B	
Colver Rd, OF (A3E0957-03)				Matrix: Water		(Calculated)		
Hardness	24.8	---	2.12	mg CaCO3/L	1	05/15/23 21:03	SM 2340B	

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ANALYTICAL REPORT

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155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water				
Batch: 23E0165								
Nitrate-Nitrogen	0.172	0.125	0.250	mg/L	1	05/03/23 22:05	EPA 300.0	J
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	05/03/23 22:05	EPA 300.0	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water				
Batch: 23E0165								
Nitrate-Nitrogen	0.358	0.125	0.250	mg/L	1	05/03/23 22:27	EPA 300.0	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	05/03/23 22:27	EPA 300.0	
Colver Rd, OF (A3E0957-03)				Matrix: Water				
Batch: 23E0165								
Nitrate-Nitrogen	0.243	0.125	0.250	mg/L	1	05/03/23 22:48	EPA 300.0	J
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	05/03/23 22:48	EPA 300.0	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

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ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		Batch: 23E0599		
Total Kjeldahl Nitrogen (TKN)	1.07	---	0.200	mg/L	1	05/16/23 10:36	EPA 351.2	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0599		
Total Kjeldahl Nitrogen (TKN)	2.09	---	0.200	mg/L	1	05/16/23 10:42	EPA 351.2	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0599		
Total Kjeldahl Nitrogen (TKN)	1.25	---	0.200	mg/L	1	05/16/23 10:44	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Nitrogen by Calculation

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.24	---	0.700	mg/L	1	05/16/23 10:36	EPA 351.2	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	2.45	---	0.700	mg/L	1	05/16/23 10:42	EPA 351.2	
Colver Rd, OF (A3E0957-03)				Matrix: Water		(Calculated)		
Total Nitrogen (Calc)	1.50	---	0.700	mg/L	1	05/16/23 10:44	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		Batch: 23E0387		
Total Organic Carbon	4.79	1.00	1.00	mg/L	1	05/09/23 18:23	SM 5310 C	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0387		
Total Organic Carbon	13.0	1.00	1.00	mg/L	1	05/09/23 21:53	SM 5310 C	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0387		
Total Organic Carbon	12.9	1.00	1.00	mg/L	1	05/09/23 22:24	SM 5310 C	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3E0957 - 06 23 23 1253****ANALYTICAL SAMPLE RESULTS****Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		Batch: 23E0313		
Phosphorus	0.323	0.0500	0.100	mg/L	1	05/08/23 14:47	SM 4500-P E	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0313		
Phosphorus	0.200	0.0500	0.100	mg/L	1	05/08/23 14:48	SM 4500-P E	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0313		
Phosphorus	0.278	0.0500	0.100	mg/L	1	05/08/23 14:48	SM 4500-P E	

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Project Manager: Greg Stabach

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
West Valley View (WVV), OF (A3E0957-01)				Matrix: Water		Batch: 23E0365		
Total Suspended Solids	420	1.81	1.81	mg/L	1	05/09/23 08:38	D3977-97 (19)	
North Ridge Terrace (NRT), OF (A3E0957-02)				Matrix: Water		Batch: 23E0365		
Total Suspended Solids	55.0	1.72	1.72	mg/L	1	05/09/23 08:38	D3977-97 (19)	
Colver Rd, OF (A3E0957-03)				Matrix: Water		Batch: 23E0365		
Total Suspended Solids	51.4	1.72	1.72	mg/L	1	05/09/23 08:38	D3977-97 (19)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E0593 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23E0593-BLK1)			Prepared: 05/15/23 07:15 Analyzed: 05/16/23 00:21										
<u>NWTPH-Dx LL</u>													
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---		
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x							
LCS (23E0593-BS1)			Prepared: 05/15/23 07:15 Analyzed: 05/16/23 00:42										
<u>NWTPH-Dx LL</u>													
Diesel	342	40.0	80.0	ug/L	1	500	---	68	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (23E0593-BSD1)			Prepared: 05/15/23 07:15 Analyzed: 05/16/23 01:03										Q-19
<u>NWTPH-Dx LL</u>													
Diesel	327	40.0	80.0	ug/L	1	500	---	65	36-132%	4	30%		
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x							

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23E0300-BLK1)			Prepared: 05/08/23 05:17 Analyzed: 05/08/23 11:28									
EPA 8270E												
Acenaphthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0150	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23E0300-BLK1)						Prepared: 05/08/23 05:17 Analyzed: 05/08/23 11:28						
2,3,5,6-Tetrachlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	0.0256	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	B-02, J
2,2'-Oxybis(1-Chloropropane)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.25	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	

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Semivolatile Organic Compounds by EPA 8270E

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Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (23E0300-BLK1)			Prepared: 05/08/23 05:17		Analyzed: 05/08/23 11:28							
Azobenzene (1,2-DPH)	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	Q-52
Bis(2-Ethylhexyl) adipate	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0250	0.0500	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery: 81 %		Limits: 44-120 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		76 %		44-120 %		"						
Phenol-d6 (Surr)		25 %		10-133 %		"						
p-Terphenyl-d14 (Surr)		94 %		50-134 %		"						
2-Fluorophenol (Surr)		40 %		19-120 %		"						
2,4,6-Tribromophenol (Surr)		85 %		43-140 %		"						

LCS (23E0300-BS1)

Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:05

EPA 8270E

Acenaphthene	3.21	0.0400	0.0800	ug/L	4	4.00	---	80	47-122%	---	---
Acenaphthylene	3.12	0.0400	0.0800	ug/L	4	4.00	---	78	41-130%	---	---
Anthracene	3.71	0.0400	0.0800	ug/L	4	4.00	---	93	57-123%	---	---
Benz(a)anthracene	3.87	0.0400	0.0800	ug/L	4	4.00	---	97	58-125%	---	---
Benzo(a)pyrene	3.75	0.0600	0.120	ug/L	4	4.00	---	94	54-128%	---	---
Benzo(b)fluoranthene	3.67	0.0600	0.120	ug/L	4	4.00	---	92	53-131%	---	---
Benzo(k)fluoranthene	3.91	0.0600	0.120	ug/L	4	4.00	---	98	57-129%	---	---
Benzo(g,h,i)perylene	4.11	0.0400	0.0800	ug/L	4	4.00	---	103	50-134%	---	---
Chrysene	3.97	0.0400	0.0800	ug/L	4	4.00	---	99	59-123%	---	---
Dibenz(a,h)anthracene	3.96	0.0400	0.0800	ug/L	4	4.00	---	99	51-134%	---	---
Fluoranthene	3.83	0.0400	0.0800	ug/L	4	4.00	---	96	57-128%	---	---
Fluorene	3.45	0.0400	0.0800	ug/L	4	4.00	---	86	52-124%	---	---
Indeno(1,2,3-cd)pyrene	3.66	0.0400	0.0800	ug/L	4	4.00	---	91	52-134%	---	---
1-Methylnaphthalene	2.82	0.0800	0.160	ug/L	4	4.00	---	70	41-120%	---	---

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23E0300-BS1)						Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:05						
2-Methylnaphthalene	2.91	0.0800	0.160	ug/L	4	4.00	---	73	40-121%	---	---	
Naphthalene	2.65	0.0800	0.160	ug/L	4	4.00	---	66	40-121%	---	---	
Phenanthrene	3.59	0.0400	0.0800	ug/L	4	4.00	---	90	59-120%	---	---	
Pyrene	3.77	0.0400	0.0800	ug/L	4	4.00	---	94	57-126%	---	---	
Carbazole	4.18	0.0600	0.120	ug/L	4	4.00	---	105	60-122%	---	---	
Dibenzofuran	3.35	0.0400	0.0800	ug/L	4	4.00	---	84	53-120%	---	---	
2-Chlorophenol	2.63	0.200	0.400	ug/L	4	4.00	---	66	38-120%	---	---	
4-Chloro-3-methylphenol	3.34	0.400	0.800	ug/L	4	4.00	---	83	52-120%	---	---	
2,4-Dichlorophenol	3.10	0.200	0.400	ug/L	4	4.00	---	78	47-121%	---	---	
2,4-Dimethylphenol	3.03	0.200	0.400	ug/L	4	4.00	---	76	31-124%	---	---	
2,4-Dinitrophenol	3.75	1.00	2.00	ug/L	4	4.00	---	94	23-143%	---	---	
4,6-Dinitro-2-methylphenol	3.89	1.00	2.00	ug/L	4	4.00	---	97	44-137%	---	---	
2-Methylphenol	2.53	0.100	0.200	ug/L	4	4.00	---	63	30-120%	---	---	
3+4-Methylphenol(s)	2.29	0.100	0.200	ug/L	4	4.00	---	57	29-120%	---	---	
2-Nitrophenol	3.54	0.400	0.800	ug/L	4	4.00	---	88	47-123%	---	---	
4-Nitrophenol	1.17	0.400	0.800	ug/L	4	4.00	---	29	10-120%	---	---	
Pentachlorophenol (PCP)	3.90	0.400	0.800	ug/L	4	4.00	---	97	35-138%	---	---	
Phenol	1.05	0.800	0.800	ug/L	4	4.00	---	26	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.55	0.200	0.400	ug/L	4	4.00	---	89	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.54	0.200	0.400	ug/L	4	4.00	---	88	50-121%	---	---	
2,4,5-Trichlorophenol	3.43	0.200	0.400	ug/L	4	4.00	---	86	53-123%	---	---	
2,4,6-Trichlorophenol	3.25	0.200	0.400	ug/L	4	4.00	---	81	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	4.45	0.800	1.60	ug/L	4	4.00	---	111	55-135%	---	---	
Butyl benzyl phthalate	4.43	0.800	1.60	ug/L	4	4.00	---	111	53-134%	---	---	
Diethylphthalate	3.75	0.800	1.60	ug/L	4	4.00	---	94	56-125%	---	---	
Dimethylphthalate	3.53	0.800	1.60	ug/L	4	4.00	---	88	45-127%	---	---	
Di-n-butylphthalate	3.93	0.800	1.60	ug/L	4	4.00	---	98	59-127%	---	---	
Di-n-octyl phthalate	4.06	0.800	1.60	ug/L	4	4.00	---	102	51-140%	---	---	
N-Nitrosodimethylamine	1.49	0.100	0.200	ug/L	4	4.00	---	37	19-120%	---	---	
N-Nitroso-di-n-propylamine	3.21	0.100	0.200	ug/L	4	4.00	---	80	49-120%	---	---	
N-Nitrosodiphenylamine	4.05	0.100	0.200	ug/L	4	4.00	---	101	51-123%	---	---	
Bis(2-Chloroethoxy) methane	3.14	0.100	0.200	ug/L	4	4.00	---	79	48-120%	---	---	
Bis(2-Chloroethyl) ether	3.00	0.100	0.200	ug/L	4	4.00	---	75	43-120%	---	---	B-02
2,2'-Oxybis(1-Chloropropane)	2.80	0.100	0.200	ug/L	4	4.00	---	70	41-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23E0300-BS1)						Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:05						
Hexachlorobenzene	3.36	0.0400	0.0800	ug/L	4	4.00	---	84	53-125%	---	---	
Hexachlorobutadiene	2.11	0.100	0.200	ug/L	4	4.00	---	53	22-124%	---	---	
Hexachlorocyclopentadiene	1.97	0.200	0.400	ug/L	4	4.00	---	49	10-127%	---	---	
Hexachloroethane	1.98	0.100	0.200	ug/L	4	4.00	---	50	21-120%	---	---	
2-Chloronaphthalene	2.98	0.0400	0.0800	ug/L	4	4.00	---	74	40-120%	---	---	
1,2,4-Trichlorobenzene	2.32	0.100	0.200	ug/L	4	4.00	---	58	29-120%	---	---	
4-Bromophenyl phenyl ether	3.62	0.100	0.200	ug/L	4	4.00	---	91	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.41	0.100	0.200	ug/L	4	4.00	---	85	53-121%	---	---	
Aniline	1.79	0.200	0.400	ug/L	4	4.00	---	45	10-120%	---	---	Q-31
4-Chloroaniline	2.47	0.100	0.200	ug/L	4	4.00	---	62	33-120%	---	---	
2-Nitroaniline	3.66	0.800	1.60	ug/L	4	4.00	---	92	55-127%	---	---	
3-Nitroaniline	3.22	0.800	1.60	ug/L	4	4.00	---	81	41-128%	---	---	
4-Nitroaniline	3.50	0.800	1.60	ug/L	4	4.00	---	88	25-120%	---	---	
Nitrobenzene	3.00	0.400	0.800	ug/L	4	4.00	---	75	45-121%	---	---	
2,4-Dinitrotoluene	3.73	0.400	0.800	ug/L	4	4.00	---	93	57-128%	---	---	
2,6-Dinitrotoluene	3.59	0.400	0.800	ug/L	4	4.00	---	90	57-124%	---	---	
Benzoic acid	2.06	2.00	2.00	ug/L	4	8.00	---	26	10-120%	---	---	Q-31
Benzyl alcohol	2.11	0.400	0.800	ug/L	4	4.00	---	53	31-120%	---	---	
Isophorone	3.05	0.100	0.200	ug/L	4	4.00	---	76	42-124%	---	---	
Azobenzene (1,2-DPH)	3.69	0.100	0.200	ug/L	4	4.00	---	92	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	4.48	1.00	2.00	ug/L	4	4.00	---	112	63-121%	---	---	
3,3'-Dichlorobenzidine	15.1	2.00	4.00	ug/L	4	8.00	---	189	27-129%	---	---	Q-29, Q-52
1,2-Dinitrobenzene	3.66	1.00	2.00	ug/L	4	4.00	---	92	59-120%	---	---	
1,3-Dinitrobenzene	3.34	1.00	2.00	ug/L	4	4.00	---	83	49-128%	---	---	
1,4-Dinitrobenzene	3.31	1.00	2.00	ug/L	4	4.00	---	83	54-120%	---	---	
Pyridine	1.70	0.400	0.800	ug/L	4	4.00	---	43	10-120%	---	---	
1,2-Dichlorobenzene	2.24	0.100	0.200	ug/L	4	4.00	---	56	32-120%	---	---	
1,3-Dichlorobenzene	2.09	0.100	0.200	ug/L	4	4.00	---	52	28-120%	---	---	
1,4-Dichlorobenzene	2.08	0.100	0.200	ug/L	4	4.00	---	52	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr) Recovery: 77 % Limits: 44-120 % Dilution: 4x												
2-Fluorobiphenyl (Surr) 79 % 44-120 % "												
Phenol-d6 (Surr) 24 % 10-133 % "												
p-Terphenyl-d14 (Surr) 104 % 50-134 % "												
2-Fluorophenol (Surr) 36 % 19-120 % "												

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (23E0300-BS1)			Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:05									
Surr: 2,4,6-Tribromophenol (Surr)			Recovery: 93 %		Limits: 43-140 %		Dilution: 4x					
LCS Dup (23E0300-BSD1)			Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:42									
EPA 8270E												
Acenaphthene	3.36	0.0400	0.0800	ug/L	4	4.00	---	84	47-122%	5	30%	
Acenaphthylene	3.21	0.0400	0.0800	ug/L	4	4.00	---	80	41-130%	3	30%	
Anthracene	3.80	0.0400	0.0800	ug/L	4	4.00	---	95	57-123%	2	30%	
Benz(a)anthracene	3.92	0.0400	0.0800	ug/L	4	4.00	---	98	58-125%	1	30%	
Benzo(a)pyrene	3.79	0.0600	0.120	ug/L	4	4.00	---	95	54-128%	1	30%	
Benzo(b)fluoranthene	3.83	0.0600	0.120	ug/L	4	4.00	---	96	53-131%	4	30%	
Benzo(k)fluoranthene	3.93	0.0600	0.120	ug/L	4	4.00	---	98	57-129%	0.7	30%	
Benzo(g,h,i)perylene	4.07	0.0400	0.0800	ug/L	4	4.00	---	102	50-134%	1	30%	
Chrysene	4.01	0.0400	0.0800	ug/L	4	4.00	---	100	59-123%	1	30%	
Dibenz(a,h)anthracene	3.97	0.0400	0.0800	ug/L	4	4.00	---	99	51-134%	0.3	30%	
Fluoranthene	3.97	0.0400	0.0800	ug/L	4	4.00	---	99	57-128%	4	30%	
Fluorene	3.61	0.0400	0.0800	ug/L	4	4.00	---	90	52-124%	4	30%	
Indeno(1,2,3-cd)pyrene	3.69	0.0400	0.0800	ug/L	4	4.00	---	92	52-134%	0.9	30%	
1-Methylnaphthalene	2.89	0.0800	0.160	ug/L	4	4.00	---	72	41-120%	2	30%	
2-Methylnaphthalene	3.01	0.0800	0.160	ug/L	4	4.00	---	75	40-121%	3	30%	
Naphthalene	2.78	0.0800	0.160	ug/L	4	4.00	---	69	40-121%	4	30%	
Phenanthrene	3.67	0.0400	0.0800	ug/L	4	4.00	---	92	59-120%	2	30%	
Pyrene	3.85	0.0400	0.0800	ug/L	4	4.00	---	96	57-126%	2	30%	
Carbazole	4.15	0.0600	0.120	ug/L	4	4.00	---	104	60-122%	0.7	30%	
Dibenzofuran	3.46	0.0400	0.0800	ug/L	4	4.00	---	87	53-120%	3	30%	
2-Chlorophenol	2.61	0.200	0.400	ug/L	4	4.00	---	65	38-120%	0.8	30%	
4-Chloro-3-methylphenol	3.33	0.400	0.800	ug/L	4	4.00	---	83	52-120%	0.4	30%	
2,4-Dichlorophenol	3.06	0.200	0.400	ug/L	4	4.00	---	77	47-121%	1	30%	
2,4-Dimethylphenol	3.35	0.200	0.400	ug/L	4	4.00	---	84	31-124%	10	30%	
2,4-Dinitrophenol	3.99	1.00	2.00	ug/L	4	4.00	---	100	23-143%	6	30%	
4,6-Dinitro-2-methylphenol	4.24	1.00	2.00	ug/L	4	4.00	---	106	44-137%	9	30%	
2-Methylphenol	2.54	0.100	0.200	ug/L	4	4.00	---	64	30-120%	0.4	30%	
3+4-Methylphenol(s)	2.26	0.100	0.200	ug/L	4	4.00	---	56	29-120%	1	30%	
2-Nitrophenol	3.89	0.400	0.800	ug/L	4	4.00	---	97	47-123%	9	30%	

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Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (23E0300-BSD1)						Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:42						Q-19
4-Nitrophenol	1.31	0.400	0.800	ug/L	4	4.00	---	33	10-120%	11	30%	
Pentachlorophenol (PCP)	4.00	0.400	0.800	ug/L	4	4.00	---	100	35-138%	3	30%	
Phenol	1.08	0.800	0.800	ug/L	4	4.00	---	27	10-120%	3	30%	
2,3,4,6-Tetrachlorophenol	3.65	0.200	0.400	ug/L	4	4.00	---	91	50-128%	3	30%	
2,3,5,6-Tetrachlorophenol	3.64	0.200	0.400	ug/L	4	4.00	---	91	50-121%	3	30%	
2,4,5-Trichlorophenol	3.45	0.200	0.400	ug/L	4	4.00	---	86	53-123%	0.5	30%	
2,4,6-Trichlorophenol	3.29	0.200	0.400	ug/L	4	4.00	---	82	50-125%	1	30%	
Bis(2-ethylhexyl)phthalate	4.47	0.800	1.60	ug/L	4	4.00	---	112	55-135%	0.5	30%	
Butyl benzyl phthalate	4.50	0.800	1.60	ug/L	4	4.00	---	113	53-134%	2	30%	
Diethylphthalate	3.99	0.800	1.60	ug/L	4	4.00	---	100	56-125%	6	30%	
Dimethylphthalate	3.70	0.800	1.60	ug/L	4	4.00	---	93	45-127%	5	30%	
Di-n-butylphthalate	4.03	0.800	1.60	ug/L	4	4.00	---	101	59-127%	2	30%	
Di-n-octyl phthalate	4.05	0.800	1.60	ug/L	4	4.00	---	101	51-140%	0.2	30%	
N-Nitrosodimethylamine	1.71	0.100	0.200	ug/L	4	4.00	---	43	19-120%	14	30%	
N-Nitroso-di-n-propylamine	3.07	0.100	0.200	ug/L	4	4.00	---	77	49-120%	4	30%	
N-Nitrosodiphenylamine	4.06	0.100	0.200	ug/L	4	4.00	---	102	51-123%	0.3	30%	
Bis(2-Chloroethoxy) methane	3.25	0.100	0.200	ug/L	4	4.00	---	81	48-120%	4	30%	
Bis(2-Chloroethyl) ether	3.25	0.100	0.200	ug/L	4	4.00	---	81	43-120%	8	30%	B-02
2,2'-Oxybis(1-Chloropropane)	2.81	0.100	0.200	ug/L	4	4.00	---	70	41-120%	0.6	30%	
Hexachlorobenzene	3.50	0.0400	0.0800	ug/L	4	4.00	---	87	53-125%	4	30%	
Hexachlorobutadiene	2.40	0.100	0.200	ug/L	4	4.00	---	60	22-124%	13	30%	
Hexachlorocyclopentadiene	2.42	0.200	0.400	ug/L	4	4.00	---	61	10-127%	21	30%	
Hexachloroethane	2.22	0.100	0.200	ug/L	4	4.00	---	56	21-120%	12	30%	
2-Chloronaphthalene	3.13	0.0400	0.0800	ug/L	4	4.00	---	78	40-120%	5	30%	
1,2,4-Trichlorobenzene	2.54	0.100	0.200	ug/L	4	4.00	---	64	29-120%	9	30%	
4-Bromophenyl phenyl ether	3.74	0.100	0.200	ug/L	4	4.00	---	94	55-124%	3	30%	
4-Chlorophenyl phenyl ether	3.53	0.100	0.200	ug/L	4	4.00	---	88	53-121%	4	30%	
Aniline	1.65	0.200	0.400	ug/L	4	4.00	---	41	10-120%	8	30%	Q-31
4-Chloroaniline	2.45	0.100	0.200	ug/L	4	4.00	---	61	33-120%	0.5	30%	
2-Nitroaniline	3.71	0.800	1.60	ug/L	4	4.00	---	93	55-127%	1	30%	
3-Nitroaniline	3.25	0.800	1.60	ug/L	4	4.00	---	81	41-128%	0.8	30%	
4-Nitroaniline	3.55	0.800	1.60	ug/L	4	4.00	---	89	25-120%	1	30%	
Nitrobenzene	2.90	0.400	0.800	ug/L	4	4.00	---	72	45-121%	3	30%	
2,4-Dinitrotoluene	4.01	0.400	0.800	ug/L	4	4.00	---	100	57-128%	7	30%	

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Batch 23E0300 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (23E0300-BSD1)						Prepared: 05/08/23 05:17 Analyzed: 05/08/23 12:42						Q-19
2,6-Dinitrotoluene	3.75	0.400	0.800	ug/L	4	4.00	---	94	57-124%	4	30%	
Benzoic acid	2.48	2.00	2.00	ug/L	4	8.00	---	31	10-120%	19	30%	Q-31
Benzyl alcohol	2.12	0.400	0.800	ug/L	4	4.00	---	53	31-120%	0.3	30%	
Isophorone	3.11	0.100	0.200	ug/L	4	4.00	---	78	42-124%	2	30%	
Azobenzene (1,2-DPH)	3.73	0.100	0.200	ug/L	4	4.00	---	93	61-120%	1	30%	
Bis(2-Ethylhexyl) adipate	4.52	1.00	2.00	ug/L	4	4.00	---	113	63-121%	0.9	30%	
3,3'-Dichlorobenzidine	12.5	2.00	4.00	ug/L	4	8.00	---	156	27-129%	19	30%	Q-29, Q-52
1,2-Dinitrobenzene	3.80	1.00	2.00	ug/L	4	4.00	---	95	59-120%	4	30%	
1,3-Dinitrobenzene	3.60	1.00	2.00	ug/L	4	4.00	---	90	49-128%	8	30%	
1,4-Dinitrobenzene	3.49	1.00	2.00	ug/L	4	4.00	---	87	54-120%	5	30%	
Pyridine	1.73	0.400	0.800	ug/L	4	4.00	---	43	10-120%	2	30%	
1,2-Dichlorobenzene	2.34	0.100	0.200	ug/L	4	4.00	---	59	32-120%	5	30%	
1,3-Dichlorobenzene	2.28	0.100	0.200	ug/L	4	4.00	---	57	28-120%	9	30%	
1,4-Dichlorobenzene	2.29	0.100	0.200	ug/L	4	4.00	---	57	29-120%	10	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												
		Recovery: 74 %		Limits: 44-120 %		Dilution: 4x						
<i>2-Fluorobiphenyl (Surr)</i>		80 %		44-120 %		"						
<i>Phenol-d6 (Surr)</i>		25 %		10-133 %		"						
<i>p-Terphenyl-d14 (Surr)</i>		101 %		50-134 %		"						
<i>2-Fluorophenol (Surr)</i>		40 %		19-120 %		"						
<i>2,4,6-Tribromophenol (Surr)</i>		94 %		43-140 %		"						

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Custom Tentatively Identified Compounds by GC/MS (8270E)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0300 - EPA 3510C (Acid/Base Neutral)							Water					
Blank (23E0300-BLK1)			Prepared: 05/08/23 05:17 Analyzed: 05/08/23 11:28									
<u>EPA 8270E TICs</u>												
See TIC Report	0.0	---		ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0513 - EPA 3015A						Water						
Blank (23E0513-BLK1)			Prepared: 05/11/23 11:58		Analyzed: 05/15/23 20:19							
EPA 200.8												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Calcium	ND	375	600	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Magnesium	ND	75.0	150	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Zinc	2.32	2.00	4.00	ug/L	1	---	---	---	---	---	---	B-02, J

LCS (23E0513-BS1)

Prepared: 05/11/23 11:58 Analyzed: 05/15/23 20:24

<u>EPA 200.8</u>												
Aluminum	2850	25.0	50.0	ug/L	1	2780	---	103	85-115%	---	---	
Antimony	27.5	0.500	1.00	ug/L	1	27.8	---	99	85-115%	---	---	
Arsenic	55.2	0.500	1.00	ug/L	1	55.6	---	99	85-115%	---	---	
Beryllium	28.5	0.100	0.200	ug/L	1	27.8	---	103	85-115%	---	---	
Cadmium	55.3	0.100	0.200	ug/L	1	55.6	---	99	85-115%	---	---	
Calcium	2830	375	600	ug/L	1	2780	---	102	85-115%	---	---	
Chromium	55.4	1.00	2.00	ug/L	1	55.6	---	100	85-115%	---	---	
Copper	60.9	1.00	2.00	ug/L	1	55.6	---	110	85-115%	---	---	
Iron	2860	25.0	50.0	ug/L	1	2780	---	103	85-115%	---	---	
Lead	57.3	0.100	0.200	ug/L	1	55.6	---	103	85-115%	---	---	
Magnesium	2870	75.0	150	ug/L	1	2780	---	103	85-115%	---	---	
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	---	97	85-115%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0513 - EPA 3015A						Water						
LCS (23E0513-BS1)			Prepared: 05/11/23 11:58 Analyzed: 05/15/23 20:24									
Nickel	57.5	1.00	2.00	ug/L	1	55.6	---	104	85-115%	---	---	
Selenium	29.4	0.500	1.00	ug/L	1	27.8	---	106	85-115%	---	---	
Silver	26.3	0.100	0.200	ug/L	1	27.8	---	95	85-115%	---	---	
Thallium	28.0	0.100	0.200	ug/L	1	27.8	---	101	85-115%	---	---	
Zinc	59.5	2.00	4.00	ug/L	1	55.6	---	107	85-115%	---	---	B-02
Duplicate (23E0513-DUP1)			Prepared: 05/11/23 11:58 Analyzed: 05/15/23 20:34									
QC Source Sample: Non-SDG (A3E0954-01)												
Aluminum	ND	500	1000	ug/L	20	---	ND	---	---	---	20%	R-04
Antimony	421	10.0	20.0	ug/L	20	---	383	---	---	9	20%	
Arsenic	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	20%	R-04
Beryllium	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	20%	R-04
Cadmium	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	20%	R-04
Calcium	100000	7500	12000	ug/L	20	---	95100	---	---	5	20%	
Chromium	357	20.0	40.0	ug/L	20	---	335	---	---	6	20%	
Copper	1360	20.0	40.0	ug/L	20	---	1290	---	---	6	20%	
Iron	ND	500	1000	ug/L	20	---	ND	---	---	---	20%	R-04
Lead	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	20%	R-04
Magnesium	ND	1500	3000	ug/L	20	---	ND	---	---	---	20%	R-04
Mercury	ND	0.800	1.60	ug/L	20	---	ND	---	---	---	20%	R-04
Nickel	164	20.0	40.0	ug/L	20	---	152	---	---	8	20%	
Selenium	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	20%	R-04
Silver	5.39	2.00	4.00	ug/L	20	---	4.92	---	---	9	20%	
Thallium	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	20%	R-04
Zinc	248	40.0	80.0	ug/L	20	---	229	---	---	8	20%	B-02
Matrix Spike (23E0513-MS1)			Prepared: 05/11/23 11:58 Analyzed: 05/15/23 20:49									
QC Source Sample: Non-SDG (A3E0954-01)												
EPA 200.8												
Aluminum	3440	500	1000	ug/L	20	2780	ND	124	70-130%	---	---	
Antimony	496	10.0	20.0	ug/L	20	27.8	383	408	70-130%	---	---	Q-65
Arsenic	65.7	10.0	20.0	ug/L	20	55.6	ND	118	70-130%	---	---	
Beryllium	35.3	2.00	4.00	ug/L	20	27.8	ND	127	70-130%	---	---	

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0513 - EPA 3015A						Water						
Matrix Spike (23E0513-MS1)			Prepared: 05/11/23 11:58		Analyzed: 05/15/23 20:49							
QC Source Sample: Non-SDG (A3E0954-01)												
Cadmium	64.0	2.00	4.00	ug/L	20	55.6	ND	115	70-130%	---	---	
Calcium	107000	7500	12000	ug/L	20	2780	95100	437	70-130%	---	---	Q-65
Chromium	435	20.0	40.0	ug/L	20	55.6	335	180	70-130%	---	---	Q-65
Copper	1480	20.0	40.0	ug/L	20	55.6	1290	340	70-130%	---	---	Q-65
Iron	3190	500	1000	ug/L	20	2780	ND	115	70-130%	---	---	
Lead	66.0	2.00	4.00	ug/L	20	55.6	ND	119	70-130%	---	---	
Magnesium	3660	1500	3000	ug/L	20	2780	ND	132	70-130%	---	---	Q-01
Mercury	1.31	0.800	1.60	ug/L	20	1.11	ND	118	70-130%	---	---	J, R-04
Nickel	233	20.0	40.0	ug/L	20	55.6	152	147	70-130%	---	---	Q-01
Selenium	36.1	10.0	20.0	ug/L	20	27.8	ND	130	70-130%	---	---	
Silver	37.2	2.00	4.00	ug/L	20	27.8	4.92	116	70-130%	---	---	
Thallium	32.4	2.00	4.00	ug/L	20	27.8	ND	117	70-130%	---	---	
Zinc	317	40.0	80.0	ug/L	20	55.6	229	158	70-130%	---	---	B-02, Q-65

Matrix Spike (23E0513-MS2)

Prepared: 05/11/23 11:58 Analyzed: 05/15/23 21:13

QC Source Sample: Non-SDG (A3E0960-02)

<u>EPA 200.8</u>												
Aluminum	3450	50.0	100	ug/L	2	2780	ND	124	70-130%	---	---	
Antimony	39.6	1.00	2.00	ug/L	2	27.8	4.22	127	70-130%	---	---	
Arsenic	66.4	1.00	2.00	ug/L	2	55.6	1.61	117	70-130%	---	---	
Beryllium	36.6	0.200	0.400	ug/L	2	27.8	ND	132	70-130%	---	---	Q-01
Cadmium	68.4	0.200	0.400	ug/L	2	55.6	ND	123	70-130%	---	---	
Calcium	8130	750	1200	ug/L	2	2780	4430	133	70-130%	---	---	Q-01
Chromium	64.9	2.00	4.00	ug/L	2	55.6	ND	117	70-130%	---	---	
Copper	64.1	2.00	4.00	ug/L	2	55.6	ND	115	70-130%	---	---	
Iron	3230	50.0	100	ug/L	2	2780	53.6	114	70-130%	---	---	
Lead	65.5	0.200	0.400	ug/L	2	55.6	ND	118	70-130%	---	---	
Magnesium	5120	150	300	ug/L	2	2780	1600	127	70-130%	---	---	
Mercury	1.25	0.0800	0.160	ug/L	2	1.11	ND	113	70-130%	---	---	
Nickel	64.4	2.00	4.00	ug/L	2	55.6	ND	116	70-130%	---	---	
Selenium	30.4	1.00	2.00	ug/L	2	27.8	ND	109	70-130%	---	---	
Silver	31.0	0.200	0.400	ug/L	2	27.8	ND	112	70-130%	---	---	

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ANALYTICAL REPORT

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

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A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0513 - EPA 3015A						Water						
Matrix Spike (23E0513-MS2)			Prepared: 05/11/23 11:58 Analyzed: 05/15/23 21:13									
QC Source Sample: Non-SDG (A3E0960-02)												
Thallium	31.3	0.200	0.400	ug/L	2	27.8	0.229	112	70-130%	---	---	
Zinc	64.9	4.00	8.00	ug/L	2	55.6	ND	117	70-130%	---	---	B-02

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QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0165 - Method Prep: Aq						Water						
Blank (23E0165-BLK1)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 16:20									
EPA 300.0												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	---	---	---	---	---	
LCS (23E0165-BS1)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 16:42									
EPA 300.0												
Nitrate-Nitrogen	1.99	0.125	0.250	mg/L	1	2.00	---	99	90-110%	---	---	
Nitrite-Nitrogen	2.14	0.125	0.250	mg/L	1	2.00	---	107	90-110%	---	---	
Duplicate (23E0165-DUP1)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 17:25									
QC Source Sample: Non-SDG (A3E0892-01)												
Nitrate-Nitrogen	0.550	0.125	0.250	mg/L	1	---	0.551	---	---	0.05	3%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Duplicate (23E0165-DUP2)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 19:34									
QC Source Sample: Non-SDG (A3E0930-03)												
Nitrate-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	3%	
Nitrite-Nitrogen	ND	0.125	0.250	mg/L	1	---	ND	---	---	---	10%	
Matrix Spike (23E0165-MS1)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 17:46									
QC Source Sample: Non-SDG (A3E0892-01)												
EPA 300.0												
Nitrate-Nitrogen	3.05	0.156	0.312	mg/L	1	2.50	0.551	100	87-112%	---	---	
Nitrite-Nitrogen	2.69	0.156	0.312	mg/L	1	2.50	ND	108	90-114%	---	---	
Matrix Spike (23E0165-MS2)			Prepared: 05/03/23 12:58 Analyzed: 05/03/23 20:39									
QC Source Sample: Non-SDG (A3E0930-03)												
EPA 300.0												
Nitrate-Nitrogen	2.51	0.156	0.312	mg/L	1	2.50	ND	100	87-112%	---	---	
Nitrite-Nitrogen	2.71	0.156	0.312	mg/L	1	2.50	ND	108	90-114%	---	---	

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ANALYTICAL REPORT

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Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0599 - TKN block digestion						Water						
Blank (23E0599-BLK1)			Prepared: 05/15/23 08:10 Analyzed: 05/16/23 10:29									
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	ND	---	0.200	mg/L	1	---	---	---	---	---	---	
LCS (23E0599-BS1)			Prepared: 05/15/23 08:10 Analyzed: 05/16/23 10:30									
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	5.30	---	0.200	mg/L	1	5.00	---	106	90-110%	---	---	
Matrix Spike (23E0599-MS1)			Prepared: 05/15/23 08:10 Analyzed: 05/16/23 10:38									
QC Source Sample: West Valley View (WVV), OF (A3E0957-01)												
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	6.44	---	0.200	mg/L	1	5.00	1.07	107	90-110%	---	---	
Matrix Spike (23E0599-MS2)			Prepared: 05/15/23 08:10 Analyzed: 05/16/23 10:59									
QC Source Sample: Non-SDG (A3E1014-02)												
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	6.47	---	0.200	mg/L	1	5.00	1.02	109	90-110%	---	---	
Matrix Spike Dup (23E0599-MSD1)			Prepared: 05/15/23 08:10 Analyzed: 05/16/23 10:39									
QC Source Sample: West Valley View (WVV), OF (A3E0957-01)												
EPA 351.2												
Total Kjeldahl Nitrogen (TKN)	6.52	---	0.200	mg/L	1	5.00	1.07	109	90-110%	1	10%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Almeda Post Fire Monitoring-2023

Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0387 - Method Prep: Aq						Water						
Blank (23E0387-BLK1)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 15:23									
<u>SM 5310 C</u>												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (23E0387-BS1)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 15:53									
<u>SM 5310 C</u>												
Total Organic Carbon	10.2	1.00	1.00	mg/L	1	10.0	---	102	90-114%	---	---	
Matrix Spike (23E0387-MS1)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 16:53									
<u>QC Source Sample: Non-SDG (A3D1702-01)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	16.1	1.01	1.01	mg/L	1	10.0	5.76	103	85-115%	---	---	
Matrix Spike (23E0387-MS2)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 18:53									
<u>QC Source Sample: West Valley View (WVV), OF (A3E0957-01)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	15.3	1.01	1.01	mg/L	1	10.0	4.79	106	85-115%	---	---	
Matrix Spike Dup (23E0387-MSD1)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 17:23									
<u>QC Source Sample: Non-SDG (A3D1702-01)</u>												
Total Organic Carbon	15.9	1.01	1.01	mg/L	1	10.0	5.76	101	85-115%	1	15%	
Matrix Spike Dup (23E0387-MSD2)			Prepared: 05/09/23 11:01 Analyzed: 05/09/23 19:23									
<u>QC Source Sample: West Valley View (WVV), OF (A3E0957-01)</u>												
<u>SM 5310 C</u>												
Total Organic Carbon	15.1	1.01	1.01	mg/L	1	10.0	4.79	103	85-115%	1	15%	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0313 - Persulfate Digestion						Water						
Blank (23E0313-BLK1)			Prepared: 05/08/23 08:14 Analyzed: 05/08/23 14:45									
<u>SM 4500-P E</u>												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	
LCS (23E0313-BS1)			Prepared: 05/08/23 08:14 Analyzed: 05/08/23 14:45									
<u>SM 4500-P E</u>												
Phosphorus	0.528	0.0500	0.100	mg/L	1	0.522	---	101	85-118%	---	---	
Matrix Spike (23E0313-MS1)			Prepared: 05/08/23 08:14 Analyzed: 05/08/23 14:53									
<u>QC Source Sample: Non-SDG (A3E1031-05)</u>												
<u>SM 4500-P E</u>												
Phosphorus	3.35	0.100	0.200	mg/L	2	0.522	2.71	123	85-118%	---	---	Q-01
Matrix Spike Dup (23E0313-MSD1)			Prepared: 05/08/23 08:14 Analyzed: 05/08/23 14:54									
<u>QC Source Sample: Non-SDG (A3E1031-05)</u>												
Phosphorus	3.17	0.100	0.200	mg/L	2	0.522	2.71	90	85-118%	5	19%	

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Project Number: Almeda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0365 - Total Suspended Solids - 2022						Water						
Blank (23E0365-BLK1)			Prepared: 05/09/23 08:38		Analyzed: 05/09/23 08:38							
D3977-97 (19)												
Total Suspended Solids	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (23E0365-BS1)			Prepared: 05/09/23 08:38		Analyzed: 05/09/23 08:38							
D3977-97 (19)												
Total Suspended Solids	872			mg/L	1	926	---	94.2	85-115%	---	---	
LCS Dup (23E0365-BSD1)			Prepared: 05/09/23 08:38		Analyzed: 05/09/23 08:38							
D3977-97 (19)												
Total Suspended Solids	873			mg/L	1	926	---	94.3	85-115%	0.115	7%	

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Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0593							
A3E0957-01	Water	NWTPH-Dx LL	05/02/23 10:02	05/15/23 07:15	950mL/2mL	1000mL/2mL	1.05
A3E0957-02	Water	NWTPH-Dx LL	05/02/23 09:06	05/15/23 07:15	920mL/2mL	1000mL/2mL	1.09
A3E0957-03	Water	NWTPH-Dx LL	05/02/23 09:36	05/15/23 07:15	960mL/2mL	1000mL/2mL	1.04

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0300							
A3E0957-01RE1	Water	EPA 8270E	05/02/23 10:02	05/08/23 05:18	960mL/1mL	1000mL/1mL	1.04
A3E0957-02	Water	EPA 8270E	05/02/23 09:06	05/08/23 05:17	960mL/1mL	1000mL/1mL	1.04
A3E0957-03	Water	EPA 8270E	05/02/23 09:36	05/08/23 05:17	1000mL/1mL	1000mL/1mL	1.00

Custom Tentatively Identified Compounds by GC/MS (8270E)

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0300							
A3E0957-01RE1	Water	EPA 8270E TICs	05/02/23 10:02	05/08/23 05:18	960mL/1mL	1000mL/2mL	0.52
A3E0957-02	Water	EPA 8270E TICs	05/02/23 09:06	05/08/23 05:18	960mL/1mL	1000mL/2mL	0.52
A3E0957-03	Water	EPA 8270E TICs	05/02/23 09:36	05/08/23 05:17	1000mL/1mL	1000mL/2mL	0.50

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0513							
A3E0957-01	Water	EPA 200.8	05/02/23 10:02	05/11/23 11:58	45mL/50mL	45mL/50mL	1.00
A3E0957-02	Water	EPA 200.8	05/02/23 09:06	05/11/23 11:58	45mL/50mL	45mL/50mL	1.00
A3E0957-03	Water	EPA 200.8	05/02/23 09:36	05/11/23 11:58	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

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Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2023

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0165							
A3E0957-01	Water	EPA 300.0	05/02/23 10:02	05/03/23 12:58	5mL/5mL	5mL/5mL	1.00
A3E0957-02	Water	EPA 300.0	05/02/23 09:06	05/03/23 12:58	5mL/5mL	5mL/5mL	1.00
A3E0957-03	Water	EPA 300.0	05/02/23 09:36	05/03/23 12:58	5mL/5mL	5mL/5mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Prep: TKN block digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0599							
A3E0957-01	Water	EPA 351.2	05/02/23 10:02	05/15/23 08:10	25mL/25mL	25mL/25mL	1.00
A3E0957-02	Water	EPA 351.2	05/02/23 09:06	05/15/23 08:10	25mL/25mL	25mL/25mL	1.00
A3E0957-03	Water	EPA 351.2	05/02/23 09:36	05/15/23 08:10	25mL/25mL	25mL/25mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0387							
A3E0957-01	Water	SM 5310 C	05/02/23 10:02	05/09/23 11:01	40mL/40mL	40mL/40mL	1.00
A3E0957-02	Water	SM 5310 C	05/02/23 09:06	05/09/23 11:01	40mL/40mL	40mL/40mL	1.00
A3E0957-03	Water	SM 5310 C	05/02/23 09:36	05/09/23 11:01	40mL/40mL	40mL/40mL	1.00

Total Phosphorus by Persulfate Digestion/Colorimetric Spectrophotometry

Prep: Persulfate Digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0313							
A3E0957-01	Water	SM 4500-P E	05/02/23 10:02	05/08/23 08:14	25mL/50mL	25mL/50mL	1.00
A3E0957-02	Water	SM 4500-P E	05/02/23 09:06	05/08/23 08:14	25mL/50mL	25mL/50mL	1.00
A3E0957-03	Water	SM 4500-P E	05/02/23 09:36	05/08/23 08:14	25mL/50mL	25mL/50mL	1.00

Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration

Prep: Total Suspended Solids - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0365							

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06/23/2023 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL

**ANALYTICAL REPORT****Apex Laboratories, LLC**

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Central Point, OR 97502

Project: **Almeda Post Fire Monitoring-2023**Project Number: **Almeda Post Fire Monitorin**Project Manager: **Greg Stabach****Report ID:****A3E0957 - 06 23 23 1253****SAMPLE PREPARATION INFORMATION****Total Suspended Solids by ASTM D3977-97 - Whole Volume Filtration****Prep: Total Suspended Solids - 2022**

					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3E0957-01	Water	D3977-97 (19)	05/02/23 10:02	05/09/23 08:38			NA
A3E0957-02	Water	D3977-97 (19)	05/02/23 09:06	05/09/23 08:38			NA
A3E0957-03	Water	D3977-97 (19)	05/02/23 09:36	05/09/23 08:38			NA

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Project Manager: **Greg Stabach**

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
Water	EPA 8270E TICs		See TIC Report	NA	

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project Manager: Greg Stabach

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A3E0957

Post-Fire OWEB Monitoring (Storm Drain & In-Stream)						
Site Name/Description:	Date:	Time: AM	pH:	Temp. (Celsius):	Conductivity (uS/cm):	Turbidity (NTU):
West Valley View (WV)	5/2/23	10:02	7.18	9.8	51.6	116.64
Northridge Terrace (NRT)	5/2/23	9:06	7.36	11.1	44.2	27.47
Colver Rd.	5/2/23	9:36	7.41	10.8	46	20.74

Bottles Shipped to APPL Labs, collect these first and place in a separate cooler from APEX bottles

Analyte	Bottle Type:	Preservative	Site Name	
			WV	NRT
Dioxins 7 Furans, EPA 1613B	2, 1L amber	none	Collected?	Collected?
PFAS, EPA 537MB15	2, 50ml tubes	none	✓	✓
Total bottles per site:	4			

Analyte	Bottle Type:	Preservative	Site Name	
			WV	NRT
Forensic SVOCs	2, 1L amber	none	Collected?	Collected?
PBDE (ALS-Burlington)	2, 1L amber	None	✓	✓
NWTPH-Dx	2, 1L amber	HCL	✓	✓
Total Hardness by SM2340B	1, 250 ml poly	HNO3	✓	✓
P13 metals	1, 250 ml poly	HNO3	✓	✓
TOC by 5310C	1, 250ml poly	H2SO4	✓	✓
TP by persulfate digestion	1, 500ml poly	none	✓	✓
TKN package	1, 1L poly	none	✓	✓
NO3, NO2	1, 250ml poly	none	✓	✓
TSS	1, 250ml poly	none	✓	✓
6ppd quinone	1, 250ml poly	none	✓	✓
Total bottles per site:	11			

Collector: Alex Galluzzo

Weather: Rain

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

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06/23/2023 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Council of Governments

155 North First St/PO Box 3275

Central Point, OR 97502

Project: Alameda Post Fire Monitoring-2023

Project Number: Alameda Post Fire Monitorin

Project Manager: Greg Stabach

Report ID:

A3E0957 - 06 23 23 1253

APEX LABS COOLER RECEIPT FORM

Client: AVOG Element WO#: A3 E0957

Project/Project #: Alameda Post Fire Monitoring 2022

Delivery Info:

Date/time received: 5.3.23 @ 1047 By: DJS

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 5.3.23 @ 1047 By: DJS

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.8	4.0	3.9				
Custody seals? (Y/N)	N	N	N				
Received on ice? (Y/N)	Y	Y	Y				
Temp. blanks? (Y/N)	N	N	N				
Ice type: (Gel/Real/Other)	Real	Real	Real				
Condition (In/Out):	In	In	In				

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes X

Out of temperature samples form initiated? Yes X

Sample Inspection: Date/time inspected: 5/3/23 @ 1320 By: DJS

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes No X Comments: ^{nots} ^{has} ^{nots} labels read WV, Northridge Terr., Colver Rd.

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA

Comments:

Additional information: 3977 3482 3343

Labeled by: DJS

Witness: DJS

Cooler Inspected by: DJS

Form Y-003 R-00 -

Apex Laboratories

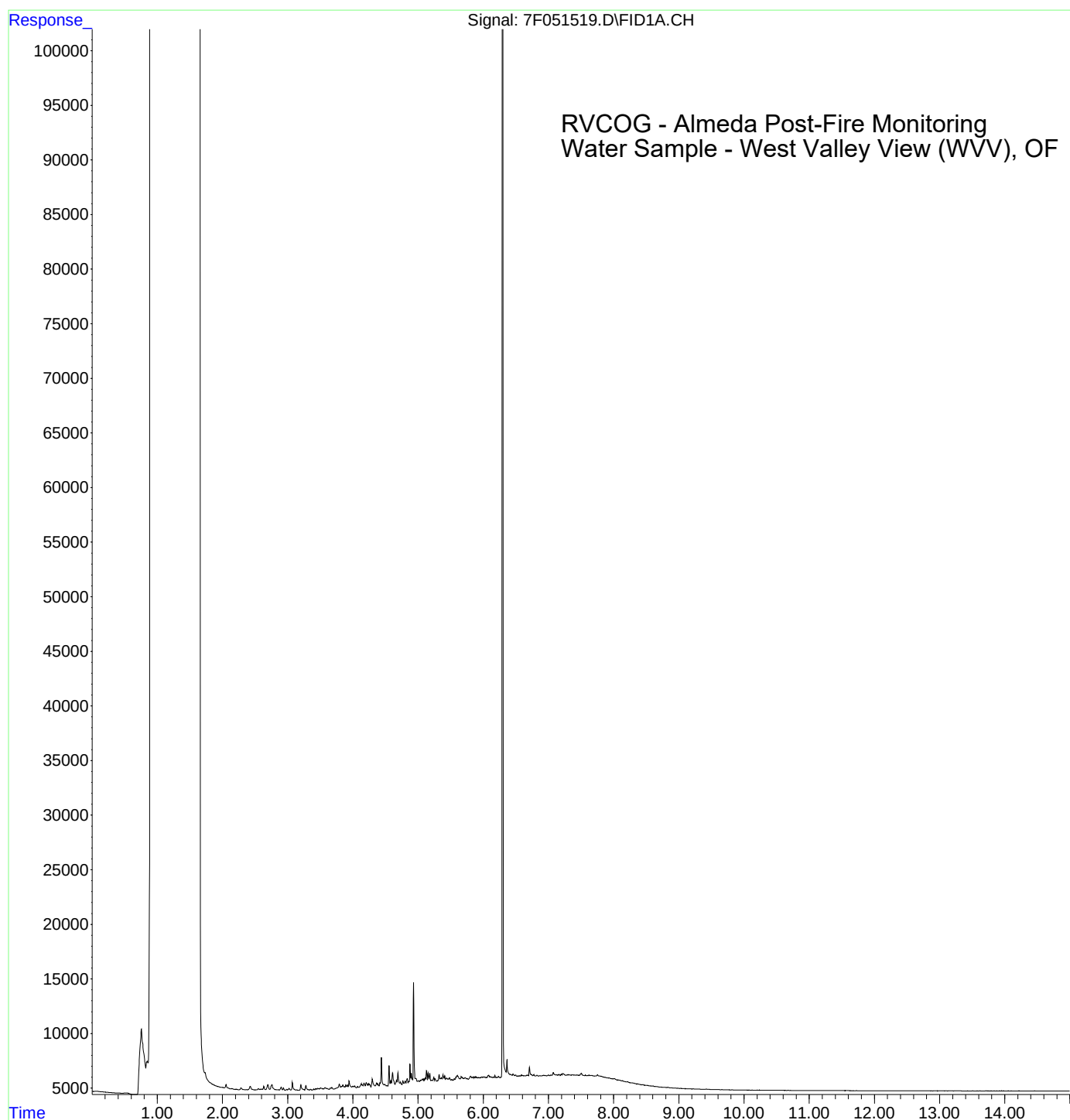
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

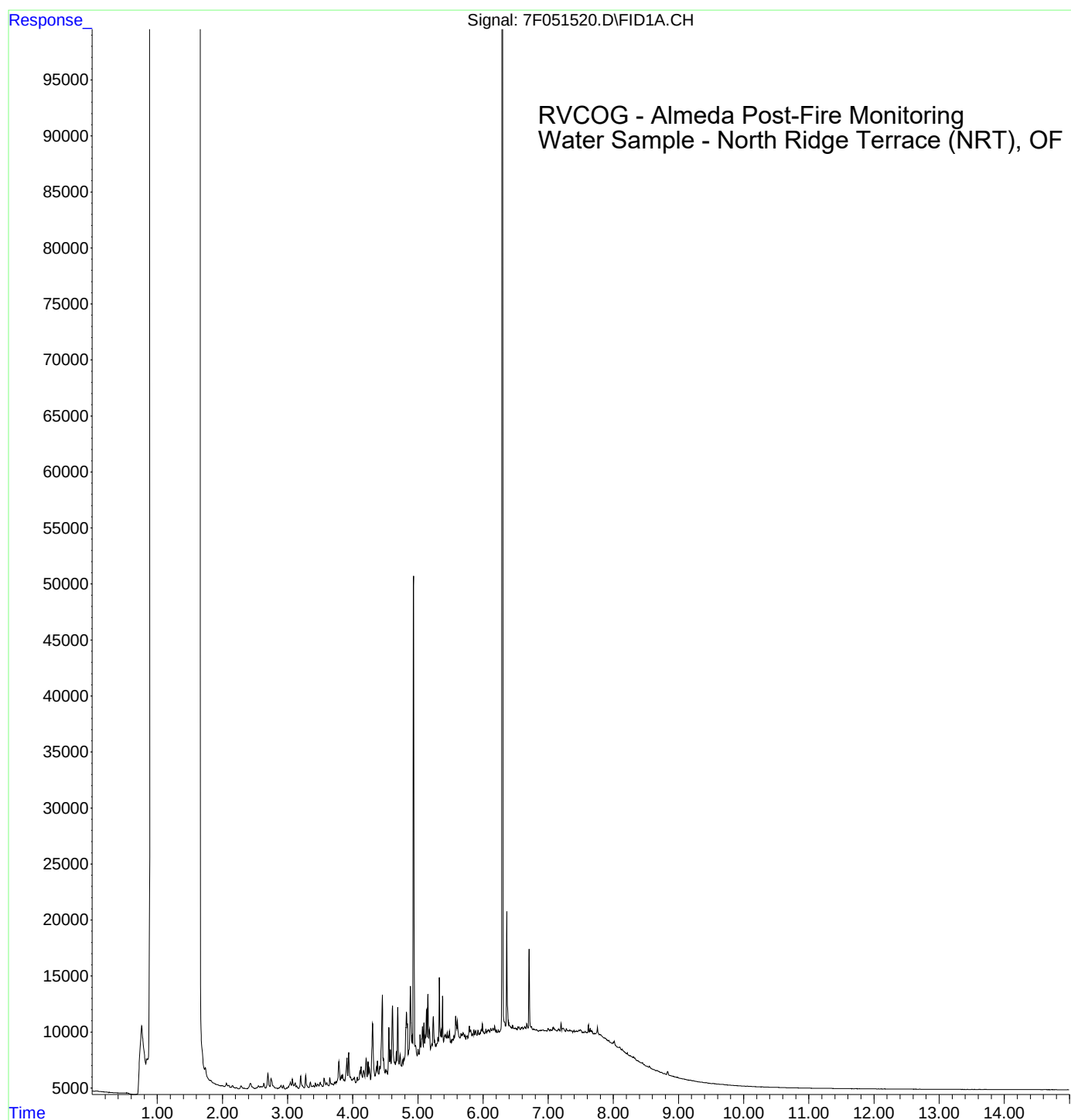
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06/23/2023 - Report is complete only if it includes TIC report & subcontract reports from ALS & APPL

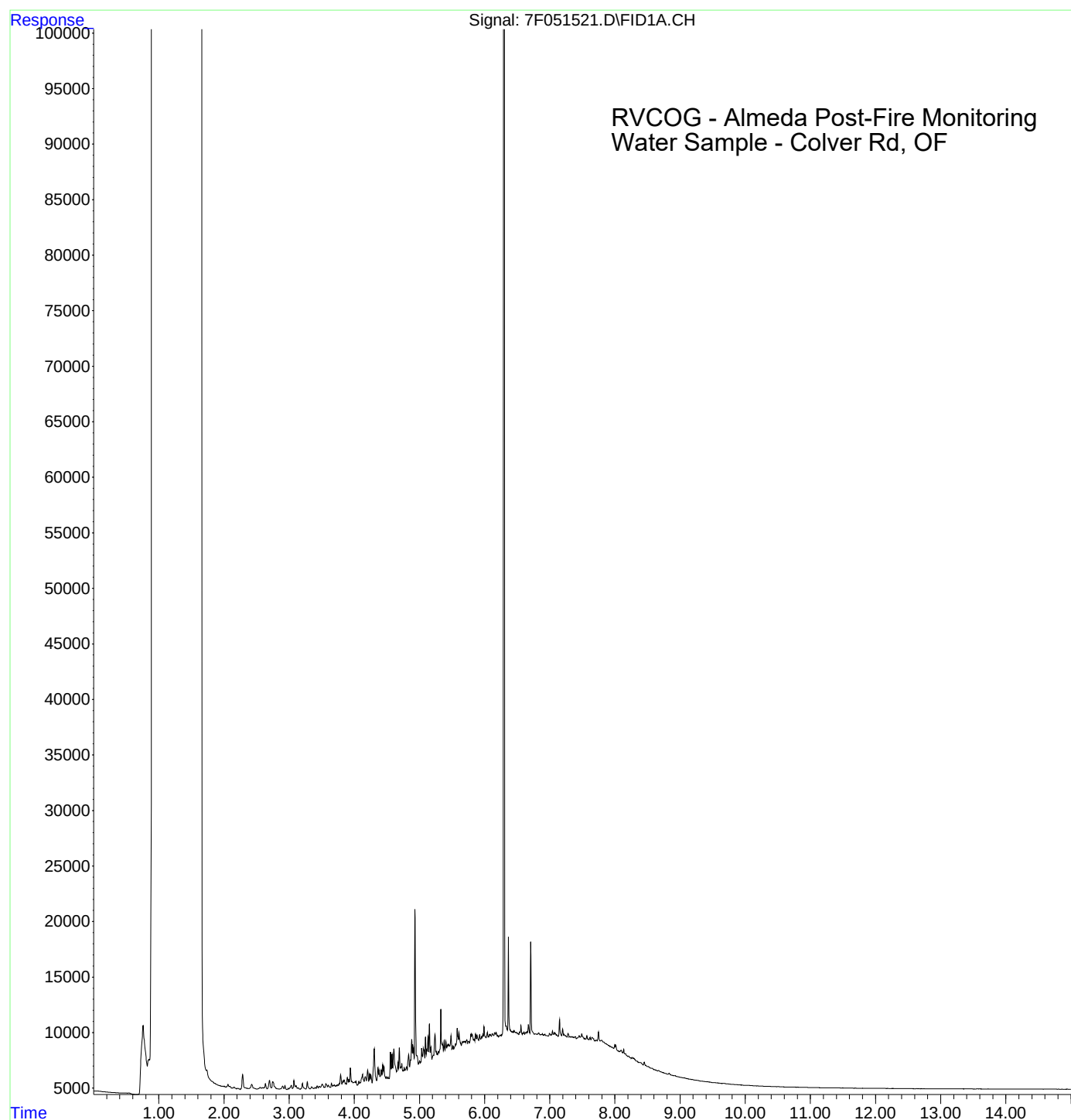
File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051519.D
Operator : BLL
Acquired : 16 May 2023 1:23 am using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: A3E0957-01
Misc Info :
Vial Number: 14



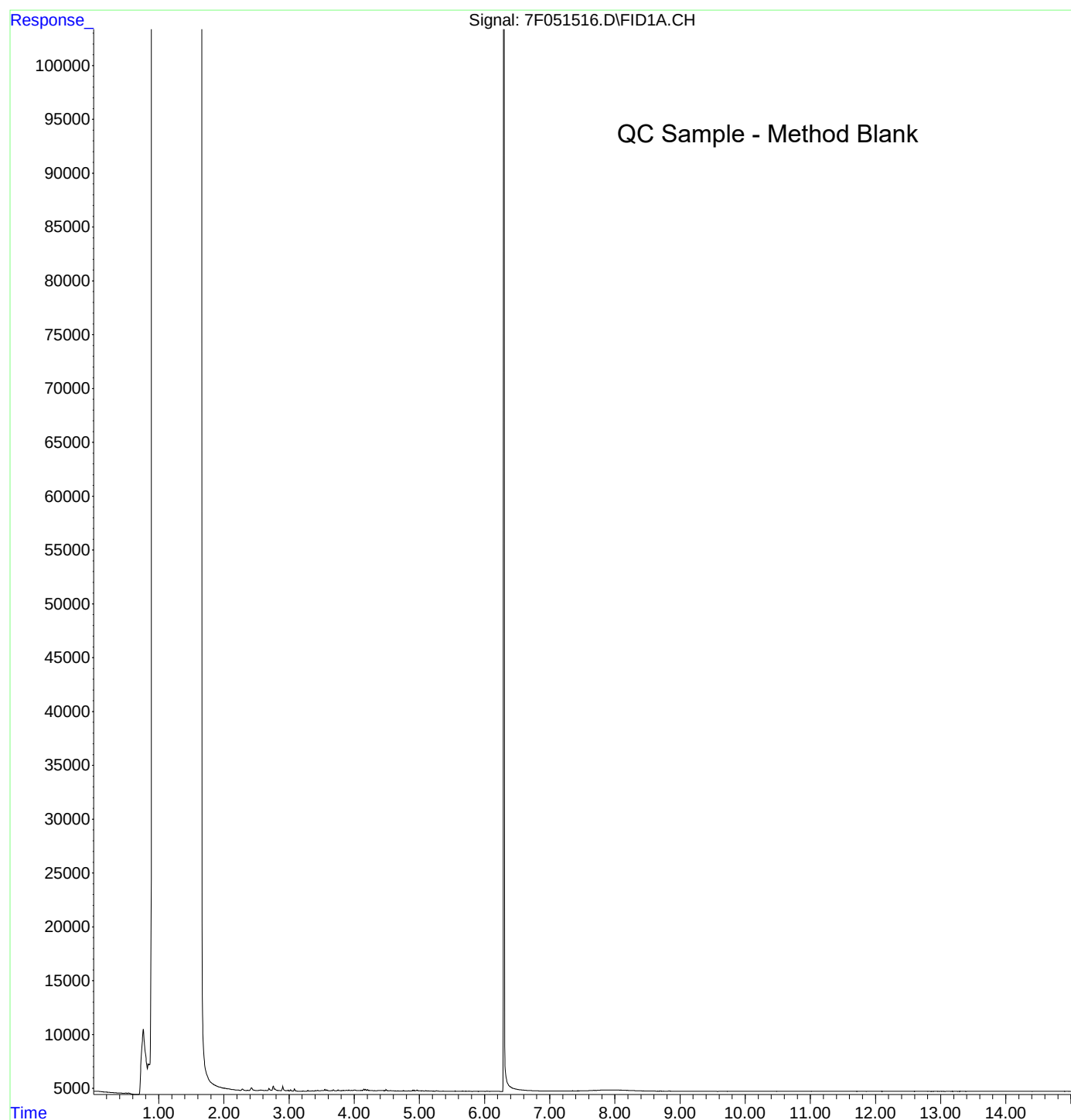
File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051520.D
Operator : BLL
Acquired : 16 May 2023 1:44 am using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: A3E0957-02
Misc Info :
Vial Number: 15



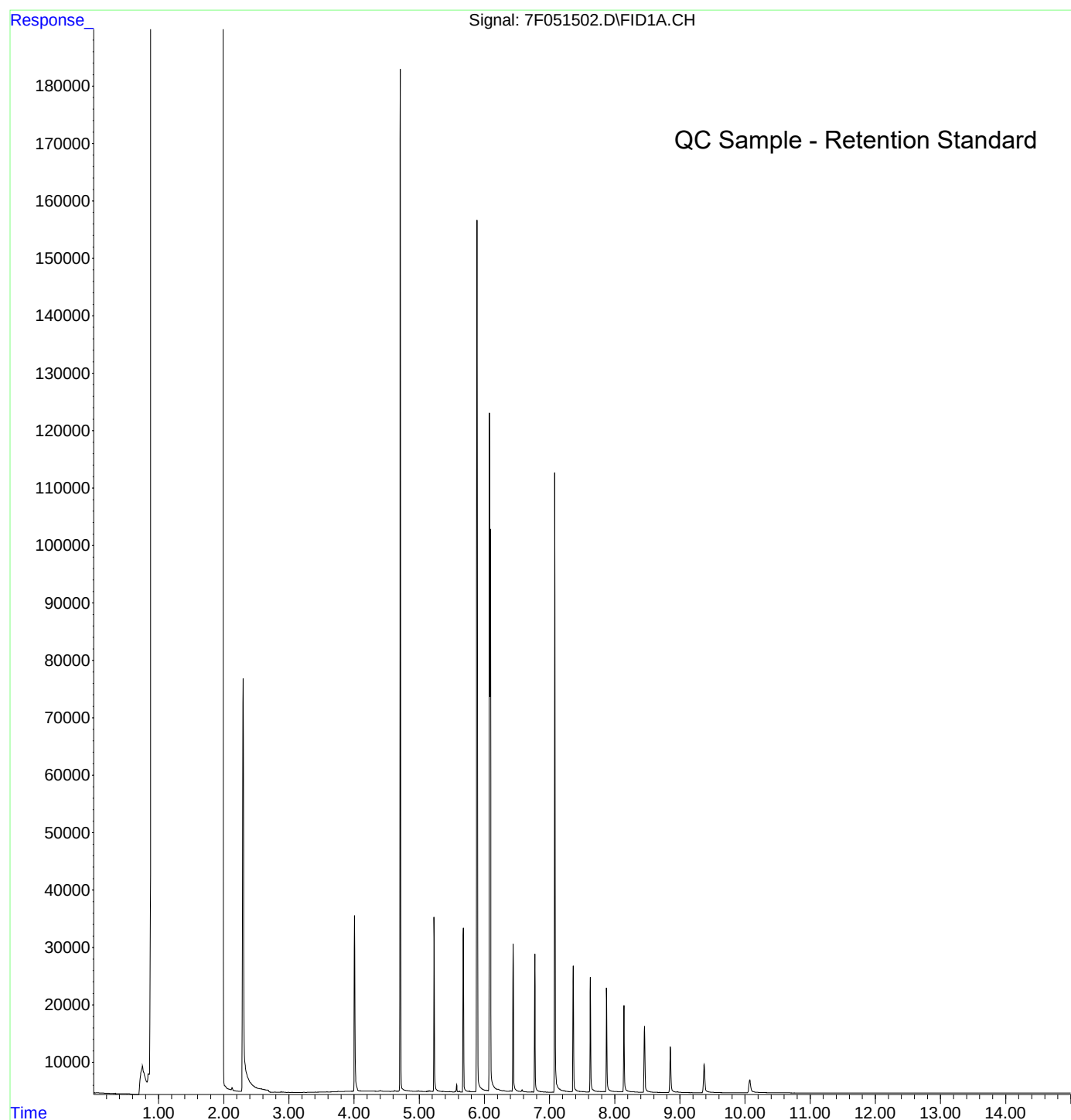
File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051521.D
Operator : BLL
Acquired : 16 May 2023 2:05 am using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: A3E0957-03
Misc Info :
Vial Number: 16



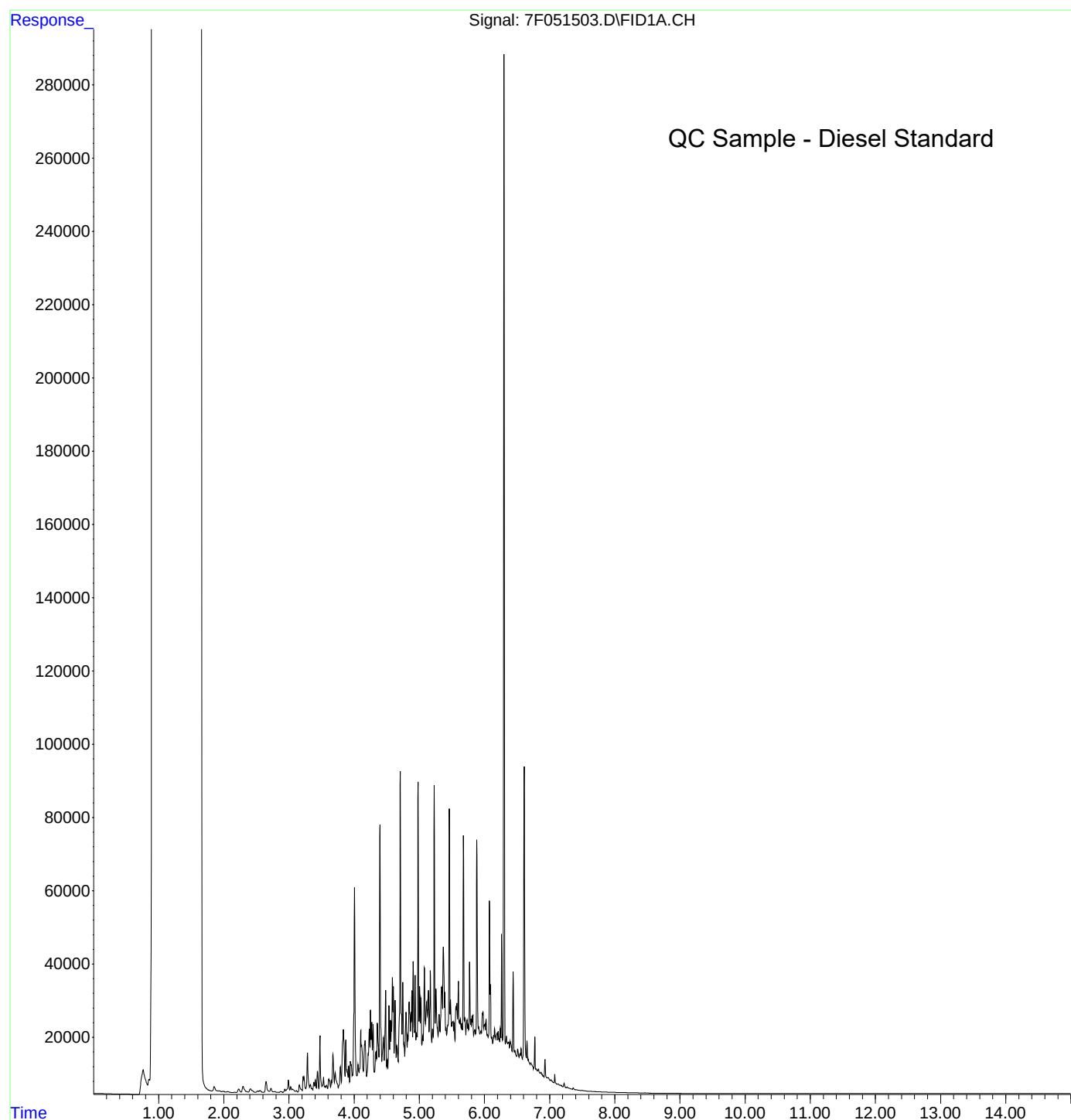
File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051516.D
Operator : BLL
Acquired : 16 May 2023 12:21 am using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 23E0593-BLK1
Misc Info :
Vial Number: 11



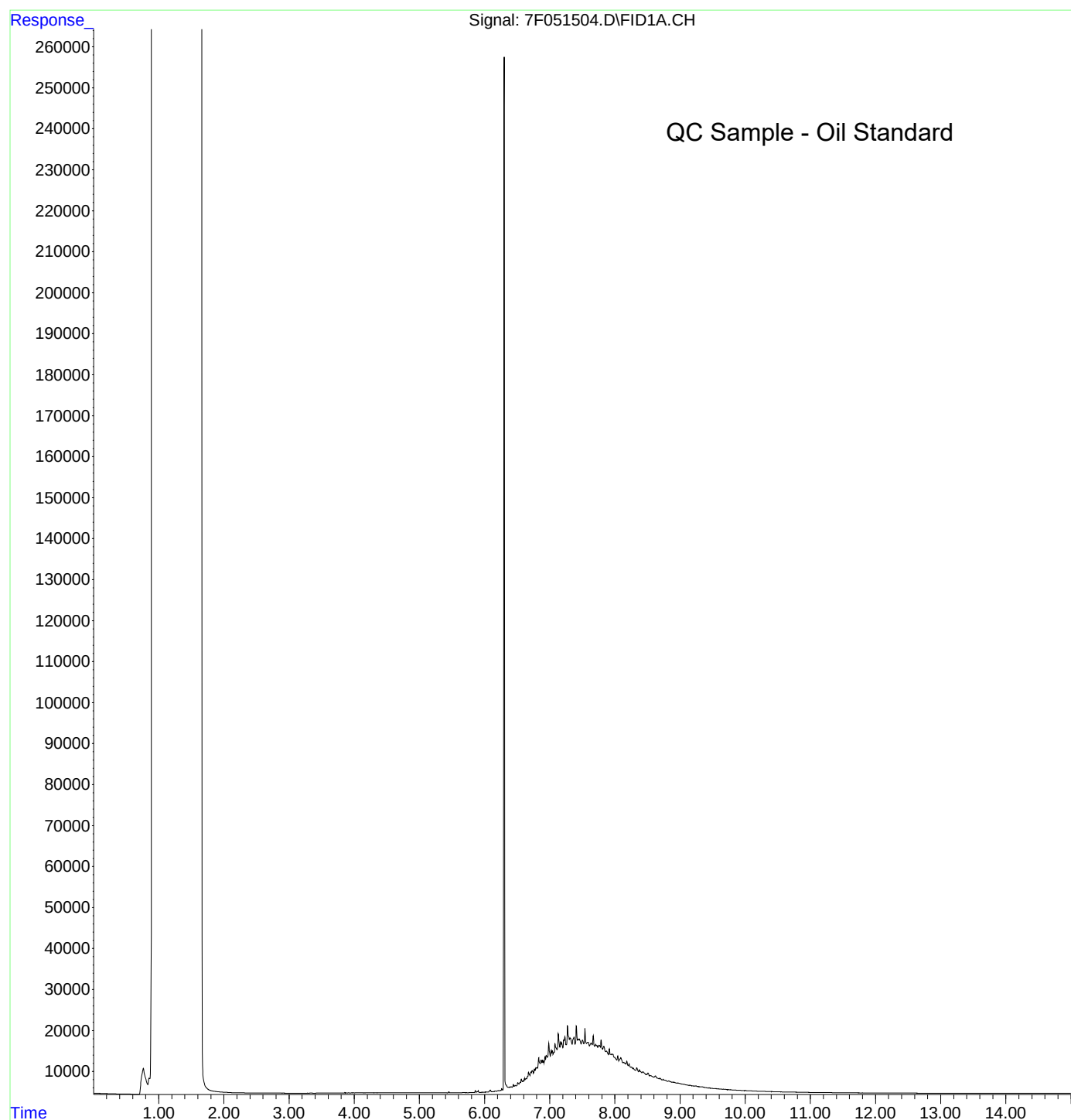
File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051502.D
Operator : BLL
Acquired : 15 May 2023 2:08 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 3E15059-RES1
Misc Info :
Vial Number: 94



File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051503.D
Operator : BLL
Acquired : 15 May 2023 2:29 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 3E15059-CCV1
Misc Info :
Vial Number: 1



File :M:\DUALFID7\1\DATA\2023-05\3E15059\7F051504.D
Operator : BLL
Acquired : 15 May 2023 2:50 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 3E15059-CCV2
Misc Info :
Vial Number: 2



Custom 8270 Analyst Verified Tentatively Identified Compounds

In addition to the standard analyte list of over 70 semivolatile organic compounds (SVOCs) eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. Up to 20 of the dominant detections per sample from this library search are provided in the table below. Per the EPA, only compounds from the library search with a qualifier value of 85 or above are considered reliable matches, therefore only these compounds have been included in the table. The estimated concentrations below have been corrected for prep factors and dilution factors, when applicable. It should be noted that the estimated concentrations are not based on instrument calibration of the specific compound.

For the samples West Valley View (WVV), OF, North Ridge Terrace (NRT), OF, and Colver Rd, OF, it should be noted that:

- The total ion chromatograms generated showed the presence of medium boiling material. This material appeared as an irregular pattern of peaks on top of a broad hump or unresolved complex mixture (UCM).
- The samples North Ridge Terrace (NRT), OF and Colver Rd, OF were analyzed using a four-fold dilution due to the presence of hydrocarbon background in the samples.

Tentatively Identified Compound (TIC)	CAS Number	Retention Time (minutes)	Estimated Final Conc. (ug/L)
West Valley View (WVV), OF (A3E0957-01)			
Benzothiazole	000095-16-9	8.317	0.19
Phthalic anhydride	000085-44-9	8.809	0.30
Triethylene glycol monobutyl ether	000143-22-6	9.574	0.31
North Ridge Terrace (NRT), OF (A3E0957-02)			
Dipropylene glycol monobutyl ether	029911-28-2	8.285	7.2
Colver Rd, OF (A3E0957-03)			
Cyprodinil	121552-61-2	12.398	0.43



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact: Breanne Dusureault
ALS Project ID: APX200
ALS WO#: L2750412
Date of Report: 9-Jun-23
Date of Sample Receipt: 4-May-23

Client Name: Apex Laboratories, LLC
Client Address: 6700 SW Sandburg St.
Tigard, OR 97223
USA
Client Contact: Kurt Johnson
Client Project ID: A3E0957

COMMENTS: Brominated Flame Retardants by EPA 1614

Certified by: _____

Steve Kennedy
Technical Supervisor

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences			
Sample Analysis Summary Report			
Sample Name	WEST VALLEY VIEW (WVV), OF	NORTH RIDGE TERRACE (NRT), OF	COLVER RD, OF
ALS Sample ID	L2750412-1	L2750412-2	L2750412-3
Sample Size	1.06	1.06	1.07
Sample size units	L	L	L
Percent Moisture	n/a	n/a	n/a
Sample Matrix	Water	Water	Water
Sampling Date	2-May-23	2-May-23	2-May-23
Extraction Date	9-May-203	9-May-203	9-May-203
Target Analytes	pg/L	pg/L	pg/L
BDE 10	<0.11	<0.081	<0.27
BDE 7	0.811	<0.075	<0.25
BDE 8/11	1.72	0.443	<0.18
BDE 12/13	1.87	0.415	<0.15
BDE 15	3.08	0.934	<0.48
BDE 30	<12	<4.3	<6.7
BDE 32	<1.2	<0.16	<0.30
BDE 17/25	21.2	8.48	2.14
BDE 28/33	42.5	19.6	8.91
BDE 35	<12	<2.8	<3.4
BDE 37	3.29	1.04	<0.26
PBEB	<4.7	1.45	<1.1
HBB	20.3	<12	<3.2
BDE 75	<0.61	1.38	<0.35
BDE 51	9.19	3.39	<0.29
BDE 49	93.3	36.2	11.4
BDE 71	<0.80	3.96	<0.73
BDE 47	1290	688	192
BDE 79	<0.49	4.37	2.08
BDE 66	62.3	29.0	<8.9
BDE 77	1.66	0.575	<0.26
BDE 100	410	223	54.2
BDE 119/120	<2.1	<2.1	6.06
BDE 99	1570	886	196
BDE 116	<3.3	<3.3	<2.9
BDE 83	<2.9	<2.9	<2.5
BDE 118	17.6	9.02	<2.1
BDE 85	73.6	46.7	8.81
BDE 126	<1.2	<1.1	<0.95
BDE 105	<2.4	<2.5	<2.2
BDE 155	8.95	<3.3	<2.9
BDE 154	134	67.9	19.3
BDE 153	157	87.1	<19
BDE 140	10.1	<6.5	<6.2
BDE 138/166	31.9	32.7	<10
BDE 156	<8.5	<16	<15
BDE 128	<7.1	<13	<12
BDE 184	<2.1	2.96	2.16
BDE 183	143	30.6	18.7
BDE 191	8.42	3.71	<2.6
BDE 181	<4.5	<1.7	<2.5
BDE 190	<6.8	4.96	<3.8
BDE 197	80.9	20.2	14.5
BDE 203	166	30.5	17.7
BDE 196	<29	<4.3	<5.2
BDE 208	388	<56	<43
BDE 207	711	<140	112
BDE 206	<890	185	89.0
BDE 209	22500	3540	1760
DBDPE	7490	<860	<720
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L	pg/L
Di BDE	7.48	1.79	0.480
Tri BDE	92.2	36.2	21.2
Tetra BDE	1460	767	215
Penta BDE	2070	1160	265
Hexa BDE	342	188	38.3
Hepta BDE	151	42.2	20.9
Octa BDE	247	50.7	32.2
Nona BDE	1990	381	244
Deca BDE	22500	3540	1760
Total PBDEs	28900	6170	2600
Extraction Standards	% Rec	% Rec	% Rec
13C12 BDE 15	69	86	49
13C12 BDE 28	75	101	68
13C6 HBB	90	128	110
13C12 BDE 47	80	114	78
13C12 BDE 77	88	134	102
13C12 BDE 100	78	84	67
13C12 BDE 99	92	97	66
13C12 BDE 126	101	110	91
13C12 BDE 154	61	68	66
13C12 BDE 153	89	104	80
13C12 BDE 183	78	73	60
13C12 BDE 197	65	72	67
13C12 BDE 207	95	92	93
13C12 BDE 209	83	65	48
13C14 DBDPE	58	50	27
Cleanup Standard			
13C12 BDE 138 Cleanup	88	123	86

ALS Life Sciences		
Quality Control Summary Report		
Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3783770-1	WG3783770-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	9-May-23	9-May-23
Target Analytes	pg/L	% Rec
BDE 10	<0.090	41
BDE 7	<0.084	67
BDE 8/11	<0.060	96
BDE 12/13	<0.051	89
BDE 15	<0.093	99
BDE 30	<0.16	77
BDE 32	<0.11	100
BDE 17/25	<0.24	99
BDE 28/33	0.580	99
BDE 35	<0.098	116
BDE 37	<0.098	119
PBEB	<0.20	104
HBB	3.18	103
BDE 75	<0.089	109
BDE 51	<0.075	96
BDE 49	<0.11	99
BDE 71	<0.12	102
BDE 47	9.81	102
BDE 79	<0.072	114
BDE 66	<0.12	106
BDE 77	<0.074	100
BDE 100	1.48	116
BDE 119/120	<0.32	98
BDE 99	6.35	100
BDE 116	<0.51	95
BDE 83	<0.44	104
BDE 118	<0.36	114
BDE 85	<0.31	111
BDE 126	<0.17	101
BDE 105	<0.37	105
BDE 155	<0.21	103
BDE 154	0.740	100
BDE 153	0.690	99
BDE 140	<0.46	106
BDE 138/166	<0.78	100
BDE 156	<1.1	111
BDE 128	<0.92	98
BDE 184	<0.20	103
BDE 183	<0.29	102
BDE 191	<0.44	108
BDE 181	<0.43	100
BDE 190	<0.65	100
BDE 197	<0.76	100
BDE 203	<1.1	110
BDE 196	<0.90	99
BDE 208	<0.79	109
BDE 207	<0.71	92
BDE 206	<0.88	94
BDE 209	11.7	101
DBDPE	<99	107
PBDE Homologue Group Totals		
(Sum of detected PBDEs including EMPCs)	pg/L	
Di BDE	0.0930	
Tri BDE	0.820	
Tetra BDE	9.81	
Penta BDE	7.83	
Hexa BDE	1.43	
Hepta BDE	<0.2	
Octa BDE	<0.76	
Nona BDE	<0.71	
Deca BDE	11.7	
Total PBDEs	31.7	
Extraction Standards	% Rec	% Rec
13C12 BDE 15	63	62
13C12 BDE 28	70	69
13C6 HBB	86	88
13C12 BDE 47	78	74
13C12 BDE 77	87	77
13C12 BDE 100	58	61
13C12 BDE 99	73	75
13C12 BDE 126	80	71
13C12 BDE 154	69	74
13C12 BDE 153	77	70
13C12 BDE 183	69	80
13C12 BDE 197	73	69
13C12 BDE 207	81	91
13C12 BDE 209	79	62
13C14 DBDPE	54	43
Cleanup Standard		
13C12 BDE 138 Cleanup	84	76

ALS Life Sciences													
Sample Analysis Report													
Sample Name		WEST VALLEY VIEW (WVV), OF				Sampling Date		2-May-23		Approved: Ella Gdyczynski --e-signature-- 09-Jun-2023			
ALS Sample ID		L2750412-1				Extraction Date		9-May-203					
Analysis Method		EPA 1614				Sample Size		1.06 L					
Analysis Type		Sample				Percent Moisture		n/a					
Sample Matrix		Water				Split Ratio		1					
Run Information		Run 1					Run 2						
Filename		10-230529A10					10-230609A21						
Run Date		29-May-23 19:30					09-Jun-23 10:27						
Final Volume		25 uL					25 uL						
Dilution Factor		1					5						
Analysis Units		pg/L					pg/L						
Instrument - Column		HRMS-10 DB5 US 2461927H					HRMS-10 DB5 US 2461927H						
Target Analytes		Ret.	Conc.	EDL	EMPC		Ret.	Conc.	EDL	EMPC			
		Time	pg/L	pg/L	Flags	pg/L	LQL	Time	pg/L	pg/L	Flags	pg/L	LQL
	BDE 10	NotFnd	<0.11	0.11		U							24
	BDE 7	6.79	0.811	0.10		J							24
	BDE 8/11	6.97	1.72	0.072		J							47
	BDE 12/13	7.10	1.87	0.061		J							47
	BDE 15	7.25	3.08	0.053		J							24
	BDE 30	7.98	<12	0.40	M,J,R	12							24
	BDE 32	8.39	<1.2	0.28		J,R	1.2						24
	BDE 17/25	8.53	21.2	0.36		J							47
	BDE 28/33	8.76	42.5	0.34		J							47
	BDE 35	8.88	<12	0.24		J,R	12						24
	BDE 37	9.09	3.29	0.24		J							24
	PBEB	9.12	<4.7	0.12		J,R	4.7						24
	HBB	10.10	20.3	0.36		J,B							24
	BDE 75	NotFnd	<0.61	0.61		U							24
	BDE 51	10.20	9.19	0.51		M,J							24
	BDE 49	10.30	93.3	0.77		M							24
	BDE 71	NotFnd	<0.80	0.80		U							24
	BDE 47	10.65	1290	0.55		M							24
	BDE 79	NotFnd	<0.49	0.49		U							24
	BDE 66	10.94	62.3	0.84		M							24
	BDE 77	11.42	1.66	0.52		M,J							24
	BDE 100	12.29	410	1.1									35
	BDE 119/120	NotFnd	<2.1	2.1		U							35
	BDE 99	12.81	1570	1.5									35
	BDE 116	NotFnd	<3.3	3.3		U							35
	BDE 83	NotFnd	<2.9	2.9		U							35
	BDE 118	13.21	17.6	2.4		J							35
	BDE 85	13.69	73.6	2.0									35
	BDE 126	NotFnd	<1.2	1.2		U							35
	BDE 105	NotFnd	<2.4	2.4		U							35
	BDE 155	13.86	8.95	0.37		J							47
	BDE 154	14.24	134	0.53									47
	BDE 153	15.01	157	3.2		M							47
	BDE 140	15.43	10.1	3.5		M,J							47
	BDE 138/166	15.97	31.9	6.0		M,J							94
	BDE 156	NotFnd	<8.5	8.5		U							47
	BDE 128	NotFnd	<7.1	7.1		U							47
	BDE 184	NotFnd	<2.1	2.1		U							59
	BDE 183	17.21	143	3.0		M							59
	BDE 191	17.79	8.42	4.6		M,J							59
	BDE 181	NotFnd	<4.5	4.5		U							59
	BDE 190	NotFnd	<6.8	6.8		U							59
	BDE 197	19.88	80.9	24		M							59
	BDE 203	20.21	166	36		M							59
	BDE 196	NotFnd	<29	29		U							59
	BDE 208						21.51	388	110		J		590
	BDE 207						21.66	711	110		M		590
	BDE 206						21.97	<890	130		M,R	890	590
	BDE 209						24.02	22500	320		M		590
	DBDPE						25.58	7490	960		M		1200
Extraction Standards		pg	% Rec		Limits		% Rec						
	13C12 BDE 15	1000	7.24	69	25-150								
	13C12 BDE 28	1000	8.76	75	25-150								
	13C6 HBB	1000	10.10	90	25-150								
	13C12 BDE 47	1000	10.64	80	25-150								
	13C12 BDE 77	1000	11.40	88	25-150								
	13C12 BDE 100	1000	12.28	78	25-150								
	13C12 BDE 99	1000	12.80	92	25-150								
	13C12 BDE 126	1000	13.87	101	25-150								
	13C12 BDE 154	1000	14.23	61	25-150								
	13C12 BDE 153	1000	15.00	89	25-150								
	13C12 BDE 183	1000	17.20	78	25-150								
	13C12 BDE 197	2000	19.89	65	25-150		19.59	71					
	13C12 BDE 207	5000			25-150		21.64	95					
	13C12 BDE 209	5000			20-200		24.02	83					
	13C14 DBDPE	10000			5-200		25.59	58			R		
Cleanup Standard		pg	% Rec		Limits								
	13C12 BDE 138 Cleanup	2000	15.96	88	30-135								
	EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.											
	LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.											
	M	Indicates that a peak has been manually integrated.											
	U	Indicates that this compound was not detected above the EDL.											
	J	Indicates that a target analyte was detected below the calibrated range.											
	R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.											
	B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.											
	EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure											

ALS Life Sciences													
Sample Analysis Report													
Sample Name		NORTH RIDGE TERRACE (NRT), OF				Sampling Date		2-May-23		Approved: Ella Gdyczynski --e-signature-- 09-Jun-2023			
ALS Sample ID		L2750412-2				Extraction Date		9-May-203					
Analysis Method		EPA 1614				Sample Size		1.06 L					
Analysis Type		Sample				Percent Moisture		n/a					
Sample Matrix		Water				Split Ratio		1					
Run Information		Run 1					Run 2						
Filename		10-230529A11					10-230609A22						
Run Date		29-May-23 20:08					09-Jun-23 11:04						
Final Volume		25 uL					25 uL						
Dilution Factor		1					5						
Analysis Units		pg/L					pg/L						
Instrument - Column		HRMS-10 DB5 US 2461927H					HRMS-10 DB5 US 2461927H						
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10		NotFnd	<0.081	0.081		U	24						
BDE 7		NotFnd	<0.075	0.075		U	24						
BDE 8/11		6.96	0.443	0.054		M,J	47						
BDE 12/13		7.09	0.415	0.046		M,J	47						
BDE 15		7.21	0.934	0.039		M,J	24						
BDE 30		7.98	<4.3	0.23		J,R	4.3	24					
BDE 32		NotFnd	<0.16	0.16		U	24						
BDE 17/25		8.52	8.48	0.20		M,J	47						
BDE 28/33		8.75	19.6	0.20		J	47						
BDE 35		8.87	<2.8	0.14		J,R	2.8	24					
BDE 37		9.08	1.04	0.14		J	24						
PBEB		9.10	1.45	0.20		M,J	24						
HBB		10.08	<12	2.8		M,J,R	12	24					
BDE 75		10.14	1.38	0.15		J	24						
BDE 51		10.19	3.39	0.13		J	24						
BDE 49		10.30	36.2	0.19		M	24						
BDE 71		10.34	3.96	0.20		M,J	24						
BDE 47		10.63	688	0.14		M	24						
BDE 79		10.76	4.37	0.12		M,J	24						
BDE 66		10.92	29.0	0.21			24						
BDE 77		11.41	0.575	0.12		J	24						
BDE 100		12.29	223	1.0		M	35						
BDE 119/120		NotFnd	<2.1	2.1		U	35						
BDE 99		12.81	886	1.7		M	35						
BDE 116		NotFnd	<3.3	3.3		U	35						
BDE 83		NotFnd	<2.9	2.9		U	35						
BDE 118		13.22	9.02	2.4		M,J	35						
BDE 85		13.69	46.7	2.0			35						
BDE 126		NotFnd	<1.1	1.1		U	35						
BDE 105		NotFnd	<2.5	2.5		U	35						
BDE 155		NotFnd	<3.3	3.3		U	47						
BDE 154		14.25	67.9	4.7		M	47						
BDE 153		15.05	87.1	5.6			47						
BDE 140		NotFnd	<6.5	6.5		U	47						
BDE 138/166		15.98	32.7	11		M,J	94						
BDE 156		NotFnd	<16	16		U	47						
BDE 128		NotFnd	<13	13		U	47						
BDE 184		16.87	2.96	0.79		J	59						
BDE 183		17.25	30.6	1.1		J	59						
BDE 191		17.84	3.71	1.7		M,J	59						
BDE 181		NotFnd	<1.7	1.7		U	59						
BDE 190		18.61	4.96	2.6		M,J	59						
BDE 197		19.94	20.2	3.6		M,J	59						
BDE 203		20.30	30.5	5.4		M,J	59						
BDE 196		NotFnd	<4.3	4.3		U	59						
BDE 208								21.50	<56	49.4,J,R,1.	56	590	
BDE 207								21.67	<140	51.4,J,R,1.	140	590	
BDE 206								21.99	185	59	M,J	590	
BDE 209								23.94	3540	320	M	590	
DBDPE								NotFnd	<860	860	U	1200	
Extraction Standards		pg	% Rec		Limits		% Rec						
13C12 BDE 15		1000	7.21	86	25-150								
13C12 BDE 28		1000	8.75	101	25-150								
13C6 HBB		1000	10.08	128	25-150								
13C12 BDE 47		1000	10.63	114	25-150								
13C12 BDE 77		1000	11.40	134	25-150								
13C12 BDE 100		1000	12.28	84	25-150								
13C12 BDE 99		1000	12.80	97	25-150								
13C12 BDE 126		1000	13.88	110	25-150								
13C12 BDE 154		1000	14.24	68	25-150								
13C12 BDE 153		1000	15.05	104	25-150								
13C12 BDE 183		1000	17.25	73	25-150								
13C12 BDE 197		2000	19.93	72	25-150								
13C12 BDE 207		5000			25-150		21.64		92				
13C12 BDE 209		5000			20-200		23.96		65	R			
13C14 DBDPE		10000			5-200		25.60		50				
Cleanup Standard		pg	% Rec		Limits								
13C12 BDE 138 Cleanup		2000	15.99	123	30-135								
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.											
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.											
M		Indicates that a peak has been manually integrated.											
U		Indicates that this compound was not detected above the EDL.											
J		Indicates that a target analyte was detected below the calibrated range.											
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.											
1.		This result is an EMPC											
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure											

ALS Life Sciences													
Sample Analysis Report													
Sample Name		COLVER RD, OF				Sampling Date		2-May-23		Approved: Ella Gdyczynski --e-signature-- 09-Jun-2023			
ALS Sample ID		L2750412-3				Extraction Date		9-May-203					
Analysis Method		EPA 1614				Sample Size		1.07 L					
Analysis Type		Sample				Percent Moisture		n/a					
Sample Matrix		Water				Split Ratio		1					
Run Information		Run 1					Run 2						
Filename		10-230529A12					10-230609A24						
Run Date		29-May-23 20:45					09-Jun-23 12:27						
Final Volume		25 uL					25 uL						
Dilution Factor		1					2						
Analysis Units		pg/L					pg/L						
Instrument - Column		HRMS-10 DB5 US 2461927H					HRMS-10 DB5 US 2461927H						
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10		NotFnd	<0.27	0.27		U	23						
BDE 7		NotFnd	<0.25	0.25		U	23						
BDE 8/11		NotFnd	<0.18	0.18		U	47						
BDE 12/13		NotFnd	<0.15	0.15		U	47						
BDE 15		7.22	<0.48	0.13	M,J,R	0.48	23						
BDE 30		7.98	<6.7	0.43		J,R	6.7	23					
BDE 32		NotFnd	<0.30	0.30		U	23						
BDE 17/25		8.53	2.14	0.38		M,J	47						
BDE 28/33		8.76	8.91	0.36		J	47						
BDE 35		8.87	<3.4	0.25		J,R	3.4	23					
BDE 37		NotFnd	<0.26	0.26		U	23						
PBEB		9.10	<1.1	0.29		M,J,R	1.1	23					
HBB		NotFnd	<3.2	3.2		U	23						
BDE 75		NotFnd	<0.35	0.35		U	23						
BDE 51		NotFnd	<0.29	0.29		U	23						
BDE 49		10.29	11.4	0.44		M,J	23						
BDE 71		10.34	<0.73	0.46		M,J,R	0.73	23					
BDE 47		10.63	192	0.37			23						
BDE 79		10.76	2.08	0.28		J	23						
BDE 66		10.91	<8.9	0.48		M,J,R	8.9	23					
BDE 77		NotFnd	<0.26	0.26		U	23						
BDE 100		12.27	54.2	0.94		M	35						
BDE 119/120		12.38	6.06	1.9		M,J	35						
BDE 99		12.79	196	1.6			35						
BDE 116		NotFnd	<2.9	2.9		U	35						
BDE 83		NotFnd	<2.5	2.5		U	35						
BDE 118		NotFnd	<2.1	2.1		U	35						
BDE 85		13.68	8.81	1.8		J	35						
BDE 126		NotFnd	<0.95	0.95		U	35						
BDE 105		NotFnd	<2.2	2.2		U	35						
BDE 155		NotFnd	<2.9	2.9		U	47						
BDE 154		14.24	19.3	3.6		M,J	47						
BDE 153		15.05	<19	6.6		J,R	19	47					
BDE 140		15.47	<6.2	6.2		U	2.5	47					
BDE 138/166		NotFnd	<10	10		U	93						
BDE 156		NotFnd	<15	15		U	47						
BDE 128		NotFnd	<12	12		U	47						
BDE 184		16.85	2.16	1.2		M,J	58						
BDE 183		17.22	18.7	1.7		M,J	58						
BDE 191		NotFnd	<2.6	2.6		U	58						
BDE 181		NotFnd	<2.5	2.5		U	58						
BDE 190		NotFnd	<3.8	3.8		U	58						
BDE 197		19.89	14.5	4.4		M,J	58						
BDE 203		20.24	17.7	6.5		M,J	58						
BDE 196		NotFnd	<5.2	5.2		U	58						
BDE 208								21.55	<43	38	M,J,R	43	230
BDE 207								21.68	112	40	M,J		230
BDE 206								22.02	89.0	46	M,J		230
BDE 209								23.99	1760	500	M		230
DBDPE								NotFnd	<720	720	U		470
Extraction Standards		pg	% Rec		Limits		% Rec						
13C12 BDE 15		1000	7.21	49	25-150								
13C12 BDE 28		1000	8.75	68	25-150								
13C6 HBB		1000	10.08	110	25-150								
13C12 BDE 47		1000	10.63	78	25-150								
13C12 BDE 77		1000	11.38	102	25-150								
13C12 BDE 100		1000	12.27	67	25-150								
13C12 BDE 99		1000	12.77	66	25-150								
13C12 BDE 126		1000	13.86	91	25-150								
13C12 BDE 154		1000	14.23	66	25-150								
13C12 BDE 153		1000	15.04	80	25-150								
13C12 BDE 183		1000	17.22	60	25-150								
13C12 BDE 197		2000	19.92	67	25-150								
13C12 BDE 207		5000			25-150		21.68	93					
13C12 BDE 209		5000			20-200		24.02	48					
13C14 DBDPE		10000			5-200		25.64	27					
Cleanup Standard		pg	% Rec		Limits								
13C12 BDE 138 Cleanup		2000	15.97	86	30-135								
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.											
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.											
M		Indicates that a peak has been manually integrated.											
U		Indicates that this compound was not detected above the EDL.											
J		Indicates that a target analyte was detected below the calibrated range.											
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.											
B		Indicates that this target was detected in the blank at greater than 10% of the sample concentration.											
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure											

ALS Life Sciences													
Laboratory Method Blank Analysis Report													
Sample Name		Method Blank		Sampling Date		n/a		Approved: <i>Ella Gdyczynski</i> --e-signature-- 09-Jun-2023					
ALS Sample ID		WG3783770-1		Extraction Date		9-May-23							
Analysis Method		EPA 1614		Sample Size		1.00 L							
Analysis Type		Blank		Percent Moisture		n/a							
Sample Matrix		QC		Split Ratio		1							
Run Information				Run 1				Run 2					
Filename				10-230529A08				10-230609A26					
Run Date				29-May-23 18:16				09-Jun-23 13:47					
Final Volume				25 uL				25 uL					
Dilution Factor				1				1					
Analysis Units				pg/K				pg/K					
Instrument - Column				HRMS-10 DB5 US 2461927H				HRMS-10 DB5 US 2461927H					
Target Analytes		Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10		NotFnd	<0.090	0.090	U		25						
BDE 7		NotFnd	<0.084	0.084	U		25						
BDE 8/11		NotFnd	<0.060	0.060	U		50						
BDE 12/13		NotFnd	<0.051	0.051	U		50						
BDE 15		7.24	<0.093	0.044	M,J,R	0.093	25						
BDE 30		NotFnd	<0.16	0.16	U		25						
BDE 32		NotFnd	<0.11	0.11	U		25						
BDE 17/25		8.52	<0.24	0.15	M,J,R	0.24	50						
BDE 28/33		8.75	0.580	0.14	M,J		50						
BDE 35		NotFnd	<0.098	0.098	U		25						
BDE 37		NotFnd	<0.098	0.098	U		25						
PBEB		9.10	<0.20	0.070	M,J,R	0.20	25						
HBB		10.04	3.18	0.32	M,J		25						
BDE 75		NotFnd	<0.089	0.089	U		25						
BDE 51		NotFnd	<0.075	0.075	U		25						
BDE 49		NotFnd	<0.11	0.11	U		25						
BDE 71		NotFnd	<0.12	0.12	U		25						
BDE 47		10.60	9.81	0.083	J		25						
BDE 79		NotFnd	<0.072	0.072	U		25						
BDE 66		NotFnd	<0.12	0.12	U		25						
BDE 77		NotFnd	<0.074	0.074	U		25						
BDE 100		12.23	1.48	0.18	J		38						
BDE 119/120		NotFnd	<0.32	0.32	U		38						
BDE 99		12.73	6.35	0.23	M,J		38						
BDE 116		NotFnd	<0.51	0.51	U		38						
BDE 83		NotFnd	<0.44	0.44	U		38						
BDE 118		NotFnd	<0.36	0.36	U		38						
BDE 85		NotFnd	<0.31	0.31	U		38						
BDE 126		NotFnd	<0.17	0.17	U		38						
BDE 105		NotFnd	<0.37	0.37	U		38						
BDE 155		NotFnd	<0.21	0.21	U		50						
BDE 154		14.17	0.740	0.27	M,J		50						
BDE 153		14.90	0.690	0.49	M,J		50						
BDE 140		NotFnd	<0.46	0.46	U		50						
BDE 138/166		NotFnd	<0.78	0.78	U		100						
BDE 156		NotFnd	<1.1	1.1	U		50						
BDE 128		NotFnd	<0.92	0.92	U		50						
BDE 184		NotFnd	<0.20	0.20	U		63						
BDE 183		NotFnd	<0.29	0.29	U		63						
BDE 191		NotFnd	<0.44	0.44	U		63						
BDE 181		NotFnd	<0.43	0.43	U		63						
BDE 190		NotFnd	<0.65	0.65	U		63						
BDE 197		NotFnd	<0.76	0.76	U		63						
BDE 203		NotFnd	<1.1	1.1	U		63						
BDE 196		NotFnd	<0.90	0.90	U		63						
BDE 208		NotFnd	<0.79	0.79	U		130						
BDE 207		21.84	<0.71	0.71	M,U	0.61	130						
BDE 206		22.22	<0.88	0.88	M,U	0.76	130						
BDE 209		24.48	11.7	4.9	M,J		130						
DBDPE								NotFnd	<99	99	U		250
Extraction Standards		pg	% Rec		Limits		% Rec						
13C12 BDE 15		1000	7.23	63	25-150								
13C12 BDE 28		1000	8.74	70	25-150								
13C6 HBB		1000	10.04	86	25-150								
13C12 BDE 47		1000	10.59	78	25-150								
13C12 BDE 77		1000	11.33	87	25-150								
13C12 BDE 100		1000	12.22	58	25-150								
13C12 BDE 99		1000	12.73	73	25-150								
13C12 BDE 126		1000	13.78	80	25-150								
13C12 BDE 154		1000	14.17	69	25-150								
13C12 BDE 153		1000	14.91	77	25-150								
13C12 BDE 183		1000	17.06	69	25-150								
13C12 BDE 197		2000	19.63	73	25-150								
13C12 BDE 207		5000	21.82	81	25-150								
13C12 BDE 209		5000	24.51	79	20-200								
13C14 DBDPE		10000			5-200		25.56	54					
Cleanup Standard		pg	% Rec		Limits								
13C12 BDE 138 Cleanup		2000	15.85	84	30-135								
EDL		Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.											
LQL		Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.											
M		Indicates that a peak has been manually integrated.											
U		Indicates that this compound was not detected above the EDL.											
J		Indicates that a target analyte was detected below the calibrated range.											
R		Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.											
EMPC		Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure											

ALS Life Sciences									
Laboratory Control Sample Analysis Report									
Sample Name		Laboratory Control Sample			Sampling Date		n/a		Approved: <i>Ella Gdyczynski</i> --e-signature-- 09-Jun-2023
ALS Sample ID		WG3783770-2			Extraction Date		9-May-23		
Analysis Method		EPA 1614			Sample Size		1 n/a		
Analysis Type		LCS			Percent Moisture		n/a		
Sample Matrix		QC			Split Ratio		1		
Run Information		Run 1				Run 2			
Filename		10-230529A03				10-230609A27			
Run Date		29-May-23 15:10				09-Jun-23 14:24			
Final Volume		25 uL				25 uL			
Dilution Factor		1				1			
Analysis Units		%				%			
Instrument - Column		HRMS-10 DB5 US 2461927H				HRMS-10 DB5 US 2461927H			
Target Analytes		pg	Ret. Time	% Rec	Limits	Ret. Time	% Rec	Flags	
BDE 10		400	6.42	41	5-130				
BDE 7		400	6.79	67	5-130				
BDE 8/11		800	6.95	96	50-150				
BDE 12/13		800	7.07	89	5-130				
BDE 15		400	7.21	99	50-150				
BDE 30		400	7.90	77	5-130				
BDE 32		400	8.35	100	50-150				
BDE 17/25		800	8.50	99	50-150				
BDE 28/33		800	8.73	99	50-150				
BDE 35		400	8.88	116	50-150				
BDE 37		400	9.07	119	50-150				
PBEB		400	9.07	104	50-150				
HBB		400	10.04	103	50-150				
BDE 75		400	10.09	109	50-150				
BDE 51		400	10.17	96	50-150				
BDE 49		400	10.26	99	50-150				
BDE 71		400	10.33	102	50-150				
BDE 47		400	10.59	102	50-150				
BDE 79		400	10.75	114	50-150				
BDE 66		400	10.87	106	50-150				
BDE 77		400	11.35	100	50-150				
BDE 100		600	12.22	116	50-150				
BDE 119/120		1200	12.39	98	50-150				
BDE 99		600	12.71	100	50-150				
BDE 116		600	12.87	95	40-140				
BDE 83		600	13.01	104	50-150				
BDE 118		600	13.14	114	50-150				
BDE 85		600	13.62	111	50-150				
BDE 126		600	13.78	101	50-150				
BDE 105		600	13.94	105	50-150				
BDE 155		800	13.78	103	50-150				
BDE 154		800	14.15	100	50-150				
BDE 153		800	14.90	99	50-150				
BDE 140		800	15.35	106	50-150				
BDE 138/166		1600	15.85	100	50-150				
BDE 156		800	16.23	111	50-150				
BDE 128		800	16.86	98	50-150				
BDE 184		1000	16.67	103	50-150				
BDE 183		1000	17.06	102	50-150				
BDE 191		1000	17.63	108	50-150				
BDE 181		1000	18.18	100	50-150				
BDE 190		1000	18.34	100	50-150				
BDE 197		1000	19.63	100	50-150				
BDE 203		1000	19.95	110	50-150				
BDE 196		1000	20.11	99	50-150				
BDE 208		2000	21.69	109	50-150				
BDE 207		2000	21.86	92	50-150				
BDE 206		2000	22.23	94	50-150				
BDE 209		2000	24.54	101	40-200				
DBDPE		4000			40-200	25.54	107		
Extraction Standards		pg		% Rec	Limits		% Rec		
13C12 BDE 15		1000	7.20	62	25-150				
13C12 BDE 28		1000	8.73	69	30-140				
13C6 HBB		1000	10.03	88	30-140				
13C12 BDE 47		1000	10.59	74	30-140				
13C12 BDE 77		1000	11.33	77	30-140				
13C12 BDE 100		1000	12.20	61	30-140				
13C12 BDE 99		1000	12.71	75	30-140				
13C12 BDE 126		1000	13.77	71	30-140				
13C12 BDE 154		1000	14.15	74	30-140				
13C12 BDE 153		1000	14.90	70	30-140				
13C12 BDE 183		1000	17.05	80	30-140				
13C12 BDE 197		2000	19.63	69	30-140				
13C12 BDE 207		5000	21.84	91	30-140				
13C12 BDE 209		5000	24.54	62	20-200				
13C14 DBDPE		10000			5-200	25.58	43		
Cleanup Standard		pg							
13C12 BDE 138 Cleanup		2000	15.84	76	40-125				
R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.									



AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES

A METIRI GROUP COMPANY

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NELAP Certification Number: CA00046

DoD-ELAP Certification Number 4064.01

State Certification Number:

May 26, 2023

Greg Stabach
RVCOG
155 N Front St.
Central Point, OR 97502

RE: Almeda Fire
23E0022

Enclosed are the results of analyses for samples received by our laboratory on 5/3/2023. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,

Chue Moua
Project Manager

cmoua@applinc.com
559-862-2155

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RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Work Order Case Narrative

EPA 8290:

In sample NRT, three surrogates recovered above the upper limit.

Analysis Case Narrative

PFAS: Manual integrations were performed for this method in accordance with APPL's SOP. Abbreviated flags for technical justification are provided as data qualifiers.

Some extracted internal standards recovered outside of control limits in some samples; these samples were diluted and recovered in control, unless stated otherwise.

The extracted internal standard D7-NMeFOSE recovered below the lower control limit in sample 02 – NRT.

The extracted internal standard D7-NMeFOSE recovered below the lower control limit in sample 03 – CLOVER RD.

The extracted internal standards D3-NMeFOSA and D5-NEtFOSA recovered below the lower control limit in the BCE0073-BLK1, BCE0073-BS1, BCE0073-BSD1, and BCE0073-MRL1. The extracted internal standards D7-NMeFOSE recovered below the lower control limit in the BCE0073-MRL1.

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23E0022-01	WVW	Water	05/02/2023 10:02	05/03/2023
23E0022-02	NRT	Water	05/02/2023 09:06	05/03/2023
23E0022-03	COLVER RD	Water	05/02/2023 09:36	05/03/2023

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Sample Results

Sample: WVV
23E0022-01 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	2.5 J	17	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeA	2.1 J	8.3	1.0	0.32	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxA	3.1 J	4.2	1.0	0.33	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpA	0.76 J IR2,	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFOA	2.3 J	4.2	1.0	0.43	ng/L	05/11/23	1	Table B-15	BCE0073
PFNA	0.73 J IR2,	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFDA	0.98 J	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFUnA	1.0 U	4.2	1.0	0.42	ng/L	05/11/23	1	Table B-15	BCE0073
PFDoA	0.65 J	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFTeDA	1.0 U	4.2	1.0	0.30	ng/L	05/11/23	1	Table B-15	BCE0073
PFTeDA	0.61 J IR2,	4.2	1.0	0.45	ng/L	05/11/23	1	Table B-15	BCE0073
PFBS	1.5 J	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeS	1.0 U	4.2	1.0	0.30	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxS	1.0 U	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpS	1.0 U	4.2	1.0	0.29	ng/L	05/11/23	1	Table B-15	BCE0073
PFOS	2.3 J	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
PFNS	2.1 U	4.2	2.1	1.3	ng/L	05/11/23	1	Table B-15	BCE0073
PFDS	1.0 U	4.2	1.0	0.33	ng/L	05/11/23	1	Table B-15	BCE0073
4:2FTS	2.1 U	17	2.1	0.56	ng/L	05/11/23	1	Table B-15	BCE0073
6:2FTS	1.0 U	17	1.0	0.47	ng/L	05/11/23	1	Table B-15	BCE0073
8:2FTS	3.1 U	17	3.1	1.1	ng/L	05/11/23	1	Table B-15	BCE0073
PFOSA	1.0 U	17	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSA	10 U	17	10	5.1	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSA	10 U	17	10	5.1	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSAA	1.0 U	4.2	1.0	0.37	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSAA	1.0 U	4.2	1.0	0.26	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSE	6.2 U	17	6.2	3.1	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSE	6.2 U	17	6.2	3.1	ng/L	05/11/23	1	Table B-15	BCE0073
HFPO-DA	5.2 U	8.3	5.2	2.5	ng/L	05/11/23	1	Table B-15	BCE0073
ADONA	3.1 U	8.3	3.1	1.4	ng/L	05/11/23	1	Table B-15	BCE0073
9Cl-PF3ONS	3.1 U	8.3	3.1	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
11Cl-PF3OUDS	3.1 U	8.3	3.1	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFBA	91.1%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFPEA	84.1%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFHXA	87.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFHPA	96.2%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOA	96.3%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C9-PFNA	90.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C6-PFDA	108%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C7-PFUnA	102%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFDOA	94.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFTEDA	86.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFBS	92.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFHXS	91.3%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
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Reported: 05/26/2023 14:22

Sample Results (Continued)

Sample: WVV (Continued)
23E0022-01 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	99.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-4:2FTS	156% S2		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-4:2FTS	129%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	156% S2		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	118%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C2-8:2FTS	118%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOSA	72.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOSA	58.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOSA	59.5%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOSAA	96.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOSAA	99.9%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOSE	49.3% S1		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOSE	58.4%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: D9-NETFOSE	64.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-HFPO-DA	103%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Sample Results (Continued)

Sample: NRT
23E0022-02 (Water)

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	11 J	16	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeA	7.3 J	7.8	0.97	0.30	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxA	6.0	3.9	0.97	0.31	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpA	1.8 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFOA	5.3	3.9	0.97	0.40	ng/L	05/11/23	1	Table B-15	BCE0073
PFNA	1.4 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFDA	2.8 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFUnA	0.53 J	3.9	0.97	0.39	ng/L	05/11/23	1	Table B-15	BCE0073
PFDoA	0.95 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFTrDA	0.97 U	3.9	0.97	0.28	ng/L	05/11/23	1	Table B-15	BCE0073
PFTeDA	0.97 U	3.9	0.97	0.42	ng/L	05/11/23	1	Table B-15	BCE0073
PFBS	2.7 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeS	0.97 U	3.9	0.97	0.28	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxS	0.97 U	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpS	0.97 U	3.9	0.97	0.27	ng/L	05/11/23	1	Table B-15	BCE0073
PFOS	3.5 J	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
PFNS	1.9 U	3.9	1.9	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
PFDS	0.97 U	3.9	0.97	0.31	ng/L	05/11/23	1	Table B-15	BCE0073
4:2FTS	1.9 U	16	1.9	0.52	ng/L	05/11/23	1	Table B-15	BCE0073
6:2FTS	0.97 U	16	0.97	0.44	ng/L	05/11/23	1	Table B-15	BCE0073
8:2FTS	2.9 U	16	2.9	0.98	ng/L	05/11/23	1	Table B-15	BCE0073
PFOSA	1.2 J	16	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSA	9.7 U	16	9.7	4.8	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSA	9.7 U	16	9.7	4.8	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSAA	1.4 J	3.9	0.97	0.35	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSAA	0.88 J IR1,	3.9	0.97	0.24	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSE	5.8 U	16	5.8	2.9	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSE	5.8 U	16	5.8	2.9	ng/L	05/11/23	1	Table B-15	BCE0073
HFPO-DA	4.9 U	7.8	4.9	2.4	ng/L	05/11/23	1	Table B-15	BCE0073
ADONA	2.9 U	7.8	2.9	1.3	ng/L	05/11/23	1	Table B-15	BCE0073
9Cl-PF3ONS	2.9 U	7.8	2.9	1.1	ng/L	05/11/23	1	Table B-15	BCE0073
11Cl-PF3OUDS	2.9 U	7.8	2.9	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFBA	87.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFPEA	78.1%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFHXA	83.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFHPA	90.8%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOA	86.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C9-PFNA	90.3%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C6-PFDA	97.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C7-PFUnA	96.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFDOA	91.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFTEDA	70.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFBS	86.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFHXS	94.1%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Sample Results (Continued)

Sample: NRT (Continued)
23E0022-02 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	99.5%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-4:2FTS	147%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	159% S2		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	134%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C2-8:2FTS	118%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOA	69.2%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOA	52.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOA	51.5%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOA	94.9%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOA	93.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOE	44.9% S1		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOE	49.8% S1		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: D9-NETFOE	49.7% S1		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D9-NETFOE	54.0%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C3-HFPO-DA	94.6%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
Central Point, OR 97502

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Reported: 05/26/2023 14:22

Sample Results (Continued)

**Sample: COLVER RD
23E0022-03 (Water)**

Per- and Polyfluoroalkyl Substances

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
PFBA	7.8 J MI2,	16	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeA	1.5 J	8.1	1.0	0.31	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxA	2.7 J	4.0	1.0	0.32	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpA	1.1 J	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFOA	3.7 J	4.0	1.0	0.41	ng/L	05/11/23	1	Table B-15	BCE0073
PFNA	1.4 J	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFDA	2.3 J IR2,	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFUnA	1.0 U	4.0	1.0	0.40	ng/L	05/11/23	1	Table B-15	BCE0073
PFDoA	1.5 J	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFTrDA	1.0 U	4.0	1.0	0.29	ng/L	05/11/23	1	Table B-15	BCE0073
PFTeDA	1.0 J	4.0	1.0	0.43	ng/L	05/11/23	1	Table B-15	BCE0073
PFBS	1.0 U	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFPeS	1.0 U	4.0	1.0	0.29	ng/L	05/11/23	1	Table B-15	BCE0073
PFHxS	1.0 U	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFHpS	1.0 U	4.0	1.0	0.28	ng/L	05/11/23	1	Table B-15	BCE0073
PFOS	1.6 J	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
PFNS	2.0 U	4.0	2.0	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
PFDS	1.0 U	4.0	1.0	0.32	ng/L	05/11/23	1	Table B-15	BCE0073
4:2FTS	2.0 U	16	2.0	0.54	ng/L	05/11/23	1	Table B-15	BCE0073
6:2FTS	1.0 U	16	1.0	0.45	ng/L	05/11/23	1	Table B-15	BCE0073
8:2FTS	3.0 U	16	3.0	1.0	ng/L	05/11/23	1	Table B-15	BCE0073
PFOSA	0.52 J	16	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSA	10 U	16	10	5.0	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSA	10 U	16	10	5.0	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSAA	1.0 U	4.0	1.0	0.36	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSAA	1.0 U	4.0	1.0	0.25	ng/L	05/11/23	1	Table B-15	BCE0073
NMeFOSE	6.0 U	16	6.0	3.0	ng/L	05/11/23	1	Table B-15	BCE0073
NEtFOSE	6.0 U	16	6.0	3.0	ng/L	05/11/23	1	Table B-15	BCE0073
HFPO-DA	5.0 U	8.1	5.0	2.5	ng/L	05/11/23	1	Table B-15	BCE0073
ADONA	3.0 U	8.1	3.0	1.3	ng/L	05/11/23	1	Table B-15	BCE0073
9Cl-PF3ONS	3.0 U	8.1	3.0	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
11Cl-PF3OUDS	3.0 U	8.1	3.0	1.2	ng/L	05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFBA	88.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFPEA	68.6%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C5-PFHXA	74.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C4-PFHPA	79.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOA	91.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C9-PFNA	89.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C6-PFDA	100%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C7-PFUnA	92.9%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFDOA	91.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-PFTEDA	81.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFBS	89.8%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-PFHXS	91.8%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
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Reported: 05/26/2023 14:22

Sample Results (Continued)

Sample: COLVER RD (Continued)
23E0022-03 (Water)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result /Qual	LOQ	LOD	DL	Units	Date Analyzed	DF	Method	Prep Batch
Surrogate: 13C8-PFOS	100%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-4:2FTS	155% S2		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-4:2FTS	119%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	161% S2		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C2-6:2FTS	113%		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: 13C2-8:2FTS	109%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C8-PFOSA	65.5%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOSA	51.4%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOSA	52.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D3-NMEFOSAA	88.8%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D5-NETFOSAA	83.0%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOSE	45.1% S1		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: D7-NMEFOSE	45.0% S1		50-150			05/11/23	10	Table B-15	BCE0073
Surrogate: D9-NETFOSE	51.7%		50-150			05/11/23	1	Table B-15	BCE0073
Surrogate: 13C3-HFPO-DA	87.0%		50-150			05/11/23	1	Table B-15	BCE0073

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

PREPARATION BATCH SUMMARY

Table B-15

Laboratory: APPL, LLC

Client: RVCOG

Batch: BCE0073 Batch Matrix: Water Preparation: Table B-15

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT mL	FINAL VOL. mL
WVV	23E0022-01	05/04/23 09:51	48.07	2.00
WVV	23E0022-01RE1	05/04/23 09:51	48.07	2.00
NRT	23E0022-02	05/04/23 09:51	51.50	2.00
NRT	23E0022-02RE1	05/04/23 09:51	51.50	2.00
COLVER RD	23E0022-03	05/04/23 09:51	49.67	2.00
COLVER RD	23E0022-03RE1	05/04/23 09:51	49.67	2.00
Blank	BCE0073-BLK1	05/04/23 09:51	50.00	2.00
LCS	BCE0073-BS1	05/04/23 09:51	50.00	2.00
LCS Dup	BCE0073-BSD1	05/04/23 09:51	50.00	2.00
MRL Check	BCE0073-MRL1	05/04/23 09:51	50.00	2.00

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
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Reported: 05/26/2023 14:22

Quality Control

Per- and Polyfluoroalkyl Substances

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Method: Table B-15

Batch: BCE0073 - Table B-15

	ng/L									
Blank (BCE0073-BLK1)										Prepared: 05/04/23 09:51 Analyzed: 05/10/23 23:38
PFBA	1.0 U	16	1.0	0.25						
PFPeA	1.0 U	8.0	1.0	0.31						
PFHxA	1.0 U	4.0	1.0	0.32						
PfHpA	1.0 U	4.0	1.0	0.25						
PFOA	1.0 U	4.0	1.0	0.41						
PFNA	1.0 U	4.0	1.0	0.25						
PFDA	1.0 U	4.0	1.0	0.25						
PFUnA	1.0 U	4.0	1.0	0.40						
PFDaA	1.0 U	4.0	1.0	0.25						
PFTTrDA	1.0 U	4.0	1.0	0.29						
PFTeDA	1.0 U	4.0	1.0	0.43						
PFBS	1.0 U	4.0	1.0	0.25						
PFPeS	1.0 U	4.0	1.0	0.29						
PFHxS	1.0 U	4.0	1.0	0.25						
PfHpS	1.0 U	4.0	1.0	0.28						
PFOS	1.0 U	4.0	1.0	0.25						
PFNS	2.0 U	4.0	2.0	1.2						
PFDS	1.0 U	4.0	1.0	0.32						
4:2FTS	2.0 U	16	2.0	0.54						
6:2FTS	1.0 U	16	1.0	0.45						
8:2FTS	3.0 U	16	3.0	1.0						
PFOSA	1.0 U	16	1.0	0.25						
NMeFOSA	10 U	16	10	4.9						
NEtFOSA	10 U	16	10	4.9						
NMeFOSAA	1.0 U	4.0	1.0	0.36						
NEtFOSAA	1.0 U	4.0	1.0	0.25						
NMeFOSE	6.0 U	16	6.0	3.0						
NEtFOSE	6.0 U	16	6.0	3.0						
HFPO-DA	5.0 U	8.0	5.0	2.4						
ADONA	3.0 U	8.0	3.0	1.3						
9Cl-PF3ONS	3.0 U	8.0	3.0	1.2						
11Cl-PF3OUDS	3.0 U	8.0	3.0	1.2						

Surrogates

13C4-PFBA	344	320	107	50-150
13C5-PFPEA	171	160	107	50-150
13C5-PFHXA	89.9	80.0	112	50-150
13C4-PFHFA	92.0	80.0	115	50-150
13C8-PFOA	85.3	80.0	107	50-150
13C9-PFNA	45.8	40.0	115	50-150
13C6-PFDA	45.3	40.0	113	50-150
13C7-PFUnA	41.2	40.0	103	50-150
13C2-PFDOA	40.4	40.0	101	50-150
13C2-PFTEDA	38.6	40.0	96.5	50-150
13C3-PFBS	94.1	80.0	118	50-150
13C3-PFHXS	86.3	80.0	108	50-150

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
Blank (BCE0073-BLK1)					Prepared: 05/04/23 09:51 Analyzed: 05/10/23 23:38					
Surrogates										
13C8-PFOS	86.3				80.0		108	50-150		
13C2-4:2FTS	218				160		136	50-150		
13C2-6:2FTS	186				160		116	50-150		
13C2-8:2FTS	159				160		99.6	50-150		
13C8-PFOA	64.1				80.0		80.1	50-150		
D3-NMEFOSA	33.5 S1				80.0		41.8	50-150		
D5-NETFOSA	32.8 S1				80.0		41.0	50-150		
D3-NMEFOSAA	162				160		101	50-150		
D5-NETFOSAA	163				160		102	50-150		
D7-NMEFOSE	435				800		54.4	50-150		
D9-NETFOSE	546				800		68.2	50-150		
13C3-HFPO-DA	409				320		128	50-150		

ng/L										
LCS (BCE0073-BS1)					Prepared: 05/04/23 09:51 Analyzed: 05/10/23 23:50					
PFBA	162				160		101	73-129		
PFPeA	89.9				80.0		112	72-129		
PFHxA	40.3				40.0		101	72-129		
PFHpA	41.5				40.0		104	72-130		
PFOA	41.2				40.0		103	71-133		
PFNA	36.5				40.0		91.1	69-130		
PFDA	40.0				40.0		100	71-129		
PFUnA	36.2				40.0		90.4	69-133		
PFDoA	37.2				40.0		92.9	72-134		
PFTTrDA	39.7				40.0		99.2	65-144		
PFTeDA	40.6				40.0		102	71-132		
PFBS	35.0				35.4		98.9	72-130		
PFPeS	42.4				37.6		113	71-127		
PFHxS	38.0				36.6		104	68-131		
PFHpS	36.3				38.2		95.0	69-134		
PFOS	39.1				37.2		105	65-140		
PFNS	41.9				38.4		109	69-127		
PFDS	42.0				38.6		109	53-142		
4:2FTS	159				150		106	63-143		
6:2FTS	161				152		106	64-140		
8:2FTS	159				154		104	67-138		
PFOSA	40.0				40.0		99.9	67-137		
NMeFOSA	184				160		115	68-141		
NEtFOSA	162				160		101	70-130		
NMeFOSAA	44.0				40.0		110	65-136		
NEtFOSAA	38.8				40.0		96.9	61-135		
NMeFOSE	160				160		100	70-130		
NEtFOSE	158				160		98.6	70-130		
HFPO-DA	70.4				80.0		88.0	44-175		
ADONA	67.3				75.6		89.1	61-169		
9Cl-PF3ONS	66.2				74.8		88.5	62-140		
11Cl-PF3OUDS	65.0				75.6		85.9	54-138		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
LCS (BCE0073-BS1)										
Surrogates										
13C4-PFBA	323				320		101	50-150		
13C5-PFPEA	131				160		82.0	50-150		
13C5-PFHXA	73.4				80.0		91.7	50-150		
13C4-PFHFA	74.9				80.0		93.7	50-150		
13C8-PFOA	75.4				80.0		94.2	50-150		
13C9-PFNA	40.2				40.0		101	50-150		
13C6-PFDA	39.1				40.0		97.8	50-150		
13C7-PFUnA	39.3				40.0		98.2	50-150		
13C2-PFDOA	32.8				40.0		82.0	50-150		
13C2-PFTEDA	30.7				40.0		76.6	50-150		
13C3-PFBS	91.3				80.0		114	50-150		
13C3-PFHXS	76.8				80.0		96.0	50-150		
13C8-PFOS	73.9				80.0		92.4	50-150		
13C2-4:2FTS	223				160		140	50-150		
13C2-6:2FTS	163				160		102	50-150		
13C2-8:2FTS	157				160		98.1	50-150		
13C8-PFOA	71.3				80.0		89.2	50-150		
D3-NMEFOSA	34.2 S1				80.0		42.7	50-150		
D5-NETFOA	31.7 S1				80.0		39.6	50-150		
D3-NMEFOSAA	140				160		87.5	50-150		
D5-NETFOSAA	139				160		86.8	50-150		
D7-NMEFOSE	477				800		59.6	50-150		
D9-NETFOSE	559				800		69.9	50-150		
13C3-HFPO-DA	336				320		105	50-150		

Prepared: 05/04/23 09:51 Analyzed: 05/10/23 23:50

ng/L										
LCS Dup (BCE0073-BSD1)										
PFBA	159				160		99.2	73-129	2.12	30
PFPeA	92.8				80.0		116	72-129	3.21	30
PFHxA	39.3				40.0		98.3	72-129	2.32	30
PFHpA	36.7				40.0		91.8	72-130	12.2	30
PFOA	40.3				40.0		101	71-133	2.25	30
PFNA	40.9				40.0		102	69-130	11.6	30
PFDA	33.8				40.0		84.5	71-129	16.8	30
PFUnA	41.1				40.0		103	69-133	12.7	30
PFDoA	41.1				40.0		103	72-134	10.0	30
PFTTrDA	44.8				40.0		112	65-144	12.2	30
PFTeDA	40.2				40.0		100	71-132	1.14	30
PFBS	34.6				35.4		97.7	72-130	1.27	30
PFPeS	41.2				37.6		110	71-127	2.75	30
PFHxS	37.6				36.6		103	68-131	0.819	30
PFHpS	37.2				38.2		97.5	69-134	2.60	30
PFOS	38.1				37.2		102	65-140	2.72	30
PFNS	41.3				38.4		108	69-127	1.49	30
PFDS	39.8				38.6		103	53-142	5.17	30
4:2FTS	160				150		107	63-143	0.518	30
6:2FTS	149				152		98.3	64-140	7.45	30
8:2FTS	161				154		105	67-138	1.13	30

Prepared: 05/04/23 09:51 Analyzed: 05/11/23 00:03

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
LCS Dup (BCE0073-BSD1)						Prepared: 05/04/23 09:51	Analyzed: 05/11/23 00:03			
PFOSA	39.5				40.0		98.8	67-137	1.12	30
NMeFOSA	169				160		106	68-141	8.82	30
NEtFOSA	147				160		91.8	70-130	9.85	30
NMeFOSAA	38.5				40.0		96.3	65-136	13.3	30
NEtFOSAA	36.5				40.0		91.2	61-135	6.13	30
NMeFOSE	153				160		95.5	70-130	4.88	30
NEtFOSE	152				160		95.0	70-130	3.66	30
HFPO-DA	73.5				80.0		91.9	44-175	4.30	30
ADONA	67.3				75.6		89.0	61-169	0.0820	30
9Cl-PF3ONS	62.8				74.8		83.9	62-140	5.30	30
11Cl-PF3OUDS	67.4				75.6		89.1	54-138	3.65	30
Surrogates										
13C4-PFBA	316				320		98.7	50-150		
13C5-PFPEA	158				160		98.6	50-150		
13C5-PFHXA	87.2				80.0		109	50-150		
13C4-PFHFA	87.9				80.0		110	50-150		
13C8-PFOA	75.6				80.0		94.5	50-150		
13C9-PFNA	35.3				40.0		88.1	50-150		
13C6-PFDA	41.6				40.0		104	50-150		
13C7-PFUnA	36.6				40.0		91.6	50-150		
13C2-PFDOA	32.5				40.0		81.2	50-150		
13C2-PFTEDA	32.5				40.0		81.3	50-150		
13C3-PFBS	87.5				80.0		109	50-150		
13C3-PFHXS	75.5				80.0		94.4	50-150		
13C8-PFOS	75.3				80.0		94.1	50-150		
13C2-4:2FTS	193				160		121	50-150		
13C2-6:2FTS	164				160		103	50-150		
13C2-8:2FTS	146				160		91.2	50-150		
13C8-PFOSA	56.6				80.0		70.8	50-150		
D3-NMEFOSA	31.4 S1				80.0		39.3	50-150		
D5-NETFOSA	32.2 S1				80.0		40.2	50-150		
D3-NMEFOSAA	146				160		91.4	50-150		
D5-NETFOSAA	145				160		90.9	50-150		
D7-NMEFOSE	432				800		54.0	50-150		
D9-NETFOSE	503				800		62.9	50-150		
13C3-HFPO-DA	399				320		125	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
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Reported: 05/26/2023 14:22

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
MRL Check (BCE0073-MRL1)					Prepared: 05/04/23 09:51 Analyzed: 05/11/23 00:16					
PFBA	29.7				32.0		92.7	73-129		
PFPeA	16.8				16.0		105	72-129		
PFHxA	7.00				8.00		87.5	72-129		
PFHpA	7.17				8.00		89.6	72-130		
PFOA	7.38				8.00		92.2	71-133		
PFNA	7.74				8.00		96.7	69-130		
PFDA	7.07				8.00		88.4	71-129		
PFUnA	7.68				8.00		96.0	69-133		
PFDoA	7.54				8.00		94.3	72-134		
PFTTrDA	7.37				8.00		92.2	65-144		
PFTeDA	8.39				8.00		105	71-132		
PFBS	6.41				7.08		90.5	72-130		
PFPeS	7.88				7.52		105	71-127		
PFHxS	7.18				7.32		98.1	68-131		
PFHpS	6.89				7.64		90.2	69-134		
PFOS	7.85				7.44		106	65-140		
PFNS	7.14				7.68		92.9	69-127		
PFDS	7.53				7.72		97.5	53-142		
4:2FTS	30.4				30.0		101	63-143		
6:2FTS	28.8				30.4		94.6	64-140		
8:2FTS	31.4				30.7		102	67-138		
PFOSA	7.40 J				8.00		92.5	67-137		
NMeFOSA	34.0				32.0		106	68-141		
NEtFOSA	28.4				32.0		88.8	70-130		
NMeFOSAA	7.54				8.00		94.3	65-136		
NEtFOSAA	7.71				8.00		96.4	61-135		
NMeFOSE	26.5				32.0		82.7	70-130		
NEtFOSE	26.3				32.0		82.3	70-130		
HFPO-DA	10.6				16.0		66.5	44-175		
ADONA	11.6				15.1		76.8	61-169		
9Cl-PF3ONS	11.3				15.0		75.6	62-140		
11Cl-PF3OUDS	10.6				15.1		70.2	54-138		

Surrogates										
13C4-PFBA	318				320		99.4	50-150		
13C5-PFPEA	144				160		89.9	50-150		
13C5-PFHXA	76.8				80.0		96.0	50-150		
13C4-PFHFA	79.8				80.0		99.8	50-150		
13C8-PFOA	82.5				80.0		103	50-150		
13C9-PFNA	39.6				40.0		98.9	50-150		
13C6-PFDA	38.7				40.0		96.6	50-150		
13C7-PFUnA	37.7				40.0		94.2	50-150		
13C2-PFDOA	32.4				40.0		81.0	50-150		
13C2-PFTEDA	28.9				40.0		72.2	50-150		
13C3-PFBS	86.9				80.0		109	50-150		
13C3-PFHXS	76.7				80.0		95.8	50-150		
13C8-PFOS	75.9				80.0		94.9	50-150		
13C2-4:2FTS	196				160		123	50-150		
13C2-6:2FTS	173				160		108	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

Analyte	Result/ Qual	LOQ	LOD	MDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
ng/L										
MRL Check (BCE0073-MRL1)						Prepared: 05/04/23 09:51 Analyzed: 05/11/23 00:16				
Surrogates										
13C2-8:2FTS	145				160		90.6	50-150		
13C8-PFOA	56.0				80.0		70.0	50-150		
D3-NMEFOA	25.9 S1				80.0		32.3	50-150		
D5-NETFOA	24.4 S1				80.0		30.5	50-150		
D3-NMEFOSAA	146				160		91.2	50-150		
D5-NETFOSAA	144				160		90.1	50-150		
D7-NMEFOSE	337 S1				800		42.2	50-150		
D9-NETFOSE	411				800		51.3	50-150		
13C3-HFPO-DA	388				320		121	50-150		

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

Notes and Definitions

Item	Definition
IR1	Ion ratio below the lower control limit
IR2	Ion ratio above the upper control limit
J	Estimated value
MI2	Manual integration, non-target peak interference
S1	Surrogate recovered below the lower control limit
S2	Surrogate recovered above the upper control limit
U	Not detected
Dry	Sample results reported on a dry weight basis.
DF	Dilution Factor
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
LOQ, Limit of Quantitation = Method Reporting Limit (MRL).	

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Almeda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22



WORK ORDER

23E0022

Printed: 05/26/2023 2:22 pm

Project: Almeda Fire
Project Number:
Project Manager: Chue Moua
PO Number:

Report To:

RVCOG
Greg Stabach
155 N Front St.
Central Point, OR 97502
Phone: (541) 664-6674

Invoice To:

APEX Laboratories, LLC
Michele Poquiz
6700 SW Sandburg St.
Tigard, OR 97223
Phone: (503) 718-2323

Date Received: 05/03/2023 10:00 AM
Date Due: 05/17/2023 (10.00 day TAT)

Logged In By: Megan Salata
Received By: Megan Salata

Analysis	Comments
23E0022-01 WVV [Water] Sampled 5/2/2023 10:02:00AM	
Sample Comments: ARF #98958	
B-15 DOD	NONE
23E0022-02 NRT [Water] Sampled 5/2/2023 9:06:00AM	
Sample Comments: ARF #98958	
B-15 DOD	NONE
23E0022-03 COLVER RD [Water] Sampled 5/2/2023 9:36:00AM	
Sample Comments: ARF #98958	
B-15 DOD	NONE

RVCOG
155 N Front St.
Central Point, OR 97502

Project: Alameda Fire
Project Number:
Project Manager: Greg Stabach

Reported: 05/26/2023 14:22

23E0022

Sample Receipt Log

Default Cooler

Samples Received at: **3.0°C**

Custody Seals	No	Were all containers sealed in separate bags?	No
Containers Intact	Yes	Did all containers arrive in good condition?	Yes
COC/Labels Agree	Yes	Correct containers/preserv. for tests indicated?	Yes
Preservation Confirmed	No	Sufficient volume sent for tests requested?	Yes
Received On Ice	Yes	Were bubbles absent in volatile samples?	No
Was a chain of custody received?	Yes	Sufficient remaining holding time for analyses?	Yes
COCs complete/signed in the appropriate places?	Yes	pH of non-VOA preserved containers documented?	No
Sample labels complete? Sample ID, date/time, etc.	Yes	Unpreserved vials received for VOA analysis?	No
Did all container labels agree with COCs?	Yes	If "yes", are unpreserved VOA vials noted on Work	No

23E0022
98958

Report to:		PLEASE PRINT		Invoice to:		PLEASE PRINT	
Company Name:	<u>RVCOG</u>	Phone:	<u>591-664-6674</u>	Company Name:	<u>Same</u>	Phone:	<u></u>
Address:	<u>155 N First ST</u>			Address:	<u></u>		
	<u>Central Point OR 97502</u>	Fax:	<u></u>			Fax:	<u></u>
Attn:	<u>Greg Stabach</u>			Attn:	<u></u>		
Email:	<u>gstabach@rvco.org</u>			Email:	<u></u>		

[illegible]

White: Return to client with report

Yellow: Laboratory Copy

See reverse side for Container Preservative and Sampling Information

No Custody Seal

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98958

Sample ID: WVV

Sample Collection Date: 5/2/2023

APPL ID: BA49761

QCG: #829ADOD5-274660-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	160	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	4.8 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	8.3 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	7.6 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDD	1000	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDF	130 J	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	TEQ	4.0	NA	pg/L	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	88.5	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	89.6	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	96.7	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	86.9	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	80.0	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	84.6	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	81.5	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	84.7	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	86.4	40-135	%	5/6/2023	5/12/2023

J = Estimated value.

Quant Method: 230508_8290
Run #: 230508_HR_80
Instrument: Magneto
Sequence: 230508
Dilution Factor: 1
Initials: LA

Printed: 5/22/2023 12:41:59 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98958

Sample ID: NRT

Sample Collection Date: 5/2/2023

APPL ID: BA49762

QCG: #829ADOD5-274660-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	120 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	4.9 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	11 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDD	770	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDF	71 J	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	TEQ	3.0	NA	pg/L	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	137 #	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	135	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	150 #	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	139 #	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	71.6	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	76.4	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	71.5	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	72.6	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	129	40-135	%	5/6/2023	5/12/2023

J = Estimated value.

= Recovery (or RPD) is outside QC limits.

Quant Method: 230508_8290
Run #: 230508_HR_81
Instrument: Magneto
Sequence: 230508
Dilution Factor: 1
Initials: LA

Printed: 5/22/2023 12:41:59 PM
Form 1 - APPL Standard GC - No MC

EPA 8290A - DIOXINS & FURANS

RVCOG
155 N First St
Central Point, OR 97502

Attn: Greg Stabach

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98958

Sample ID: COLVER RD

Sample Collection Date: 5/2/2023

APPL ID: BA49763

QCG: #829ADOD5-274660-2746

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8290A	1,2,3,4,6,7,8-HPCDD	310	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDD	15 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,6,7,8-HXCDF	22 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDD	8.4 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,4,7,8-PECDF	2.4 J	125.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDD	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	2,3,7,8-TCDF	Not detected	50.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDD	1800	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	OCDF	490	250.0	pg/L	5/6/2023	5/12/2023
EPA 8290A	TEQ	9.0	NA	pg/L	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	84.0	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	79.6	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	87.8	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	85.8	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	75.4	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	80.5	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDD (S)	74.9	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-2,3,7,8-TCDF (S)	75.3	40-135	%	5/6/2023	5/12/2023
EPA 8290A	SURROGATE: 13C-OCDD (S)	81.0	40-135	%	5/6/2023	5/12/2023

J = Estimated value.

Quant Method: 230508_8290
Run #: 230508_HR_82
Instrument: Magneto
Sequence: 230508
Dilution Factor: 1
Initials: LA

Printed: 5/22/2023 12:41:59 PM
Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290A - DIOXINS & FURANS

Blank Name/QCG: **230506W-49761 - 274660**
 Batch ID: #829ADOD5-274660

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,4,6,7,8-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,4,7,8,9-HPCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,4,7,8-HXCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,4,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,6,7,8-HXCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,7,8,9-HXCDD	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,7,8,9-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,7,8-PECDD	2.9 J	125.0	pg/L	5/6/2023	5/12/2023
BLANK	1,2,3,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	2,3,4,6,7,8-HXCDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	2,3,4,7,8-PECDF	Not detected	125.0	pg/L	5/6/2023	5/12/2023
BLANK	2,3,7,8-TCDD	Not detected	50.0	pg/L	5/6/2023	5/12/2023
BLANK	2,3,7,8-TCDF	Not detected	50.0	pg/L	5/6/2023	5/12/2023
BLANK	OCDD	Not detected	250.0	pg/L	5/6/2023	5/12/2023
BLANK	OCDF	Not detected	250.0	pg/L	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	90.0	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	84.5	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	98.7	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	102	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	75.5	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	74.5	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	81.7	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	76.3	40-135	%	5/6/2023	5/12/2023
BLANK	SURROGATE: 13C-OCDD (S)	81.9	40-135	%	5/6/2023	5/12/2023

J = Estimated value.

Quant Method: 230508_8290
 Run #: 230508_HR_79
 Instrument: Magneto
 Sequence: 230508
 Initials: LA

Printed: 5/22/2023 12:41:46 PM

Laboratory Control Spike Recovery

EPA 8290A - DIOXINS & FURANS

APPL ID: **230506W-49761 LCS - 274660**

Batch ID: #829ADOD5-274660

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level pg/L	SPK Result pg/L	SPK % Recovery	Recovery Limits
1,2,3,4,6,7,8-HPCDD	1250	1270	102	79-122
1,2,3,4,6,7,8-HPCDF	1250	1300	104	81-130
1,2,3,4,7,8,9-HPCDF	1250	1200	96.0	77-128
1,2,3,4,7,8-HXCDD	1250	1140	91.2	80-126
1,2,3,4,7,8-HXCDF	1250	1180	94.4	80-130
1,2,3,6,7,8-HXCDD	1250	1140	91.2	78-134
1,2,3,6,7,8-HXCDF	1250	1180	94.4	79-131
1,2,3,7,8,9-HXCDD	1250	1060	84.8	76-137
1,2,3,7,8,9-HXCDF	1250	1140	91.2	83-130
1,2,3,7,8-PECDD	1250	1290	103	76-121
1,2,3,7,8-PECDF	1250	1280	102	82-130
2,3,4,6,7,8-HXCDF	1250	1100	88.0	81-130
2,3,4,7,8-PECDF	1250	1200	96.0	77-129
2,3,7,8-TCDD	500	503	101	71-125
2,3,7,8-TCDF	500	515	103	72-138
OCDD	2500	2550	102	81-135
OCDF	2500	2360	94.4	66-150
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	5000	3940	78.8	40-135
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	5000	3640	72.8	40-135
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	5000	4180	83.6	40-135
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	5000	4390	87.8	40-135
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1310	65.5	40-135
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1310	65.5	40-135
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1400	70.0	40-135
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1310	65.5	40-135
SURROGATE: 13C-OCDD (S)	10000	7070	70.7	40-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	230508_8290
Extraction Date :	5/6/2023
Analysis Date :	5/12/2023
Instrument :	Magento
Run :	230508_HR_78
Initials :	LA

Printed: 5/22/2023 12:46:20 PM

APPL Standard LCS