



ANALYTICAL REPORT

**Apex Laboratories, LLC**  
6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Tuesday, August 9, 2022  
Casey Michaels  
4C's Environmental Inc.  
1590 SE Uglow Ave  
Dallas, OR 97338

RE: A2G0699 - Bandon Chevron-2035

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 A2G0699, which was received by the laboratory on 7/25/2022 at 5:45:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [DAuvil@apex-labs.com](mailto:DAuvil@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.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	2.2 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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.

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Darrell Auvil, Client Services Manager



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<b>4C's Environmental Inc.</b> 1590 SE Uglow Ave Dallas, OR 97338	Project/#: <b><u>Bandon Chevron-2035</u></b>  Project Manager: Casey Michaels	<b>Report ID:</b> <b>A2G0699 - 08 09 22 1227</b>
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**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DW-1	A2G0699-01	Water	07/25/22 11:10	07/25/22 17:45

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**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
<b>DW-1 (A2G0699-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0816</b>		
Diesel	573	---	78.4	ug/L	1	07/27/22 03:33	NWTPH-Dx LL	<b>F-18</b>
Oil	ND	---	157	ug/L	1	07/27/22 03:33	NWTPH-Dx LL	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/27/22 03:33</i>	<i>NWTPH-Dx LL</i>

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**ANALYTICAL SAMPLE RESULTS**

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>DW-1 (A2G0699-01RE1)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0880</b>		
<b>Gasoline Range Organics</b>	<b>21500</b>	---	1000	ug/L	10	07/27/22 12:09	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/27/22 12:09</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/27/22 12:09</i>	<i>NWTPH-Gx (MS)</i>	

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**ANALYTICAL SAMPLE RESULTS**

**Selected Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>DW-1 (A2G0699-01RE1)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0880</b>		
<b>Benzene</b>	<b>10.3</b>	---	2.00	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>Toluene</b>	<b>529</b>	---	10.0	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>Ethylbenzene</b>	<b>212</b>	---	5.00	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>Xylenes, total</b>	<b>2130</b>	---	15.0	ug/L	10	07/27/22 12:09	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>Naphthalene</b>	<b>81.9</b>	---	20.0	ug/L	10	07/27/22 12:09	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	07/27/22 12:09	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	5.00	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>Isopropylbenzene</b>	<b>20.3</b>	---	10.0	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>945</b>	---	10.0	ug/L	10	07/27/22 12:09	EPA 8260D	
<b>1,3,5-Trimethylbenzene</b>	<b>286</b>	---	10.0	ug/L	10	07/27/22 12:09	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/27/22 12:09</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/27/22 12:09</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/27/22 12:09</i>	<i>EPA 8260D</i>	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0816 - EPA 3510C (Fuels/Acid Ext.)</b>						<b>Water</b>						
<b>Blank (22G0816-BLK1)</b>		Prepared: 07/26/22 07:07 Analyzed: 07/26/22 23:10										
<u>NWTPH-Dx LL</u>												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	---
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 83 % Limits: 50-150 % Dilution: 1x</i>										
<b>LCS (22G0816-BS1)</b>		Prepared: 07/26/22 07:07 Analyzed: 07/26/22 23:34										
<u>NWTPH-Dx LL</u>												
Diesel	325	---	80.0	ug/L	1	500	---	65	36 - 132%	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 81 % Limits: 50-150 % Dilution: 1x</i>										
<b>LCS Dup (22G0816-BSD1)</b>		Prepared: 07/26/22 07:07 Analyzed: 07/26/22 23:59										
<u>NWTPH-Dx LL</u>												
Diesel	347	---	80.0	ug/L	1	500	---	69	36 - 132%	7	30%	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 87 % Limits: 50-150 % Dilution: 1x</i>										

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0840 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0840-BLK1)</b>		Prepared: 07/26/22 10:15 Analyzed: 07/26/22 13:26										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		<i>"</i>						
<b>LCS (22G0840-BS2)</b>						Prepared: 07/26/22 10:15 Analyzed: 07/26/22 13:03						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	491	---	100	ug/L	1	500	---	98	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>"</i>						

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0880 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0880-BLK1)</b>		Prepared: 07/27/22 07:00 Analyzed: 07/27/22 09:52										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		"						
<b>LCS (22G0880-BS2)</b>						Prepared: 07/27/22 07:00 Analyzed: 07/27/22 09:29						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	477	---	100	ug/L	1	500	---	95	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</i>		"						

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1590 SE Uglow Ave		A2G0699 - 08 09 22 1227
Dallas, OR 97338	Project Manager: Casey Michaels	

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Selected Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0840 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0840-BLK1)</b>		Prepared: 07/26/22 10:15		Analyzed: 07/26/22 13:26								
<b>EPA 8260D</b>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

<b>LCS (22G0840-BS1)</b>						Prepared: 07/26/22 10:15 Analyzed: 07/26/22 12:40						
<b>EPA 8260D</b>												
Benzene	17.6	---	0.200	ug/L	1	20.0	---	88	80 - 120%	---	---	---
Toluene	16.0	---	1.00	ug/L	1	20.0	---	80	80 - 120%	---	---	---
Ethylbenzene	16.6	---	0.500	ug/L	1	20.0	---	83	80 - 120%	---	---	---
Xylenes, total	50.8	---	1.50	ug/L	1	60.0	---	85	80 - 120%	---	---	---
Methyl tert-butyl ether (MTBE)	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	---
Naphthalene	18.3	---	2.00	ug/L	1	20.0	---	91	80 - 120%	---	---	---
1,2-Dibromoethane (EDB)	18.2	---	0.500	ug/L	1	20.0	---	91	80 - 120%	---	---	---
1,2-Dichloroethane (EDC)	19.1	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	---
Isopropylbenzene	17.0	---	1.00	ug/L	1	20.0	---	85	80 - 120%	---	---	---
1,2,4-Trimethylbenzene	17.2	---	1.00	ug/L	1	20.0	---	86	80 - 120%	---	---	---
1,3,5-Trimethylbenzene	17.0	---	1.00	ug/L	1	20.0	---	85	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Selected Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD RPD	Notes	
<b>Batch 22G0880 - EPA 5030B</b>						<b>Water</b>					
<b>Blank (22G0880-BLK1)</b>		Prepared: 07/27/22 07:00			Analyzed: 07/27/22 09:52						
<b>EPA 8260D</b>											
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>					

<b>LCS (22G0880-BS1)</b>						Prepared: 07/27/22 07:00 Analyzed: 07/27/22 08:48					
<b>EPA 8260D</b>											
Benzene	19.4	---	0.200	ug/L	1	20.0	---	97	80 - 120%	---	
Toluene	18.6	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	
Ethylbenzene	19.3	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	
Xylenes, total	58.2	---	1.50	ug/L	1	60.0	---	97	80 - 120%	---	
Methyl tert-butyl ether (MTBE)	20.7	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	
Naphthalene	19.6	---	2.00	ug/L	1	20.0	---	98	80 - 120%	---	
1,2-Dibromoethane (EDB)	20.2	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	
1,2-Dichloroethane (EDC)	21.3	---	0.500	ug/L	1	20.0	---	106	80 - 120%	---	
Isopropylbenzene	19.5	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	
1,2,4-Trimethylbenzene	19.9	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	
1,3,5-Trimethylbenzene	19.7	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>					

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ORELAP ID: OR100062

<b>4C's Environmental Inc.</b> 1590 SE Uglow Ave Dallas, OR 97338	Project#: <b><u>Bandon Chevron-2035</u></b>  Project Manager: Casey Michaels	Report ID: <b>A2G0699 - 08 09 22 1227</b>
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**SAMPLE PREPARATION INFORMATION**

**Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Prep: EPA 3510C (Fuels/Acid Ext.)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0816</u>							
A2G0699-01	Water	NWTPH-Dx LL	07/25/22 11:10	07/26/22 07:07	1020mL/2mL	1000mL/2mL	0.98

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0880</u>							
A2G0699-01RE1	Water	NWTPH-Gx (MS)	07/25/22 11:10	07/27/22 09:46	5mL/5mL	5mL/5mL	1.00

**Selected Volatile Organic Compounds by EPA 8260D**

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22G0880</u>							
A2G0699-01RE1	Water	EPA 8260D	07/25/22 11:10	07/27/22 09:46	5mL/5mL	5mL/5mL	1.00

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Darrell Auvil, Client Services Manager



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**QUALIFIER DEFINITIONS**

**Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

**Apex Laboratories**

**F-18** Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.

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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'.

**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) are not 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 1/2 the Reporting Limit (RL).  
-For Blank hits falling between 1/2 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.

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**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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**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
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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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**APEX LABS COOLER RECEIPT FORM**

Client: 4c's Environmental Element WO#: A2G0699

Project/Project #: Bandon Chevron / 2035

**Delivery Info:**  
 Date/time received: 7-25-22 @ 1745 By: DSS  
 Delivered by: Apex  Client  ESS  FedEx  UPS  Swift  Senvoy  SDS  Other

**Cooler Inspection** Date/time inspected: 7-25-22 @ 1746 By: DSS

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)	<u>2.2</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition:	<u>Good</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: 7-25-22 @ 1831 By: DSS

All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: \_\_\_\_\_

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:**  
 \_\_\_\_\_  
 \_\_\_\_\_

Labeled by: DSS      Witness: [Signature]      Cooler Inspected by: DSS

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