



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

May 15, 2024

1301 Academy St.  
Fort Collins, CO 80525  
800-288-2657  
lglazier@cgrs.com

**Project Manager :** Lauren Glazier

**Project Name :** Kallsen

**Project Number :** 28141

Attached are the analytical results for Kallsen 28141 received by Elevation Diagnostics, Division of Environmental Testing on May 07, 2024. This is associated with Elevation's number AA07763 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel  
Laboratory Director  
CSO,CCO

# Chain of Custody Form

# Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80045  
800.440.5184

Client: CGRS  
Address: 1301 Academy Ct  
City/State/ZIP: Fort Collins, CO 80525  
Phone: 315-657-4720  
Project Contact: Lauren Glazier

Project Name: Kalisen (#28141)  
Project Location: \_\_\_\_\_  
Collector Name: Mitchell Bond

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Notes
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Other	ECMC TABLE 915-1						
1	TANK 01 @ 5'	05/07/24	0850	3			✓			✓		✓						
2	TANK 02 @ 1'		0852	3			✓			✓		✓						
3	West pipe @ 2'		0915	3			✓			✓		✓						
4	Background 01 @ 1.5'		0910	3			✓			✓		✓						
5	Background 02 @ 1.5'		0920	3			✓			✓		✓						
6																		
7																		
8																		
9																		
10																		

Relinquished By: Mitchell Bond  
Date/Time: 05/07/24

Relinquished By: \_\_\_\_\_  
Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date/Time: \_\_\_\_\_

Lab Use Only  
Observed Temperature Upon Receipt: 16.2°C  
Corrected Temperature Upon Receipt: 17.5°C  
Thermometer #: EDX.EQ.248  
Correction Factor: +1.3°C

Samples Intact:  Yes  No  
pH Checked:  Yes  No  
pH Adjusted:  Yes  No  
Name/Lot Number of Adjustment: NA 05.07.2024 EM

Scan to Deliver Samples

EFOR-008.002



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**Report Date :** 5/15/2024

**Report Time :** 17:31

**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
<b>AA07763-1</b>	Tank 01 @ 5'	<b>Collected :</b> 05/07/2024 08:50					
DRO & ORO, Soil - DRO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		05/10/2024	12:04	1.38957	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - 2-methylnaphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Acenaphthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benz(a)anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(a)pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Chrysene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluorene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Naphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		05/13/2024	12:04	0.00385	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		05/13/2024	12:04	<0.00242	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		05/13/2024	12:04	<0.00227	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		05/13/2024	12:04	<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		05/13/2024	12:04	<0.00654	mg/kg	0.00654	EPA 8260
<b>AA07763-2</b>	Tank 01 @ 5'	<b>Collected :</b> 05/07/2024 08:50					
Chromium VI, Soil		05/10/2024	16:30	0.1137	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		05/10/2024	09:27	0.570	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		05/08/2024	17:47	21.6	°C		
pH, Soils		05/08/2024	17:47	5.63	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		05/13/2024	16:57 10.00	2.041	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		05/13/2024	16:57 10.00	37.460	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		05/13/2024	16:57 10.00	0.148	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		05/13/2024	16:57 10.00	6.078	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		05/13/2024	16:57 10.00	6.913	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		05/13/2024	16:57 10.00	3.496	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		05/13/2024	16:57 10.00	1.895	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		05/13/2024	16:57 10.00	<0.250 - RL1	mg/kg	0.250	EPA 6020B
Total Metals, Soils - Zinc		05/13/2024	16:57 10.00	18.005	mg/kg	0.025	EPA 6020B
<b>AA07763-3</b>	Tank 01 @ 5'	<b>Collected :</b> 05/07/2024 08:50					
SAR - Calcium		05/14/2024	11:25 10.00	3.835	mEq/L	0.000	EPA 6020B
SAR - Magnesium		05/14/2024	11:25 10.00	1.140	mEq/L	0.000	EPA 6020B



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**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
SAR - Sodium		05/14/2024	11:25 10.00	4.218	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		05/14/2024	11:25 10.00	2.674		0.000	EPA 6020B
Soil Conductivity		05/10/2024	15:21	1.556	mmhos/cm		USDA 60
<b>AA07764-1</b>	Tank 02 @ 1'	<b>Collected :</b> 05/07/2024 08:52					
DRO & ORO, Soil - DRO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		05/10/2024	12:04	<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - 2-methylnaphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Acenaphthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benz(a)anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(a)pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Chrysene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluoranthene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluorene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Naphthalene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Pyrene		05/13/2024	18:40 100.00	Not Detected	mg/kg	0.010	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		05/13/2024	12:04	<0.00245	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		05/13/2024	12:04	Not Detected	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		05/13/2024	12:04	<0.00227	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		05/13/2024	12:04	<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		05/13/2024	12:04	<0.00654	mg/kg	0.00654	EPA 8260
<b>AA07764-2</b>	Tank 02 @ 1'	<b>Collected :</b> 05/07/2024 08:52					
Chromium VI, Soil		05/10/2024	16:30	0.1200	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		05/10/2024	09:27	0.103	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		05/08/2024	17:47	21.5	°C		
pH, Soils		05/08/2024	17:47	5.70	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		05/13/2024	16:57 10.00	1.863	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		05/13/2024	16:57 10.00	38.389	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		05/13/2024	16:57 10.00	0.063	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		05/13/2024	16:57 10.00	5.645	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		05/13/2024	16:57 10.00	14.960	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		05/13/2024	16:57 10.00	3.081	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		05/13/2024	16:57 10.00	1.331	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		05/13/2024	16:57 10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		05/13/2024	16:57 10.00	16.901	mg/kg	0.025	EPA 6020B



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**Report Date :** 5/15/2024

**Report Time :** 17:31

**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name	Analysis Start	Recovery					
<b>AA07764-3</b>	Tank 02 @ 1'	<b>Collected :</b> 05/07/2024 08:52					
SAR - Calcium		05/14/2024	11:25 10.00	0.941	mEq/L	0.000	EPA 6020B
SAR - Magnesium		05/14/2024	11:25 10.00	0.262	mEq/L	0.000	EPA 6020B
SAR - Sodium		05/14/2024	11:25 10.00	4.622	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		05/14/2024	11:25 10.00	5.961		0.000	EPA 6020B
Soil Conductivity		05/10/2024	15:21	0.796	mmhos/cm		USDA 60
<b>AA07765-1</b>	West Pipe @ 2'	<b>Collected :</b> 05/07/2024 09:15					
DRO & ORO, Soil - DRO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		05/10/2024	12:04	<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - 2-methylnaphthalene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Acenaphthene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Anthracene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benz(a)anthracene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(a)pyrene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Chrysene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluoranthene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluorene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Naphthalene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Pyrene		05/13/2024	18:40	Not Detected	mg/kg	0.010	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		05/13/2024	12:04	<0.00245	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		05/13/2024	12:04	Not Detected	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		05/13/2024	12:04	Not Detected	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		05/13/2024	12:04	Not Detected	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		05/13/2024	12:04	Not Detected	mg/kg	0.00654	EPA 8260
<b>AA07765-2</b>	West Pipe @ 2'	<b>Collected :</b> 05/07/2024 09:15					
Chromium VI, Soil		05/10/2024	16:30	<0.0800	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		05/10/2024	09:27	0.205	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		05/08/2024	17:47	21.4	°C		
pH, Soils		05/08/2024	17:47	5.65	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		05/13/2024	16:57 10.00	1.788	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		05/13/2024	16:57 10.00	40.380	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		05/13/2024	16:57 10.00	0.063	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		05/13/2024	16:57 10.00	5.871	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		05/13/2024	16:57 10.00	7.638	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		05/13/2024	16:57 10.00	3.052	mg/kg	0.025	EPA 6020B



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**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name	Analysis Start						Recovery
Total Metals, Soils - Selenium		05/13/2024 16:57	10.00	1.720	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		05/13/2024 16:57	10.00	<0.250 - RL1	mg/kg	0.250	EPA 6020B
Total Metals, Soils - Zinc		05/13/2024 16:57	10.00	18.808	mg/kg	0.025	EPA 6020B
<b>AA07765-3</b>	West Pipe @ 2'	<b>Collected :</b> 05/07/2024 09:15					
SAR - Calcium		05/14/2024 11:25	10.00	2.106	mEq/L	0.000	EPA 6020B
SAR - Magnesium		05/14/2024 11:25	10.00	0.814	mEq/L	0.000	EPA 6020B
SAR - Sodium		05/14/2024 11:25	10.00	1.219	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		05/14/2024 11:25	10.00	1.009		0.000	EPA 6020B
Soil Conductivity		05/10/2024 15:21		0.478	mmhos/cm		USDA 60
<b>AA07766-1</b>	Background 01 @ 1.5'	<b>Collected :</b> 05/07/2024 09:10					
DRO & ORO, Soil - DRO		05/09/2024 12:30		Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		05/09/2024 12:30		Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		05/10/2024 12:04		<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - 2-methylnaphthalene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Acenaphthene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Anthracene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benz(a)anthracene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(a)pyrene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Chrysene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluoranthene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluorene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Naphthalene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Pyrene		05/13/2024 18:40		Not Detected	mg/kg	0.010	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		05/13/2024 12:04		<0.00245	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		05/13/2024 12:04		<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		05/13/2024 12:04		Not Detected	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		05/13/2024 12:04		Not Detected	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		05/13/2024 12:04		Not Detected	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		05/13/2024 12:04		Not Detected	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		05/13/2024 12:04		<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		05/13/2024 12:04		Not Detected	mg/kg	0.00654	EPA 8260
<b>AA07766-2</b>	Background 01 @ 1.5'	<b>Collected :</b> 05/07/2024 09:10					
Chromium VI, Soil		05/10/2024 16:30		<0.0800	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		05/10/2024 09:27		0.167	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		05/09/2024 12:48		20.7	°C		
pH, Soils		05/09/2024 12:48		6.74	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		05/13/2024 16:57	10.00	1.863	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		05/13/2024 16:57	10.00	46.780	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		05/13/2024 16:57	10.00	0.066	mg/kg	0.001	EPA 6020B



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

**Report Date :** 5/15/2024

**Report Time :** 17:31

**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
Total Metals, Soils - Copper		05/13/2024	16:57 10.00	5.662	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		05/13/2024	16:57 10.00	6.980	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		05/13/2024	16:57 10.00	3.388	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		05/13/2024	16:57 10.00	1.400	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		05/13/2024	16:57 10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		05/13/2024	16:57 10.00	14.770	mg/kg	0.025	EPA 6020B
<b>AA07766-3</b>	Background 01 @ 1.5'	<b>Collected :</b>	05/07/2024 09:10				
SAR - Calcium		05/14/2024	11:25 10.00	2.669	mEq/L	0.000	EPA 6020B
SAR - Magnesium		05/14/2024	11:25 10.00	0.901	mEq/L	0.000	EPA 6020B
SAR - Sodium		05/14/2024	11:25 10.00	0.244	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		05/14/2024	11:25 10.00	0.182		0.000	EPA 6020B
Soil Conductivity		05/10/2024	15:21	0.294	mmhos/cm		USDA 60
<b>AA07767-1</b>	Background 02 @ 1.5'	<b>Collected :</b>	05/07/2024 09:20				
DRO & ORO, Soil - DRO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		05/09/2024	12:30	Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		05/10/2024	12:04	<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		05/14/2024	09:57	<0.010	mg/kg	0.010	EPA 8270
SVOC, Soils - 2-methylnaphthalene		05/14/2024	09:57	<0.010	mg/kg	0.010	EPA 8270
SVOC, Soils - Acenaphthene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Anthracene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benz(a)anthracene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(a)pyrene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Chrysene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluoranthene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Fluorene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Naphthalene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
SVOC, Soils - Pyrene		05/14/2024	09:57	Not Detected	mg/kg	0.010	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		05/13/2024	12:04	<0.00245	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		05/13/2024	12:04	<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		05/13/2024	12:04	Not Detected	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		05/13/2024	12:04	Not Detected	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		05/13/2024	12:04	Not Detected	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		05/13/2024	12:04	Not Detected	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		05/13/2024	12:04	Not Detected	mg/kg	0.00654	EPA 8260
<b>AA07767-2</b>	Background 02 @ 1.5'	<b>Collected :</b>	05/07/2024 09:20				
Chromium VI, Soil		05/10/2024	16:30	<0.0800	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		05/10/2024	09:27	0.132	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		05/09/2024	12:48	20.9	°C		
pH, Soils		05/09/2024	12:48	7.42	S.U.	0.01	EPA 9045D



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**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name	Analysis Start	Recovery					
Total Metals, Soils - Arsenic		05/13/2024 16:57	10.00	1.458	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		05/13/2024 16:57	10.00	29.094	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		05/13/2024 16:57	10.00	0.089	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		05/13/2024 16:57	10.00	5.490	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		05/13/2024 16:57	10.00	5.589	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		05/13/2024 16:57	10.00	2.374	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		05/13/2024 16:57	10.00	0.885	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		05/13/2024 16:57	10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		05/13/2024 16:57	10.00	12.079	mg/kg	0.025	EPA 6020B
<b>AA07767-3</b>	Background 02 @ 1.5'	<b>Collected :</b> 05/07/2024 09:20					
SAR - Calcium		05/14/2024 11:25	10.00	1.623	mEq/L	0.000	EPA 6020B
SAR - Magnesium		05/14/2024 11:25	10.00	0.576	mEq/L	0.000	EPA 6020B
SAR - Sodium		05/14/2024 11:25	10.00	0.182	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		05/14/2024 11:25	10.00	0.174		0.000	EPA 6020B
Soil Conductivity		05/10/2024 15:21		0.337	mmhos/cm		USDA 60



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**Project Name:** Kallsen

**Project Number:** 28141

**QC Report**

BORON-2948		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07763	0.577	0.050	mg/kg		0.570			1.2206	-15 - 15
MB AA07841	0.015		mg/kg						
LCS AA07842	1.050		mg/kg	1.000		105	80 - 120		
LCS AA07843	9.803		mg/kg	9.000		109	80 - 120		

CHROM_VI_SOIL-2935		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07763	0.1175	0.080	mg/kg		0.1137			3.2872	
MB AA07793	0.025		mg/kg						
LCS AA07795	0.0387		mg/kg	0.0400		96.8			
LCS AA07796	0.0390		mg/kg	0.0400		97.5			

ECISOIL_MMHOS-2958		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07763	1.415		mmhos/cm		1.556			9.4918	
LCS AA07870	9.710		mmhos/cm	10		97.1			
LCS AA07871	9.740		mmhos/cm	10		97.4			

GRO_SOIL-2946		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07766	1.65747	0.26827	mg/kg		<0.26827			0.16666	
Matrix Spike AA07766	1.65471		mg/kg	2.150	<0.26827	77.0			
MB AA07838	<0.26827		mg/kg						
LCS AA07839	2.15650		mg/kg	2.150		100			
LCS AA07840	2.03015		mg/kg	2.150		94.4			

PH_S-2941		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07740	7.74	0.01	S.U.		7.70			0.5181347150	-5 - 5
LCS AA07815	6.86	0.01	S.U.	6.86		100	95 - 105		
LCS AA07816	6.86	0.01	S.U.	6.86		100	95 - 105		

PH_S-2951		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07766	6.84	0.01	S.U.		6.74			1.4727540500	-5 - 5
LCS AA07848	6.87	0.01	S.U.	6.86		100	95 - 105		
LCS AA07849	6.88	0.01	S.U.	6.86		100	95 - 105		



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**Project Name:** Kallsen

**Project Number:** 28141

**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
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**DRO\_ORO\_SOIL-2925**

**AA07759**

**DUP**

DRO	354.078				Not Detected			4.03	
ORO	409.869				Not Detected			27.1	

**Matrix Spike**

DRO	340.086		mg/kg	350	Not Detected	97.2			
ORO	312.053		mg/kg	350	Not Detected	89.2			

**AA07780**

**MB**

DRO	Not Detected		mg/kg						
ORO	Not Detected		mg/kg						

**AA07781**

**LCS**

DRO	309.981		mg/kg			88.6			
ORO	240.713		mg/kg			68.8			

**AA07782**

DRO	328.964		mg/kg			94.0			
ORO	241.268		mg/kg			68.9			

**METALS\_S-2942**

**AA07817**

**MB**

Arsenic	0.000		mg/kg						
Barium	0.000		mg/kg						
Cadmium	0.000		mg/kg						
Copper	0.000		mg/kg						
Lead	0.000		mg/kg						
Nickel	0.000		mg/kg						
Selenium	0.000		mg/kg						
Silver	0.001		mg/kg						
Zinc	0.000		mg/kg						

**AA07819**

**LCS**

Arsenic	0.086		mg/kg			95.6	80 - 120		
Barium	0.089		mg/kg			98.9	80 - 120		
Cadmium	0.092		mg/kg			102	80 - 120		
Copper	0.094		mg/kg			104	80 - 120		
Lead	0.089		mg/kg			98.9	80 - 120		
Nickel	0.091		mg/kg			101	80 - 120		
Selenium	0.092		mg/kg			102	80 - 120		
Silver	0.098		mg/kg			109	80 - 120		
Zinc	0.094		mg/kg			104	80 - 120		

**AA07820**

Arsenic	0.092		mg/kg			102	80 - 120		
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**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Barium	0.093		mg/kg			103	80 - 120		
Cadmium	0.096		mg/kg			107	80 - 120		
Copper	0.101		mg/kg			112	80 - 120		
Lead	0.092		mg/kg			102	80 - 120		
Nickel	0.097		mg/kg			108	80 - 120		
Selenium	0.096		mg/kg			107	80 - 120		
Silver	0.104		mg/kg			116	80 - 120		
Zinc	0.098		mg/kg			109	80 - 120		

**SAR-2960**

**AA07875**

**MB**

Calcium	-0.002		mEq/L						
Magnesium	0.001		mEq/L						
Sodium	0.012		mEq/L						

**AA07876**

**LCS**

Calcium	10.839		ppm			108			
Magnesium	10.169		ppm			102			
Sodium	9.994		ppm			99.9			

**AA07877**

Calcium	421.677		ppm			84.3			
Magnesium	415.90		ppm			83.2			
Sodium	431.255		ppm			86.3			

**SVOC\_SOIL-2938**

**AA07800**

**MB**

1-methylnaphthalene	Not Detected		mg/kg						
2-methylnaphthalene	Not Detected		mg/kg						
Acenaphthene	Not Detected		mg/kg						
Anthracene	Not Detected		mg/kg						
Benz(a)anthracene	Not Detected		mg/kg						
Benzo(a)pyrene	Not Detected		mg/kg						
Benzo(b)fluoranthene	Not Detected		mg/kg						
Benzo(k)fluoranthene	Not Detected		mg/kg						
Chrysene	Not Detected		mg/kg						
Dibenzo(a,h)anthracene	Not Detected		mg/kg						
Fluoranthene	Not Detected		mg/kg						
Fluorene	Not Detected		mg/kg						
Indeno(1,2,3-cd)pyrene	Not Detected		mg/kg						
Naphthalene	Not Detected		mg/kg						
Pyrene	Not Detected		mg/kg						

**AA07801**

**LCS**

1-methylnaphthalene	0.249		mg/kg			83.0			
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**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
2-methylnaphthalene	0.247		mg/kg			82.3			
Acenaphthene	0.226		mg/kg			75.3			
Anthracene	0.260		mg/kg			86.7			
Benz(a)anthracene	0.334		mg/kg			111			
Benzo(a)pyrene	0.295		mg/kg			98.3			
Benzo(b)fluoranthene	0.239		mg/kg			79.7			
Benzo(k)fluoranthene	0.330		mg/kg			110			
Chrysene	0.290		mg/kg			96.7			
Dibenzo(a,h)anthracene	0.228		mg/kg			76.0			
Fluoranthene	0.302		mg/kg			101			
Fluorene	0.216		mg/kg			72.0			
Indeno(1,2,3-cd)pyrene	0.212		mg/kg			70.7			
Naphthalene	0.236		mg/kg			78.7			
Pyrene	0.288		mg/kg			96.0			

**AA07802**

1-methylnaphthalene	0.384		mg/kg			128			
2-methylnaphthalene	0.388		mg/kg			129			
Acenaphthene	0.369		mg/kg			123			
Anthracene	0.338		mg/kg			113			
Benz(a)anthracene	0.380		mg/kg			127			
Benzo(a)pyrene	0.348		mg/kg			116			
Benzo(b)fluoranthene	0.274		mg/kg			91.3			
Benzo(k)fluoranthene	0.378		mg/kg			126			
Chrysene	0.321		mg/kg			107			
Dibenzo(a,h)anthracene	0.224		mg/kg			74.7			
Fluoranthene	0.319		mg/kg			106			
Fluorene	0.339		mg/kg			113			
Indeno(1,2,3-cd)pyrene	0.220		mg/kg			73.3			
Naphthalene	0.366		mg/kg			122			
Pyrene	0.305		mg/kg			102			

**SVOC\_SOIL-2968**

**AA07896**

**MB**

1-methylnaphthalene	Not Detected		mg/kg						
2-methylnaphthalene	Not Detected		mg/kg						
Acenaphthene	Not Detected		mg/kg						
Anthracene	Not Detected		mg/kg						
Benz(a)anthracene	Not Detected		mg/kg						
Benzo(a)pyrene	Not Detected		mg/kg						
Benzo(b)fluoranthene	Not Detected		mg/kg						
Benzo(k)fluoranthene	Not Detected		mg/kg						
Chrysene	Not Detected		mg/kg						
Dibenzo(a,h)anthracene	Not Detected		mg/kg						
Fluoranthene	Not Detected		mg/kg						



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**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Fluorene	Not Detected		mg/kg						
Indeno(1,2,3-cd)pyrene	Not Detected		mg/kg						
Naphthalene	Not Detected		mg/kg						
Pyrene	Not Detected		mg/kg						

**AA07897**

**LCS**

1-methylnaphthalene	0.307		mg/kg			102			
2-methylnaphthalene	0.309		mg/kg			103			
Acenaphthene	0.288		mg/kg			96.0			
Anthracene	0.290		mg/kg			96.7			
Benz(a)anthracene	0.314		mg/kg			105			
Benzo(a)pyrene	0.335		mg/kg			112			
Benzo(b)fluoranthene	0.225		mg/kg			75.0			
Benzo(k)fluoranthene	0.241		mg/kg			80.3			
Chrysene	0.272		mg/kg			90.7			
Dibenzo(a,h)anthracene	0.273		mg/kg			91.0			
Fluoranthene	0.265		mg/kg			88.3			
Fluorene	0.289		mg/kg			96.3			
Indeno(1,2,3-cd)pyrene	0.270		mg/kg			90.0			
Naphthalene	0.288		mg/kg			96.0			
Pyrene	0.245		mg/kg			81.7			

**AA07898**

1-methylnaphthalene	0.346		mg/kg			115			
2-methylnaphthalene	0.344		mg/kg			115			
Acenaphthene	0.318		mg/kg			106			
Anthracene	0.299		mg/kg			99.7			
Benz(a)anthracene	0.345		mg/kg			115			
Benzo(a)pyrene	0.359		mg/kg			120			
Benzo(b)fluoranthene	0.253		mg/kg			84.3			
Benzo(k)fluoranthene	0.286		mg/kg			95.3			
Chrysene	0.305		mg/kg			102			
Dibenzo(a,h)anthracene	0.303		mg/kg			101			
Fluoranthene	0.297		mg/kg			99.0			
Fluorene	0.294		mg/kg			98.0			
Indeno(1,2,3-cd)pyrene	0.308		mg/kg			103			
Naphthalene	0.315		mg/kg			105			
Pyrene	0.283		mg/kg			94.3			

**VOC\_S-2957**

**AA07866**

**MB**

1,2,4-trimethylbenzene	<0.00245		mg/kg						
1,3,5-trimethylbenzene	<0.005		mg/kg						
Benzene	<0.00242		mg/kg						
Ethylbenzene	<0.005		mg/kg						



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

**Report Date :** 5/15/2024

**Report Time :** 17:31

**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Kallsen

**Project Number:** 28141

**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
m&p- xylene	Not Detected		mg/kg						
o-xylene	<0.00227		mg/kg						
Toluene	<0.00263		mg/kg						
Xylenes, total	<0.00654		mg/kg						

**AA07867**

**LCS**

1,2,4-trimethylbenzene	0.04995		mg/kg			99.9			
1,3,5-trimethylbenzene	0.05141		mg/kg			103			
Benzene	0.04383		mg/kg			87.7			
Ethylbenzene	0.04837		mg/kg			96.7			
m&p- xylene	0.10137		mg/kg			101			
o-xylene	0.04578		mg/kg			91.6			
Toluene	0.05248		mg/kg			105			
Xylenes, total	0.14715		mg/kg			98.1			

**AA07868**

1,2,4-trimethylbenzene	0.06397		mg/kg			128			
1,3,5-trimethylbenzene	0.06412		mg/kg			128			
Benzene	0.03995		mg/kg			79.9			
Ethylbenzene	0.05830		mg/kg			117			
m&p- xylene	0.12993		mg/kg			130			
o-xylene	0.05682		mg/kg			114			
Toluene	0.05997		mg/kg			120			
Xylenes, total	0.18675		mg/kg			124			

Qualifier

Explanation

H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample incorrectly preserved
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
E	Electronic loss or corruption of data.
I	Subcontracted sample