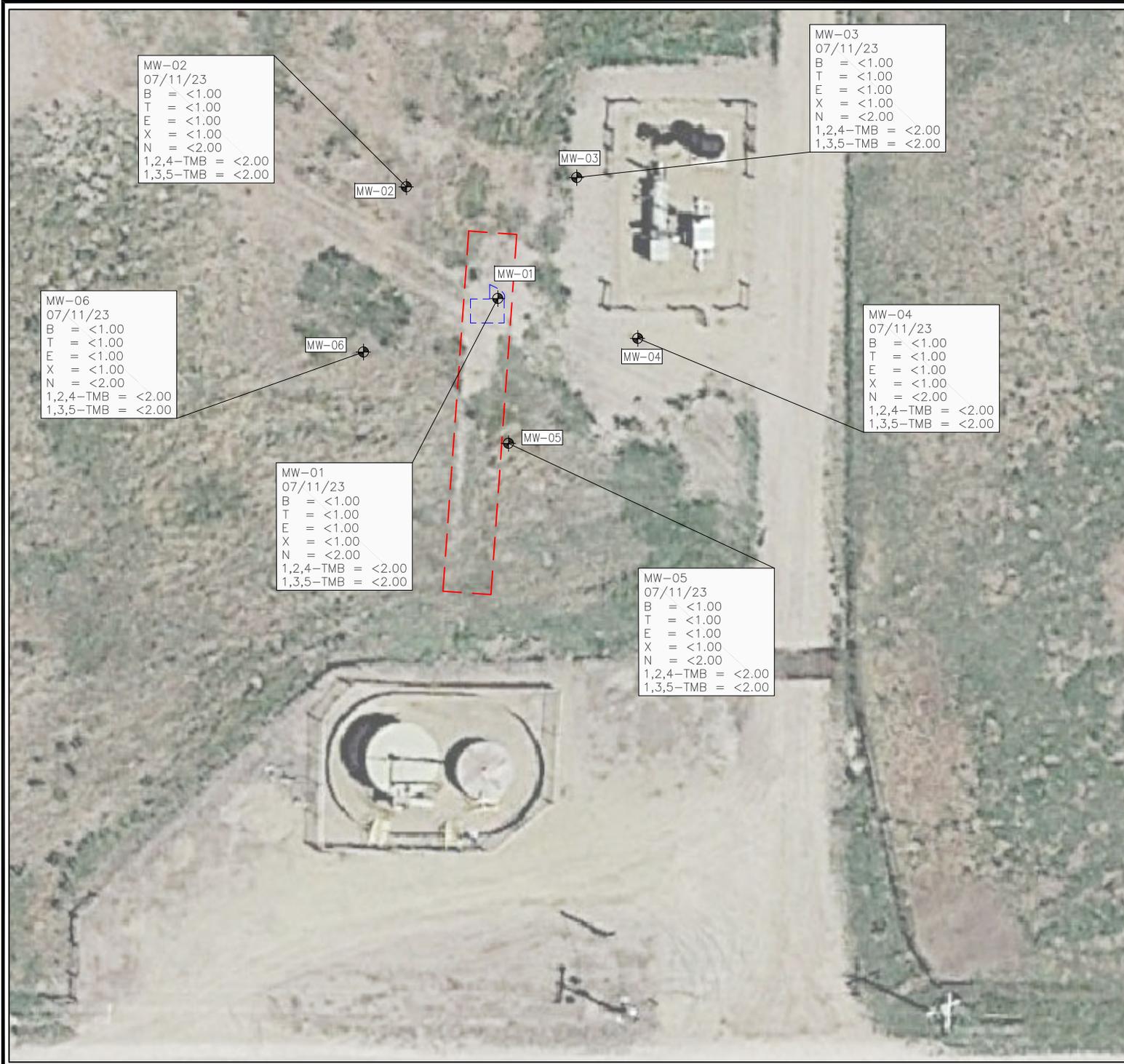




## **FIGURES**

**Figure 1: Groundwater Analytical Map (07/11/23)**

**Figure 2: Groundwater Elevation Map (07/11/23)**



**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS

**PARAMETERS**

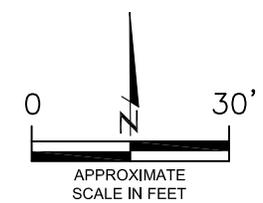
**GROUNDWATER SAMPLE LOCATION**  
DATE  
B = BENZENE (µg/L)  
T = TOLUENE (µg/L)  
E = ETHYLBENZENE (µg/L)  
X = TOTAL XYLENES (µg/L)  
N = NAPHTHALENE (µg/L)  
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)  
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)

µg/L = MICROGRAMS PER LITER

**NOTES:**  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT.

VALUES PRESENTED IN **BOLD** EXCEED THE APPLICABLE COGCC TABLE 915-1 REGULATORY LIMITS.

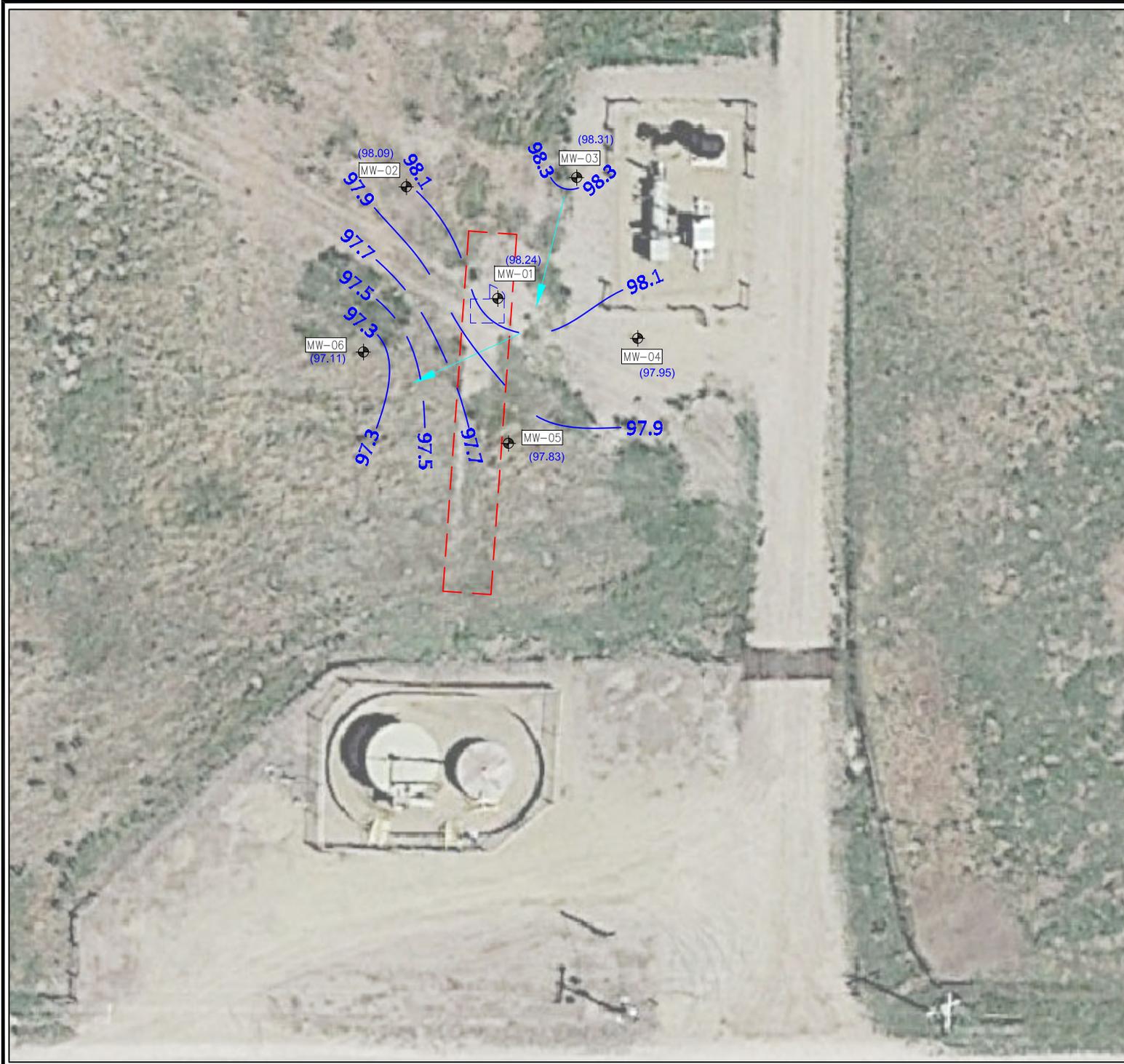
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



**GROUNDWATER ANALYTICAL MAP**  
(07/11/23)  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SE¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDIATION # 23926

DATE:  
07/27/23  
DRAWN BY:  
IM  
FIG.  
NO. 1

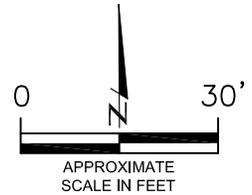
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS
- (91.45) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET  
 NOTE: GROUNDWATER ELEVATION DATA COLLECTED ON 07/11/23.  
 HYDRAULIC GRADIENT (MW-03 TO MW-05): 0.008 FT./FT



**GROUNDWATER ELEVATION MAP**  
 (07/11/23)  
 LIBSACK 4-8-27  
 VENT LINE RELEASE  
 40.276553 / -104.644507  
 SW¼ SE¼ SEC.27 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 310312  
 REMEDIATION # 23926

DATE:  
07/27/23  
 DRAWN BY:  
IM  
 FIG.  
NO. 2

**EAGLE ENVIRONMENTAL CONSULTING, LLC**  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Groundwater Elevation Summary**

**TABLE 1**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**LIBSACK 4-8-27**  
**VENT LINE RELEASE**  
**40.276553 / -104.644507**  
**SW1/4 SE1/4 SEC.27 T4N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 310312**  
**REMEDIAION # 23926**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5 - Trimethylbenzene (µg/L)
<b>COGCC Table 915-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>
GW-01 (40.276553 / -104.644507)	07/06/22	<b>49.1</b>	116	<1.00	309	<2.00	7.70	25.7
MW-01 (40.276562117 / -104.644501207)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.276628485 / -104.644572364)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.276630801 / -104.644441206)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.276541392 / -104.644401104)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.276482328 / -104.644504078)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-06 (40.276530662 / -104.655607801)	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	01/24/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	04/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	07/11/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in <b>bold</b> typeface exceed their respective COGCC - Regulatory Limits (Table 915-1).								



**TABLE 2**  
**GROUNDWATER ELEVATION SUMMARY**  
**LIBSACK 4-8-27**  
**VENT LINE RELEASE**  
**40.276553 / -104.644507**  
**SW1/4 SE1/4 SEC.27 T4N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 310312**  
**REMEDIATION # 23926**

Sample Location (Latitude/Longitude)	Date	Relative Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.276562117 / -104.644501207)	10/20/22	99.97	1.86	98.11
	01/24/23		1.76	98.21
	04/19/23		2.10	97.87
	07/11/23		1.73	98.24
MW-02 (40.276628485 / -104.644572364)	10/20/22	99.93	2.10	97.83
	01/24/23		2.03	97.90
	04/19/23		2.39	97.54
	07/11/23		1.84	98.09
MW-03 (40.276630801 / -104.644441206)	10/20/22	100.00	1.79	98.21
	01/24/23		1.70	98.30
	04/19/23		2.01	97.99
	07/11/23		1.69	98.31
MW-04 (40.276541392 / -104.644401104)	10/20/22	99.94	2.11	97.83
	01/24/23		2.00	97.94
	04/19/23		2.32	97.62
	07/11/23		1.99	97.95
MW-05 (40.276482328 / -104.644504078)	10/20/22	99.88	2.32	97.56
	01/24/23		2.22	97.66
	04/19/23		2.44	97.44
	07/11/23		2.05	97.83
MW-06 (40.276530662 / -104.655607801)	10/20/22	99.96	1.99	97.97
	01/24/23		1.97	97.99
	04/19/23		2.29	97.67
	07/11/23		2.85	97.11
NOTES: TOC - top of casing				



## **ATTACHMENT A**

### **Laboratory Analytical Reports (4Q22 thru 3Q23)**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

October 27, 2022

Martin Eckart III  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550  
RE: Libsack 4-8-27

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/22 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2210377-01	Water	10/20/22 09:15	10/21/22 13:35
MW-02	2210377-02	Water	10/20/22 08:35	10/21/22 13:35
MW-03	2210377-03	Water	10/20/22 08:45	10/21/22 13:35
MW-04	2210377-04	Water	10/20/22 08:55	10/21/22 13:35
MW-05	2210377-05	Water	10/20/22 09:25	10/21/22 13:35
MW-06	2210377-06	Water	10/20/22 09:05	10/21/22 13:35

Summit Scientific

*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.*



S<sub>2</sub>

2210377

Sample Receipt Checklist

S2 Work Order# \_\_\_\_\_

Client: EGS Client Project ID: Cori Libsack 4-8-22

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 3.4 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCC
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]  
Custodian Printed Name

10-21-22 1335  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-01**  
**2210377-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.3 %		21-167		"	"	"	"	

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-02**  
**2210377-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		71.3 %		21-167		"	"	"	"	

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-03**  
**2210377-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/25/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **10/20/22 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		82.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %		21-167		"	"	"	"	

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-04**  
**2210377-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **10/20/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		87.1 %		23-173		"	"	"	"	"
Surrogate: Toluene-d8		98.3 %		20-170		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		72.0 %		21-167		"	"	"	"	"

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-05**  
**2210377-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **10/20/22 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.5 %		23-173		"	"	"	"	"
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		70.9 %		21-167		"	"	"	"	"

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**MW-06**  
**2210377-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/20/22 09:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BFJ0690	10/25/22	10/26/22	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **10/20/22 09:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %		21-167		"	"	"	"	

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

#### Batch BFJ0690 - EPA 5030 Water MS

##### Blank (BFJ0690-BLK1)

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.7		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.6		20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106		21-167			

##### LCS (BFJ0690-BS1)

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	44.6	1.0	ug/l	50.0		89.2		51-132			
Toluene	56.8	1.0	"	50.0		114		51-138			
Ethylbenzene	52.9	1.0	"	50.0		106		58-146			
m,p-Xylene	106	2.0	"	100		106		57-144			
o-Xylene	50.9	1.0	"	50.0		102		53-146			
Naphthalene	51.2	1.0	"	50.0		102		70-130			
1,2,4-Trimethylbenzene	52.4	1.0	"	50.0		105		70-130			
1,3,5-Trimethylbenzene	52.8	1.0	"	50.0		106		70-130			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111		23-173			
Surrogate: Toluene-d8	18.8		"	13.3		141		20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100		21-167			

##### Matrix Spike (BFJ0690-MS1)

Source: 2210354-01

Prepared: 10/25/22 Analyzed: 10/26/22

Benzene	44.7	1.0	ug/l	50.0	ND	89.5		34-141			
Toluene	53.0	1.0	"	50.0	ND	106		27-151			
Ethylbenzene	54.5	1.0	"	50.0	ND	109		29-160			
m,p-Xylene	110	2.0	"	100	ND	110		20-166			
o-Xylene	52.1	1.0	"	50.0	ND	104		33-159			
Naphthalene	48.3	1.0	"	50.0	ND	96.6		70-130			
1,2,4-Trimethylbenzene	56.8	1.0	"	50.0	ND	114		70-130			
1,3,5-Trimethylbenzene	56.8	1.0	"	50.0	ND	114		70-130			
Surrogate: 1,2-Dichloroethane-d4	11.4		"	13.3		85.5		23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.4		20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.1		21-167			

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limit	RPD	Limit	RPD	

**Batch BFJ0690 - EPA 5030 Water MS**

Matrix Spike Dup (BFJ0690-MSD1)	Source: 2210354-01			Prepared: 10/25/22 Analyzed: 10/26/22					
Benzene	43.5	1.0	ug/l	50.0	ND	87.1	34-141	2.72	30
Toluene	57.4	1.0	"	50.0	ND	115	27-151	8.08	30
Ethylbenzene	57.3	1.0	"	50.0	ND	115	29-160	5.08	30
m,p-Xylene	115	2.0	"	100	ND	115	20-166	4.55	30
o-Xylene	53.7	1.0	"	50.0	ND	107	33-159	3.02	30
Naphthalene	51.9	1.0	"	50.0	ND	104	70-130	7.28	30
1,2,4-Trimethylbenzene	57.0	1.0	"	50.0	ND	114	70-130	0.316	30
1,3,5-Trimethylbenzene	57.2	1.0	"	50.0	ND	114	70-130	0.684	30
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173		
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170		
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	21-167		

Summit Scientific

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.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/27/22 12:35

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 26, 2022

Martin Eckart III  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550

RE: Libsack 4-8-27

Work Order #2210378

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/22 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2210378-01	Water	10/21/22 11:25	10/21/22 13:35
MW-02	2210378-02	Water	10/21/22 11:35	10/21/22 13:35
MW-03	2210378-03	Water	10/21/22 10:55	10/21/22 13:35
MW-04	2210378-04	Water	10/21/22 10:45	10/21/22 13:35
MW-05	2210378-05	Water	10/21/22 11:05	10/21/22 13:35
MW-06	2210378-06	Water	10/21/22 11:15	10/21/22 13:35

Summit Scientific

*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.*



S<sub>2</sub>

2210378

Sample Receipt Checklist

S2 Work Order# \_\_\_\_\_

Client: Egls Client Project ID: Civi Libsack 4-8-27

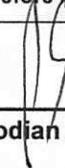
Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

  
Custodian Printed Name

10-31-22 1335  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-01**  
**2210378-01 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	375	12.0	mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	381	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1490</b>	10.0	mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-02**  
**2210378-02 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	247	12.0	mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	293	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1770	10.0	mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-03**  
**2210378-03 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	539	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	590	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1820	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-04**  
**2210378-04 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	375	12.0	mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	392	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1470	10.0	mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-05**  
**2210378-05 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	<b>204</b>	12.0	mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
Sulfate	<b>262</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Total Dissolved Solids</b>	<b>1040</b>	10.0	mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**MW-06**  
**2210378-06 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>396</b>	12.0		mg/L	200	BFJ0634	10/23/22	10/25/22	EPA 300.0	
<b>Sulfate</b>	<b>346</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/21/22 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1430</b>	10.0		mg/L	1	BFJ0624	10/23/22	10/24/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

**Anions by EPA Method 300.0 - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BFJ0634 - General Preparation**

**Blank (BFJ0634-BLK1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

**LCS (BFJ0634-BS1)**

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	3.14	0.0600	mg/L	3.00	105	90-110				
Sulfate	14.8	0.300	"	15.0	98.6	90-110				

**Duplicate (BFJ0634-DUP1)**

Source: 2210332-01

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	9.60	12.0	mg/L		10.4		8.00	20		
Sulfate	1380	60.0	"		1210		12.9	20		

**Matrix Spike (BFJ0634-MS1)**

Source: 2210332-01

Prepared: 10/23/22 Analyzed: 10/25/22

Chloride	627	12.0	mg/L	600	10.4	103	80-120			
Sulfate	4460	60.0	"	3000	1210	108	80-120			

Summit Scientific

*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.*



Civitas Resources  
 650 Southgate Drive  
 Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckart III

**Reported:**  
 10/26/22 13:53

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFJ0624 - General Preparation**

**Blank (BFJ0624-BLK1)**

Prepared: 10/23/22 Analyzed: 10/24/22

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (BFJ0624-DUP1)**

**Source: 2210369-01**

Prepared: 10/23/22 Analyzed: 10/24/22

Total Dissolved Solids      725      10.0      mg/L      712      1.85      20

Summit Scientific

*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.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckart III

**Reported:**  
10/26/22 13:53

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 27, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Libsack #4-8-27

Work Order # 2301415

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/23 11:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Scott Sheely". The signature is written in a cursive style with a large, stylized 'S' at the beginning.

Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2301415-01	Water	01/24/23 11:05	01/24/23 11:47
MW-02	2301415-02	Water	01/24/23 10:55	01/24/23 11:47
MW-03	2301415-03	Water	01/24/23 10:45	01/24/23 11:47
MW-04	2301415-04	Water	01/24/23 10:35	01/24/23 11:47
MW-05	2301415-05	Water	01/24/23 10:25	01/24/23 11:47
MW-06	2301415-06	Water	01/24/23 10:15	01/24/23 11:47

Summit Scientific

*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.*

2301415

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Martin Eckert III / invoice: Jacob

Address: 7800 W 44<sup>th</sup> Ave

E-Mail: mce3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Liback #4-8-27

Sampler Name: TC/EL

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX-8200	Naphthalene-8200	Tarbs-8200					
1	MW-01	01/24/23	1105	3	X				X				X	X	X					
2	MW-02	↓	1055	↓	↓				↓				↓	↓	↓				MDLs needed	
3	MW-03		1045	↓	↓				↓				↓	↓	↓					
4	MW-04		1035	↓	↓				↓				↓	↓	↓					
5	MW-05		1025	↓	↓				↓				↓	↓	↓					
6	MW-06		1015	↓	↓				↓				↓	↓	↓					
7																				
8																				
9																				
10																				

Relinquished by: Trevor Copple 1-24-23/1147

Received by: [Signature] 1/24/23 11:47

Turn Around Time (Check)

Same Day \_\_\_\_\_ 72 hours \_\_\_\_\_

24 hours \_\_\_\_\_ Standard

48 hours \_\_\_\_\_

Notes:

Temperature Upon Receipt: 4.6

Corrected Temperature: \_\_\_\_\_

IR gun #: 2

HNO3 lot # \_\_\_\_\_

Sample Integrity: Samples Intact:  Yes  No

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2301415

Client: Payle Environmental Consulting Client Project ID: Libsack # 4-8-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #:

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 4.6 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):  
None

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Juno  
Custodian Printed Name

1/24/23  
Date/Time



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-01**  
**2301415-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %		21-167		"	"	"	"	

Summit Scientific

*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.*



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-02**  
**2301415-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		78.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Summit Scientific

*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.*



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-03**  
**2301415-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		71.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %		21-167		"	"	"	"	

Summit Scientific

*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.*



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-04**  
**2301415-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		72.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-05**  
**2301415-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**MW-06**  
**2301415-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGA0618	01/25/23	01/26/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %		21-167		"	"	"	"	

Summit Scientific

*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.*





Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

#### Batch BGA0618 - EPA 5030 Water MS

##### Blank (BGA0618-BLK1)

Prepared & Analyzed: 01/25/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.0		"	13.3		82.2		23-173			
<i>Surrogate: Toluene-d8</i>	13.0		"	13.3		97.2		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.0		"	13.3		97.3		21-167			

##### LCS (BGA0618-BS1)

Prepared & Analyzed: 01/25/23

Benzene	42.7	1.0	ug/l	50.0		85.3		51-132			
Toluene	44.7	1.0	"	50.0		89.4		51-138			
Ethylbenzene	46.6	1.0	"	50.0		93.2		58-146			
m,p-Xylene	96.7	2.0	"	100		96.7		57-144			
o-Xylene	47.4	1.0	"	50.0		94.8		53-146			
Naphthalene	47.8	1.0	"	50.0		95.7		70-130			
1,2,4-Trimethylbenzene	47.8	1.0	"	50.0		95.6		70-130			
1,3,5-Trimethylbenzene	47.3	1.0	"	50.0		94.6		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.2		"	13.3		76.5		23-173			
<i>Surrogate: Toluene-d8</i>	12.5		"	13.3		93.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.5		"	13.3		94.1		21-167			

##### Matrix Spike (BGA0618-MS1)

Source: 2301374-01

Prepared & Analyzed: 01/25/23

Benzene	44.3	1.0	ug/l	50.0	ND	88.7		34-141			
Toluene	46.9	1.0	"	50.0	ND	93.7		27-151			
Ethylbenzene	48.9	1.0	"	50.0	ND	97.8		29-160			
m,p-Xylene	102	2.0	"	100	ND	102		20-166			
o-Xylene	48.9	1.0	"	50.0	ND	97.7		33-159			
Naphthalene	43.6	1.0	"	50.0	ND	87.2		70-130			
1,2,4-Trimethylbenzene	50.3	1.0	"	50.0	ND	101		70-130			
1,3,5-Trimethylbenzene	50.0	1.0	"	50.0	ND	100		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.37		"	13.3		70.3		23-173			
<i>Surrogate: Toluene-d8</i>	12.6		"	13.3		94.5		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.4		"	13.3		93.4		21-167			

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/27/23 10:17

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

**Batch BGA0618 - EPA 5030 Water MS**

Matrix Spike Dup (BGA0618-MSD1)	Source: 2301374-01			Prepared & Analyzed: 01/25/23						
Benzene	44.3	1.0	ug/l	50.0	ND	88.7	34-141	0.00	30	
Toluene	46.6	1.0	"	50.0	ND	93.3	27-151	0.492	30	
Ethylbenzene	48.5	1.0	"	50.0	ND	97.0	29-160	0.739	30	
m,p-Xylene	100	2.0	"	100	ND	100	20-166	1.12	30	
o-Xylene	48.6	1.0	"	50.0	ND	97.2	33-159	0.554	30	
Naphthalene	43.7	1.0	"	50.0	ND	87.4	70-130	0.229	30	
1,2,4-Trimethylbenzene	50.8	1.0	"	50.0	ND	102	70-130	0.950	30	
1,3,5-Trimethylbenzene	50.7	1.0	"	50.0	ND	101	70-130	1.47	30	
Surrogate: 1,2-Dichloroethane-d4	9.37		"	13.3		70.3	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.9	21-167			

Summit Scientific

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.



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/27/23 10:17

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 31, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Libsack #4-8-27

Work Order # 2301416

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/23 11:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Scott Sheely". The signature is written in a cursive style with a large, stylized 'S' at the beginning.

Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]

Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2301416-01	Water	01/24/23 11:05	01/24/23 11:47
MW-02	2301416-02	Water	01/24/23 10:55	01/24/23 11:47
MW-03	2301416-03	Water	01/24/23 10:45	01/24/23 11:47
MW-04	2301416-04	Water	01/24/23 10:35	01/24/23 11:47
MW-05	2301416-05	Water	01/24/23 10:25	01/24/23 11:47
MW-06	2301416-06	Water	01/24/23 10:15	01/24/23 11:47

Summit Scientific

*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.*

# Summit Scientific

2301416

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
City/State/Zip: Wheat Ridge, CO 80035  
Phone: 303-433-0479  
Sampler Name: TC/EL

Project Manager: Martin Eckert III / Invoice = Jacob  
E-Mail: mce3@eagle-enviro.com  
Project Name: Libsack #4-8-27  
Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TDS-2540C	chloride-EPA 300.0	Sulfate-EPA 300.0			
1	MW-01	01/24/23	1105	1			X		X				X	X	X			MDLs needed
2	MW-02	↓	1055	↓					↓				↓	↓	↓			
3	MW-03	↓	1045	↓					↓				↓	↓	↓			
4	MW-04	↓	1035	↓					↓				↓	↓	↓			
5	MW-05	↓	1025	↓					↓				↓	↓	↓			
6	MW-06	↓	1015	↓					↓				↓	↓	↓			
7																		
8																		
9																		
10																		

Relinquished by: <u>Trevor Copple</u>	Date/Time: <u>1-24-23/1147</u>	Received by: <u>JTW-02</u>	Date/Time: <u>1/24/23 11:47</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day _____ 72 hours _____	
				24 hours _____ Standard <input checked="" type="checkbox"/>	
				48 hours _____	
Temperature Upon Receipt: <u>4.6</u>	Corrected Temperature: <u>-</u>	HNO3 lot #	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <u>-</u>	IR gun #: <u>2</u>				

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2301416

Client: Eagle Environmental Consulting Client Project ID: Libsach # 4-8-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 4.6 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

Polys

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Jms  
Custodian Printed Name

1/24/23  
Date/Time



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-01**  
**2301416-01 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	<b>418</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	<b>431</b>	60.0	1.41	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1740</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

*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.*





Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-02**  
**2301416-02 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	258	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	359	60.0	1.41	"	"	"	"	"	"	"

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1260	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-03**  
**2301416-03 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	244	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	352	60.0	1.41	"	"	"	"	"	"	"

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1140	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-04**  
**2301416-04 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	<b>326</b>	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	<b>440</b>	60.0	1.41	"	"	"	"	"	"	"

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Total Dissolved Solids</b>	<b>1500</b>	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-05**  
**2301416-05 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	457	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	477	60.0	1.41	"	"	"	"	"	"	"

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1730	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**MW-06**  
**2301416-06 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	422	12.0	0.290	mg/L	200	BGA0625	01/25/23	01/26/23	EPA 300.0	
Sulfate	430	60.0	1.41	"	"	"	"	"	"	"

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/24/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1730	10.0	10.0	mg/L	1	BGA0620	01/25/23	01/25/23	SM2540C	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**Anions by EPA Method 300.0 - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BGA0625 - General Preparation**

**Blank (BGA0625-BLK1)**

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	ND	0.0600	mg/L						
Sulfate	0.0352	0.300	"						

**LCS (BGA0625-BS1)**

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	3.21	0.0600	mg/L	3.00	107	90-110		
Sulfate	16.5	0.300	"	15.0	110	90-110		

**Duplicate (BGA0625-DUP1)**

Source: 2301416-01

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	425	12.0	mg/L		418		1.71	20
Sulfate	462	60.0	"		431		6.89	20

**Matrix Spike (BGA0625-MS1)**

Source: 2301416-01

Prepared: 01/25/23 Analyzed: 01/26/23

Chloride	1000	12.0	mg/L	600	418	97.7	80-120	
Sulfate	3470	60.0	"	3000	431	101	80-120	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 01/31/23 14:51

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BGA0620 - General Preparation**

**Blank (BGA0620-BLK1)**

Prepared & Analyzed: 01/25/23

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (BGA0620-DUP1)**

**Source: 2301400-01**

Prepared & Analyzed: 01/25/23

Total Dissolved Solids      538      10.0      mg/L      562      4.24      20

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Libsack #4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
01/31/23 14:51

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

April 27, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

Wheat Ridge, CO 80033

RE: Civitas - Libsack 4-8-27

Work Order # 2304404

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/23 13:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2304404-01	Water	04/19/23 11:30	04/19/23 13:47
MW-02	2304404-02	Water	04/19/23 11:40	04/19/23 13:47
MW-03	2304404-03	Water	04/19/23 11:50	04/19/23 13:47
MW-04	2304404-04	Water	04/19/23 12:00	04/19/23 13:47
MW-05	2304404-05	Water	04/19/23 12:10	04/19/23 13:47
MW-06	2304404-06	Water	04/19/23 12:20	04/19/23 13:47

Summit Scientific

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# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2304404	

Client: <u>Eagle Environmental Consulting</u>	Project Manager: <u>Martin Eckert III</u>	Send Invoice To: Company: <u>Civitas / Bill to Jacobs</u>
Address: <u>8000 W 44th Ave</u>	E-Mail: <u>mce3@eagle-enviro.com</u>	Project Name/Location: <u>Libsack 4-8-27</u>
City/State/Zip: <u>Wheat Ridge, CO 80033</u>	Project Name: <u>Libsack 4-8-27</u>	AFE#:
Phone: <u>303-433-0479</u>	Project Number: <u>    </u>	PO/Billing Codes:
Sampler Name: <u>IM</u>		Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Other <i>BTEX, Naphthalene, TABs - BZBD</i>	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #						
1	MW-01	4/19/23	1130	3	X					X							
2	MW-02	↓	1140	↓	↓					↓							
3	MW-03	↓	1150	↓	↓					↓							
4	MW-04	↓	1200	↓	↓					↓							
5	MW-05	↓	1210	↓	↓					↓							
6	MW-06	↓	1220	↓	↓					↓							
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/19/23 1347</u>	Received by: <u>Sheree Bahr</u>	Date/Time: <u>4/19/23 1347</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>5.3</u>	Corrected Temperature: <u>    </u>	IR gun #: <u>2</u>	HNO3 lot #: <u>    </u>			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2304404

Client: Eagle Environmental Consulting Client Project ID: Libsack 4-8-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #:

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

SB  
Custodian Printed Name

4/19/23 13:47  
Date/Time



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-01**  
**2304404-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-02**  
**2304404-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		129 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-03**  
**2304404-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		126 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		21-167		"	"	"	"	

Summit Scientific

*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.*



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-04**  
**2304404-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		125 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-05**  
**2304404-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	"
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	"
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	"

Date Sampled: **04/19/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		123 %		23-173		"	"	"	"	"
Surrogate: Toluene-d8		98.7 %		20-170		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		98.9 %		21-167		"	"	"	"	"

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**MW-06**  
**2304404-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BGD0790	04/24/23	04/25/23	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

Reported:  
04/27/23 11:48

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

#### Batch BGD0790 - EPA 5030 Water MS

##### Blank (BGD0790-BLK1)

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### LCS (BGD0790-BS1)

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	37.6	1.0	ug/l	41.7		90.3	51-132			
Toluene	38.7	1.0	"	41.7		92.8	51-138			
Ethylbenzene	41.5	1.0	"	41.7		99.7	58-146			
m,p-Xylene	82.6	2.0	"	83.3		99.2	57-144			
o-Xylene	39.9	1.0	"	41.7		95.8	53-146			
Naphthalene	37.2	1.0	"	41.7		89.3	70-130			
1,2,4-Trimethylbenzene	44.1	1.0	"	41.7		106	70-130			
1,3,5-Trimethylbenzene	44.8	1.0	"	41.7		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3		118	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	21-167			

##### Matrix Spike (BGD0790-MS1)

Source: 2304404-01

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	37.5	1.0	ug/l	41.7	ND	90.0	34-141			
Toluene	39.2	1.0	"	41.7	ND	94.0	27-151			
Ethylbenzene	42.1	1.0	"	41.7	ND	101	29-160			
m,p-Xylene	82.9	2.0	"	83.3	ND	99.5	20-166			
o-Xylene	40.4	1.0	"	41.7	ND	97.0	33-159			
Naphthalene	48.7	1.0	"	41.7	ND	117	70-130			
1,2,4-Trimethylbenzene	44.7	1.0	"	41.7	ND	107	70-130			
1,3,5-Trimethylbenzene	45.1	1.0	"	41.7	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	17.1		"	13.3		129	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	21-167			

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
 Project Manager: Martin Eckert III

**Reported:**  
 04/27/23 11:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limit	RPD	Limit	RPD	

**Batch BGD0790 - EPA 5030 Water MS**

Matrix Spike Dup (BGD0790-MSD1)	Source: 2304404-01			Prepared: 04/24/23 Analyzed: 04/25/23					
Benzene	35.6	1.0	ug/l	41.7	ND	85.3	34-141	5.37	30
Toluene	37.0	1.0	"	41.7	ND	88.9	27-151	5.59	30
Ethylbenzene	40.2	1.0	"	41.7	ND	96.5	29-160	4.62	30
m,p-Xylene	80.1	2.0	"	83.3	ND	96.1	20-166	3.44	30
o-Xylene	38.6	1.0	"	41.7	ND	92.7	33-159	4.53	30
Naphthalene	46.8	1.0	"	41.7	ND	112	70-130	3.90	30
1,2,4-Trimethylbenzene	43.3	1.0	"	41.7	ND	104	70-130	3.09	30
1,3,5-Trimethylbenzene	43.4	1.0	"	41.7	ND	104	70-130	3.77	30
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.3		120	23-173		
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170		
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	21-167		

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Libsack 4-8-27

Project Number: [none]  
Project Manager: Martin Eckert III

**Reported:**  
04/27/23 11:48

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



July 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Civitas - Libsack 4-8-27

Project Number - [none]

Attached are your analytical results for Civitas - Libsack 4-8-27 received by Origins Laboratory, Inc. July 11, 2023. This project is associated with Origins project number Y307222-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y307222-01	Water	July 11, 2023 11:30	07/11/2023 17:10
MW-02	Y307222-02	Water	July 11, 2023 11:50	07/11/2023 17:10
MW-03	Y307222-03	Water	July 11, 2023 12:10	07/11/2023 17:10
MW-04	Y307222-04	Water	July 11, 2023 12:30	07/11/2023 17:10
MW-05	Y307222-05	Water	July 11, 2023 12:50	07/11/2023 17:10
MW-06	Y307222-06	Water	July 11, 2023 13:10	07/11/2023 17:10

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

Origins Laboratory

**Sample Receipt Checklist**

F-012207-01-R1  
 Effective Date: 01/09/12

Origins Work Order: 4307222

Client: Eagle

Client Project ID: Libsack 4-8-27

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 7/12/23

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 115 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	/			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>	/			
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / (pH > 10 for samples preserved with Na <sub>2</sub> AsO <sub>2</sub> +NaOH, ZnAc+NaOH)	/			NC
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/13/23

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-01**

**7/11/2023 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-01 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130				"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-02**

**7/11/2023 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-03**

**7/11/2023 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-03 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-04**

**7/11/2023 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-04 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-05**

**7/11/2023 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-05 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130				"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**MW-06**

**7/11/2023 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307222-06 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G1327	JSM	07/13/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130				"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130				"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1327 - EPA 5030B (Water)</b>										
<b>Blank (B3G1327-BLK1)</b>										
					Prepared: 07/13/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3G1327 - EPA 5030B (Water)**

**LCS (B3G1327-BS1)**

Prepared: 07/13/2023 Analyzed: 07/13/2023

1,2,4-Trimethylbenzene	48.2	2.00	ug/L	50.0		96.5	70-130			
1,3,5-Trimethylbenzene	47.8	2.00	"	50.0		95.5	70-130			
Benzene	47.2	1.00	"	50.0		94.3	70-130			
Ethylbenzene	46.2	1.00	"	50.0		92.5	70-130			
m,p-Xylene	92.5	2.00	"	100		92.5	70-130			
Naphthalene	44.8	2.00	"	50.0		89.7	70-130			
o-Xylene	44.0	1.00	"	50.0		88.0	70-130			
Toluene	47.1	1.00	"	50.0		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3G1327 - EPA 5030B (Water)**

Matrix Spike (B3G1327-MS1)	Source: Y307222-01			Prepared: 07/13/2023 Analyzed: 07/13/2023						
1,2,4-Trimethylbenzene	52.4	2.00	ug/L	50.0	ND	105	70-130			
1,3,5-Trimethylbenzene	53.2	2.00	"	50.0	ND	106	70-130			
Benzene	51.6	1.00	"	50.0	ND	103	70-130			
Ethylbenzene	51.5	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	99.1	2.00	"	100	ND	99.1	70-130			
Naphthalene	42.4	2.00	"	50.0	ND	84.8	70-130			
o-Xylene	47.7	1.00	"	50.0	ND	95.4	70-130			
Toluene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Civitas - Libsack 4-8-27

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3G1327 - EPA 5030B (Water)**

Matrix Spike Dup (B3G1327-MSD1)	Source: Y307222-01			Prepared: 07/13/2023 Analyzed: 07/13/2023						
1,2,4-Trimethylbenzene	53.4	2.00	ug/L	50.0	ND	107	70-130	1.89	20	
1,3,5-Trimethylbenzene	53.1	2.00	"	50.0	ND	106	70-130	0.169	20	
Benzene	51.4	1.00	"	50.0	ND	103	70-130	0.428	20	
Ethylbenzene	51.9	1.00	"	50.0	ND	104	70-130	0.793	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	3.76	20	
Naphthalene	44.6	2.00	"	50.0	ND	89.1	70-130	4.97	20	
o-Xylene	48.2	1.00	"	50.0	ND	96.4	70-130	0.959	20	
Toluene	52.0	1.00	"	50.0	ND	104	70-130	0.135	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Civitas - Libsack 4-8-27

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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## **ATTACHMENT B**

### **Historical Soil Data**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**LIBSACK 4-8-27**  
**VENT LINE RELEASE**  
**40.276553 / -104.644507**  
**SW1/4 SE1/4 SEC.27 T4N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 310312**  
**REMEDIAION # 23926**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
CS-SS-01 @ 3' (40.276590834 / -104.644498753)	09/06/22	3	1.2	Y
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	Y
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	Y
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	Y
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	Y
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	Y
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	Y
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	Y
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	Y
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	Y
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	Y
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	Y
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	Y
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	Y
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	Y
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	Y
MW-03 @ 2.5-5' (40.276630801 / -104.644441206)	10/13/22	2.5-5	2.7	Y
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	Y
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	Y
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

**TABLE 2**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**LIBSACK 4-8-27**  
**VENT LINE RELEASE**  
**40.276553 / -104.644507**  
**SW1/4 SE1/4 SEC.27 T4N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 310312**  
**REMEDATION # 23926**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>
CS-SS-01 @ 3' (40.276590834 / -104.644498753)	09/06/22	3	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-03 @ 2.5-5' (40.276630801 / -104.644441206)	10/13/22	2.5-5	2.7	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050

TABLE 2  
 SOIL ANALYTICAL RESULTS SUMMARY  
 LIBSACK 4-8-27  
 VENT LINE RELEASE  
 40.276553 / -104.644507  
 SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 310312  
 REMEDIATION # 23926

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50	<0.0050	<0.0050
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram                      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics ppm-v = parts per million by volume                      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics PID = Photoionization Detector                      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics  Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Values presented in <b>BOLD</b> exceed applicable COGCC Table 915-1 Regulatory Limits Values presented in <b>BOLD</b> + asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels												

TABLE 3  
PAHS ANALYTICAL RESULTS SUMMARY  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW1/4 SE1/4 SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>
CS-SS-01 @ 3' (40.27659834 / -104.644498753)	09/06/22	3	1.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00081	0.000606	<0.00067	<0.00067	<0.00067	0.000522	<0.00067	<0.00067	<0.00067	0.000712
CS-SS-02 @ 3' (40.276548441 / -104.644479747)	09/06/22	3	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-03 @ 3' (40.276489889 / -104.644494336)	09/06/22	3	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00123	0.000651	0.00091	0.000975	<0.00067	0.000764	<0.00067	<0.00067	<0.00067	0.000881
CS-SS-04 @ 3' (40.276447728 / -104.644498323)	09/06/22	3	0.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-05 @ 3' (40.276412384 / -104.644504591)	09/06/22	3	0.4	<0.00067	<0.00067	<0.00067	<0.00067	0.00118	0.00193	0.0012	0.00143	0.00228	<0.00067	0.00202	<0.00067	0.00112	<0.00067	0.00366
CS-SS-06 @ 3' (40.276380688 / -104.644529958)	09/06/22	3	0.3	<0.00067	<0.00067	<0.00067	<0.00067	0.000938	0.00177	0.000887	0.00139	0.00187	<0.00067	0.00167	<0.00067	0.000742	<0.00067	0.0024
CS-SS-07 @ 3' (40.276416738 / -104.644535368)	09/06/22	3	0.3	<0.00067	<0.00067	<0.00067	<0.00067	0.000539	0.00133	0.000847	0.000983	0.00124	<0.00067	0.00105	<0.00067	<0.00067	<0.00067	0.00136
CS-SS-08 @ 3' (40.276462218 / -104.644529497)	09/06/22	3	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-SS-09 @ 3' (40.276506134 / -104.644527382)	09/06/22	3	0.8	<0.00067	<0.00067	<0.00067	<0.00067	0.000501	0.00171	0.000993	0.0011	0.00134	<0.00067	0.00111	<0.00067	0.000892	<0.00067	0.00134
CS-SS-10 @ 3' (40.276553842 / -104.644522154)	09/06/22	3	1.0	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
CS-FS-01 @ 4' (40.479546118 / -104.644508298)	09/06/22	4	0.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-FS-02 @ 4' (40.276492639 / -104.644519006)	09/06/22	4	0.7	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00238	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
CS-FS-03 @ 4' (40.276450050 / -104.644526314)	09/06/22	4	0.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CS-FS-04 @ 4' (40.276405385 / -104.644529102)	09/06/22	4	0.4	<0.00067	<0.00067	<0.00067	<0.00067	0.000828	0.00234	0.00118	0.00155	0.00207	<0.00067	0.0017	<0.00067	0.0014	<0.00067	0.0022
MW-01 @ 2.5-5' (40.276562117 / -104.644501207)	10/13/22	2.5-5	3.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-02 @ 2.5-5' (40.276628485 / -104.644572364)	10/13/22	2.5-5	2.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-03 @ 2.5-5' (40.276530801 / -104.64441206)	10/13/22	2.5-5	2.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-04 @ 2.5-5' (40.276541392 / -104.644401104)	10/13/22	2.5-5	3.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-05 @ 2.5-5' (40.276482328 / -104.644504078)	10/13/22	2.5-5	3.4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-06 @ 2.5-5' (40.276530662 / -104.655607801)	10/13/22	2.5-5	4.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

ppm-v = parts per million by volume

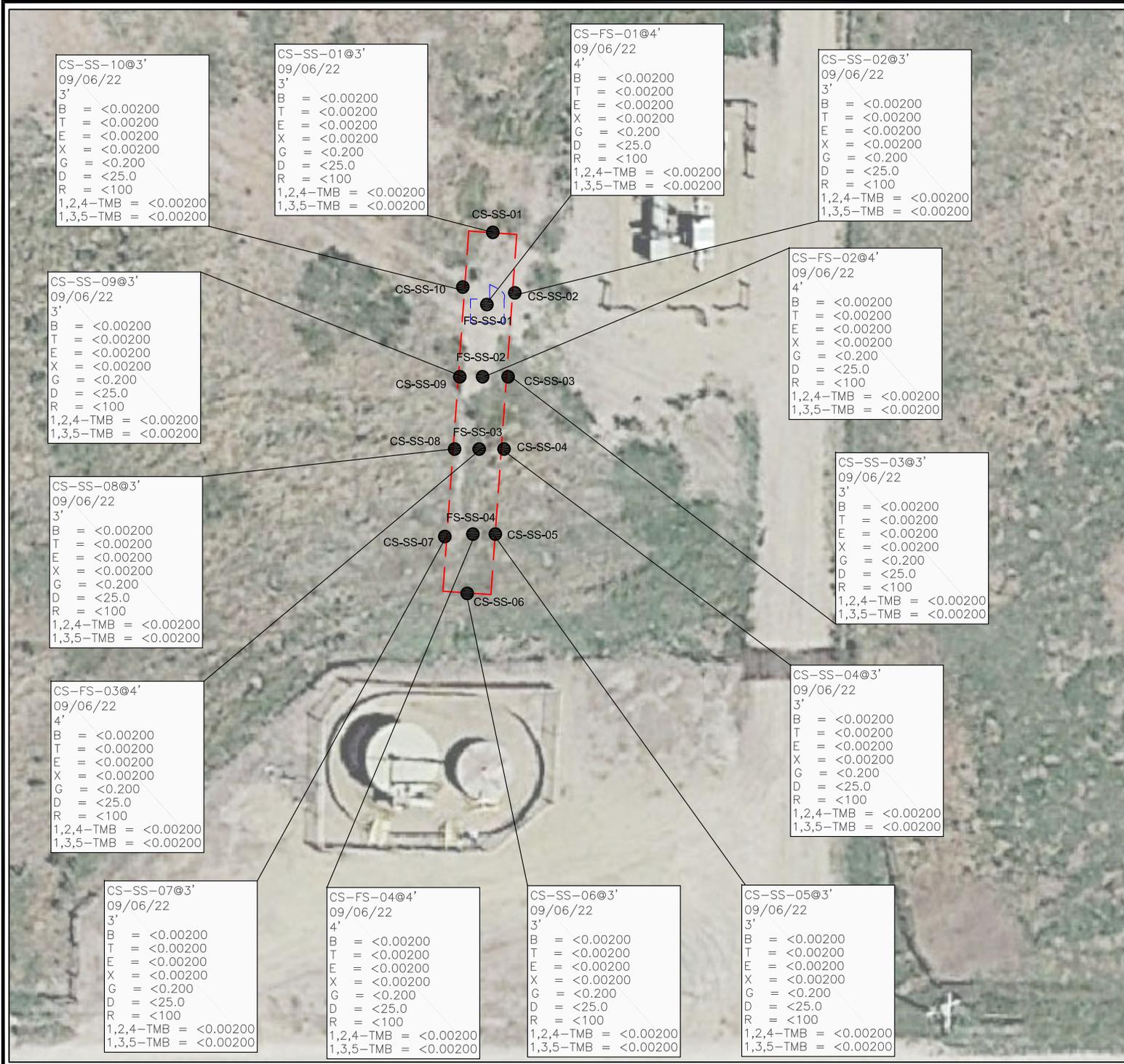
PID = Photoionization Detector

Notes:

Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Values presented in **BOLD** exceed applicable COGCC Table 915-1 Regulatory Limits

Values presented in **BOLD**+ asterisk (\*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels



**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

<b>SAMPLE LOCATION</b>	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)
R	= TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)	
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)	

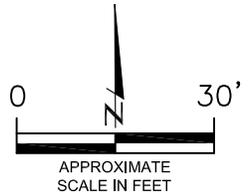
mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



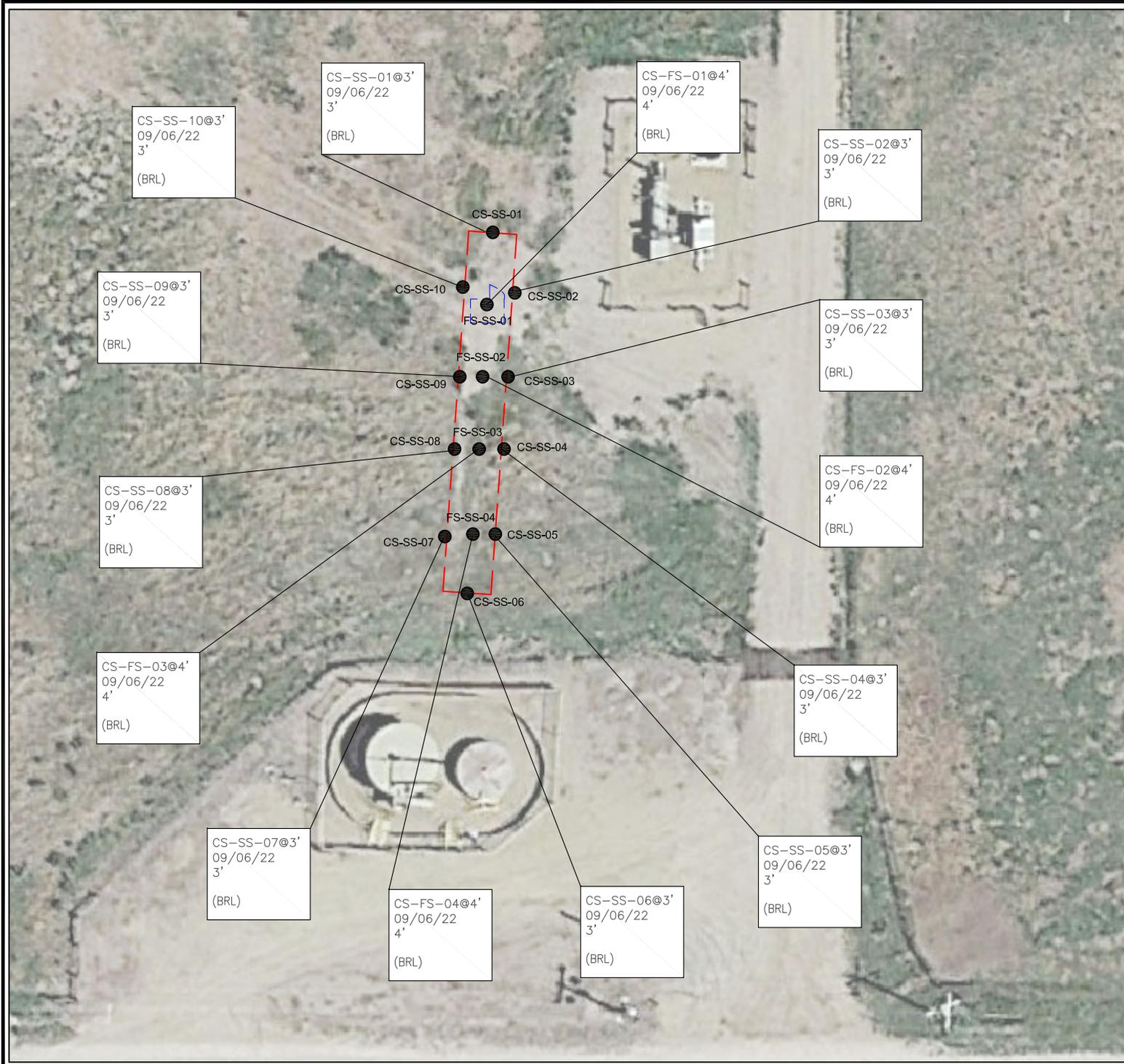
**SOIL ANALYTICAL MAP**  
 LIBSACK 4-8-27  
 VENT LINE RELEASE  
 40.276553 / -104.644507  
 SW¼ SE¼ SEC.27 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 310312  
 REMEDIATION # 23926

DATE:  
09/29/22

DRAWN BY:  
GEC

FIG. NO. 3

**EAGLE ENVIRONMENTAL CONSULTING, INC.**  
 8000 W 44th Ave., Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

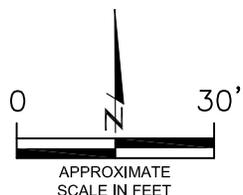
(BRL) = ALL CONCENTRATIONS ARE **BELOW REGULATORY LIMITS**

NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

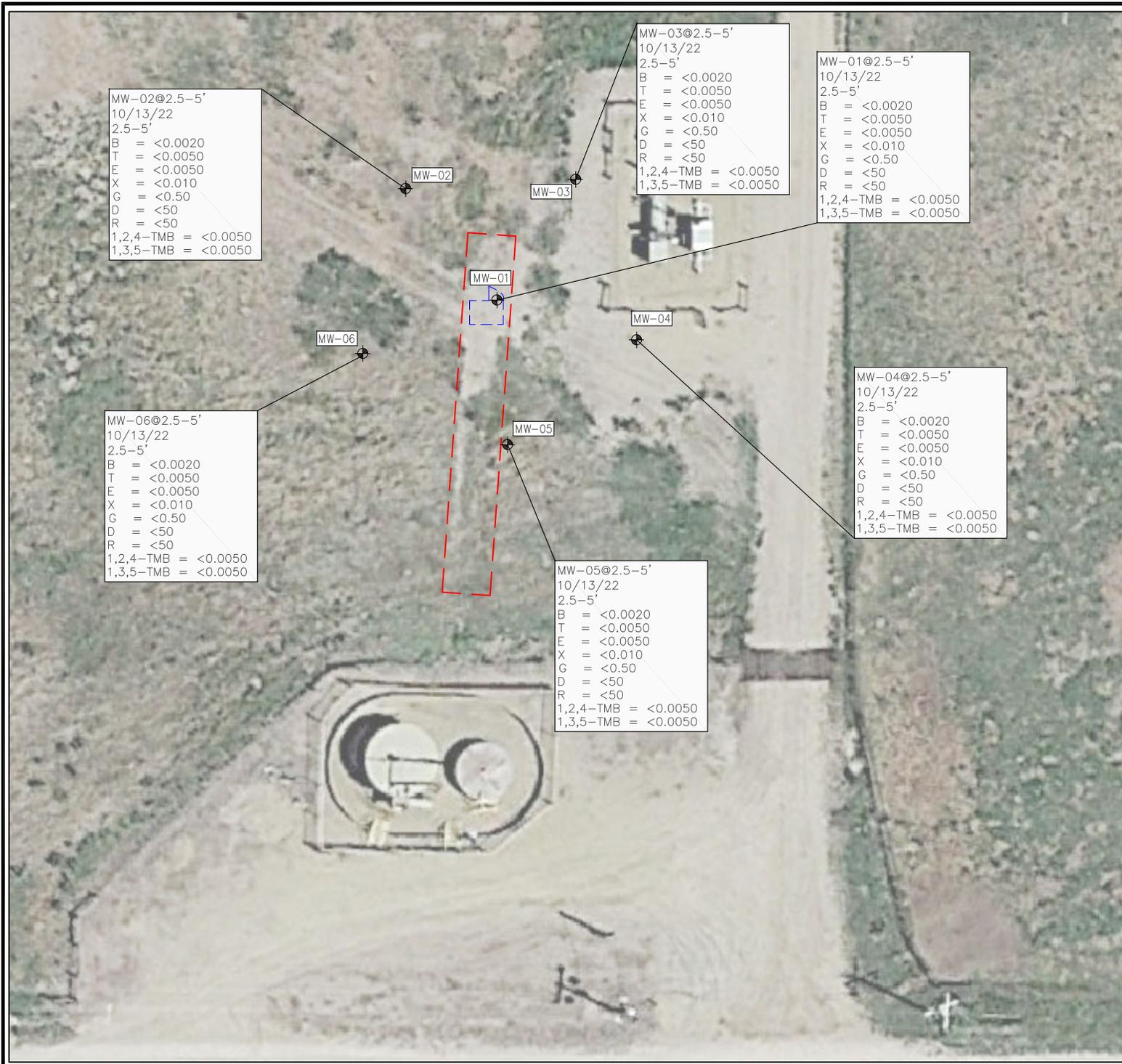
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



POLYCYCLIC AROMATIC HYDROCARBONS MAP  
LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SE¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMEDATION # 23926

DATE:  
09/29/22  
DRAWN BY:  
GEC  
FIG.  
NO. 4

**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave., Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



MW-02@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

MW-03@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

MW-01@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

MW-06@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

MW-05@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

MW-04@2.5-5'  
10/13/22  
2.5-5'  
B = <0.0020  
T = <0.0050  
E = <0.0050  
X = <0.010  
G = <0.50  
D = <50  
R = <50  
1,2,4-TMB = <0.0050  
1,3,5-TMB = <0.0050

**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS

**PARAMETERS**

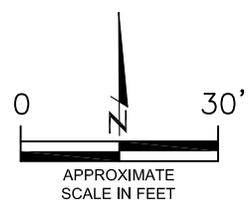
SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.  
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

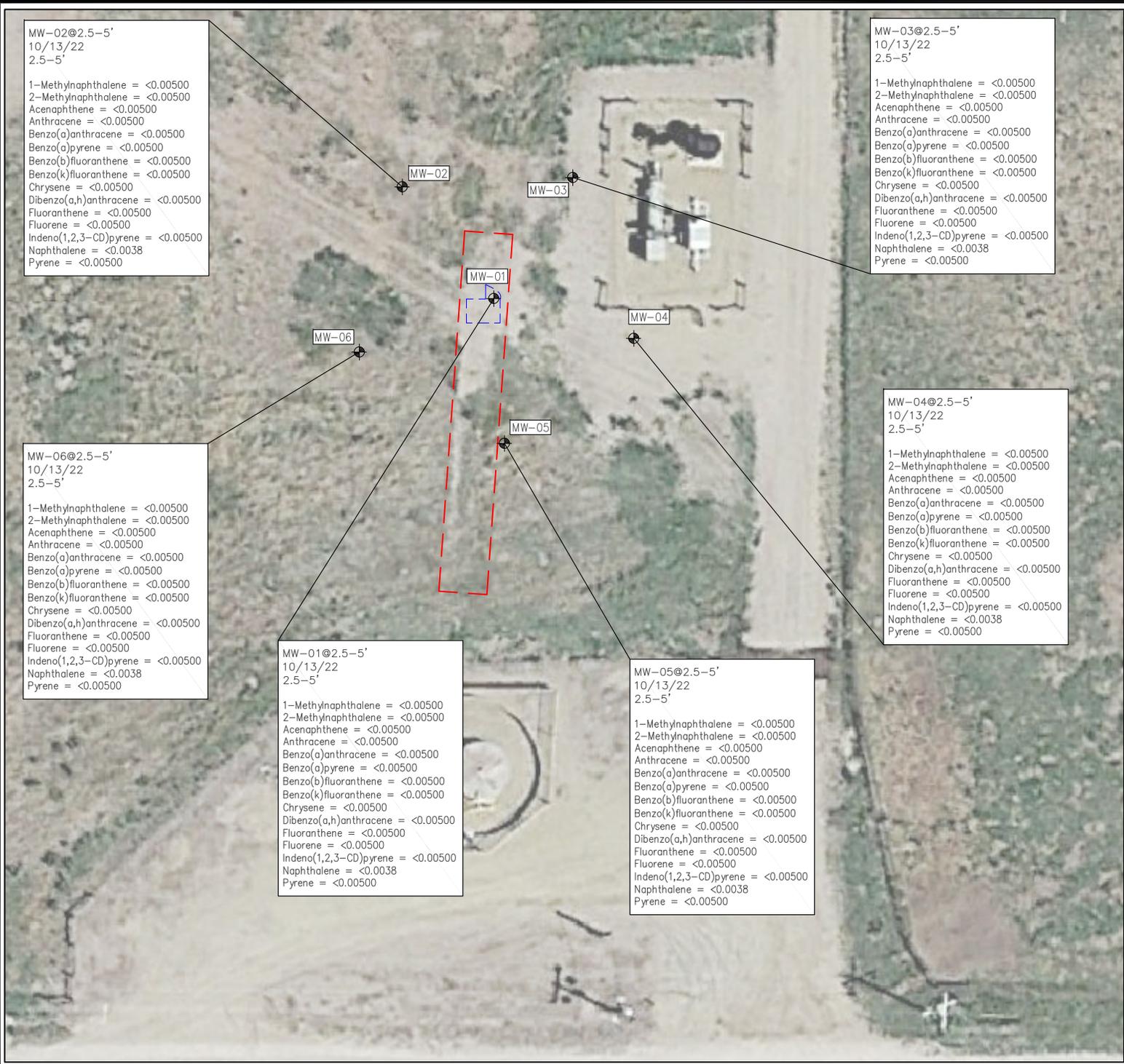


**MONITORING WELL SOIL ANALYTICAL MAP**

LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SE¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMIEDIATION # 23926

DATE:  
11/07/22  
DRAWN BY:  
TC  
FIG.  
NO. 3

**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave., Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



**LEGEND**

- INITIAL ASSESSMENT EXTENTS
- APPROXIMATE EXCAVATION EXTENTS
- APPROXIMATE MONITORING WELL LOCATIONS

**PARAMETERS**

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

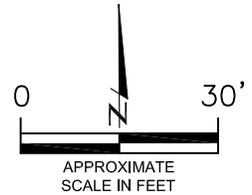
**POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)**

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



**MONITORING WELL POLYCYCLIC AROMATIC HYDROCARBONS MAP**

LIBSACK 4-8-27  
VENT LINE RELEASE  
40.276553 / -104.644507  
SW¼ SEC.27 T4N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 310312  
REMIEDIATION # 23926

DATE:  
11/07/22  
DRAWN BY:  
TC  
FIG.  
NO. 5

**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449