



FIGURES

Figure 1: Groundwater Analytical Map (04/04/24)

Figure 2: Groundwater Elevation Map (04/04/24)

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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)
C	= CHLORIDE (mg/L)
S	= SULFATE (mg/L)
TDS	= TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER
 mg/L = MILLIGRAMS 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 ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

GROUNDWATER ANALYTICAL MAP
 (04/04/24)

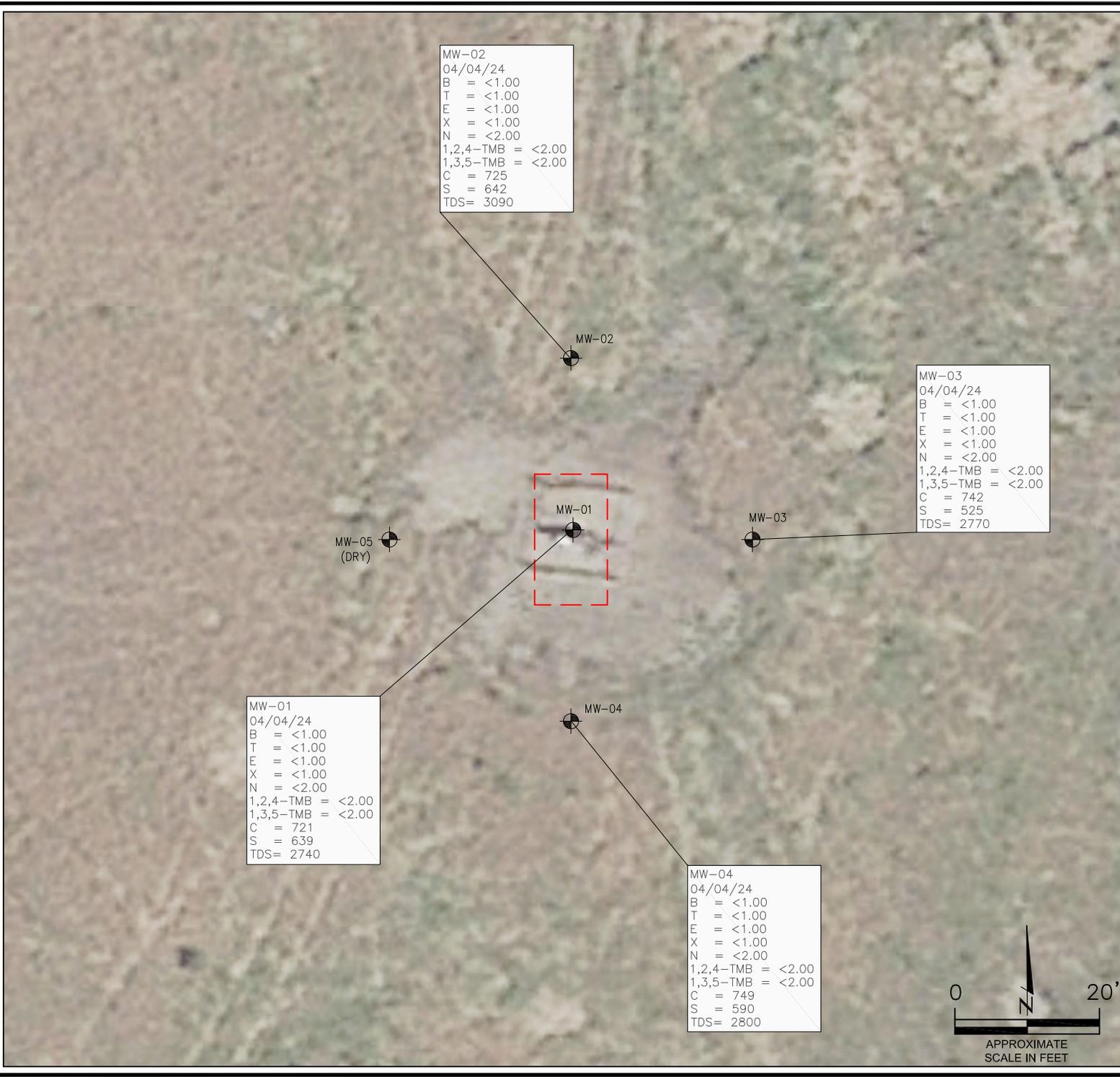
HUNTSMAN G #13-10
 HISTORICAL RELEASE
 40.310797 / -104.608747
 NW¼ SE¼ SEC.13 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14664
 REMEDIATION # 25096

FIGURE NO.
 1

DRAWN BY:
 ZM



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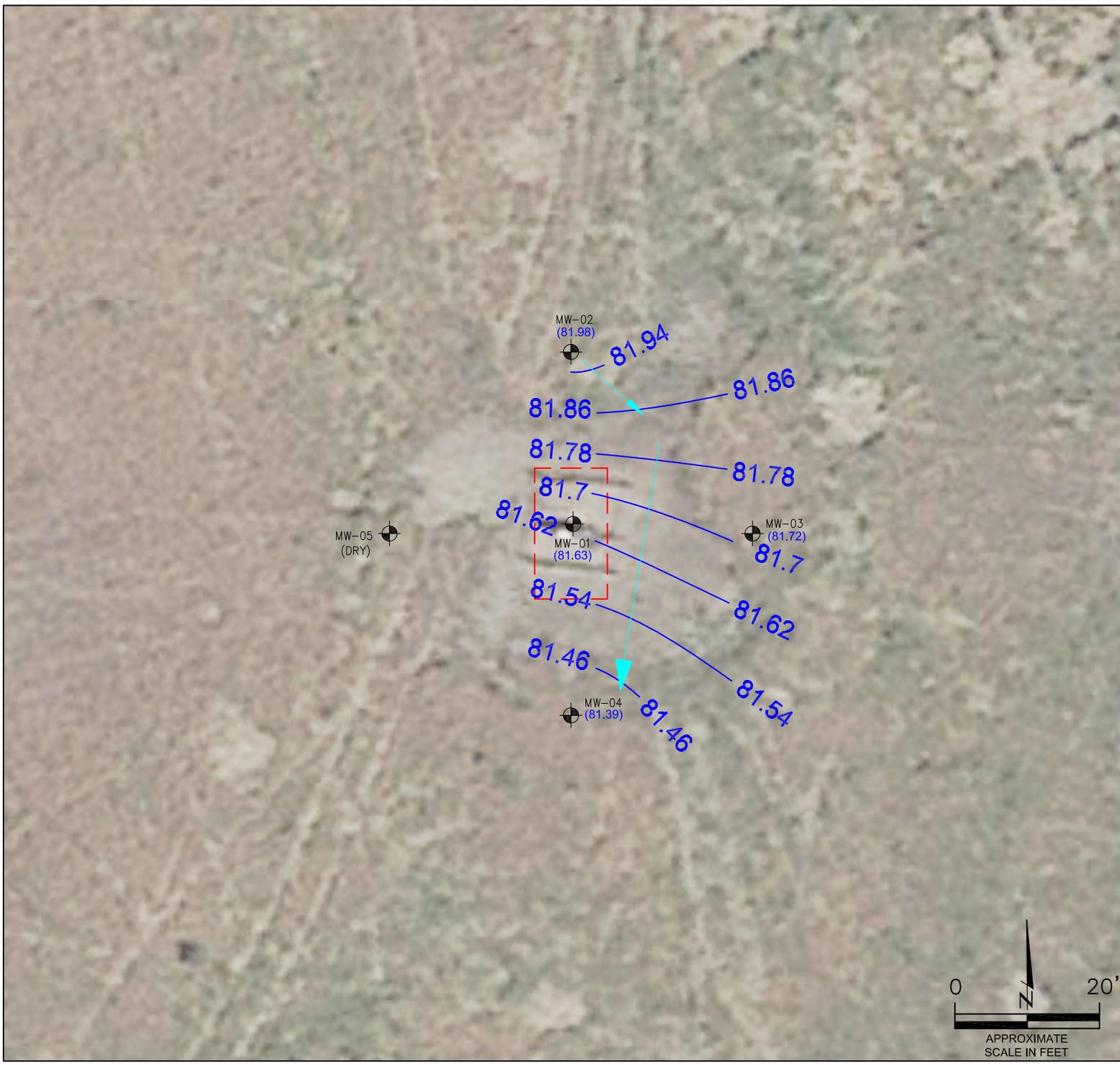
MW-02
 04/04/24
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 725
 S = 642
 TDS= 3090

MW-03
 04/04/24
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 742
 S = 525
 TDS= 2770

MW-01
 04/04/24
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 721
 S = 639
 TDS= 2740

MW-04
 04/04/24
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 749
 S = 590
 TDS= 2800





LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS
- (92.94) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTES:
GROUNDWATER ELEVATION DATA WAS COLLECTED ON
04/04/24.

HYDRAULIC GRADIENT = 0.012 FT./FT.

MW-05
(DRY)

MW-02
(81.98)

81.94
81.86
81.86

81.78
81.78

81.7
81.72
81.7

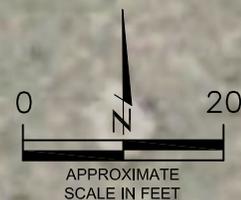
81.62
81.62
81.62

81.54
81.54

81.46
81.46

MW-04
(81.39)

MW-03
(81.72)



GROUNDWATER ELEVATION MAP
(04/04/24)
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW¼ SE¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-14664
REMEDIAION # 25096

FIGURE NO.
2

DRAWN BY:
ZM



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TABLES

Table 1: Groundwater Analytical Results Summary

Table 2: Inorganic Groundwater Parameters Summary

Table 3: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW1/4 SE1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDATION # 25096

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)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67
MW-01 (40.310811 / -104.608756)	10/17/23	<1.00	<1.00	2.88	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/04/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.310874 / -104.608760)	10/17/23	<1.00	<1.00	2.84	<1.00	<2.00	2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/04/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.310803 / -104.608669)	10/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/04/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.310742 / -104.608763)	10/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/04/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.310813 / -104.608848)	10/17/23	<1.00	<1.00	2.82	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/04/24	INA						

ECMC = Energy & Carbon Management 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 **bold** typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).



TABLE 2
INORGANIC GROUNDWATER PARAMETERS SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW1/4 SE1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDATION # 25096

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
<i>ECMC Table 915-1 Regulatory Limits (mg/L)</i>		<1.25xLocal Background (908)	<1.25xLocal Background (802)	<1.25xLocal Background (3462)
MW-01 (40.310811 / -104.608756)	10/17/23	754	625	2650
	01/19/24	677	462	2540
	04/04/24	721	639	2740
MW-02 (40.310874 / -104.608760)	10/17/23	727	567	2490
	01/19/24	676	440	2530
	04/04/24	725	642	3090
MW-03 (40.310803 / -104.608669)	10/17/23	755	449	2490
	01/19/24	710	367	2430
	04/04/24	742	525	2770
MW-04 (40.310742 / -104.608763)	10/17/23	763	573	2570
	01/19/24	688	393	2590
	04/04/24	749	590	2800
MW-05 (40.310813 / -104.608848)	10/17/23	639	451	2120
	01/19/24	NA		
	04/04/24	NA		

Notes:

ECMC = Energy & Carbon Management Commission

mg/L = milligrams per liter

Note: The Inorganic Groundwater Parameters of upgradient monitoring well MW-02, October 2023 & April 2024, were used in the determination of "local background range" at the site. Local "regulatory limit/range" (1.25*local background) presented (in parentheses).

Values presented in **bold** typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).



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 ENVIRONMENTAL
 CONSULTING, LLC

**TABLE 3
GROUNDWATER ELEVATION SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NE1/4 SW1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDIAATION # 25096**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.310811 / -104.608756)	10/17/23	99.25	16.53	82.72
	01/19/24		17.36	81.89
	04/04/24		17.62	81.63
MW-02 (40.310874 / -104.608760)	10/17/23	99.45	16.32	83.13
	01/19/24		17.46	81.99
	04/04/24		17.47	81.98
MW-03 (40.310803 / -104.608669)	10/17/23	100	17.38	82.62
	01/19/24		17.12	82.88
	04/04/24		18.28	81.72
MW-04 (40.310742 / -104.608763)	10/17/23	99.09	16.22	82.87
	01/19/24		17.17	81.92
	04/04/24		17.70	81.39
MW-05 (40.310813 / -104.608848)	10/17/23	99.17	16.60	82.57
	01/19/24		18.03	81.14
	04/04/24	DRY		
NOTES: TOC - top of casing				





ATTACHMENT A

Laboratory Analytical Reports



April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. April 04, 2024. This project is associated with Origins project number Y404158-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Huntsman G #13-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y404158-01	Water	April 4, 2024 14:08	04/04/2024 15:31
MW-02	Y404158-02	Water	April 4, 2024 14:00	04/04/2024 15:31
MW-03	Y404158-03	Water	April 4, 2024 14:15	04/04/2024 15:31
MW-04	Y404158-04	Water	April 4, 2024 14:25	04/04/2024 15:31

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1404188 Client: Eagle
 Client Project ID: Huntsman G
 Checklist Completed by: EAS Shipped Via: TD
 Date/time completed: 4/4/24 (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) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>NO</u>
Additional Comments (if any):				

⁽¹⁾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: JB (Project Manager)

Date/Time Reviewed: 4/8/24

Origins Laboratory, Inc.

J. Bynon

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-01

4/4/2024 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y404158-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0827	HK	04/08/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-02

4/4/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y404158-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0827	HK	04/08/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-03

4/4/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y404158-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0827	HK	04/08/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-04

4/4/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404158-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0827	HK	04/08/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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 B4D0827 - EPA 5030B (Water)

Blank (B4D0827-BLK1)

Prepared: 04/08/2024 Analyzed: 04/10/2024

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	55		"	62.5	88.1		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.7		70-130			

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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 B4D0827 - EPA 5030B (Water)

LCS (B4D0827-BS1)

Prepared: 04/08/2024 Analyzed: 04/10/2024

1,2,4-Trimethylbenzene	50.8	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	50.8	2.00	"	50.0		102	70-130			
Benzene	49.7	1.00	"	50.0		99.4	70-130			
Ethylbenzene	45.7	1.00	"	50.0		91.4	70-130			
m,p-Xylene	98.0	2.00	"	100		98.0	70-130			
Naphthalene	55.1	2.00	"	50.0		110	70-130			
o-Xylene	48.4	1.00	"	50.0		96.8	70-130			
Toluene	43.5	1.00	"	50.0		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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 B4D0827 - EPA 5030B (Water)

Matrix Spike (B4D0827-MS1)	Source: Y404158-01			Prepared: 04/08/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	49.3	2.00	ug/L	50.0	ND	98.6	70-130			
1,3,5-Trimethylbenzene	49.8	2.00	"	50.0	ND	99.5	70-130			
Benzene	48.8	1.00	"	50.0	ND	97.5	70-130			
Ethylbenzene	44.6	1.00	"	50.0	ND	89.1	70-130			
m,p-Xylene	94.8	2.00	"	100	ND	94.8	70-130			
Naphthalene	50.9	2.00	"	50.0	ND	102	70-130			
o-Xylene	47.0	1.00	"	50.0	ND	93.9	70-130			
Toluene	42.5	1.00	"	50.0	ND	84.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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 B4D0827 - EPA 5030B (Water)

Matrix Spike Dup (B4D0827-MSD1)	Source: Y404158-01			Prepared: 04/08/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	62.4	2.00	ug/L	50.0	ND	125	70-130	23.5	20	QR-02
1,3,5-Trimethylbenzene	63.5	2.00	"	50.0	ND	127	70-130	24.3	20	QR-02
Benzene	61.4	1.00	"	50.0	ND	123	70-130	22.8	20	QR-02
Ethylbenzene	56.8	1.00	"	50.0	ND	114	70-130	24.2	20	QR-02
m,p-Xylene	121	2.00	"	100	ND	121	70-130	24.2	20	QR-02
Naphthalene	68.3	2.00	"	50.0	ND	137	70-130	29.1	20	QM-07
o-Xylene	60.0	1.00	"	50.0	ND	120	70-130	24.4	20	QR-02
Toluene	54.0	1.00	"	50.0	ND	108	70-130	23.9	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Huntsman G #13-10

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



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.



April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. April 04, 2024. This project is associated with Origins project number Y404159-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Huntsman G #13-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y404159-01	Water	April 4, 2024 14:08	04/04/2024 15:31
MW-02	Y404159-02	Water	April 4, 2024 14:00	04/04/2024 15:31
MW-03	Y404159-03	Water	April 4, 2024 14:15	04/04/2024 15:31
MW-04	Y404159-04	Water	April 4, 2024 14:25	04/04/2024 15:31

Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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

Sample Receipt Checklist

Origins Work Order: 1404159 Client: Eagle
 Client Project ID: Huntsman G

Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 4/14/24 (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) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾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 [Signature] (Project Manager) Date/Time Reviewed 4/18/24

Origins Laboratory, Inc.


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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-01

4/4/2024 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y404159-01 (Water)**

Anions by IC 300.0

Chloride	721	31.2	mg/L	125	B4D0925	DLT	04/09/2024	04/11/2024	
Sulfate	639	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2740	5.00	"	1	B4D0813	VK	04/08/2024	04/11/2024	
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Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-02

4/4/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404159-02 (Water)

Anions by IC 300.0

Chloride	725	31.2	mg/L	125	B4D0925	DLT	04/09/2024	04/11/2024	
Sulfate	642	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	3090	5.00	"	1	B4D0813	VK	04/08/2024	04/11/2024	
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Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-03

4/4/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404159-03 (Water)

Anions by IC 300.0

Chloride	742	31.2	mg/L	125	B4D0925	DLT	04/09/2024	04/11/2024	
Sulfate	525	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2770	5.00	"	1	B4D0813	VK	04/08/2024	04/11/2024	
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Origins Laboratory, Inc.



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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

MW-04

4/4/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404159-04 (Water)

Anions by IC 300.0

Chloride	749	31.2	mg/L	125	B4D0925	DLT	04/09/2024	04/11/2024	
Sulfate	590	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2800	5.00	"	1	B4D0813	VK	04/08/2024	04/11/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0813 - NO PREP										
Blank (B4D0813-BLK1)					Prepared: 04/08/2024 Analyzed: 04/11/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4D0813-BS1)					Prepared: 04/08/2024 Analyzed: 04/11/2024					
Total Dissolved Solids	1040	5.00	mg/L	1040		99.8	90-110			
Duplicate (B4D0813-DUP1)		Source: Y404145-06			Prepared: 04/08/2024 Analyzed: 04/11/2024					
Total Dissolved Solids	1000	5.00	mg/L		1000			0.00	10	
Batch B4D0925 - Filter .45um non acidified										
Blank (B4D0925-BLK1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4D0925-BS1)					Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	4.26	0.250	mg/L	4.00		107	90-110			
Sulfate	4.14	0.250	"	4.00		104	90-110			
Matrix Spike (B4D0925-MS1)		Source: Y404148-04			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	770		mg/L	500	317	90.6	90-110			
Sulfate	1220		"	500	836	76.9	90-110			QM-07
Matrix Spike Dup (B4D0925-MSD1)		Source: Y404148-04			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Chloride	778		mg/L	500	317	92.3	90-110	1.08	5	
Sulfate	1230		"	500	836	78.9	90-110	0.804	5	QM-07

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Huntsman G #13-10

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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Jordan A. Bynon, Project Manager