



FIGURES

Figure 1: Groundwater Analytical Map (01/19/24)

Figure 2: Groundwater Elevation Map (01/19/24)

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

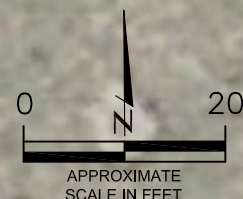
GROUNDWATER ANALYTICAL MAP
(01/19/24)
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW¼ SE¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-14664
REMEDATION # 25096

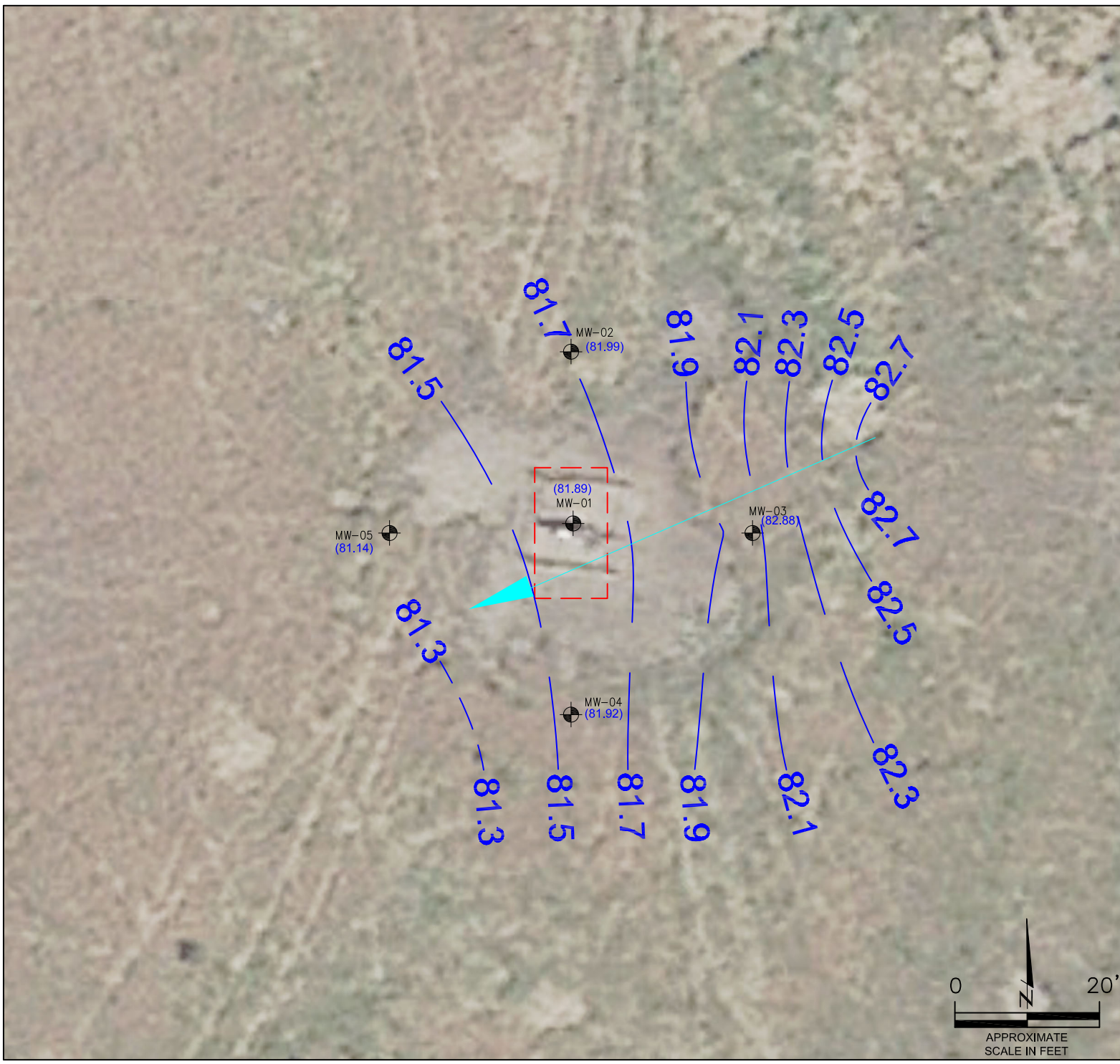
FIGURE NO.
1

DRAWN BY:
ZM



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





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
01/19/24.

HYDRAULIC GRADIENT = 0.035 FT./FT.

GROUNDWATER ELEVATION MAP
(01/19/24)
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW¼ SE¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-14664
REMEDATION # 25096

FIGURE NO.
2

DRAWN BY:
ZM



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: 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
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
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
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
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

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).

Values presented in **bold**+ asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels



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
REMEDIATION # 25096

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
ECMC Table 915-1 Regulatory Limits (mg/L)		<1.25xLocal Background (908)	<1.25xLocal Background (708)	<1.25xLocal Background (3112)
MW-01 (40.310811 / -104.608756)	10/17/23	754	625	2650
	01/19/24	677	462	2540
MW-02 (40.310874 / -104.608760)	10/17/23	727	567	2490
	01/19/24	676	440	2530
MW-03 (40.310803 / -104.608669)	10/17/23	755	449	2490
	01/19/24	710	367	2430
MW-04 (40.310742 / -104.608763)	10/17/23	763	573	2570
	01/19/24	688	393	2590
MW-05 (40.310813 / -104.608848)	10/17/23	639	451	2120
	01/19/24	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, 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).



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
REMEDATION # 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
MW-02 (40.310874 / -104.608760)	10/17/23	99.45	16.32	83.13
	01/19/24		17.46	81.99
MW-03 (40.310803 / -104.608669)	10/17/23	100	17.38	82.62
	01/19/24		17.12	82.88
MW-04 (40.310742 / -104.608763)	10/17/23	99.09	16.22	82.87
	01/19/24		17.17	81.92
MW-05 (40.310813 / -104.608848)	10/17/23	99.17	16.60	82.57
	01/19/24		18.03	81.14
NOTES: TOC - top of casing				



ATTACHMENT A

Laboratory Analytical Reports



February 12, 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. January 19, 2024. This project is associated with Origins project number Y401468-01.

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	Y401468-01	Water	January 19, 2024 12:00	01/19/2024 14:50
MW-02	Y401468-02	Water	January 19, 2024 12:40	01/19/2024 14:50
MW-03	Y401468-03	Water	January 19, 2024 12:50	01/19/2024 14:50
MW-04	Y401468-04	Water	January 19, 2024 12:20	01/19/2024 14:50

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

440468

page of

Client: Eagle Environmental Consulting

Project Manager: Andrew Newberry

Address: 9000 W 44th Ave

Project Name: Huntsman G # 13-10

Wheat Ridge, CO 80033

Project Number: 1

Telephone Number: 303-453-0412

Samples Collected By: HM

Email Address: newberry@eagle-enviro.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
MW-01	1/19/14	12:00	1	X				X				MDLs needed	1
MW-02		12:40	1										2
MW-03		12:50	1										3
MW-04		12:10	1										4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Andrew P. Haddell	1/19/14	1450	[Signature]	1/19/14	1450	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
						48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
						Standard <input checked="" type="checkbox"/>

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Bill to Dan

Temp Received -

3.0

Date Results Needed

Noble

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: 4401468

Client: Eagle

Client Project ID: Huntsman G 13-10

Checklist Completed by: EHS

Shipped Via: LID

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

Date/time completed: 1/19/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 3.6 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 (Project Manager) [Signature]

1/22/24
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

1/19/2024 12:00:00PM

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

Origins Laboratory, Inc. Y401468-01 (Water)

Anions by IC 300.0

Chloride	677	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	462	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2540	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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

1/19/2024 12:40:00PM

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

Origins Laboratory, Inc. Y401468-02 (Water)

Anions by IC 300.0

Chloride	676	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	440	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2530	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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

1/19/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y401468-03 (Water)

Anions by IC 300.0

Chloride	710	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	367	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2430	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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

1/19/2024 12:20:00PM

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

Origins Laboratory, Inc. Y401468-04 (Water)

Anions by IC 300.0

Chloride	688	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	393	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2590	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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

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 B4A2217 - NO PREP										
Blank (B4A2217-BLK1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B4A2217-BS1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Total Dissolved Solids	996	5.00	mg/L	1030		96.7	90-110			
Duplicate (B4A2217-DUP1)					Source: Y401454-08		Prepared: 01/22/2024 Analyzed: 01/23/2024			
Total Dissolved Solids	12200	5.00	mg/L		12100			1.18	10	
Batch B4A2305 - Filter .45um non acidified										
Blank (B4A2305-BLK1)					Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B4A2305-BS1)					Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	3.78	0.250	mg/L	4.00		94.4	90-110			
Sulfate	3.86	0.250	"	4.00		96.4	90-110			
Matrix Spike (B4A2305-MS1)					Source: Y401474-01		Prepared: 01/23/2024 Analyzed: 01/25/2024			
Chloride	1040		mg/L	500	616	84.6	90-110			QM-07
Sulfate	3500		"	500	2860	130	90-110			QM-07
Matrix Spike Dup (B4A2305-MSD1)					Source: Y401474-01		Prepared: 01/23/2024 Analyzed: 01/25/2024			
Chloride	1030		mg/L	500	616	83.4	90-110	0.543	5	QM-07
Sulfate	3500		"	500	2860	129	90-110	0.107	5	QM-07

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

Notes and Definitions

U Sample is Non-Detect.

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.



January 30, 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. January 19, 2024. This project is associated with Origins project number Y401470-01.

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	Y401470-01	Water	January 19, 2024 12:00	01/19/2024 14:50
MW-02	Y401470-02	Water	January 19, 2024 12:40	01/19/2024 14:50
MW-03	Y401470-03	Water	January 19, 2024 12:50	01/19/2024 14:50
MW-04	Y401470-04	Water	January 19, 2024 12:20	01/19/2024 14:50
MW-05	Y401470-05	Water	January 19, 2024 13:00	01/19/2024 14:50

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.

Jordan A. Bynon, Project Manager

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: 4401470

Client: Eagle

Client Project ID: Huntsman G 13-10

Checklist Completed by: EHS

Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/19/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 1 3.0 °C 1 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
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 (Project Manager)

Date/Time Reviewed 1/22/24

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

1/19/2024 12:00:00PM

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

Origins Laboratory, Inc. Y401470-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	107 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	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

MW-02

1/19/2024 12:40:00PM

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

Origins Laboratory, Inc. Y401470-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	109 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	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-03

1/19/2024 12:50:00PM

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

Origins Laboratory, Inc. Y401470-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.2 %	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

1/19/2024 12:20:00PM

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

Origins Laboratory, Inc. Y401470-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	112 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	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-05

1/19/2024 1:00:00PM

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

Origins Laboratory, Inc. Y401470-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	110 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	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

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
Batch B4A2220 - EPA 5030B (Water)										
Blank (B4A2220-BLK1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
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	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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
Batch B4A2220 - EPA 5030B (Water)										
LCS (B4A2220-BS1)					Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	47.3	2.00	ug/L	50.0		94.7	70-130			
1,3,5-Trimethylbenzene	47.5	2.00	"	50.0		94.9	70-130			
Benzene	42.0	1.00	"	50.0		83.9	70-130			
Ethylbenzene	45.4	1.00	"	50.0		90.8	70-130			
m,p-Xylene	89.9	2.00	"	100		89.9	70-130			
Naphthalene	41.0	2.00	"	50.0		82.0	70-130			
o-Xylene	44.0	1.00	"	50.0		88.0	70-130			
Toluene	45.2	1.00	"	50.0		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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
Batch B4A2220 - EPA 5030B (Water)										
Matrix Spike (B4A2220-MS1)		Source: Y401470-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	50.6	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0	ND	105	70-130			
Benzene	55.2	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	51.2	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
Naphthalene	36.7	2.00	"	50.0	ND	73.4	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Toluene	52.2	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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
Batch B4A2220 - EPA 5030B (Water)										
Matrix Spike Dup (B4A2220-MSD1)			Source: Y401470-01		Prepared: 01/22/2024 Analyzed: 01/22/2024					
1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0	ND	103	70-130	1.99	20	
1,3,5-Trimethylbenzene	54.0	2.00	"	50.0	ND	108	70-130	3.18	20	
Benzene	57.8	1.00	"	50.0	ND	116	70-130	4.69	20	
Ethylbenzene	53.3	1.00	"	50.0	ND	107	70-130	3.96	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	5.42	20	
Naphthalene	40.0	2.00	"	50.0	ND	79.9	70-130	8.53	20	
o-Xylene	50.7	1.00	"	50.0	ND	101	70-130	4.77	20	
Toluene	55.7	1.00	"	50.0	ND	111	70-130	6.45	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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

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.



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.