

May 2, 2024

## Noble Energy Inc. – HSR Fischer 6-23

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### Groundwater Monitoring Report

NWNE Sec 23, T4N, R65W

40.305000, -104.630639

Weld County, Colorado

Fremont Project No. C024-016

Facility # 309888, Remediation #34710

### Site Overview – Site History

Historical soil and groundwater impacts were identified at the site of the former Noble HSR Fischer 6-23 tank battery (HSR Fischer) on January 19, 2024 while potholing for the RBU Madison pipeline. On January 29, 2024, a site investigation was conducted to delineate the extent of soil and groundwater at the HSR Fischer site. Fourteen monitoring wells were installed during the initial site investigation.

On March 5, 2024, the pipeline installation crews installed a 20-inch diameter pipeline through the former HSR Fischer tank battery location. The scope of work included removal and offsite disposal of clean and impacted soil while trenching through the former location. The intent of the excavation was to accommodate installation of the pipeline rather than removing all impacted soil. Approximately 380 cubic yards of clean and impacted soil were excavated and transported to Waste Management's Buffalo Ridge landfill. During the March 5, 2024 pipeline installation project and subsequent reclamation work, 12 of the 14 monitoring wells were destroyed or damaged. The 14 monitoring well network was re-installed on March 2, 2024 and groundwater samples were collected on March 3, 2024.

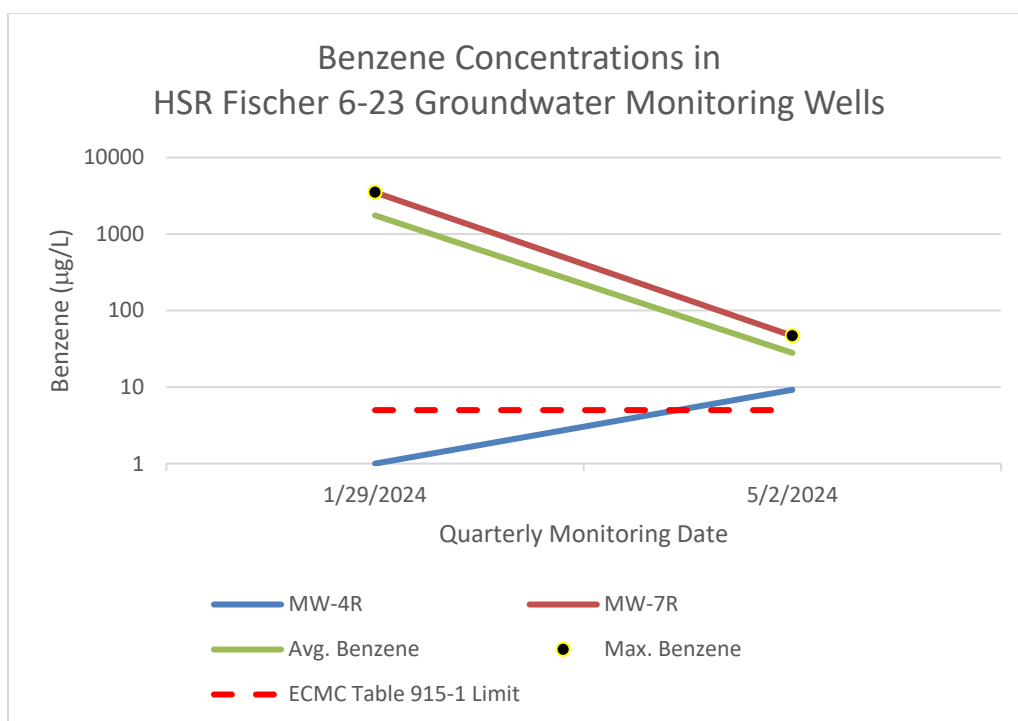
### Conceptual Site Model\*

\*Data presented represents the most recent sampling event

- **Land Use** – Rangeland
- **Soil Type (USCS)** – SP
- **Potential Receptors within ¼ mile** – Surface water within 1000 ft
- **Inferred Groundwater Gradient (Ft/Ft) and Flow Direction** – 0.001 ft/ft east
- **Impacted Media and Extent** – Groundwater, soil
- **LNAPL Present** – no
- **Points of Compliance** – Yes, in all cardinal and ordinal directions
- **Number of Consecutive ECMC Compliant Quarters** – zero
- **Remediation Type** – MNA
- **Remediation System Operation Date(s)** – NA

### Contaminants of Concern (COC)

The laboratory data indicate that the dissolved phase organic constituents were below their respective ECMC Table 915-1 standards in 12 of 14 wells sampled during the May 2024 quarterly monitoring event. Two monitoring wells exceeded the ECMC Table 915-1 standards of 5 µg/L for benzene. The groundwater analytical data are summarized in Table 1 and illustrated on Figure 4. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.



## Remedial Actions

Monitored natural attenuation (MNA) will be implemented at the site to address dissolved phase groundwater impacts. A no further action designation will be requested from the ECMC following observation of four consecutive quarters of groundwater compliant with the applicable ECMC Table 915-1 standards, under static conditions, at the site. The Q2 2024 sampling event marks the zero consecutive quarters of ECMC-compliant groundwater at the site. The Operator is currently evaluating options to address impacted soil left in situ.

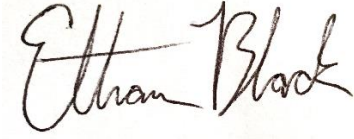
## Remarks

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Please contact me at (603) 477-6907 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



5/2/24

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black, PG

Geologist

Reviewed by:



5/2/24

Date \_\_\_\_\_

\_\_\_\_\_  
Paul V. Henehan, PE

Senior Consultant

Attachments:

Tables

Figures

Laboratory Report

TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
NOBLE ENERGY INC.  
HSR FISCHER 6-23, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C024-016

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-1	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.78	3.24	93.54	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.97	2.95	97.02	NP
MW-2 MW-2R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.45	2.86	93.59	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.59	2.54	97.05	NP
MW-3 MW-3R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.58	2.97	93.61	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.67	2.55	97.12	NP
MW-4 MW-4R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.47	2.91	93.56	NP
	5/2/2024	9.21	<1.00	7.32	81.4	<2.00	18.3	10.3	99.73	2.70	97.03	NP
MW-5 MW-5R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.66	5.96	93.70	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.88	3.86	96.02	NP
MW-6 MW-6R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.34	5.80	93.54	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	2.41	<2.00	99.76	2.77	96.99	NP
MW-7 MW-7R	1/29/2024	3500	<1.0	550	5600	94	790	430	99.69	6.14	93.55	NP
	5/2/2024	46.7	<1.00	13.7	175	<2.00	28.4	18.8	99.65	2.62	97.03	NP
MW-8	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.21	5.77	93.44	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.74	2.90	96.84	NP
MW-9	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.78	6.46	93.32	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NF	3.17	NM	NP
MW-10 MW-10R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.82	6.52	93.30	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	100.00	3.25	96.75	NP
MW-11 MW-11R	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.87	5.39	93.48	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.39	2.45	96.94	NP
MW-12	1/29/2024	<1.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	96.61	3.03	93.58	NP
	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.81	2.75	97.06	NP

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-13	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.11	5.64	93.47	NP
MW-13R	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.46	2.57	96.89	NP
MW-14	1/29/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.00	6.52	93.48	NP
MW-14R	5/2/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.54	2.56	96.98	NP

Bold face values exceed the ECMC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measureable LNAPL

NA - Not Analyzed

**TABLE 2**  
**SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**HSR FISCHER 6-23, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C024-106**

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background (MW-5R)		3988	678	1800
MW-1	1/29/2024	2570	435	942
	5/2/2024	2410	468	1100
MW-2 MW-2R	1/29/2024	2400	411	929
	5/2/2024	2260	434	998
MW-3 MW-3R	1/29/2024	3310	554	1390
	5/2/2024	3190	542	1440
MW-4 MW-4R	1/29/2024	2270	406	830
	5/2/2024	2380	443	1100
MW-5 MW-5R	1/29/2024	2180	393	775
	5/2/2024	1840	362	838
MW-6 MW-6R	1/29/2024	2450	451	928
	5/2/2024	2520	494	1150
MW-7 MW-7R	1/29/2024	2170	409	409
	5/2/2024	2360	467	948
MW-8	1/29/2024	2110	394	838
	5/2/2024	2260	432	1050
MW-9	1/29/2024	1930	340	701
	5/2/2024	1940	392	800
MW-10 MW-10R	1/29/2024	2160	367	694
	5/2/2024	2120	386	814

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background (MW-5R)		3988	678	1800
MW-11	1/29/2024	2380	430	462
MW-11R	5/2/2024	2610	584	890
MW-12	1/29/2024	2230	411	840
	5/2/2024	2240	421	995
MW-13	1/29/2024	2910	517	1090
MW-13R	5/2/2024	2640	474	1170
MW-14	1/29/2024	2140	400	778
MW-14R	5/2/2024	2220	448	1070

Bold face values exceed the ECMC limits

Assume MW-3 is the upgradient/cross gradient well

Yellow highlighted 915-1 Limits indicate the referenced groundwater screening level

DES - Destroyed

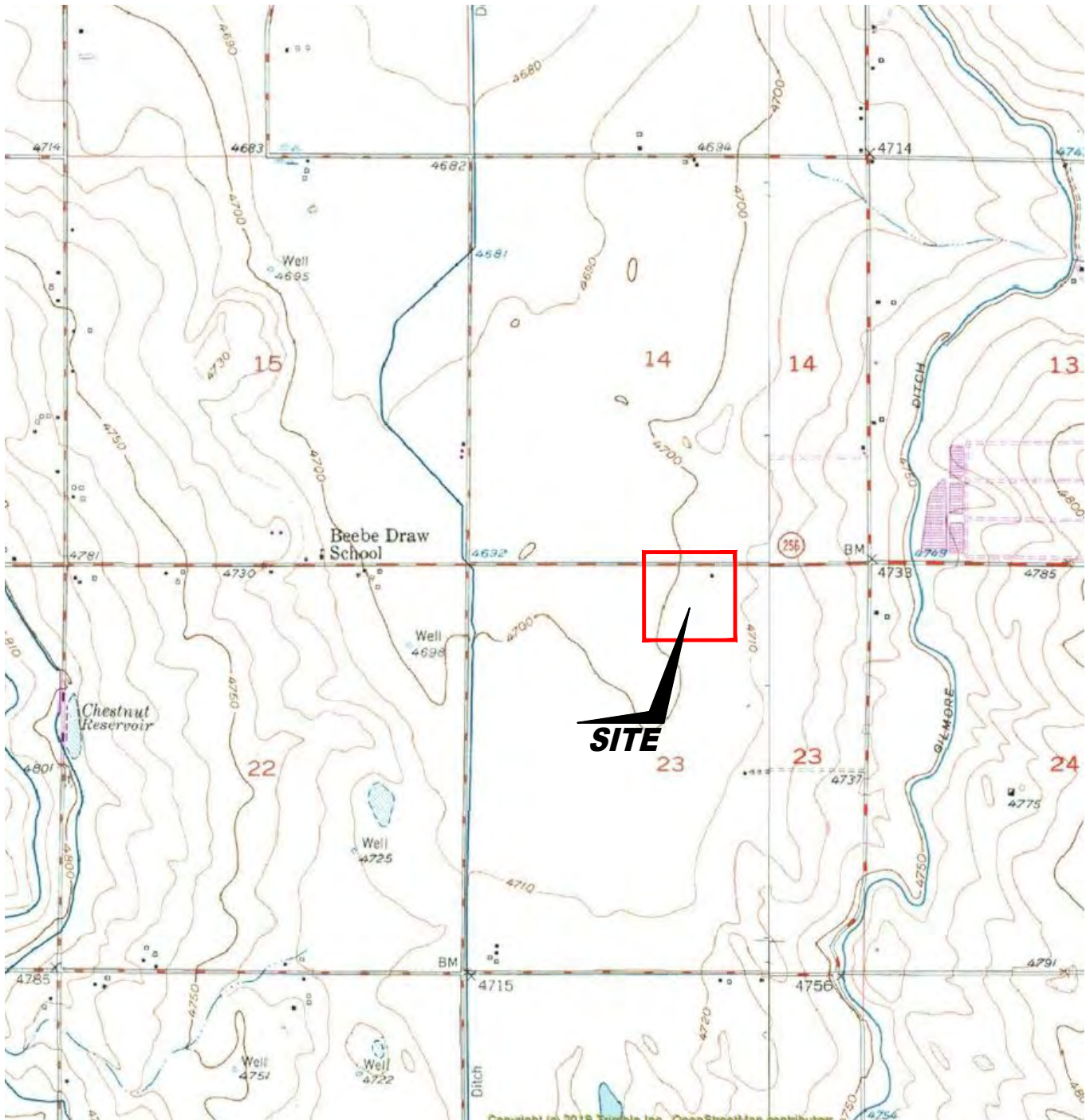


Figure 1  
**SITE LOCATION MAP**

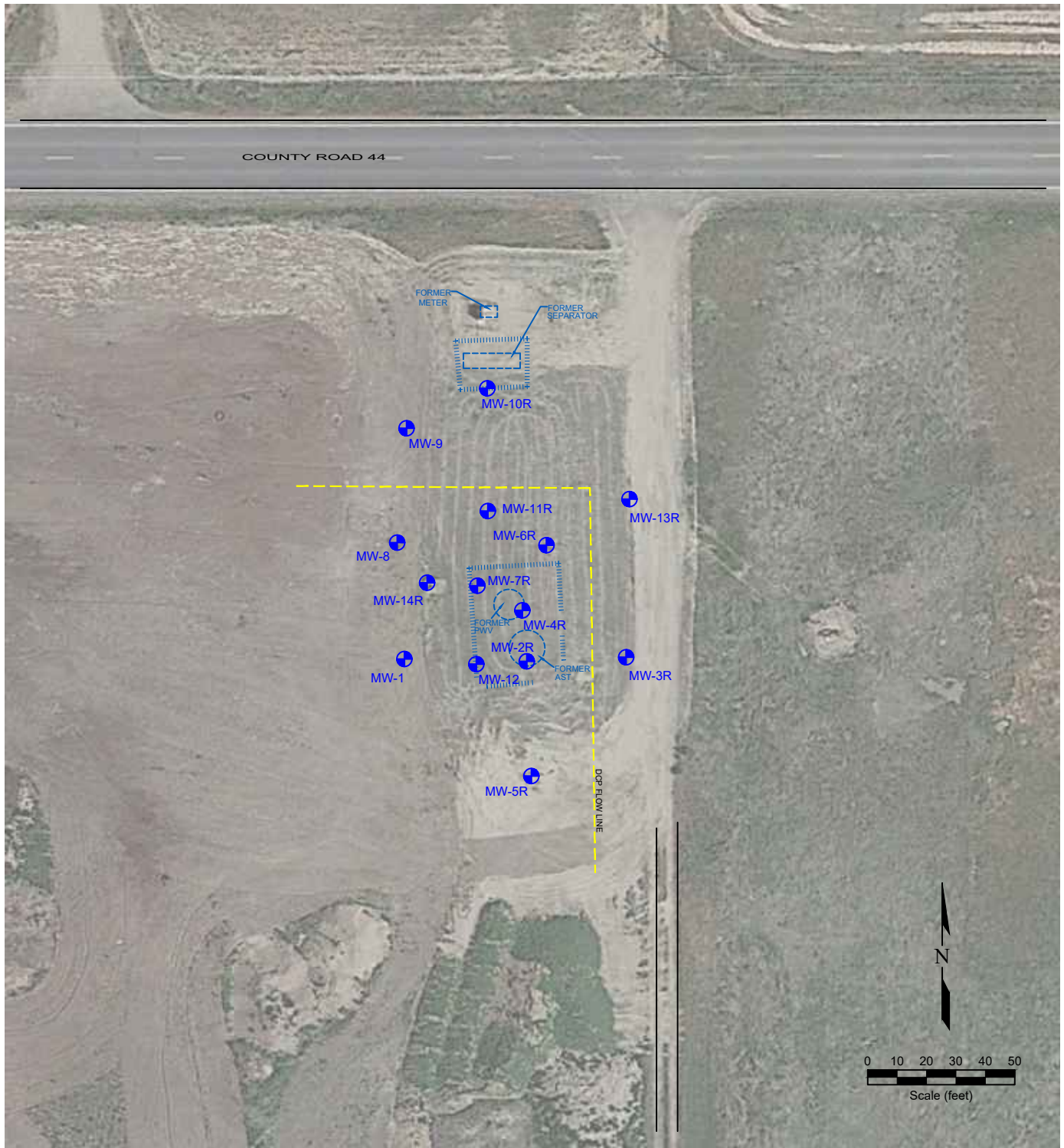
**Noble Energy, Inc. ~ HSR Fisher 6-23**  
NWNE, Sec 23, T4N, R65W, 6th P.M.  
Weld County, Colorado  
40.30500 ° -104.630639 °

Project No. <b>CO24-016</b>	API #	Facility # <b>309888</b>
Date <b>7/1/24</b>	Remediation #	Filename <b>24016T</b>



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)





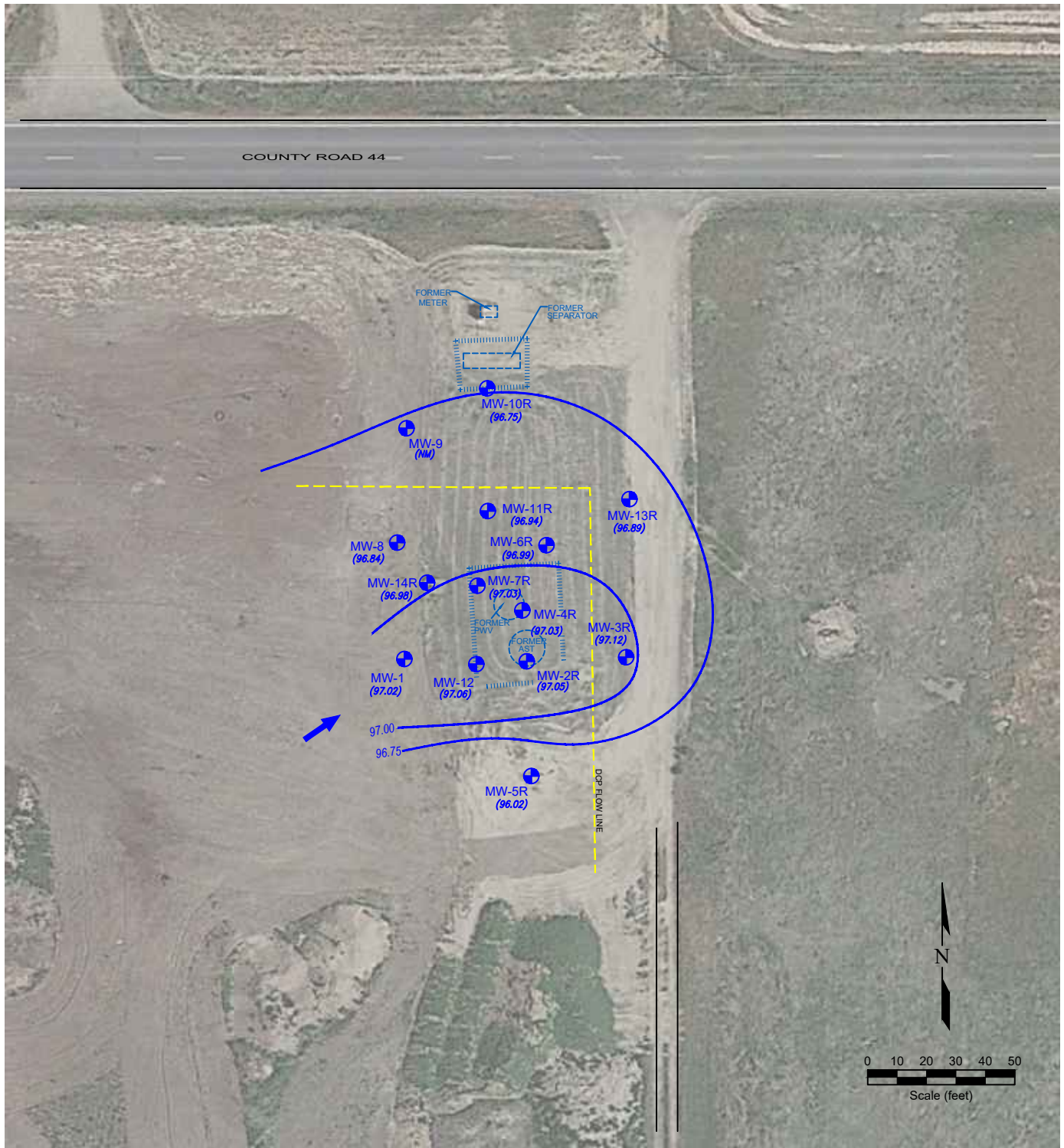
# LEGEND

	MONITORING WELL		ABOVE GROUND STORAGE TANK		FORMER FACILITY		DCP FLOW LINE
							FENCE LINE
							CONTAINMENT BERM
							CONTAINMENT WALL

Figure 2  
SITE MAP

**Noble Energy, Inc. ~ HSR Fisher 6-23**  
 NWNE, Sec 23, T4N, R65W, 6th P.M.  
 Weld County, Colorado  
 40.30500 ° -104.630639 °

Project No. <b>CO24-016</b>	API #	Facility # <b>309888</b>	
Date <b>7/1/24</b>	Remediation #	Filename <b>24016Q</b>	



#### LEGEND

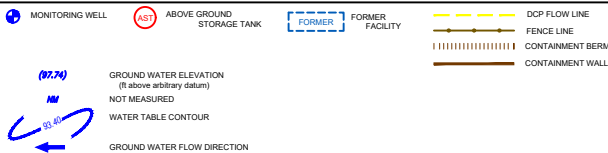
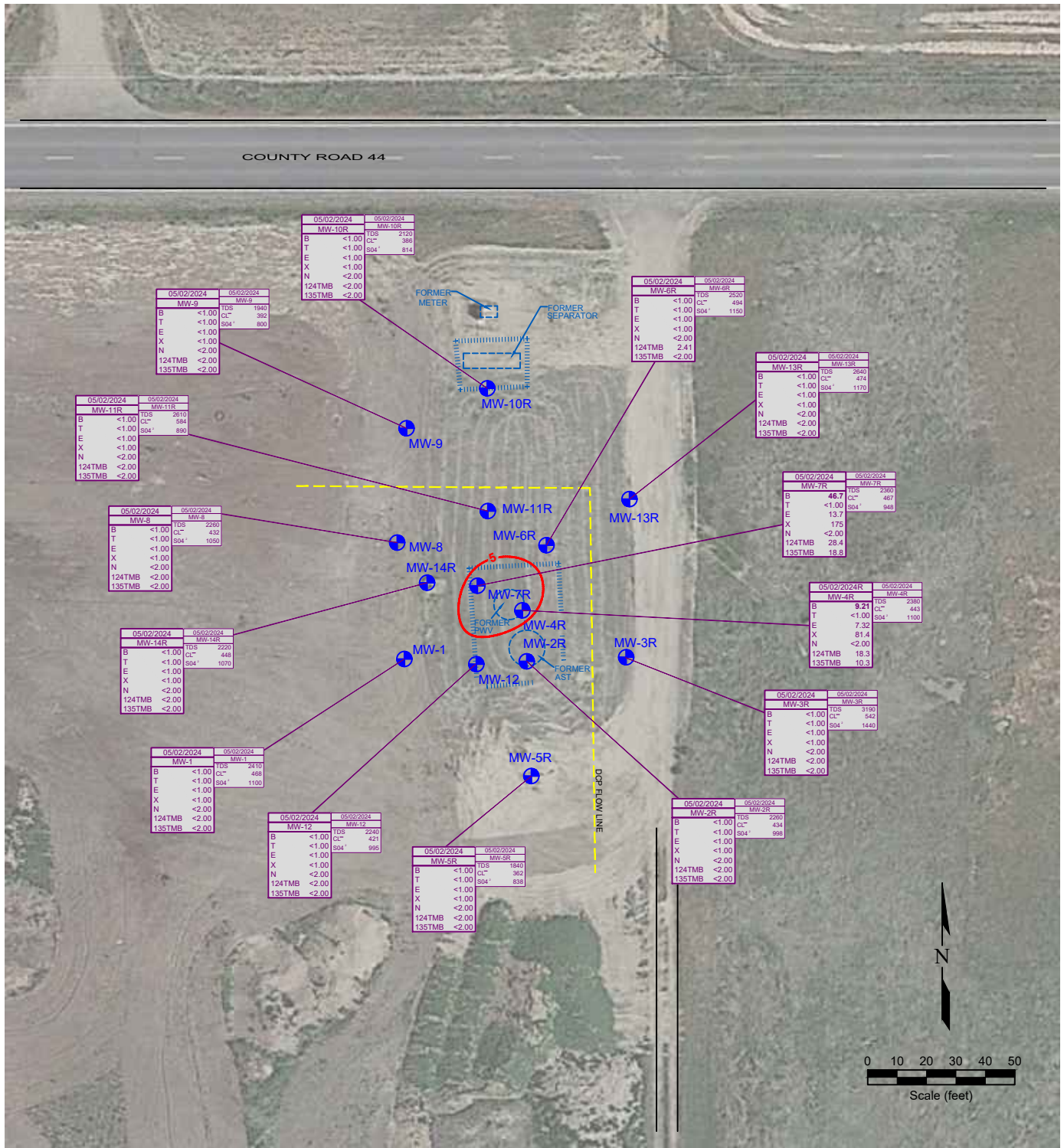


Figure 3  
**INFERRED GROUNDWATER CONTOUR**  
May 2, 2024

**Noble Energy, Inc. ~ HSR Fisher 6-23**  
NWNE, Sec 23, T4N, R65W, 6th P.M.  
Weld County, Colorado  
40.30500 ° -104.630639 °

Project No. <b>CO24-016</b>	API #	Facility # <b>309888</b>	
Date <b>8/2/24</b>	Remediation #	Filename <b>24016Q</b>	





# LEGEND

	MONITORING WELL		ABOVE GROUND STORAGE TANK		FORMER FACILITY		DCP FLOW LINE		FENCE LINE		CONTAINMENT BERM		CONTAINMENT WALL
--	-----------------	--	---------------------------	--	-----------------	--	---------------	--	------------	--	------------------	--	------------------

BENZENE ISOCONCENTRATION (ug/L)

05/02/2024	DATE SAMPLED	05/02/2024	DATE SAMPLED
MW-1	SAMPLE ID	MW-1	SAMPLE ID
B	<1.0	TDS	2410
T	<1.0	TOUENE (ug/L)	468
E	<1.0	ETHYLENE (ug/L)	468
X	<2.0	TOTAL XYLENES (ug/L)	468
N	<1.0	NAPHTHALENE (ug/L)	468
124TMB	<1.0	1,2,4-TRIMETHYLBENZENE (ug/L)	468
135TMB	<1.0	1,3,5-TRIMETHYLBENZENE (ug/L)	468

05/02/2024	DATE SAMPLED	05/02/2024	DATE SAMPLED
MW-1	SAMPLE ID	MW-1	SAMPLE ID
B	<1.0	TDS	2410
T	<1.0	TOUENE (ug/L)	468
E	<1.0	ETHYLENE (ug/L)	468
X	<2.0	TOTAL XYLENES (ug/L)	468
N	<1.0	NAPHTHALENE (ug/L)	468
124TMB	<1.0	1,2,4-TRIMETHYLBENZENE (ug/L)	468
135TMB	<1.0	1,3,5-TRIMETHYLBENZENE (ug/L)	468

Figure 4  
GROUNDWATER CHEMISTRY MAP  
May 2, 2024

Noble Energy, Inc. ~ HSR Fisher 6-23  
NWNE, Sec 23, T4N, R65W, 6th P.M.  
Weld County, Colorado  
40.30500 ° -104.630639 °

Project No. <b>CO24-016</b>	API #	Facility # <b>309888</b>	
Date <b>7/1/24</b>	Remediation #	Filename <b>24016Q</b>	



May 10, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - HSR - Fischer 6-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Fischer 6-23 received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405086-01.

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

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y405086-01	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-2R	Y405086-02	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-3R	Y405086-03	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-4R	Y405086-04	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-5R	Y405086-05	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-6R	Y405086-06	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-7R	Y405086-07	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-8	Y405086-08	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-9	Y405086-09	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-10R	Y405086-10	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-11R	Y405086-11	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-12R	Y405086-12	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-13R	Y405086-13	Water	May 2, 2024 0:00	05/02/2024 15:45
MW-14R	Y405086-14	Water	May 2, 2024 0:00	05/02/2024 15:45

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.*

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

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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.*

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

www.originslaboratory.com

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445086

ORIGINS LABORATORY, INC

Client: Fremont Env

Project Manager: Paul Henehan

Address:

Project Name: HSR Fischer 6-23

Project Number:

Telephone Number:

Samples Collected By: JG

Email Address: Paul.Henehan@FremontEnv.com

Jeff@FremontEnv.com Ethans@FremontEnv.com

Client: Noble

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	Analysis	
MU-1	5/2/24		4	X	X			X				X	1
MU-2R												X	2
MU-3R													3
MU-4R													4
MU-5R													5
MU-6R													6
MU-7R													7
MU-8													8
MU-9													9
MU-10R													10
Relinquished By:	Date: 5/2/24	Time: 1545	Received By:	Date: 5/2/24	Time: 1545	Turnaround Time:							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:	Same Day	24 Hr	48 Hr	72 Hr	Standard		

Temp Received: 15 Date Results Needed

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.



Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

page 2 of 2

Client: Fremont Env

Address:

Project Manager: Paul Henehan

Project Name: HSR Fischer 6-23

Project Number:

Telephone Number:

Samples Collected By: JG

Client: 8 Noble

Email Address: Paul.H@fremontenv.com  
jeff@fremontenv.com Ethn@fremontenv.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	TOC (15)	
MU-11R	5/2/24		4	X	X			X				X	1
MU-12R												X	2
MU-13R												X	3
MU-14R												X	4
													5
													6
													7
													8
													9
													10
Relinquished By:	Date: 5/2/24	Time: 5:45	Received By:	Date: 5/2/24	Time: 15:45	Received By:	Date: 5/2/24	Time: 15:45	Received By:	Date: 5/2/24	Time: 15:45	Received By:	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard

Temp Received: 15 Date Results Needed

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.



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 44050810

Client: Fremont

Client Project ID: HSR Fischer 6-23

Checklist Completed by: SA

Shipped Via: UO

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

Date/time completed: 5/12/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 15 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: 1005

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> ?		<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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 NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			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) JAB

5/16/24  
Date/Time Reviewed

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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-1

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-01 (Water)

### Anions by IC 300.0

Chloride	468	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	1100	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

96.2 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

102 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2410	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-2R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-02 (Water)

### Anions by IC 300.0

Chloride	434	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	998	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

96.0 % 70-130

"

"

"

Surrogate: Toluene-d8

103 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

107 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2260	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-3R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-03 (Water)

### Anions by IC 300.0

Chloride	542	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	1440	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

95.5 % 70-130

"

"

"

Surrogate: Toluene-d8

103 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

105 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	3190	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-4R

5/2/2024 12:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-04 (Water)

### Anions by IC 300.0

Chloride	443	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	1100	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	18.3	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	
1,3,5-Trimethylbenzene	10.3	2.00	"	"	"	JSM	"	"	
Benzene	9.21	1.00	"	"	"	JSM	"	"	
Ethylbenzene	7.32	1.00	"	"	"	JSM	"	"	
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	81.4	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2380	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-5R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-05 (Water)

### Anions by IC 300.0

Chloride	362	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	838	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

98.4 % 70-130

"

"

"

Surrogate: Toluene-d8

103 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

100 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1840	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-6R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-06 (Water)

### Anions by IC 300.0

Chloride	494	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	1150	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.41	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	
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	97.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2520	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-7R

5/2/2024 12:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-07 (Water)

### Anions by IC 300.0

Chloride	467	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	948	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	28.4	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/05/2024	
1,3,5-Trimethylbenzene	18.8	2.00	"	"	"	JSM	"	"	
Benzene	46.7	1.00	"	"	"	JSM	"	"	
Ethylbenzene	13.7	1.00	"	"	"	JSM	"	"	
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	175	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2360	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-8

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y405086-08 (Water)

### Anions by IC 300.0

Chloride	432	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	1050	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

96.5 % 70-130

"

"

"

Surrogate: Toluene-d8

101 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

101 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2260	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-9

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-09 (Water)

### Anions by IC 300.0

Chloride	392	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	800	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

95.5 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

103 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1940	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
------------------------	------	------	------	---	---------	----	------------	------------	--

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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-10R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-10 (Water)

### Anions by IC 300.0

Chloride	386	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	814	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

96.2 % 70-130

"

"

"

Surrogate: Toluene-d8

104 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.2 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2120	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
------------------------	------	------	------	---	---------	----	------------	------------	--

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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-11R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-11 (Water)

### Anions by IC 300.0

Chloride	584	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	890	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	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

97.8 % 70-130

"

"

"

Surrogate: Toluene-d8

99.7 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

105 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2610	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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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.

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-12R

5/2/2024 12:00:00AM

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

## Origins Laboratory, Inc. Y405086-12 (Water)

### Anions by IC 300.0

Chloride	421	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	995	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/05/2024	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

98.2 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

103 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2240	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-13R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-13 (Water)

### Anions by IC 300.0

Chloride	474	31.2	mg/L	125	B4E0321	DLT	05/03/2024	05/03/2024	
Sulfate	1170	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/05/2024	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

96.2 % 70-130

"

"

"

Surrogate: Toluene-d8

104 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

102 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2640	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## MW-14R

5/2/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y405086-14 (Water)

### Anions by IC 300.0

Chloride	448	31.2	mg/L	125	B4E0321	DLT	05/03/2024	05/03/2024	
Sulfate	1070	31.2	"	"	"	DLT	"	"	

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/05/2024	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

97.5 % 70-130

"

"

"

Surrogate: Toluene-d8

103 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

99.8 % 70-130

"

"

"

### Total Dissolved Solids by 2540C

Total Dissolved Solids	2220	5.00	mg/L	1	B4E0322	VK	05/03/2024	05/06/2024	
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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

**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 B4E0412 - EPA 5030B (Water)</b>										
<b>Blank (B4E0412-BLK1)</b>					Prepared: 05/04/2024 Analyzed: 05/04/2024					
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	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

**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 B4E0412 - EPA 5030B (Water)</b>										
<b>LCS (B4E0412-BS1)</b>					Prepared: 05/04/2024 Analyzed: 05/04/2024					
1,2,4-Trimethylbenzene	56.0	2.00	ug/L	50.0		112	70-130			
1,3,5-Trimethylbenzene	56.7	2.00	"	50.0		113	70-130			
Benzene	56.2	1.00	"	50.0		112	70-130			
Ethylbenzene	51.5	1.00	"	50.0		103	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Naphthalene	45.8	2.00	"	50.0		91.6	70-130			
o-Xylene	48.6	1.00	"	50.0		97.1	70-130			
Toluene	48.0	1.00	"	50.0		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

**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 B4E0412 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B4E0412-MS1)</b>			<b>Source: Y405085-02</b>		Prepared: 05/04/2024 Analyzed: 05/04/2024					
1,2,4-Trimethylbenzene	56.4	2.00	ug/L	50.0	ND	113	70-130			
1,3,5-Trimethylbenzene	57.1	2.00	"	50.0	ND	114	70-130			
Benzene	54.6	1.00	"	50.0	ND	109	70-130			
Ethylbenzene	50.8	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	99.1	2.00	"	100	ND	99.1	70-130			
Naphthalene	43.6	2.00	"	50.0	ND	87.2	70-130			
o-Xylene	49.1	1.00	"	50.0	ND	98.2	70-130			
Toluene	47.3	1.00	"	50.0	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

## 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 B4E0412 - EPA 5030B (Water)										
Matrix Spike Dup (B4E0412-MSD1)			Source: Y405085-02		Prepared: 05/04/2024 Analyzed: 05/04/2024					
1,2,4-Trimethylbenzene	53.7	2.00	ug/L	50.0	ND	107	70-130	4.94	20	
1,3,5-Trimethylbenzene	55.2	2.00	"	50.0	ND	110	70-130	3.35	20	
Benzene	52.0	1.00	"	50.0	ND	104	70-130	4.82	20	
Ethylbenzene	48.5	1.00	"	50.0	ND	97.1	70-130	4.59	20	
m,p-Xylene	96.7	2.00	"	100	ND	96.7	70-130	2.43	20	
Naphthalene	42.2	2.00	"	50.0	ND	84.4	70-130	3.26	20	
o-Xylene	47.7	1.00	"	50.0	ND	95.5	70-130	2.83	20	
Toluene	46.2	1.00	"	50.0	ND	92.3	70-130	2.52	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Noble - HSR - Fischer 6-23

**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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**Classical Chemistry Parameters - 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 B4E0320 - Filter .45um non acidified**

**Blank (B4E0320-BLK1)**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	ND	0.250	mg/L
Sulfate	ND	0.250	"

**LCS (B4E0320-BS1)**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	3.85	0.250	mg/L	4.00	96.2	90-110
Sulfate	3.88	0.250	"	4.00	96.9	90-110

**Matrix Spike (B4E0320-MS1)**

**Source: Y405084-01**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	644	mg/L	500	140	101	90-110
Sulfate	903	"	500	402	100	90-110

**Matrix Spike Dup (B4E0320-MSD1)**

**Source: Y405084-01**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	623	mg/L	500	140	96.7	90-110	3.23	5
Sulfate	879	"	500	402	95.4	90-110	2.71	5

**Batch B4E0321 - Filter .45um non acidified**

**Blank (B4E0321-BLK1)**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	ND	0.250	mg/L
Sulfate	ND	0.250	"

**LCS (B4E0321-BS1)**

Prepared: 05/03/2024 Analyzed: 05/03/2024

Chloride	4.06	0.250	mg/L	4.00	101	90-110
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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E0321 - Filter .45um non acidified</b>										
<b>LCS (B4E0321-BS1)</b>					Prepared: 05/03/2024 Analyzed: 05/03/2024					
Sulfate	4.35	0.250	mg/L	4.00		109	90-110			
<b>Matrix Spike (B4E0321-MS1)</b>					<b>Source: Y405086-13</b> Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	911		mg/L	500	474	87.5	90-110			QM-07
Sulfate	1580		"	500	1170	80.7	90-110			QM-07
<b>Matrix Spike Dup (B4E0321-MSD1)</b>					<b>Source: Y405086-13</b> Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	909		mg/L	500	474	87.1	90-110	0.210	5	QM-07
Sulfate	1570		"	500	1170	79.2	90-110	0.468	5	QM-07
<b>Batch B4E0322 - NO PREP</b>										
<b>Blank (B4E0322-BLK1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4E0322-BS1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	1050	5.00	mg/L	1070		97.9	90-110			
<b>Duplicate (B4E0322-DUP1)</b>					<b>Source: Y405084-05</b> Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	904	5.00	mg/L		900			0.443	10	

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Noble - HSR - Fischer 6-23

### 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.



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