



August 27, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - HSR - Fischer 6-23

Project Number - C024-016

Attached are your analytical results for Noble - HSR - Fischer 6-23 received by Origins Laboratory, Inc. August 13, 2024. This project is associated with Origins project number Y408329-01.

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: C024-016
 Project: Noble - HSR - Fischer 6-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y408329-01	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-2R	Y408329-02	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-3R	Y408329-03	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-4R	Y408329-04	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-5R	Y408329-05	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-6R	Y408329-06	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-7R	Y408329-07	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-8	Y408329-08	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-9	Y408329-09	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-10	Y408329-10	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-11R	Y408329-11	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-12	Y408329-12	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-13R	Y408329-13	Water	August 13, 2024 0:00	08/13/2024 17:22
MW-14R	Y408329-14	Water	August 13, 2024 0:00	08/13/2024 17:22

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Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

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

Sample Receipt Checklist

Origins Work Order: 4408329 Client: Fremont
 Client Project ID: Fischer 6-23

Checklist Completed by: FHD Shipped Via: HD
 Date/time completed: 8/13/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


Cooler Number/Temperature: 1 / 4.1 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SO
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⁾ ?		/		no sample times
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	/			NC

Additional Comments (if any):
DNR unpreserved source for MW-4K
Received MW-4K on 8/16 @ 1020 at 7°C - client notified via email on 8/16/24

Reviewed by (Project Manager) AS Date/Time Reviewed 8/15/24

Origins Laboratory, Inc.


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Fremont Environmental
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Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-1

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-01 (Water)

Anions by IC 300.0

Chloride	413	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	833	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2490	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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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: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-2R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-02 (Water)

Anions by IC 300.0

Chloride	389	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	810	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2430	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-3R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y408329-03 (Water)

Anions by IC 300.0

Chloride	493	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	1150	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	3220	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-4R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-04 (Water)

Anions by IC 300.0

Chloride	380	31.2	mg/L	125	B4H1607	DLT	08/16/2024	08/17/2024	
Sulfate	713	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	43.6	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	
1,3,5-Trimethylbenzene	27.4	2.00	"	"	"	JSM	"	"	
Benzene	77.2	1.00	"	"	"	JSM	"	"	
Ethylbenzene	8.73	1.00	"	"	"	JSM	"	"	
Naphthalene	4.28	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	133	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2120	5.00	mg/L	1	B4H1909	EAL	08/19/2024	08/21/2024	
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 Project: Noble - HSR - Fischer 6-23

MW-5R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y408329-05 (Water)

Anions by IC 300.0

Chloride	403	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	823	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2510	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-6R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-06 (Water)

Anions by IC 300.0

Chloride	444	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	574	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2370	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-7R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-07 (Water)

Anions by IC 300.0

Chloride	430	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	391	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	46.7	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	
1,3,5-Trimethylbenzene	10.9	2.00	"	"	"	JSM	"	"	
Benzene	399	10.0	"	10	"	ZZZ	"	08/18/2024	
Ethylbenzene	13.0	1.00	"	1	"	JSM	"	08/15/2024	
Naphthalene	2.48	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	94.7	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2220	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-8

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-08 (Water)

Anions by IC 300.0

Chloride	380	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	785	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2270	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-9

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-09 (Water)

Anions by IC 300.0

Chloride	337	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	610	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	98.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1980	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-10

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-10 (Water)

Anions by IC 300.0

Chloride	356	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	635	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2060	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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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: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-11R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-11 (Water)

Anions by IC 300.0

Chloride	420	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	430	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2280	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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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: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-12

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-12 (Water)

Anions by IC 300.0

Chloride	379	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	827	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	98.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2430	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-13R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y408329-13 (Water)

Anions by IC 300.0

Chloride	475	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	1000	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	99.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	3030	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 Project: Noble - HSR - Fischer 6-23

MW-14R

8/13/2024 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408329-14 (Water)

Anions by IC 300.0

Chloride	385	31.2	mg/L	125	B4H1508	DLT	08/15/2024	08/15/2024	
Sulfate	756	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1504	JSM	08/15/2024	08/15/2024	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	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2270	5.00	mg/L	1	B4H1452	EAL	08/14/2024	08/20/2024	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C024-016
 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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Batch B4H1504 - EPA 5030B (Water)

Blank (B4H1504-BLK1)

Prepared: 08/15/2024 Analyzed: 08/15/2024

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	105		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.4		70-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C024-016
 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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Batch B4H1504 - EPA 5030B (Water)

LCS (B4H1504-BS1)

Prepared: 08/15/2024 Analyzed: 08/15/2024

1,2,4-Trimethylbenzene	52.9	2.00	ug/L	50.0		106	70-130			
1,3,5-Trimethylbenzene	55.2	2.00	"	50.0		110	70-130			
Benzene	54.2	1.00	"	50.0		108	70-130			
Ethylbenzene	54.4	1.00	"	50.0		109	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	52.2	2.00	"	50.0		104	70-130			
o-Xylene	50.9	1.00	"	50.0		102	70-130			
Toluene	53.1	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Paul Henehan
 Project Number: C024-016
 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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Batch B4H1504 - EPA 5030B (Water)

Matrix Spike (B4H1504-MS1)	Source: Y408329-01			Prepared: 08/15/2024 Analyzed: 08/15/2024						
1,2,4-Trimethylbenzene	115	2.00	ug/L	100	ND	115	70-130			
1,3,5-Trimethylbenzene	120	2.00	"	100	ND	120	70-130			
Benzene	111	1.00	"	100	0.160	110	70-130			
Ethylbenzene	115	1.00	"	100	ND	115	70-130			
m,p-Xylene	226	2.00	"	200	ND	113	70-130			
Naphthalene	101	2.00	"	100	0.870	99.7	70-130			
o-Xylene	109	1.00	"	100	ND	109	70-130			
Toluene	111	1.00	"	100	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

Paul Henehan
 Project Number: C024-016
 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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Batch B4H1504 - EPA 5030B (Water)

Matrix Spike Dup (B4H1504-MSD1)	Source: Y408329-01			Prepared: 08/15/2024 Analyzed: 08/15/2024							
1,2,4-Trimethylbenzene	57.5	2.00	ug/L	50.0	ND	115	70-130	66.5	20	QR-02	
1,3,5-Trimethylbenzene	59.9	2.00	"	50.0	ND	120	70-130	66.4	20	QR-02	
Benzene	56.4	1.00	"	50.0	0.160	112	70-130	64.9	20	QR-02	
Ethylbenzene	58.0	1.00	"	50.0	ND	116	70-130	66.2	20	QR-02	
m,p-Xylene	113	2.00	"	100	ND	113	70-130	67.1	20	QR-02	
Naphthalene	62.3	2.00	"	50.0	0.870	123	70-130	47.0	20	QR-02	
o-Xylene	54.1	1.00	"	50.0	ND	108	70-130	67.7	20	QR-02	
Toluene	56.6	1.00	"	50.0	ND	113	70-130	65.0	20	QR-02	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	70-130				
Surrogate: Toluene-d8	63		"	62.5		101	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130				

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

Paul Henehan
 Project Number: C024-016
 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 B4H1452 - NO PREP

Blank (B4H1452-BLK1)

Prepared: 08/14/2024 Analyzed: 08/20/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4H1452-BS1)

Prepared: 08/14/2024 Analyzed: 08/20/2024

Total Dissolved Solids 1040 5.00 mg/L 1020 102 90-110

Duplicate (B4H1452-DUP1)

Source: Y408319-06

Prepared: 08/14/2024 Analyzed: 08/20/2024

Total Dissolved Solids 13400 5.00 mg/L 13000 3.06 10

Batch B4H1508 - Filter .45um non acidified

Blank (B4H1508-BLK1)

Prepared: 08/15/2024 Analyzed: 08/15/2024

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B4H1508-BS1)

Prepared: 08/15/2024 Analyzed: 08/15/2024

Chloride 3.92 0.250 mg/L 4.00 98.0 90-110

Sulfate 3.97 0.250 " 4.00 99.2 90-110

Matrix Spike (B4H1508-MS1)

Source: Y408320-01

Prepared: 08/15/2024 Analyzed: 08/15/2024

Chloride 576 mg/L 500 84.1 98.3 90-110

Sulfate 584 " 500 79.4 101 90-110

Matrix Spike Dup (B4H1508-MSD1)

Source: Y408320-01

Prepared: 08/15/2024 Analyzed: 08/15/2024

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

Paul Henehan
 Project Number: C024-016
 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
Batch B4H1508 - Filter .45um non acidified										
Matrix Spike Dup (B4H1508-MSD1)			Source: Y408320-01		Prepared: 08/15/2024 Analyzed: 08/15/2024					
Chloride	577		mg/L	500	84.1	98.6	90-110	0.239	5	
Sulfate	586		"	500	79.4	101	90-110	0.278	5	
Batch B4H1607 - Filter .45um non acidified										
Blank (B4H1607-BLK1)			Prepared: 08/16/2024 Analyzed: 08/17/2024							
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4H1607-BS1)			Prepared: 08/16/2024 Analyzed: 08/17/2024							
Chloride	3.90	0.250	mg/L				90-110			
Sulfate	3.98	0.250	"				90-110			
Matrix Spike (B4H1607-MS1)			Source: Y408373-02		Prepared: 08/16/2024 Analyzed: 08/17/2024					
Chloride	4.74	0.250	mg/L		99.2		90-110			
Sulfate	5.67	0.250	"		194		90-110			
Matrix Spike Dup (B4H1607-MSD1)			Source: Y408373-02		Prepared: 08/16/2024 Analyzed: 08/17/2024					
Chloride	4.76	0.250	mg/L		99.2		90-110	0.358	5	
Sulfate	5.71	0.250	"		194		90-110	0.580	5	
Batch B4H1909 - NO PREP										
Blank (B4H1909-BLK1)			Prepared: 08/19/2024 Analyzed: 08/21/2024							
Total Dissolved Solids	ND	5.00	mg/L							

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

Paul Henehan
 Project Number: C024-016
 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
Batch B4H1909 - NO PREP										
LCS (B4H1909-BS1)					Prepared: 08/19/2024 Analyzed: 08/21/2024					
Total Dissolved Solids	966	5.00	mg/L	1010		95.6	90-110			
Duplicate (B4H1909-DUP1)		Source: Y408329-04				Prepared: 08/19/2024 Analyzed: 08/21/2024				
Total Dissolved Solids	2120	5.00	mg/L		2120			0.189	10	

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

Paul Henehan
Project Number: C024-016
Project: Noble - HSR - Fischer 6-23

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.

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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