



**Fremont Environmental
Paul Henehan
8305 6th St, PO Box 1289**

October 23, 2024

Wellington CO 80549

Project Name - Margaret Spaulding

Project Number - C016-119

Attached are your analytical results for Margaret Spaulding received by Origins Laboratory October 04, 2024. This project is associated with Origins project number E410194-01.

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
303.433.1322
projectmanager@originslab.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: C016-119
Project: Margaret Spaulding

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	E410194-01	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-2	E410194-02	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-3	E410194-03	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-4	E410194-04	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-5	E410194-05	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-6	E410194-06	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-7	E410194-07	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-8	E410194-08	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-9	E410194-09	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-10	E410194-10	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-11	E410194-11	Water	October 3, 2024 0:00	10/04/2024 15:45
MW-E	E410194-12	Water	October 3, 2024 0:00	10/04/2024 15:45

Origins Laboratory

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 For Jen Pellegrini, Project Manager

ORIGINS LABORATORY

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

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

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

Sample ID description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis	Sample Instructions
				HCl	HNO ₃	Other			
MW-1	10/31/24		6				Groundwater	Other BTEX TMBs TPH-DRO SOLIDS TDS	
MW-2			1						
MW-3			1						
MW-4			1						
MW-5			5						
MW-6			6						
MW-7			1						
MW-8			1						
MW-9			1						
MW-10			1						

Client: Fremont Environmental
 Project Manager: Paul Henehan
 Project Name: Margaret Spaulding
 Project Number: C016-119
 Telephone Number: 970 231 2192
 Email Address: Miley@Fremontenv.com
 Samples Collected By: Miley G. Forrester

ORIGINS
 LABORATORY, INC

EN10194

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page 1 of 2

Temp Received: 4
 Date Results Needed: 10/14/24

Relinquished By: [Signature]
 Date: 10/14/24
 Time: 1:55
 Received By: [Signature]
 Date: 10/14/24
 Time: 5:45
 Unround Time: 48 Hr 24 Hr 72 Hr

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

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

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

Sample Receipt Checklist

Origins Work Order: EU10194 Client: Fremont
 Checklist Completed by: EHJ Client Project ID: Margaret
 Date/Time Completed: 10/7/12 Shipped Via: HO
 (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 / 6 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ± 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>NO TIMES</u>
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity/pH ~2 for samples preserved with HNO3, HCl, H2SO4) (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) EHJ

10/8/12
Date/Time Reviewed

Origins Laboratory



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

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-1

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-01 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 74.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	232		100	"	"	"	"	"	

Origins Laboratory

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MW-1

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-01 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.8 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	158		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-2

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-02 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 80.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		100	"	"	"	"	"	U

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Project: Margaret Spaulding

MW-2

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-02 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.6 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	136		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Fremont Environmental
8305 6th St, PO Box 1289
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Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-3

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-03 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	


Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 79.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		100	"	"	"	"	"	U

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 Project: Margaret Spaulding

MW-3

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-03 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	92.0		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-4

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-04 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	


Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 81.3% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		100	"	"	"	"	"	U

Origins Laboratory


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 Wellington CO 80549

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-4

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-04 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	94.1 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	106		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-5

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E410194-05 (Water)

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 79.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		100	"	"	"	"	"	U

Origins Laboratory



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 Wellington CO 80549

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-5

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-05 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	124		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-6

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-06 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	


Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: *o*-Terphenyl 81.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		100	"	"	"	"	"	U

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-6

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-06 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.1 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	240		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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 Wellington CO 80549

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-7

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-07 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	5.06		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	
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Surrogate: *o*-Terphenyl 72.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/09/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	389		100	"	"	"	"	"	

Origins Laboratory

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8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-7

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-07 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.3 %		70-130			B4J08 50	10/08/2024	10/09/2024	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.7 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	370		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-8

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-08 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	354		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	
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Surrogate: *o*-Terphenyl 83.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	65.9		1.00	ug/L	1	B4J0850	10/08/2024	10/12/2024	
1,3,5-Trimethylbenzene	11.6		1.00	"	"	"	"	"	
Benzene	2.18		1.00	"	"	"	"	"	
Ethylbenzene	4.18		1.00	"	"	"	"	"	
Naphthalene	119		4.00	"	"	"	"	"	
Toluene	34.0		1.00	"	"	"	"	"	
Xylenes, total	36.1		1.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	970000		10000	"	100	"	"	10/14/2024	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " 10/12/2024
 Surrogate: Toluene-d8 176 % 70-130 " " " S-GC

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Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-8

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410194-08 (Water)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	97.9 %	70-130	B4J08 50	10/08/2024	10/12/2024
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Total Dissolved Solids by 2540C

Total Dissolved Solids	280	5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024
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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-9

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-09 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	363		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	
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Surrogate: *o*-Terphenyl 132 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	958		10.0	ug/L	10	B4J0850	10/08/2024	10/12/2024	
1,3,5-Trimethylbenzene	101		1.00	"	1	"	"	10/11/2024	
Benzene	2.10		1.00	"	"	"	"	"	
Ethylbenzene	115		1.00	"	"	"	"	"	
Naphthalene	599		40.0	"	10	"	"	10/12/2024	
Toluene	1.40		1.00	"	1	"	"	10/11/2024	
Xylenes, total	161		1.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	56700		10000	"	100	"	"	10/14/2024	

Surrogate: 1,2-Dichloroethane-d4 207 % 70-130 " " 10/11/2024 GC
 Surrogate: Toluene-d8 109 % 70-130 " " "

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-9

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-09 (Water)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	490 %		70-130			B4J08 50	10/08/2024	10/11/2024	GC
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Total Dissolved Solids by 2540C

Total Dissolved Solids	330		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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 Project: Margaret Spaulding

MW-10
10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E410194-10 (Water)

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	U
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Surrogate: <i>o</i> -Terphenyl	76.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	132		1.00	ug/L	1	B4J0850	10/08/2024	10/10/2024	
1,3,5-Trimethylbenzene	19.4		1.00	"	"	"	"	"	
Benzene	5.86		1.00	"	"	"	"	"	
Ethylbenzene	31.9		1.00	"	"	"	"	"	
Naphthalene	125		4.00	"	"	"	"	"	
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	10.5		1.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	2150		100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %		70-130			"	"	"	
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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-10

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-10 (Water)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4J08 50	10/08/2024	10/10/2024	
Surrogate: 4-Bromofluorobenzene	91.6 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	240		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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ORIGINS LABORATORY

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Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-11

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E410194-11 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	40.2		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	
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Surrogate: *o*-Terphenyl 64.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	89.9		10.0	ug/L	10	B4J0850	10/08/2024	10/10/2024	
1,3,5-Trimethylbenzene	9.79		1.00	"	1	"	"	10/11/2024	
Benzene	1.04		1.00	"	"	"	"	"	
Ethylbenzene	2.10		1.00	"	"	"	"	"	
Naphthalene	102		40.0	"	10	"	"	10/10/2024	
Toluene	2.01		1.00	"	1	"	"	10/11/2024	
Xylenes, total	5.20		1.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	1450		1000	"	10	"	"	10/10/2024	

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " 10/11/2024
 Surrogate: Toluene-d8 100 % 70-130 " " "

Origins Laboratory



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Wellington CO 80549

Paul Henehan
Project Number: C016-119
Project: Margaret Spaulding

MW-11

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E410194-11 (Water)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	360 %		70-130			B4J08 50	10/08/2024	10/11/2024	GC
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Total Dissolved Solids by 2540C

Total Dissolved Solids	240		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Origins Laboratory



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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-E

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-12 (Water)**

Anions by IC 300.0

Chloride	ND		31.2	mg/L	125	B4J0821	10/08/2024	10/08/2024	
Sulfate	ND		31.2	"	"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	33.0		5.00	mg/L	1	B4J0802	10/08/2024	10/08/2024	
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Surrogate: *o*-Terphenyl 69.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B4J0850	10/08/2024	10/10/2024	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	2.61		1.00	"	"	"	"	"	
Naphthalene	11.5		4.00	"	"	"	"	"	
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Gasoline Range Hydrocarbons	315		100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.3 % 70-130 " " "

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

MW-E

10/3/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E410194-12 (Water)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4J08 50	10/08/2024	10/10/2024	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	170		5.00	mg/L	1	B4J0827	10/08/2024	10/09/2024	
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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0802 - EPA 3511 Mod.

Blank (B4J0802-BLK1)

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

Diesel (C10-C28)	ND	5.00	mg/L							U
Surrogate: o-Terphenyl	4.4		"	4.98		88.0	50-150			

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0802 - EPA 3511 Mod.

LCS (B4J0802-BS1)

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

Diesel (C10-C28)	102	5.00	mg/L	100		102	70-130			
Surrogate: o-Terphenyl	4.1		"	4.98		82.4	50-150			

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Paul Henehan
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 Project: Margaret Spaulding

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0802 - EPA 3511 Mod.

LCS Dup (B4J0802-BSD1)

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

Diesel (C10-C28)	104	5.00	mg/L	100	104	70-130	2.23	20		
Surrogate: o-Terphenyl	4.3		"	4.98	85.5	50-150				

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 Project: Margaret Spaulding

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0850 - EPA 5030B (Water)

Blank (B4J0850-BLK1)

Prepared: 10/08/2024 Analyzed: 10/09/2024

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Naphthalene	ND	4.00	"							U
o-Xylene	ND	1.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Gasoline Range Hydrocarbons	ND	100	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	70-130			

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0850 - EPA 5030B (Water)

LCS (B4J0850-BS1)

Prepared: 10/08/2024 Analyzed: 10/09/2024

1,2,4-Trimethylbenzene	46.2	1.00	ug/L	50.0		92.3	70-130			
1,3,5-Trimethylbenzene	50.9	1.00	"	50.0		102	70-130			
Benzene	44.5	1.00	"	50.0		89.1	70-130			
Ethylbenzene	43.5	1.00	"	50.0		87.1	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
Naphthalene	50.2	4.00	"	50.0		100	70-130			
o-Xylene	44.9	1.00	"	50.0		89.8	70-130			
Toluene	48.7	1.00	"	50.0		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0850 - EPA 5030B (Water)

Matrix Spike (B4J0850-MS1)

Source: E410194-01

Prepared: 10/08/2024 Analyzed: 10/09/2024

1,2,4-Trimethylbenzene	45.6	1.00	ug/L	50.0	ND	91.2	70-130			
1,3,5-Trimethylbenzene	49.1	1.00	"	50.0	ND	98.3	70-130			
Benzene	43.1	1.00	"	50.0	0.270	85.7	70-130			
Ethylbenzene	42.4	1.00	"	50.0	ND	84.8	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
Naphthalene	43.8	4.00	"	50.0	1.12	85.3	70-130			
o-Xylene	44.3	1.00	"	50.0	0.120	88.3	70-130			
Toluene	46.3	1.00	"	50.0	ND	92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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

Paul Henehan
 Project Number: C016-119
 Project: Margaret Spaulding

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0850 - EPA 5030B (Water)

Matrix Spike Dup (B4J0850-MSD1)

Source: E410194-01

Prepared: 10/08/2024 Analyzed: 10/09/2024

1,2,4-Trimethylbenzene	43.2	1.00	ug/L	50.0	ND	86.5	70-130	5.31	20	
1,3,5-Trimethylbenzene	45.8	1.00	"	50.0	ND	91.7	70-130	6.95	20	
Benzene	43.1	1.00	"	50.0	0.270	85.7	70-130	0.0232	20	
Ethylbenzene	42.5	1.00	"	50.0	ND	85.0	70-130	0.212	20	
m,p-Xylene	100	2.00	"	100	ND	100	70-130	0.0696	20	
Naphthalene	45.3	4.00	"	50.0	1.12	88.4	70-130	3.53	20	
o-Xylene	44.4	1.00	"	50.0	0.120	88.5	70-130	0.293	20	
Toluene	48.2	1.00	"	50.0	ND	96.3	70-130	3.98	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0821 - Filter .45um non acidified

Blank (B4J0821-BLK1)

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

Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

LCS (B4J0821-BS1)

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

Chloride	3.93	0.250	mg/L	4.00		98.4	90-110			
Sulfate	3.89	0.250	"	4.00		97.3	90-110			

Matrix Spike (B4J0821-MS1)

Source: E410194-01

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

Chloride	508		mg/L	500	0.950	101	90-110			
Sulfate	506		"	500	3.65	100	90-110			

Matrix Spike Dup (B4J0821-MSD1)

Source: E410194-01

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

Chloride	501		mg/L	500	0.950	100	90-110	1.25	5	
Sulfate	504		"	500	3.65	100	90-110	0.329	5	

Batch B4J0827 - NO PREP

Blank (B4J0827-BLK1)

Prepared: 10/08/2024 Analyzed: 10/09/2024

Total Dissolved Solids	ND	5.00	mg/L							
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LCS (B4J0827-BS1)

Prepared: 10/08/2024 Analyzed: 10/09/2024

Total Dissolved Solids	992	5.00	mg/L	1000		99.2	90-110			
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Duplicate (B4J0827-DUP1)

Source: E410194-01

Prepared: 10/08/2024 Analyzed: 10/09/2024

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4J0827 - NO PREP

Total Dissolved Solids	158	5.00	mg/L		158			0.00	10	
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Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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