

FREMONT ENVIRONMENTAL INC.

December 13, 2022

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal**
 Miller 16-29
 API # 05-123-12830
 SESE Sec. 29, T6N, R64W
 Weld County, Colorado
 Fremont Project No. C022-056
 Facility #323297, Remediation #22488

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Miller 16-29 site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

Please contact me at (303) 956-8714 if you require any additional information.

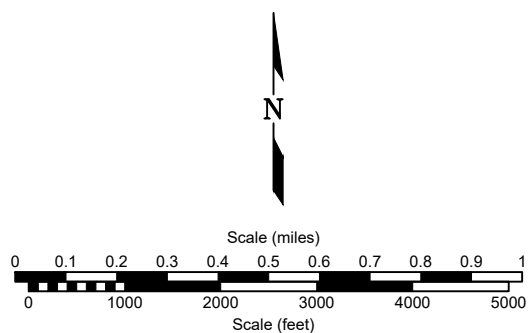
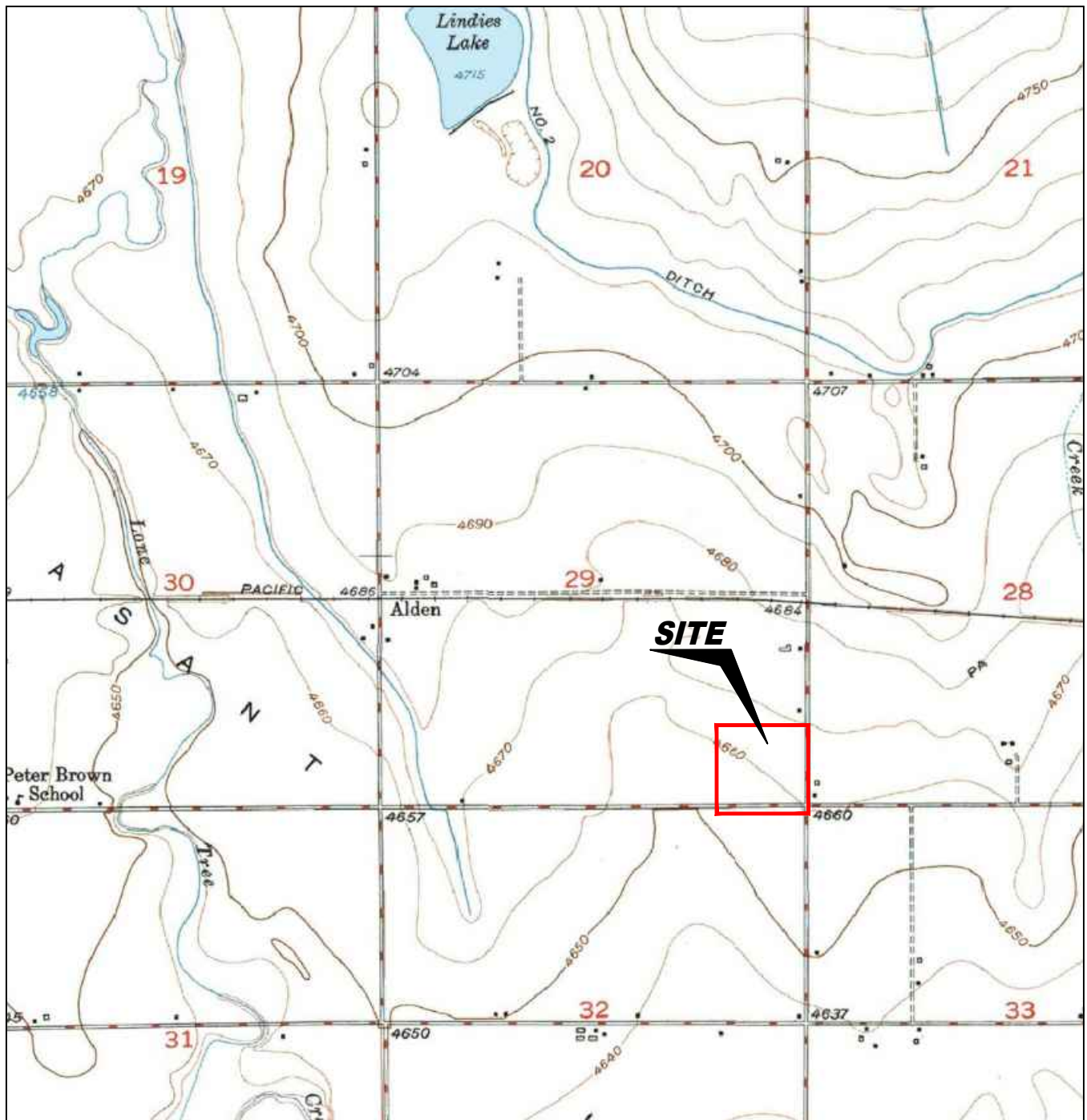
Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County, Colorado
40.451558°, -104.566222°

Project # C022-056	API # 05-123-12830	Facility ID 323297
Date 11/4/22	Remediation # 22488	Filename 22056T





LEGEND

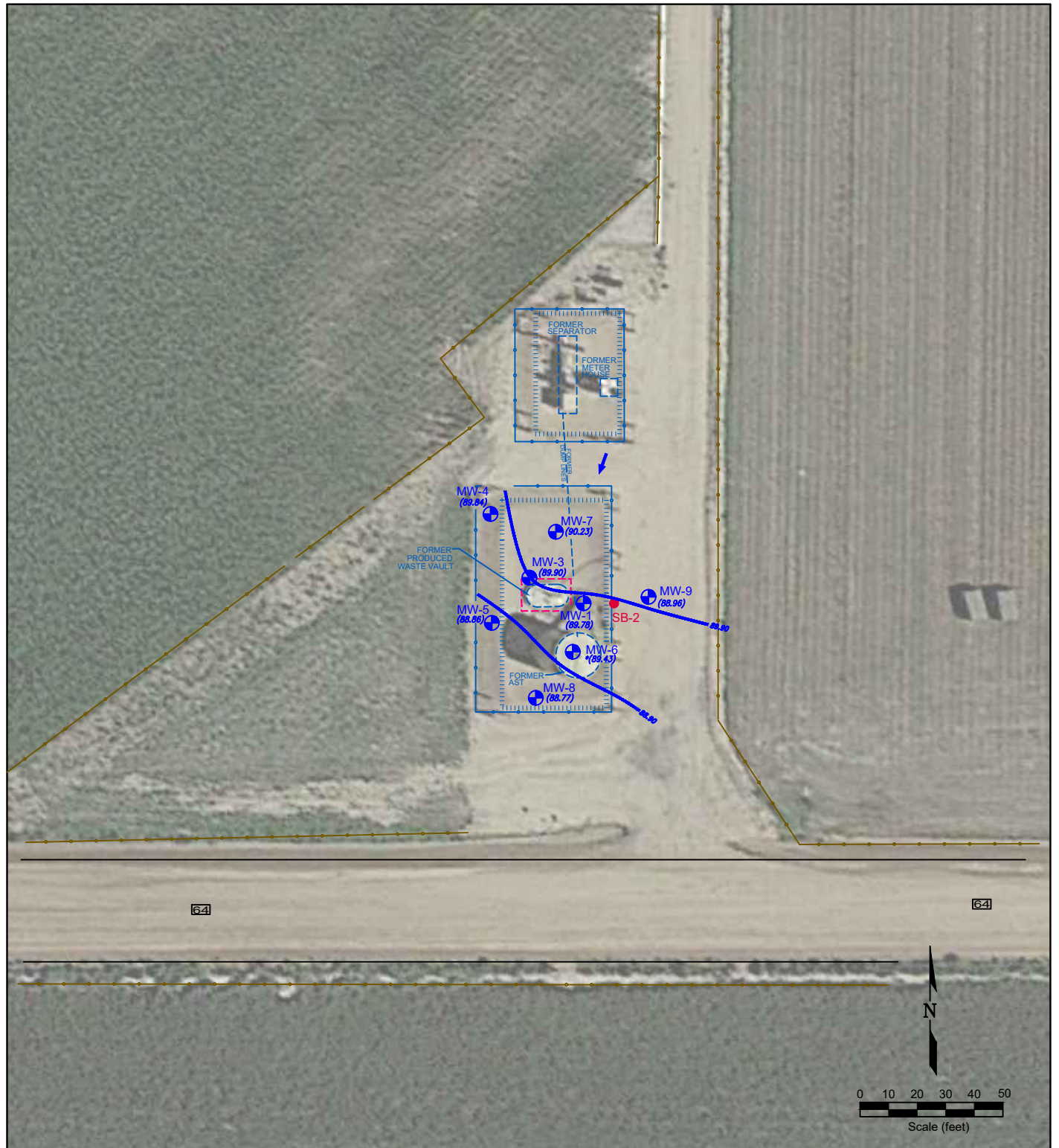
- MONITORING WELL LOCATION
- SOIL BORING
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- DUMP LINES
- FENCE LINE

Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County, Colorado
40.451558°, -104.566222°

Project No. C022-056	API # 05-123-12830	Facility # 323297
Date 11/4/22	Remediation # 22488	Filename 22056Q





LEGEND

- MONITORING WELL LOCATION
- SOIL BORING
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- NOT USED FOR CONTOURING
- GROUND WATER ELEVATION (feet above mean sea level)
- WATER TABLE CONTOUR (feet above mean sea level)
- INFERRED GROUND WATER FLOW DIRECTION
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- DUMP LINES
- FENCE LINE

Figure 3

GROUNDWATER CONTOURS MAP September 30, 2022

NOBLE ENERGY, INC. ~ MILLER 16-29
SESE Sec. 29, T6N, R64W, 6th PM
Weld County, Colorado
40.451558°, -104.566222°

Project No. C022-056	API # 05-123-12830	Facility # 323297
Date 12/13/22	Remediation # 22488	Filename 22056Q



TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
MILLER 16-29, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-056

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)
COGCC Table 915-1 Limits		5.0	560	700.0	1400	140	67	67				
MW-1	6/23/2022	3200	<1.0	460	2800	<1.0	200	86	100	10.08	89.92	NP
	09/30/2022	1500	<1.0	79	950	21	120	41		10.22	89.78	NP
MW-3	6/23/2022	980	<1.0	190	1500	24	270	110	99.86	9.58	90.28	NP
	09/30/2022	470	<1.0	60	58	36	30	<1.0		9.96	89.9	NP
MW-4	6/23/2022	NA	NA	NA	NA	NA	NA	NA	100.74	18.36	82.38	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.90	89.84	NP
MW-5	6/23/2022	1.1	<1.0	<1.0	4.3	1.9	<1.0	<1.0	99.61	9.36	90.25	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.75	89.99	NP
MW-6	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.27	10.61	89.66	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.84	89.43	NP
MW-7	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.85	11.05	89.8	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.62	90.23	NP
MW-8	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.32	12	88.32	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		11.55	88.77	NP
MW-9	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.43	10.92	89.51	NP
	09/30/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		11.47	88.96	NP

Bold face values exceed the COGCC limits

NP - No measureable LNAPL

DES - Destroyed

NA - Not Analyzed

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
MILLER 16-29, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-056

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Limits		<1.25 x local background	250	250
Site Specific Background		1775.0		560.0
MW-1	09/30/2022	1750	48.2	628
MW-3	09/30/2022	1210	39.8	86.0
MW-4	09/30/2022	943	2.20	215
MW-5	09/30/2022	1170	49.2	264
MW-6	09/30/2022	1390	41.0	365
MW-7	09/30/2022	1420	28.4	448
MW-8	09/30/2022	1170	12.0	216
MW-9	09/30/2022	1670	39.2	644

Bold face values exceed the COGCC limits

MW-7 used as upgradient background

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 12, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Miller 16-29
Work Order #2209608

Enclosed are the results of analyses for samples received by Summit Scientific on 09/30/22 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]

Project Manager: Paul Henchan

Reported:
10/12/22 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2209608-01	Water	09/30/22 00:00	09/30/22 16:45
MW-3	2209608-02	Water	09/30/22 00:00	09/30/22 16:45
MW-4	2209608-03	Water	09/30/22 00:00	09/30/22 16:45
MW-5	2209608-04	Water	09/30/22 00:00	09/30/22 16:45
MW-6	2209608-05	Water	09/30/22 00:00	09/30/22 16:45
MW-7	2209608-06	Water	09/30/22 00:00	09/30/22 16:45
MW-8	2209608-07	Water	09/30/22 00:00	09/30/22 16:45
MW-9	2209608-08	Water	09/30/22 00:00	09/30/22 16:45

Summit Scientific

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.

Summit Scientific

S₂

2209608

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Miller 16-29

Sampler Name: CHCM L / Nick L.

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	MW-1	9/30/22		2	X				X				X				X			
2	MW-3																			
3	MW-4																			
4	MW-5																			
5	MW-6																			
6	MW-7																			
7	MW-8																			
8	MW-9	9/30/22		3	X				X				X				X			
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
CHCM Latter 9/30/22 14:15	9/30/22 14:15	S2 North Office 9/30/22 16:15	9/30/22 16:15	Same Day — 72 hours —	
S2 North Office 9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	24 hours — Standard X	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours —	825 0110
S2 North Office 9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	Sample Integrity: 825	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: 825	825 0110
S2 North Office 9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	9/30/22 16:45	Samples Intact: Yes No PS	

S₂

Sample Receipt Checklist

S2 Work Order# 2209608

Client: Fremont Env Client Project ID: Miller 16.29Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:
☐ ☒ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 8.5 Thermometer # ☐

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

 Custodian Printed Name

9.30.22 19:10
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-1
2209608-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1500	100	ug/l	100	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	10/08/22	"	
Ethylbenzene	79	1.0	"	"	"	"	"	"	
Xylenes (total)	950	200	"	100	"	"	10/07/22	"	
Naphthalene	21	1.0	"	1	"	"	10/08/22	"	
1,2,4-Trimethylbenzene	120	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	41	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	48.2	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	628	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	1750	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-3
2209608-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	470	100	ug/l	100	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	10/08/22	"	
Ethylbenzene	60	1.0	"	"	"	"	"	"	
Xylenes (total)	58	2.0	"	"	"	"	"	"	
Naphthalene	36	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	30	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	39.8	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	86.0	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1210	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-4
2209608-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0110	10/05/22	10/08/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		69.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		80.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	2.20	1.20	mg/L	20	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	215	60.0	"	200	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	943	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-5
2209608-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	49.2	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	264	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1170	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-6
2209608-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	41.0	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	365	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1390	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-7
2209608-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	28.4	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	448	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1420	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-8
2209608-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	12.0	12.0	mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	216	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1170	10.0	mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

MW-9
2209608-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0110	10/05/22	10/07/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	39.2	12.0		mg/L	200	BFJ0135	10/06/22	10/06/22	EPA 300.0	
Sulfate	644	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1670	10.0		mg/L	1	BFJ0096	10/05/22	10/05/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFJ0110 - EPA 5030 Water MS

Blank (BFJ0110-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

LCS (BFJ0110-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	50.8	1.0	ug/l	50.0		102	51-132			
Toluene	50.7	1.0	"	50.0		101	51-138			
Ethylbenzene	50.4	1.0	"	50.0		101	58-146			
m,p-Xylene	100	2.0	"	100		100	57-144			
o-Xylene	49.7	1.0	"	50.0		99.3	53-146			
Naphthalene	49.6	1.0	"	50.0		99.2	70-130			
1,2,4-Trimethylbenzene	48.3	1.0	"	50.0		96.6	70-130			
1,3,5-Trimethylbenzene	48.2	1.0	"	50.0		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

Matrix Spike (BFJ0110-MS1)

Source: 2209606-01

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	55.3	1.0	ug/l	50.0	ND	111	34-141			
Toluene	56.1	1.0	"	50.0	ND	112	27-151			
Ethylbenzene	55.9	1.0	"	50.0	ND	112	29-160			
m,p-Xylene	111	2.0	"	100	ND	111	20-166			
o-Xylene	54.8	1.0	"	50.0	ND	110	33-159			
Naphthalene	49.9	1.0	"	50.0	ND	99.9	70-130			
1,2,4-Trimethylbenzene	53.7	1.0	"	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	54.1	1.0	"	50.0	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.0	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFJ0110 - EPA 5030 Water MS

Matrix Spike Dup (BFJ0110-MSD1)	Source: 2209606-01			Prepared: 10/05/22 Analyzed: 10/06/22						
Benzene	54.8	1.0	ug/l	50.0	ND	110	34-141	0.981	30	
Toluene	55.0	1.0	"	50.0	ND	110	27-151	2.00	30	
Ethylbenzene	55.4	1.0	"	50.0	ND	111	29-160	0.844	30	
m,p-Xylene	110	2.0	"	100	ND	110	20-166	0.750	30	
o-Xylene	54.4	1.0	"	50.0	ND	109	33-159	0.714	30	
Naphthalene	50.5	1.0	"	50.0	ND	101	70-130	1.17	30	
1,2,4-Trimethylbenzene	53.2	1.0	"	50.0	ND	106	70-130	0.880	30	
1,3,5-Trimethylbenzene	53.8	1.0	"	50.0	ND	108	70-130	0.593	30	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.0	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFJ0135 - General Preparation

Blank (BFJ0135-BLK1)

Prepared & Analyzed: 10/06/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BFJ0135-BS1)

Prepared & Analyzed: 10/06/22

Chloride	3.06	0.0600	mg/L	3.00	102	90-110
Sulfate	15.1	0.300	"	15.0	100	90-110

Duplicate (BFJ0135-DUP1)

Source: 2209608-01

Prepared & Analyzed: 10/06/22

Chloride	44.2	12.0	mg/L	48.2	8.66	20
Sulfate	669	60.0	"	628	6.38	20

Matrix Spike (BFJ0135-MS1)

Source: 2209608-01

Prepared & Analyzed: 10/06/22

Chloride	655	12.0	mg/L	600	48.2	101	80-120
Sulfate	3510	60.0	"	3000	628	96.2	80-120

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

Analyte	Result	Reporting			Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BFJ0096 - General Preparation

Blank (BFJ0096-BLK1)

Prepared & Analyzed: 10/05/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFJ0096-DUP1)

Source: 2209588-01

Prepared & Analyzed: 10/05/22

Total Dissolved Solids 1440 10.0 mg/L 1360 6.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Miller 16-29

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 09:25

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference