

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 03, 2022

Jennifer Galles

K.P. Kauffman

1675 Broadway

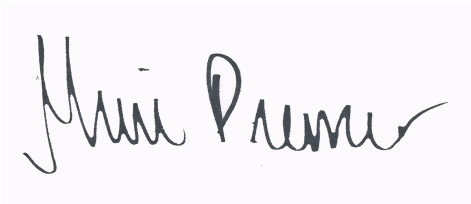
Denver, CO 80202

RE: Moser 1-A

Work Order #2205304

Enclosed are the results of analyses for samples received by Summit Scientific on 05/18/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-11@5'	2205304-01	Soil	05/18/22 11:50	05/18/22 15:00
SW-12@5'	2205304-02	Soil	05/18/22 11:55	05/18/22 15:00
SW-13@5'	2205304-03	Soil	05/18/22 12:00	05/18/22 15:00
SW-14@5'	2205304-04	Soil	05/18/22 12:05	05/18/22 15:00
SW-15@5'	2205304-05	Soil	05/18/22 12:10	05/18/22 15:00
SW-16@5'	2205304-06	Soil	05/18/22 12:15	05/18/22 15:00
SW-17@5'	2205304-07	Soil	05/18/22 12:20	05/18/22 15:00
SW-18@5'	2205304-08	Soil	05/18/22 12:25	05/18/22 15:00
SW-19@5'	2205304-09	Soil	05/18/22 12:30	05/18/22 15:00
SW-20@5'	2205304-10	Soil	05/18/22 12:35	05/18/22 15:00
BH-5@11'	2205304-11	Soil	05/18/22 11:30	05/18/22 15:00
BH-6@11'	2205304-12	Soil	05/18/22 11:35	05/18/22 15:00
BH-7@11'	2205304-13	Soil	05/18/22 11:40	05/18/22 15:00
BH-8@11'	2205304-14	Soil	05/18/22 11:45	05/18/22 15:00

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2205304.1

S₂

Temperature Upon Receipt: 4.4

IR gun correction 0

Corrected Temperature 0

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: Bill to KPK (MarCom)

Project Manager: Jennifer G

Address: _____ E-Mail: PrimaryContractor@marcomllc.net

City/State/Zip: _____

Phone: _____ Project Name: Moser 1A

Sampler Name: Levi Kirk Project Number: Moser 1A

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	Full Table								
1	SW-11@5'	5-18-22	11:50	3						X			X								
2	SW-12@5'		11:55																		
3	SW-13@5'		12:00																		
4	SW-14@5'		12:05																		
5	SW-15@5'		12:10																		
6	SW-16@5'		12:15																		
7	SW-17@5'		12:20																		
8	SW-18@5'		12:25																		
9	SW-19@5'		12:30																		
10	SW-20@5'		12:35																		

Relinquished by: <u>Levi Kirk</u>	Date/Time: <u>5/18/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/18/22 1500</u>	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Same Day _____ 72 hours _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	24 hours _____ Standard <u>X</u>	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	48 hours _____	
Sample Integrity:					
Samples Intact: <u>Yes</u> No					

HNO₃ lot # _____

IR gun # _____

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S₂

22053042

Temperature Upon Receipt: 44

IR gun correction 0

Corrected Temperature 0

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: Bill to KPK (MarCom)

Project Manager: Jennifer G

Address:

E-Mail: PrimaryContractor@marcomllc.net

City/State/Zip:

Phone:

Project Name: Moser 1A

Sampler Name: Levi K.

Project Number: Moser 1A

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	Full Table 915								
1	BH-5@11'	5-18-22	11:30	3						X				X							
2	BH-6@11'	↓	11:35	↓						↓				↓							
3	BH-7@11'	↓	11:40	↓																	
4	BH-8@11'	↓	11:45	↓						↓				↓							
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>Levi K.</u>	Date/Time: <u>5/19/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/18/22 1500</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u> </u>	72 hours <u> </u>
				24 hours <u> </u>	Standard <u>X</u>
				48 hours <u>X</u> LK	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Samples Intact: <u>Yes</u> No	

HNO₃ lot #

IR gun # 1

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S₂

2/2
Sample Receipt Checklist

S2 Work Order# 2205304

Client: Kpk(marcom) Client Project ID: Moser 1A

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐

Temp (°C) 4.4 Thermometer # 1

	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.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
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 w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				



Custodian Printed Name

518 22

Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-11@5'
2205304-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		96.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

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06/03/22 10:34

SW-11@5'
2205304-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.142	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
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Project: Moser 1-A
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Project Manager: Jennifer Galles

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06/03/22 10:34

SW-11@5'
2205304-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	5.14	0.239	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	176	0.477	"	"	"	"	"	"
Cadmium	0.243	0.239	"	"	"	"	"	"
Copper	10.6	0.477	"	"	"	"	"	"
Lead	5.88	0.239	"	"	"	"	"	"
Nickel	10.1	0.477	"	"	"	"	"	"
Selenium	0.722	0.310	"	"	"	"	"	"
Silver	0.0482	0.0239	"	"	"	"	"	"
Zinc	25.7	0.477	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12000	0.0596	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	385	0.0596	"	"	"	"	"	"	
Sodium	107	0.0596	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.262	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

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SW-11@5'
2205304-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.8	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.521	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-12@5'
2205304-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		96.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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SW-12@5'
2205304-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.118	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-12@5'
2205304-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.38	0.231	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	222	0.461	"	"	"	"	"	"
Cadmium	ND	0.231	"	"	"	"	"	"
Copper	7.79	0.461	"	"	"	"	"	"
Lead	5.26	0.231	"	"	"	"	"	"
Nickel	9.21	0.461	"	"	"	"	"	"
Selenium	0.577	0.300	"	"	"	"	"	"
Silver	0.0249	0.0231	"	"	"	"	"	"
Zinc	23.0	0.461	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11000	0.0576	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	340	0.0576	"	"	"	"	"	"	
Sodium	59.8	0.0576	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.153	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-12@5'
2205304-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.7	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.437	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-13@5'
2205304-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-13@5'
2205304-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.173	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-13@5'
2205304-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.32	0.238	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	50.2	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	8.19	0.476	"	"	"	"	"	"
Lead	6.07	0.238	"	"	"	"	"	"
Nickel	9.38	0.476	"	"	"	"	"	"
Selenium	0.675	0.310	"	"	"	"	"	"
Silver	ND	0.0238	"	"	"	"	"	"
Zinc	27.3	0.476	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10000	0.0595	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	264	0.0595	"	"	"	"	"	"	
Sodium	113	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.305	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-13@5'
2205304-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.0			%	1	BFE0616	05/26/22	05/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.460	0.0100		mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.46			pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-14@5'
2205304-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-14@5'
2205304-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.164	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-14@5'
2205304-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.88	0.217	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	38.9	0.433	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	7.44	0.433	"	"	"	"	"	"
Lead	5.65	0.217	"	"	"	"	"	"
Nickel	8.85	0.433	"	"	"	"	"	"
Selenium	0.550	0.282	"	"	"	"	"	"
Silver	ND	0.0217	"	"	"	"	"	"
Zinc	24.9	0.433	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	531	0.0542	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	139	0.0542	"	"	"	"	"	"	
Sodium	93.3	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.932	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-14@5'
2205304-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.3			%	1	BFE0616	05/26/22	05/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.375	0.0100		mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.77			pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-15@5'
2205304-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-15@5'
2205304-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.367	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-15@5'
2205304-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.55	0.222	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	59.3	0.445	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	8.81	0.445	"	"	"	"	"	"
Lead	6.39	0.222	"	"	"	"	"	"
Nickel	10.1	0.445	"	"	"	"	"	"
Selenium	0.727	0.289	"	"	"	"	"	"
Silver	ND	0.0222	"	"	"	"	"	"
Zinc	30.6	0.445	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1530	0.0556	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	178	0.0556	"	"	"	"	"	"	
Sodium	180	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.16	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-15@5'
2205304-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	90.0			%	1	BFE0616	05/26/22	05/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.578	0.0100		mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.77			pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-16@5'
2205304-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-16@5'
2205304-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		77.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.163	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-16@5'
2205304-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.91	0.226	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	271	0.452	"	"	"	"	"	"
Cadmium	ND	0.226	"	"	"	"	"	"
Copper	8.69	0.452	"	"	"	"	"	"
Lead	6.11	0.226	"	"	"	"	"	"
Nickel	10.6	0.452	"	"	"	"	"	"
Selenium	0.689	0.294	"	"	"	"	"	"
Silver	0.0260	0.0226	"	"	"	"	"	"
Zinc	27.2	0.452	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7950	0.0565	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	240	0.0565	"	"	"	"	"	"	
Sodium	68.1	0.0565	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.205	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-16@5'
2205304-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.4	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.435	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-17@5'
2205304-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-17@5'
2205304-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0992	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-17@5'
2205304-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.79	0.217	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	78.3	0.433	"	"	"	"	"	"
Cadmium	ND	0.217	"	"	"	"	"	"
Copper	6.40	0.433	"	"	"	"	"	"
Lead	4.72	0.217	"	"	"	"	"	"
Nickel	6.92	0.433	"	"	"	"	"	"
Selenium	0.529	0.282	"	"	"	"	"	"
Silver	ND	0.0217	"	"	"	"	"	"
Zinc	21.7	0.433	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	372	0.0542	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	143	0.0542	"	"	"	"	"	"	
Sodium	107	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-17@5'
2205304-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.3			%	1	BFE0616	05/26/22	05/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.492	0.0100		mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.86			pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-18@5'
2205304-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-18@5'
2205304-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.142	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-18@5'
2205304-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.96	0.225	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	280	0.451	"	"	"	"	"	"
Cadmium	ND	0.225	"	"	"	"	"	"
Copper	10.6	0.451	"	"	"	"	"	"
Lead	5.83	0.225	"	"	"	"	"	"
Nickel	10.8	0.451	"	"	"	"	"	"
Selenium	0.742	0.293	"	"	"	"	"	"
Silver	0.0460	0.0225	"	"	"	"	"	"
Zinc	26.0	0.451	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1540	0.0563	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	152	0.0563	"	"	"	"	"	"	
Sodium	291	0.0563	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.89	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-18@5'
2205304-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.8	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.56	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-19@5'
2205304-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-19@5'
2205304-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.193	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-19@5'
2205304-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.07	0.214	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	59.4	0.427	"	"	"	"	"	"
Cadmium	ND	0.214	"	"	"	"	"	"
Copper	7.61	0.427	"	"	"	"	"	"
Lead	5.76	0.214	"	"	"	"	"	"
Nickel	9.69	0.427	"	"	"	"	"	"
Selenium	0.651	0.278	"	"	"	"	"	"
Silver	ND	0.0214	"	"	"	"	"	"
Zinc	25.4	0.427	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1990	0.0534	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	143	0.0534	"	"	"	"	"	"	
Sodium	194	0.0534	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-19@5'
2205304-09 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.6			%	1	BFE0616	05/26/22	05/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.687	0.0100		mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.67			pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-20@5'
2205304-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-20@5'
2205304-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		67.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.181	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-20@5'
2205304-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.91	0.219	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	123	0.439	"	"	"	"	"	"
Cadmium	ND	0.219	"	"	"	"	"	"
Copper	8.38	0.439	"	"	"	"	"	"
Lead	5.24	0.219	"	"	"	"	"	"
Nickel	10.1	0.439	"	"	"	"	"	"
Selenium	0.573	0.285	"	"	"	"	"	"
Silver	0.0253	0.0219	"	"	"	"	"	"
Zinc	22.4	0.439	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2240	0.0549	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	127	0.0549	"	"	"	"	"	"	
Sodium	139	0.0549	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.773	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

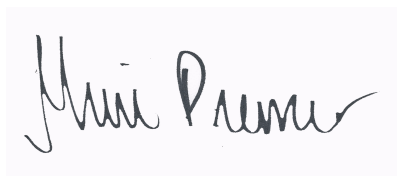
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

SW-20@5'
2205304-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.1	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.618	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-5@11'
2205304-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-5@11'
2205304-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.213	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-5@11'
2205304-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.59	0.226	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	103	0.452	"	"	"	"	"	"
Cadmium	ND	0.226	"	"	"	"	"	"
Copper	9.00	0.452	"	"	"	"	"	"
Lead	6.37	0.226	"	"	"	"	"	"
Nickel	9.40	0.452	"	"	"	"	"	"
Selenium	0.796	0.294	"	"	"	"	"	"
Silver	0.0296	0.0226	"	"	"	"	"	"
Zinc	28.4	0.452	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2140	0.0565	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	216	0.0565	"	"	"	"	"	"	
Sodium	174	0.0565	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.959	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-5@11'
2205304-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.4	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.599	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-6@11'
2205304-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-6@11'
2205304-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.268	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-6@11'
2205304-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.57	0.234	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	186	0.468	"	"	"	"	"	"
Cadmium	0.337	0.234	"	"	"	"	"	"
Copper	10.0	0.468	"	"	"	"	"	"
Lead	7.19	0.234	"	"	"	"	"	"
Nickel	10.8	0.468	"	"	"	"	"	"
Selenium	1.07	0.304	"	"	"	"	"	"
Silver	ND	0.0234	"	"	"	"	"	"
Zinc	28.8	0.468	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5930	0.0585	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	243	0.0585	"	"	"	"	"	"	
Sodium	312	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.08	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-6@11'
2205304-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.4	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.745	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-7@11'
2205304-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-7@11'
2205304-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.321	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-7@11'
2205304-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.84	0.232	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	98.4	0.465	"	"	"	"	"	"
Cadmium	0.484	0.232	"	"	"	"	"	"
Copper	19.3	0.465	"	"	"	"	"	"
Lead	22.0	0.232	"	"	"	"	"	"
Nickel	10.9	0.465	"	"	"	"	"	"
Selenium	0.985	0.302	"	"	"	"	"	"
Silver	0.246	0.0232	"	"	"	"	"	"
Zinc	67.0	0.465	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12900	0.0581	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	457	0.0581	"	"	"	"	"	"	
Sodium	215	0.0581	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.507	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-7@11'
2205304-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.1	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.594	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-8@11'
2205304-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0420	05/19/22	05/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0421	05/19/22	05/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-8@11'
2205304-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.192	0.0100	mg/L	1	BFE0662	05/27/22	06/01/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-8@11'
2205304-14 (Soil)

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Total Metals by EPA 6020B

Arsenic	4.32	0.226	mg/kg dry	1	BFE0601	05/26/22	05/29/22	EPA 6020B
Barium	88.1	0.453	"	"	"	"	"	"
Cadmium	ND	0.226	"	"	"	"	"	"
Copper	9.48	0.453	"	"	"	"	"	"
Lead	7.67	0.226	"	"	"	"	"	"
Nickel	10.0	0.453	"	"	"	"	"	"
Selenium	0.830	0.294	"	"	"	"	"	"
Silver	0.0333	0.0226	"	"	"	"	"	"
Zinc	31.2	0.453	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0053	06/02/22	06/02/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2130	0.0566	mg/L dry	1	BFE0572	05/25/22	05/29/22	EPA 6020B	
Magnesium	227	0.0566	"	"	"	"	"	"	
Sodium	143	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.787	0.00100	units	1	BFE0686	05/29/22	05/29/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

BH-8@11'
2205304-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.4	%	1	BFE0616	05/26/22	05/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.526	0.0100	mmhos/cm	1	BFE0574	05/25/22	05/26/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/18/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BFE0573	05/25/22	05/26/22	EPA 9045D	

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1675 Broadway
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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

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 BFE0420 - EPA 5030 Soil MS

Blank (BFE0420-BLK1)

Prepared: 05/19/22 Analyzed: 05/20/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.4	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

LCS (BFE0420-BS1)

Prepared: 05/19/22 Analyzed: 05/20/22

Benzene	0.0620	0.0020	mg/kg	0.0750		82.7	70-130			
Toluene	0.0612	0.0050	"	0.0750		81.6	70-130			
Ethylbenzene	0.0540	0.0050	"	0.0750		72.0	70-130			
m,p-Xylene	0.122	0.010	"	0.150		81.6	70-130			
o-Xylene	0.0589	0.0050	"	0.0750		78.5	70-130			
1,2,4-Trimethylbenzene	0.0560	0.0050	"	0.0750		74.7	70-130			
1,3,5-Trimethylbenzene	0.0546	0.0050	"	0.0750		72.8	70-130			
Naphthalene	0.0820	0.0038	"	0.0750		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

Matrix Spike (BFE0420-MS1)

Source: 2205262-01

Prepared: 05/19/22 Analyzed: 05/20/22

Benzene	0.0603	0.0020	mg/kg	0.0750	ND	80.4	70-130			
Toluene	0.0638	0.0050	"	0.0750	ND	85.0	70-130			
Ethylbenzene	0.0584	0.0050	"	0.0750	ND	77.8	70-130			
m,p-Xylene	0.132	0.010	"	0.150	ND	88.0	70-130			
o-Xylene	0.0635	0.0050	"	0.0750	ND	84.6	70-130			
1,2,4-Trimethylbenzene	0.0619	0.0050	"	0.0750	ND	82.5	70-130			
1,3,5-Trimethylbenzene	0.0602	0.0050	"	0.0750	ND	80.3	70-130			
Naphthalene	0.0945	0.0038	"	0.0750	ND	126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

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 BFE0420 - EPA 5030 Soil MS

Matrix Spike Dup (BFE0420-MSD1)	Source: 2205262-01			Prepared: 05/19/22 Analyzed: 05/20/22						
Benzene	0.0606	0.0020	mg/kg	0.0750	ND	80.8	70-130	0.397	30	
Toluene	0.0620	0.0050	"	0.0750	ND	82.7	70-130	2.81	30	
Ethylbenzene	0.0566	0.0050	"	0.0750	ND	75.5	70-130	3.03	30	
m,p-Xylene	0.130	0.010	"	0.150	ND	87.0	70-130	1.14	30	
o-Xylene	0.0630	0.0050	"	0.0750	ND	84.0	70-130	0.759	30	
1,2,4-Trimethylbenzene	0.0607	0.0050	"	0.0750	ND	81.0	70-130	1.91	30	
1,3,5-Trimethylbenzene	0.0592	0.0050	"	0.0750	ND	78.9	70-130	1.81	30	
Naphthalene	0.0948	0.0038	"	0.0750	ND	126	70-130	0.349	30	
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0400		94.4	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFE0421 - EPA 3550A

Blank (BFE0421-BLK1)

Prepared & Analyzed: 05/19/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFE0421-BS1)

Prepared & Analyzed: 05/19/22

C10-C28 (DRO)	444	50	mg/kg	500	88.9	70-130
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Matrix Spike (BFE0421-MS1)

Source: 2205262-01

Prepared & Analyzed: 05/19/22

C10-C28 (DRO)	407	50	mg/kg	500	51.0	71.1	70-130
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Matrix Spike Dup (BFE0421-MSD1)

Source: 2205262-01

Prepared & Analyzed: 05/19/22

C10-C28 (DRO)	407	50	mg/kg	500	51.0	71.2	70-130	0.129	20
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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFE0488 - EPA 5030 Soil MS

Blank (BFE0488-BLK1)

Prepared & Analyzed: 05/23/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0304		"	0.0333		91.3	40-150			
Surrogate: Fluoranthene-d10	0.0301		"	0.0333		90.4	40-150			

LCS (BFE0488-BS1)

Prepared & Analyzed: 05/23/22

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		79.0	31-137			
Anthracene	0.0288	0.00500	"	0.0333		86.4	30-120			
Benzo (a) anthracene	0.0275	0.00500	"	0.0333		82.6	30-120			
Benzo (a) pyrene	0.0273	0.00500	"	0.0333		82.0	30-120			
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333		85.6	30-120			
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333		92.7	30-120			
Chrysene	0.0298	0.00500	"	0.0333		89.4	30-120			
Dibenz (a,h) anthracene	0.0211	0.00500	"	0.0333		63.4	30-120			
Fluoranthene	0.0323	0.00500	"	0.0333		96.8	30-120			
Fluorene	0.0284	0.00500	"	0.0333		85.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333		55.5	30-120			
Pyrene	0.0294	0.00500	"	0.0333		88.1	35-142			
1-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.6	35-142			
2-Methylnaphthalene	0.0245	0.00500	"	0.0333		73.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0243		"	0.0333		73.0	40-150			
Surrogate: Fluoranthene-d10	0.0306		"	0.0333		91.8	40-150			

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFE0488 - EPA 5030 Soil MS

Matrix Spike (BFE0488-MS1)

Source: 2205301-01

Prepared & Analyzed: 05/23/22

Acenaphthene	0.0136	0.00500	mg/kg	0.0333	ND	40.9	31-137				
Anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120				
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120				
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.1	30-120				
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120				
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Chrysene	0.0150	0.00500	"	0.0333	ND	45.0	30-120				
Dibenz (a,h) anthracene	0.0109	0.00500	"	0.0333	ND	32.7	30-120				
Fluoranthene	0.0133	0.00500	"	0.0333	ND	40.0	30-120				
Fluorene	0.0135	0.00500	"	0.0333	ND	40.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0104	0.00500	"	0.0333	ND	31.2	30-120				
Pyrene	0.0146	0.00500	"	0.0333	ND	43.9	35-142				
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.7	15-130				
2-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0143		"	0.0333		42.9	40-150				
Surrogate: Fluoranthene-d10	0.0135		"	0.0333		40.6	40-150				

Matrix Spike Dup (BFE0488-MSD1)

Source: 2205301-01

Prepared & Analyzed: 05/23/22

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137	39.3	30	QR-02
Anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	48.3	30	QR-02
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	45.3	30	QR-02
Benzo (a) pyrene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	46.9	30	QR-02
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	52.3	30	QR-02
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	39.4	30	QR-02
Chrysene	0.0243	0.00500	"	0.0333	ND	73.0	30-120	47.3	30	QR-02
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	43.8	30	QR-02
Fluoranthene	0.0249	0.00500	"	0.0333	ND	74.7	30-120	60.5	30	QR-02
Fluorene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	46.1	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	30.4	30	QR-02
Pyrene	0.0246	0.00500	"	0.0333	ND	73.7	35-142	50.7	30	QR-02
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130	42.9	50	
2-Methylnaphthalene	0.0218	0.00500	"	0.0333	ND	65.5	15-130	43.4	50	
Surrogate: 2-Methylnaphthalene-d10	0.0219		"	0.0333		65.8	40-150			
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.9	40-150			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFE0662 - EPA 3050B

Blank (BFE0662-BLK1)

Prepared: 05/27/22 Analyzed: 05/31/22

Boron ND 0.0100 mg/L

LCS (BFE0662-BS1)

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 5.69 0.0100 mg/L 5.00 114 80-120

Duplicate (BFE0662-DUP1)

Source: 2205274-01

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 0.0420 0.0100 mg/L 0.0474 12.0 20

Matrix Spike (BFE0662-MS1)

Source: 2205274-01

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 5.64 0.0100 mg/L 5.00 0.0474 112 75-125

Matrix Spike Dup (BFE0662-MSD1)

Source: 2205274-01

Prepared: 05/27/22 Analyzed: 06/01/22

Boron 5.85 0.0100 mg/L 5.00 0.0474 116 75-125 3.65 25

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1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0601 - EPA 3050B

Blank (BFE0601-BLK1)

Prepared: 05/26/22 Analyzed: 05/29/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFE0601-BS1)

Prepared: 05/26/22 Analyzed: 05/29/22

Arsenic	45.1	0.200	mg/kg wet	40.0	113	80-120
Barium	41.0	0.400	"	40.0	102	80-120
Cadmium	1.98	0.200	"	2.00	99.2	80-120
Copper	44.2	0.400	"	40.0	111	80-120
Lead	18.6	0.200	"	20.0	93.2	80-120
Nickel	43.0	0.400	"	40.0	107	80-120
Selenium	3.93	0.260	"	4.00	98.3	80-120
Silver	2.00	0.0200	"	2.00	99.8	80-120
Zinc	44.8	0.400	"	40.0	112	80-120

Duplicate (BFE0601-DUP1)

Source: 2205261-20

Prepared: 05/26/22 Analyzed: 05/29/22

Arsenic	4.55	0.257	mg/kg dry	4.40	3.31	20
Barium	160	0.513	"	146	8.81	20
Cadmium	0.293	0.257	"	0.279	4.80	20
Copper	18.5	0.513	"	17.3	6.86	20
Lead	11.7	0.257	"	10.7	8.72	20
Nickel	18.8	0.513	"	17.6	6.78	20
Selenium	1.21	0.334	"	1.22	1.22	20
Silver	0.0639	0.0257	"	0.0600	6.38	20
Zinc	63.8	0.513	"	59.8	6.42	20

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0601 - EPA 3050B

Matrix Spike (BFE0601-MS1)		Source: 2205261-20			Prepared: 05/26/22 Analyzed: 05/29/22					
Arsenic	58.8	0.257	mg/kg dry	51.3	4.40	106	75-125			
Barium	216	0.513	"	51.3	146	135	75-125			QM-02
Cadmium	2.75	0.257	"	2.57	0.279	96.4	75-125			
Copper	71.1	0.513	"	51.3	17.3	105	75-125			
Lead	31.0	0.257	"	25.7	10.7	79.3	75-125			
Nickel	73.5	0.513	"	51.3	17.6	109	75-125			
Selenium	4.84	0.334	"	5.13	1.22	70.5	75-125			QM-05
Silver	2.45	0.0257	"	2.57	0.0600	93.3	75-125			
Zinc	116	0.513	"	51.3	59.8	109	75-125			

Matrix Spike Dup (BFE0601-MSD1)		Source: 2205261-20			Prepared: 05/26/22 Analyzed: 05/29/22					
Arsenic	58.0	0.257	mg/kg dry	51.3	4.40	104	75-125	1.39	25	
Barium	214	0.513	"	51.3	146	131	75-125	0.962	25	QM-02
Cadmium	2.75	0.257	"	2.57	0.279	96.2	75-125	0.153	25	
Copper	69.2	0.513	"	51.3	17.3	101	75-125	2.69	25	
Lead	31.1	0.257	"	25.7	10.7	79.6	75-125	0.239	25	
Nickel	72.5	0.513	"	51.3	17.6	107	75-125	1.34	25	
Selenium	4.82	0.334	"	5.13	1.22	70.0	75-125	0.546	25	QM-05
Silver	2.46	0.0257	"	2.57	0.0600	93.4	75-125	0.0995	25	
Zinc	113	0.513	"	51.3	59.8	103	75-125	2.53	25	

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Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFF0053 - 3060A Mod

Blank (BFF0053-BLK1)

Prepared & Analyzed: 06/02/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0053-BS1)

Prepared & Analyzed: 06/02/22

Chromium, Hexavalent 27.2 0.30 mg/kg wet 25.0 109 80-120

Duplicate (BFF0053-DUP1)

Source: 2205304-01

Prepared & Analyzed: 06/02/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0053-MS1)

Source: 2205304-01

Prepared & Analyzed: 06/02/22

Chromium, Hexavalent 31.1 0.30 mg/kg dry 29.8 ND 104 75-125

Matrix Spike Dup (BFF0053-MSD1)

Source: 2205304-01

Prepared & Analyzed: 06/02/22

Chromium, Hexavalent 35.3 0.30 mg/kg dry 29.8 ND 118 75-125 12.8 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFE0572 - General Preparation

Blank (BFE0572-BLK1)

Prepared: 05/25/22 Analyzed: 05/28/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFE0572-BS1)

Prepared: 05/25/22 Analyzed: 05/28/22

Calcium	572	0.0500	mg/L wet	500	114	70-130
Magnesium	541	0.0500	"	500	108	70-130
Sodium	500	0.0500	"	500	100	70-130

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A

Project Number: Moser 1-A

Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFE0616 - General Preparation

Duplicate (BFE0616-DUP1)		Source: 2205304-01			Prepared: 05/26/22 Analyzed: 05/27/22					
% Solids	83.8		%		83.8			0.00472	20	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFE0574 - General Preparation

Blank (BFE0574-BLK1)

Prepared: 05/25/22 Analyzed: 05/26/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFE0574-BS1)

Prepared: 05/25/22 Analyzed: 05/26/22

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BFE0574-DUP1)

Source: 2205302-01

Prepared: 05/25/22 Analyzed: 05/26/22

Specific Conductance (EC) 0.573 0.0100 mmhos/cm 0.590 2.82 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
Project Number: Moser 1-A
Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFE0573 - General Preparation

LCS (BFE0573-BS1)

Prepared: 05/25/22 Analyzed: 05/26/22

pH	9.01	pH Units	9.18	98.1	95-105
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Duplicate (BFE0573-DUP1)

Source: 2205302-01

Prepared: 05/25/22 Analyzed: 05/26/22

pH	8.00	pH Units	8.03	0.374	20
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Moser 1-A
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Project Manager: Jennifer Galles

Reported:
06/03/22 10:34

Notes and Definitions

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.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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