

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 03, 2022

Kevin Tautkus
K.P. Kauffman
1675 Broadway
Denver, CO 80202

RE: MCU 73

Work Order #2209331

Enclosed are the results of analyses for samples received by Summit Scientific on 09/16/22 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1@2'	2209331-01	Soil	09/15/22 09:30	09/16/22 12:00
SS-2@4'	2209331-02	Soil	09/15/22 09:35	09/16/22 12:00
SS-3@3'	2209331-03	Soil	09/15/22 09:40	09/16/22 12:00
SS-4@2'	2209331-04	Soil	09/15/22 09:45	09/16/22 12:00
SS-5@4'	2209331-05	Soil	09/15/22 09:50	09/16/22 12:00
SS-6@3'	2209331-06	Soil	09/15/22 09:55	09/16/22 12:00
SS-7@3'	2209331-07	Soil	09/15/22 10:00	09/16/22 12:00
SS-8@2'	2209331-08	Soil	09/15/22 10:05	09/16/22 12:00
SS-9@2'	2209331-09	Soil	09/15/22 10:10	09/16/22 12:00
SS-10@2'	2209331-10	Soil	09/15/22 10:15	09/16/22 12:00
Background1@2'	2209331-11	Soil	09/15/22 10:20	09/16/22 12:00
Background2@2'	2209331-12	Soil	09/15/22 10:25	09/16/22 12:00
Background3@2'	2209331-13	Soil	09/15/22 10:30	09/16/22 12:00
Background4@2'	2209331-14	Soil	09/15/22 10:35	09/16/22 12:00
Background5@2'	2209331-15	Soil	09/15/22 10:40	09/16/22 12:00
Background6@2'	2209331-16	Soil	09/15/22 10:45	09/16/22 12:00

Summit Scientific

S₂

2209331.1

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

Page 1 of 2

Client: KP Kaufmann / Marcom Project Manager: Kevin Teitkus
 Address: 1625 Broadway E-Mail: primmycenter@marcomllc.net
 City/State/Zip: Denver, CO 80202
 Phone: 303 875 4922 Project Name: MCU ~~#73~~ #73
 Sampler Name: CP & HC Project Number: MCU ~~#73~~ #73

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Fe	Mn	Pb	Cd	Cr		Co	Cu	Zn	As	Hg	Se	Mo	Ni	Ag	Au	Al	Sr	Ba	Ca	Mg	K	Na	Li	Be	B	C	N	O	S	Cl	F	Br	I	Si	Ti	V	Zr	Nb	Sb	Te	Bi	Po	At	Rn	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Pb	Bi	Po	At	Rn	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn

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2209331.2

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4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 2

Client: KEP Kaufman / Marcom

Project Manager: Kevin Tautkus

Address: 1675 Broadway

E-Mail: pr.mrgent@marcomllc.net

City/State/Zip: Denver CO 80202

Phone: 303.825.9822

Project Name: MLV ~~#75~~ #73

Sampler Name: CP & HC

Project Number: MLV ~~#75~~ #73

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	Background 1 @ 2'	9-15-22	1020	2			X			X							
2	Background 2 @ 2'		1025	2													
3	Background 3 @ 2'		1030	2													
4	Background 4 @ 2'		1035	2													
5	Background 5 @ 2'		1040	2													
6	Background 6 @ 2'		1045	2													
7																	
8																	
9																	
10																	

Relinquished by: <u>Hansen</u>	Date/Time: <u>9/16/22 1200</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/16/22 1200</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>120</u>	
				Samples Intact: <u>Yes</u> No	

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2/2

2209331

Sample Receipt Checklist

S2 Work Order#

Client: KPK

Client Project ID: MCU #73

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

Airbill #:

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

9-16-22 19:20



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-1@2'
2209331-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/21/22	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: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		75.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		83.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-1@2'
2209331-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/26/22	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: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		86.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.793	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:30**

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: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-1@2'
2209331-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.47	0.221	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	111	0.442	"	"	"	"	"	"	
Cadmium	ND	0.221	"	"	"	"	"	"	
Copper	8.79	0.442	"	"	"	"	"	"	
Lead	5.33	0.221	"	"	"	"	"	"	
Nickel	10.4	0.442	"	"	"	"	"	"	
Selenium	0.579	0.287	"	"	"	"	"	"	
Silver	0.0512	0.0221	"	"	"	"	"	"	
Zinc	29.0	0.442	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.3	0.0553	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	3.34	0.0553	"	"	"	"	"	"	
Sodium	142	0.0553	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.16	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:30**

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

Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-1@2'
2209331-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.4	%	1	BF10659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.508	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-2@4'
2209331-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/21/22	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: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		71.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-2@4'
2209331-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/26/22	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: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		93.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.508	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:35**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-2@4'
2209331-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.63	0.229	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	173	0.458	"	"	"	"	"	"	
Cadmium	ND	0.229	"	"	"	"	"	"	
Copper	7.41	0.458	"	"	"	"	"	"	
Lead	6.06	0.229	"	"	"	"	"	"	
Nickel	11.0	0.458	"	"	"	"	"	"	
Selenium	0.661	0.298	"	"	"	"	"	"	
Silver	0.0307	0.0229	"	"	"	"	"	"	
Zinc	29.7	0.458	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.2	0.0572	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	5.83	0.0572	"	"	"	"	"	"	
Sodium	374	0.0572	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	18.3	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:35**

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

Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-2@4'
2209331-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.4	%	1	BF10659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.08	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-3@3'
2209331-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/21/22	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: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		72.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-3@3'
2209331-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/26/22	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: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		91.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.227	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:40**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-3@3'
2209331-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.91	0.220	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	180	0.440	"	"	"	"	"	"	
Cadmium	ND	0.220	"	"	"	"	"	"	
Copper	8.59	0.440	"	"	"	"	"	"	
Lead	5.37	0.220	"	"	"	"	"	"	
Nickel	9.45	0.440	"	"	"	"	"	"	
Selenium	0.564	0.286	"	"	"	"	"	"	
Silver	0.0483	0.0220	"	"	"	"	"	"	
Zinc	26.8	0.440	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.9	0.0551	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	8.27	0.0551	"	"	"	"	"	"	
Sodium	25.1	0.0551	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.05	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:40**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-3@3'
2209331-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.8	%	1	BFI0659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.304	0.0100	mmhos/cm	1	BFI0603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BFI0602	09/22/22	09/23/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-4@2'
2209331-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFI0495	09/20/22	09/21/22	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: **09/15/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		70.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	1700	50		mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	370	50		"	"	"	"	"	"	

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		301 %		30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-4@2'
2209331-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BFI0578	09/22/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.0826	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10		95.6 %	40-150		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.347	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:45**

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: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-4@2'
2209331-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.05	0.231	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	139	0.463	"	"	"	"	"	"	
Cadmium	ND	0.231	"	"	"	"	"	"	
Copper	7.24	0.463	"	"	"	"	"	"	
Lead	4.57	0.231	"	"	"	"	"	"	
Nickel	9.16	0.463	"	"	"	"	"	"	
Selenium	0.558	0.301	"	"	"	"	"	"	
Silver	0.0530	0.0231	"	"	"	"	"	"	
Zinc	24.0	0.463	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.8	0.0579	mg/L dry	1	BF10601	09/22/22	09/27/22	EPA 6020B	
Magnesium	3.52	0.0579	"	"	"	"	"	"	
Sodium	216	0.0579	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.5	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:45**

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

Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-4@2'
2209331-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.4	%	1	BF10659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-5@4'
2209331-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BF10495	09/20/22	09/21/22	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	0.0090	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50		"	"	"	"	"	"	

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		72.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BF10498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		128 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-5@4'
2209331-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00614	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0295	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00635	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: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		88.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.618	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:50**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-5@4'
2209331-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.12	0.212	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	80.5	0.425	"	"	"	"	"	"	
Cadmium	ND	0.212	"	"	"	"	"	"	
Copper	9.21	0.425	"	"	"	"	"	"	
Lead	5.59	0.212	"	"	"	"	"	"	
Nickel	11.5	0.425	"	"	"	"	"	"	
Selenium	0.544	0.276	"	"	"	"	"	"	
Silver	0.0431	0.0212	"	"	"	"	"	"	
Zinc	34.0	0.425	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.01	0.0531	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	1.77	0.0531	"	"	"	"	"	"	
Sodium	112	0.0531	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.79	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:50**

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

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-5@4'
2209331-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	94.1	%	1	BFI0659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.573	0.0100	mmhos/cm	1	BFI0603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BFI0602	09/22/22	09/23/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-6@3'
2209331-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/22/22	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: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		79.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-6@3'
2209331-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10578	09/22/22	09/27/22	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: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.167	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 09:55**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-6@3'
2209331-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.12	0.212	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	84.3	0.423	"	"	"	"	"	"	
Cadmium	ND	0.212	"	"	"	"	"	"	
Copper	11.3	0.423	"	"	"	"	"	"	
Lead	5.82	0.212	"	"	"	"	"	"	
Nickel	11.8	0.423	"	"	"	"	"	"	
Selenium	0.633	0.275	"	"	"	"	"	"	
Silver	0.0795	0.0212	"	"	"	"	"	"	
Zinc	35.7	0.423	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.78	0.0529	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	1.92	0.0529	"	"	"	"	"	"	
Sodium	53.0	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.63	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 09:55**

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

Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-6@3'
2209331-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	94.5	%	1	BF10659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0561	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-7@3'
2209331-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/22/22	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: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		122 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-7@3'
2209331-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/27/22	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: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		74.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.235	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:00**

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

Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-7@3'
2209331-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.18	0.220	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	128	0.440	"	"	"	"	"	"	
Cadmium	ND	0.220	"	"	"	"	"	"	
Copper	5.75	0.440	"	"	"	"	"	"	
Lead	3.92	0.220	"	"	"	"	"	"	
Nickel	6.48	0.440	"	"	"	"	"	"	
Selenium	0.319	0.286	"	"	"	"	"	"	
Silver	ND	0.0220	"	"	"	"	"	"	
Zinc	19.6	0.440	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.4	0.0550	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	4.29	0.0550	"	"	"	"	"	"	
Sodium	136	0.0550	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.57	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-7@3'
2209331-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.781	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-8@2'
2209331-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/22/22	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: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	90	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		133 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
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Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-8@2'
2209331-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/27/22	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: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		94.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.145	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:05**

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

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-8@2'
2209331-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.58	0.215	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	123	0.429	"	"	"	"	"	"	
Cadmium	ND	0.215	"	"	"	"	"	"	
Copper	9.53	0.429	"	"	"	"	"	"	
Lead	5.78	0.215	"	"	"	"	"	"	
Nickel	9.01	0.429	"	"	"	"	"	"	
Selenium	0.557	0.279	"	"	"	"	"	"	
Silver	0.0475	0.0215	"	"	"	"	"	"	
Zinc	31.9	0.429	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.0	0.0536	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	5.12	0.0536	"	"	"	"	"	"	
Sodium	151	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.46	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:05**

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

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-8@2'
2209331-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.2	%	1	BFI0659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.916	0.0100	mmhos/cm	1	BFI0603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BFI0602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-9@2'
2209331-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/22/22	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: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	510	50	mg/kg	1	BFI0498	09/20/22	09/23/22	EPA 8015M	
C28-C36 (ORO)	200	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		134 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
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Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-9@2'
2209331-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BFI0578	09/22/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	ND	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10		80.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.118	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
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Project: MCU 73

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Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-9@2'
2209331-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.27	0.208	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B
Barium	109	0.417	"	"	"	"	"	"
Cadmium	0.220	0.208	"	"	"	"	"	"
Copper	11.3	0.417	"	"	"	"	"	"
Lead	8.21	0.208	"	"	"	"	"	"
Nickel	9.72	0.417	"	"	"	"	"	"
Selenium	0.668	0.271	"	"	"	"	"	"
Silver	0.0316	0.0208	"	"	"	"	"	"
Zinc	47.1	0.417	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0521	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	9.30	0.0521	"	"	"	"	"	"	
Sodium	8.81	0.0521	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.270	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:10**

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

Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

SS-9@2'
2209331-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	96.0	%	1	BFI0659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.502	0.0100	mmhos/cm	1	BFI0603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BFI0602	09/22/22	09/23/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

SS-10@2'
2209331-10 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFI0495	09/20/22	09/22/22	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: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0498	09/20/22	09/24/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

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10/03/22 11:04

SS-10@2'
2209331-10 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFI0578	09/22/22	09/27/22	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: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		74.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0781	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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1675 Broadway
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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

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10/03/22 11:04

SS-10@2'
2209331-10 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.62	0.229	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	213	0.457	"	"	"	"	"	"	
Cadmium	0.274	0.229	"	"	"	"	"	"	
Copper	10.1	0.457	"	"	"	"	"	"	
Lead	5.29	0.229	"	"	"	"	"	"	
Nickel	11.9	0.457	"	"	"	"	"	"	
Selenium	0.813	0.297	"	"	"	"	"	"	
Silver	0.0693	0.0229	"	"	"	"	"	"	
Zinc	26.8	0.457	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.0	0.0571	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	4.89	0.0571	"	"	"	"	"	"	
Sodium	6.78	0.0571	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.226	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: MCU 73
 Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
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SS-10@2'
2209331-10 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.5	%	1	BF10659	09/26/22	09/27/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.223	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

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Background1@2'
2209331-11 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.116	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.14	0.206	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	130	0.412	"	"	"	"	"	"	
Cadmium	0.329	0.206	"	"	"	"	"	"	
Copper	13.0	0.412	"	"	"	"	"	"	
Lead	9.06	0.206	"	"	"	"	"	"	
Nickel	9.06	0.412	"	"	"	"	"	"	
Selenium	0.706	0.268	"	"	"	"	"	"	
Silver	0.0338	0.0206	"	"	"	"	"	"	
Zinc	50.4	0.412	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.4	0.0515	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	4.87	0.0515	"	"	"	"	"	"	
Sodium	2.65	0.0515	"	"	"	"	"	"	

Calculated Analysis

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Project: MCU 73

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10/03/22 11:04

Background1@2'
2209331-11 (Soil)

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Calculated Analysis

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0916	0.00100	units	1	BFI0693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BFI0659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.409	0.0100	mmhos/cm	1	BFI0603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BFI0602	09/22/22	09/23/22	EPA 9045D	

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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

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10/03/22 11:04

Background2@2'
2209331-12 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.172	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.09	0.206	mg/kg dry	1	BFI0652	09/26/22	09/28/22	EPA 6020B	
Barium	110	0.412	"	"	"	"	"	"	
Cadmium	0.214	0.206	"	"	"	"	"	"	
Copper	11.6	0.412	"	"	"	"	"	"	
Lead	8.06	0.206	"	"	"	"	"	"	
Nickel	8.47	0.412	"	"	"	"	"	"	
Selenium	0.657	0.268	"	"	"	"	"	"	
Silver	0.0324	0.0206	"	"	"	"	"	"	
Zinc	44.0	0.412	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFI0695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.1	0.0515	mg/L dry	1	BFI0601	09/22/22	09/24/22	EPA 6020B	
Magnesium	5.47	0.0515	"	"	"	"	"	"	
Sodium	2.59	0.0515	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background2@2'
2209331-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.113	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.271	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background3@2'
2209331-13 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.169	0.0100	mg/L	1	BFI0689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.75	0.204	mg/kg dry	1	BFI0652	09/26/22	09/28/22	EPA 6020B	
Barium	105	0.408	"	"	"	"	"	"	
Cadmium	0.339	0.204	"	"	"	"	"	"	
Copper	11.8	0.408	"	"	"	"	"	"	
Lead	7.91	0.204	"	"	"	"	"	"	
Nickel	7.51	0.408	"	"	"	"	"	"	
Selenium	0.495	0.265	"	"	"	"	"	"	
Silver	0.0288	0.0204	"	"	"	"	"	"	
Zinc	45.3	0.408	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFI0695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.6	0.0510	mg/L dry	1	BFI0601	09/22/22	09/24/22	EPA 6020B	
Magnesium	7.10	0.0510	"	"	"	"	"	"	
Sodium	3.08	0.0510	"	"	"	"	"	"	

Calculated Analysis

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Reported:
10/03/22 11:04

Background3@2'
2209331-13 (Soil)

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Calculated Analysis

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.121	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.0		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.341	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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1675 Broadway
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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background4@2'
2209331-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0915	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.27	0.203	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	78.9	0.406	"	"	"	"	"	"	
Cadmium	0.229	0.203	"	"	"	"	"	"	
Copper	10.1	0.406	"	"	"	"	"	"	
Lead	7.65	0.203	"	"	"	"	"	"	
Nickel	7.17	0.406	"	"	"	"	"	"	
Selenium	0.557	0.264	"	"	"	"	"	"	
Silver	0.0248	0.0203	"	"	"	"	"	"	
Zinc	37.4	0.406	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.40	0.0508	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	3.82	0.0508	"	"	"	"	"	"	
Sodium	23.7	0.0508	"	"	"	"	"	"	

Calculated Analysis

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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background4@2'
2209331-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.4		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.190	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.29		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background5@2'
2209331-15 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.0894	0.0100		mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.85	0.204		mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	109	0.408		"	"	"	"	"	"	
Cadmium	0.248	0.204		"	"	"	"	"	"	
Copper	11.3	0.408		"	"	"	"	"	"	
Lead	8.00	0.204		"	"	"	"	"	"	
Nickel	7.59	0.408		"	"	"	"	"	"	
Selenium	0.676	0.265		"	"	"	"	"	"	
Silver	ND	0.0204		"	"	"	"	"	"	
Zinc	42.4	0.408		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	38.4	0.0510		mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	12.4	0.0510		"	"	"	"	"	"	
Sodium	18.6	0.0510		"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73
Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background5@2'
2209331-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.668	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.0		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.480	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background6@2'
2209331-16 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.110	0.0100	mg/L	1	BF10689	09/26/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.10	0.205	mg/kg dry	1	BF10652	09/26/22	09/28/22	EPA 6020B	
Barium	133	0.409	"	"	"	"	"	"	
Cadmium	0.335	0.205	"	"	"	"	"	"	
Copper	14.0	0.409	"	"	"	"	"	"	
Lead	9.35	0.205	"	"	"	"	"	"	
Nickel	8.94	0.409	"	"	"	"	"	"	
Selenium	0.738	0.266	"	"	"	"	"	"	
Silver	0.0262	0.0205	"	"	"	"	"	"	
Zinc	52.4	0.409	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10695	09/27/22	09/27/22	EPA 7196A	

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

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0512	mg/L dry	1	BF10601	09/22/22	09/24/22	EPA 6020B	
Magnesium	5.73	0.0512	"	"	"	"	"	"	
Sodium	1.92	0.0512	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Background6@2'
2209331-16 (Soil)

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Calculated Analysis

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0938	0.00100	units	1	BF10693	09/27/22	09/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.220	0.0100	mmhos/cm	1	BF10603	09/22/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BF10602	09/22/22	09/23/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0495 - EPA 5030 Soil MS

Blank (BFI0495-BLK1)

Prepared: 09/20/22 Analyzed: 09/21/22

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	0.0334		"	0.0400		83.4	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.5	50-150			

LCS (BFI0495-BS1)

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.107	0.0020	mg/kg	0.125		85.5	70-130			
Toluene	0.127	0.0050	"	0.125		101	70-130			
Ethylbenzene	0.135	0.0050	"	0.125		108	70-130			
m,p-Xylene	0.277	0.010	"	0.250		111	70-130			
o-Xylene	0.133	0.0050	"	0.125		107	70-130			
1,2,4-Trimethylbenzene	0.136	0.0050	"	0.125		109	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.125		112	70-130			
Naphthalene	0.136	0.0038	"	0.125		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0300		"	0.0400		75.0	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

Matrix Spike (BFI0495-MS1)

Source: 2209331-01

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.121	0.0020	mg/kg	0.125	ND	96.6	70-130			
Toluene	0.0993	0.0050	"	0.125	ND	79.4	70-130			
Ethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
m,p-Xylene	0.285	0.010	"	0.250	ND	114	70-130			
o-Xylene	0.135	0.0050	"	0.125	ND	108	70-130			
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.125	ND	115	70-130			
1,3,5-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130			
Naphthalene	0.110	0.0038	"	0.125	ND	87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0314		"	0.0400		78.6	50-150			
Surrogate: Toluene-d8	0.0333		"	0.0400		83.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

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1675 Broadway
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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0495 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0495-MSD1)

Source: 2209331-01

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.127	0.0020	mg/kg	0.125	ND	101	70-130	4.97	30	
Toluene	0.120	0.0050	"	0.125	ND	96.0	70-130	18.8	30	
Ethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130	1.75	30	
m,p-Xylene	0.282	0.010	"	0.250	ND	113	70-130	1.00	30	
o-Xylene	0.136	0.0050	"	0.125	ND	109	70-130	0.442	30	
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130	0.314	30	
1,3,5-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	0.434	30	
Naphthalene	0.114	0.0038	"	0.125	ND	91.5	70-130	4.29	30	
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	50-150			

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1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0498 - EPA 3550A

Blank (BFI0498-BLK1)

Prepared: 09/20/22 Analyzed: 09/23/22

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

LCS (BFI0498-BS1)

Prepared: 09/20/22 Analyzed: 09/23/22

C10-C28 (DRO)	509	50	mg/kg	500	102	70-130					
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Matrix Spike (BFI0498-MS1)

Source: 2209331-01

Prepared: 09/20/22 Analyzed: 09/23/22

C10-C28 (DRO)	453	50	mg/kg	500	18.9	86.8	70-130				
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Matrix Spike Dup (BFI0498-MSD1)

Source: 2209331-01

Prepared: 09/20/22 Analyzed: 09/23/22

C10-C28 (DRO)	474	50	mg/kg	500	18.9	90.9	70-130	4.45	20		
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0578 - EPA 5030 Soil MS

Blank (BFI0578-BLK1)

Prepared: 09/22/22 Analyzed: 09/26/22

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0340</i>		"	<i>0.0333</i>		<i>102</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0354</i>		"	<i>0.0333</i>		<i>106</i>		<i>40-150</i>		

LCS (BFI0578-BS1)

Prepared: 09/22/22 Analyzed: 09/26/22

Acenaphthene	0.0295	0.00500	mg/kg	0.0333	88.4	31-137
Anthracene	0.0296	0.00500	"	0.0333	88.8	30-120
Benzo (a) anthracene	0.0309	0.00500	"	0.0333	92.7	30-120
Benzo (a) pyrene	0.0302	0.00500	"	0.0333	90.7	30-120
Benzo (b) fluoranthene	0.0311	0.00500	"	0.0333	93.4	30-120
Benzo (k) fluoranthene	0.0311	0.00500	"	0.0333	93.4	30-120
Chrysene	0.0263	0.00500	"	0.0333	78.8	30-120
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	72.3	30-120
Fluoranthene	0.0289	0.00500	"	0.0333	86.6	30-120
Fluorene	0.0293	0.00500	"	0.0333	87.9	30-120
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	71.0	30-120
Pyrene	0.0258	0.00500	"	0.0333	77.5	35-142
1-Methylnaphthalene	0.0254	0.00500	"	0.0333	76.1	35-142
2-Methylnaphthalene	0.0298	0.00500	"	0.0333	89.5	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0362</i>		"	<i>0.0333</i>	<i>109</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0327</i>		"	<i>0.0333</i>	<i>98.2</i>	<i>40-150</i>

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0578 - EPA 5030 Soil MS

Matrix Spike (BFI0578-MS1)	Source: 2209331-01			Prepared: 09/22/22 Analyzed: 09/26/22							
Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.7	31-137				
Anthracene	0.0230	0.00500	"	0.0333	ND	69.1	30-120				
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.4	30-120				
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	63.8	30-120				
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120				
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	65.9	30-120				
Chrysene	0.0226	0.00500	"	0.0333	ND	67.7	30-120				
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120				
Fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	30-120				
Fluorene	0.0224	0.00500	"	0.0333	ND	67.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	30-120				
Pyrene	0.0161	0.00500	"	0.0333	ND	48.3	35-142				
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.3	15-130				
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.5	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0333</i>		<i>83.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0233</i>		<i>"</i>	<i>0.0333</i>		<i>69.8</i>	<i>40-150</i>				

Matrix Spike Dup (BFI0578-MSD1)	Source: 2209331-01			Prepared: 09/22/22 Analyzed: 09/26/22							
Acenaphthene	0.0210	0.00500	mg/kg	0.0333	ND	62.9	31-137	8.89	30		
Anthracene	0.0212	0.00500	"	0.0333	ND	63.7	30-120	8.12	30		
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	9.26	30		
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	8.97	30		
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	8.75	30		
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	10.5	30		
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	7.78	30		
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.2	30-120	4.96	30		
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	6.54	30		
Fluorene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	10.5	30		
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	33.8	30		QR-02
Pyrene	0.0126	0.00500	"	0.0333	ND	37.8	35-142	24.3	30		
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	17.7	50		
2-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.6	15-130	18.4	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0210</i>		<i>"</i>	<i>0.0333</i>		<i>62.9</i>	<i>40-150</i>				

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

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

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

Batch BFI0689 - EPA 3050B

Blank (BFI0689-BLK1)

Prepared: 09/26/22 Analyzed: 09/30/22

Boron ND 0.0100 mg/L

LCS (BFI0689-BS1)

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 4.85 0.0100 mg/L 5.00 97.0 80-120

Duplicate (BFI0689-DUP1)

Source: 2209331-01

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 0.713 0.0100 mg/L 0.793 10.6 20

Matrix Spike (BFI0689-MS1)

Source: 2209331-01

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 5.31 0.0100 mg/L 5.00 0.793 90.4 75-125

Matrix Spike Dup (BFI0689-MSD1)

Source: 2209331-01

Prepared: 09/26/22 Analyzed: 09/30/22

Boron 5.38 0.0100 mg/L 5.00 0.793 91.7 75-125 1.28 25

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0652 - EPA 3050B

Blank (BFI0652-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

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 (BFI0652-BS1)

Prepared: 09/26/22 Analyzed: 09/28/22

Arsenic	46.7	0.200	mg/kg wet	40.0	117	80-120
Barium	43.9	0.400	"	40.0	110	80-120
Cadmium	2.20	0.200	"	2.00	110	80-120
Copper	45.0	0.400	"	40.0	112	80-120
Lead	21.5	0.200	"	20.0	107	80-120
Nickel	44.9	0.400	"	40.0	112	80-120
Selenium	4.46	0.260	"	4.00	111	80-120
Silver	2.19	0.0200	"	2.00	109	80-120
Zinc	46.2	0.400	"	40.0	116	80-120

Duplicate (BFI0652-DUP1)

Source: 2207358-05

Prepared: 09/26/22 Analyzed: 09/28/22

Arsenic	2.73	0.232	mg/kg dry	2.61	4.51	20
Barium	509	0.465	"	502	1.54	20
Cadmium	0.134	0.232	"	0.131	1.89	20
Copper	8.64	0.465	"	8.46	2.08	20
Lead	5.48	0.232	"	5.23	4.80	20
Nickel	6.40	0.465	"	6.36	0.635	20
Selenium	0.641	0.302	"	0.631	1.57	20
Silver	0.0219	0.0232	"	0.0219	0.0940	20
Zinc	25.7	0.465	"	25.5	1.05	20

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0652 - EPA 3050B

Matrix Spike (BFI0652-MS1)	Source: 2207358-05			Prepared: 09/26/22 Analyzed: 09/28/22								
Arsenic	56.1	0.232	mg/kg dry	46.5	2.61	115	75-125					
Barium	516	0.465	"	46.5	502	30.5	75-125					QM-02
Cadmium	2.66	0.232	"	2.32	0.131	109	75-125					
Copper	58.4	0.465	"	46.5	8.46	107	75-125					
Lead	29.0	0.232	"	23.2	5.23	102	75-125					
Nickel	57.2	0.465	"	46.5	6.36	109	75-125					
Selenium	5.57	0.302	"	4.65	0.631	106	75-125					
Silver	2.46	0.0232	"	2.32	0.0219	105	75-125					
Zinc	78.8	0.465	"	46.5	25.5	115	75-125					

Matrix Spike Dup (BFI0652-MSD1)	Source: 2207358-05			Prepared: 09/26/22 Analyzed: 09/28/22								
Arsenic	56.4	0.232	mg/kg dry	46.5	2.61	116	75-125	0.510	25			
Barium	558	0.465	"	46.5	502	121	75-125	7.81	25			
Cadmium	2.91	0.232	"	2.32	0.131	120	75-125	9.00	25			
Copper	58.9	0.465	"	46.5	8.46	109	75-125	0.942	25			
Lead	31.2	0.232	"	23.2	5.23	112	75-125	7.48	25			
Nickel	57.5	0.465	"	46.5	6.36	110	75-125	0.569	25			
Selenium	5.78	0.302	"	4.65	0.631	111	75-125	3.70	25			
Silver	2.69	0.0232	"	2.32	0.0219	115	75-125	8.72	25			
Zinc	79.4	0.465	"	46.5	25.5	116	75-125	0.752	25			

Summit Scientific

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K.P. Kauffman
1675 Broadway
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Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFI0695 - 3060A Mod

Blank (BFI0695-BLK1)

Prepared & Analyzed: 09/27/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0695-BS1)

Prepared & Analyzed: 09/27/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFI0695-DUP1)

Source: 2209261-01

Prepared & Analyzed: 09/27/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0695-MS1)

Source: 2209261-01

Prepared & Analyzed: 09/27/22

Chromium, Hexavalent 31.5 0.30 mg/kg dry 27.9 ND 113 75-125

Matrix Spike Dup (BFI0695-MSD1)

Source: 2209261-01

Prepared & Analyzed: 09/27/22

Chromium, Hexavalent 29.7 0.30 mg/kg dry 27.9 ND 106 75-125 5.84 20

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

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

Summit Scientific

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

Batch BFI0601 - General Preparation

Blank (BFI0601-BLK1)

Prepared: 09/22/22 Analyzed: 09/24/22

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

LCS (BFI0601-BS1)

Prepared: 09/22/22 Analyzed: 09/24/22

Calcium	5.79	0.0500	mg/L wet	5.00	116	70-130				
Magnesium	6.00	0.0500	"	5.00	120	70-130				
Sodium	5.72	0.0500	"	5.00	114	70-130				

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

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

Summit Scientific

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

Batch BFI0659 - General Preparation

Duplicate (BFI0659-DUP1)

Source: 2209331-01

Prepared: 09/26/22 Analyzed: 09/27/22

% Solids	88.2		%		90.4			2.48	20	
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

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

Summit Scientific

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

Batch BFI0603 - General Preparation

Blank (BFI0603-BLK1)

Prepared: 09/22/22 Analyzed: 09/23/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0603-BS1)

Prepared: 09/22/22 Analyzed: 09/23/22

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BFI0603-DUP1)

Source: 2209329-21

Prepared: 09/22/22 Analyzed: 09/23/22

Specific Conductance (EC) 1.18 0.0100 mmhos/cm 1.18 0.00 20

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: MCU 73

Project Number: [none]
 Project Manager: Kevin Tautkus

Reported:
 10/03/22 11:04

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

Summit Scientific

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

Batch BFI0602 - General Preparation

LCS (BFI0602-BS1)

Prepared: 09/22/22 Analyzed: 09/23/22

pH	9.12	pH Units	9.18	99.3	95-105
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Duplicate (BFI0602-DUP1)

Source: 2209329-21

Prepared: 09/22/22 Analyzed: 09/23/22

pH	7.98	pH Units	7.93	0.629	20
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: MCU 73

Project Number: [none]
Project Manager: Kevin Tautkus

Reported:
10/03/22 11:04

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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-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