

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 24, 2023

Levi Kirk

Fundare

1811 East Mulberry St

Fort Collins, CO 80525

RE: Wolf 35-2613H

Work Order #2304189

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source Sample 1@1'	2304189-01	Soil	04/10/23 10:30	04/10/23 16:30

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.

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2304189	

Send Data To:		Send Invoice To:
Client: MarCom LLC	Project Manager: Levi Kirk	Company: Fundare
Address: 1613 Prospect Parkway Suit 120	E-Mail: Lkirk@MarComllc.net	Project Name/Location: Wolf 35-2613H
City/State/Zip: Ft Collins, CO. 80524	fundare2@MarComllc.net	AFE#:
Phone: 970.237.1415	Project Name: Wolf 35-2613H	PO/Billing Codes:
Sampler Name: CPX ES	Project Number: 411A	Contact:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	Full Table 915								
1	Source sample 1 e 1'	04.10.23	1030	2		X				X			X								
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
John Doe	04.10.23 1445			Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
SZ	41023 1030		41023 1030	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	x Field Turb.	
Temperature Upon Receipt: 11.7		Corrected Temperature 6		IR gun #:	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2304189Client: MarcomClient Project ID: Wolf 35-2613HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☐Other ☐

Temp (°C)

11.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>none</u>
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.
AS
Custodian Printed Name

4/10/23
Date/Time



Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Source Sample 1@1'
2304189-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	3.3	0.20	mg/kg	100	BGD0394	04/12/23	04/14/23	EPA 8260B	
Toluene	43	0.50	"	"	"	"	"	"	
Ethylbenzene	30	0.50	"	"	"	"	"	"	
Xylenes (total)	81	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	31	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	7.6	0.50	"	"	"	"	"	"	
Naphthalene	8.3	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3000	50	"	"	"	"	"	"	

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0527	132 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	15000	50	mg/kg	1	BGD0395	04/12/23	04/15/23	EPA 8015M	
C28-C36 (ORO)	2900	50	"	"	"	"	"	"	

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	23.8	190 %	30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

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Project: Wolf 35-2613H
Project Number: [none]
Project Manager: Levi Kirk

Reported:
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Source Sample 1@1'
2304189-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BGD0359	04/12/23	04/13/23	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	0.338	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	1.31	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	4.24	0.0500	"	"	"	"	"	"	E
2-Methylnaphthalene	7.73	0.0500	"	"	"	"	"	"	E

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%	40-150		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.674	0.0100	mg/L	1	BGD0375	04/12/23	04/19/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fort Collins CO, 80525

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Source Sample 1@1'
2304189-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.87	0.210	mg/kg dry	1	BGD0335	04/13/23	04/18/23	EPA 6020B
Barium	85.4	0.421	"	"	"	"	"	"
Cadmium	ND	0.210	"	"	"	"	"	"
Copper	5.19	0.421	"	"	"	"	"	"
Lead	3.29	0.210	"	"	"	"	"	"
Nickel	3.27	0.421	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0210	"	"	"	"	"	"
Zinc	14.4	0.421	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

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

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.6	0.0526	mg/L dry	1	BGD0478	04/16/23	04/21/23	EPA 6020B	
Magnesium	4.69	0.0526	"	"	"	"	"	"	
Sodium	235	0.0526	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.41	0.00100	units	1	BGD0731	04/22/23	04/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
Project Manager: Levi Kirk

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04/24/23 16:27

Source Sample 1@1'
2304189-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGD0340	04/11/23	04/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.64	0.0100	mmhos/cm	1	BGD0519	04/17/23	04/17/23	EPA 120.1	

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

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.20		pH Units	1	BGD0518	04/17/23	04/17/23	EPA 9045D	

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Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGD0394 - EPA 5030 Soil MS

Blank (BGD0394-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

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	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

LCS (BGD0394-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0834	0.0020	mg/kg	0.100		83.4	70-130			
Toluene	0.0885	0.0050	"	0.100		88.5	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.204	0.010	"	0.200		102	70-130			
o-Xylene	0.0971	0.0050	"	0.100		97.1	70-130			
1,2,4-Trimethylbenzene	0.0995	0.0050	"	0.100		99.5	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0788	0.0038	"	0.100		78.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.3	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

Matrix Spike (BGD0394-MS1)

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0899	0.0020	mg/kg	0.100	ND	89.9	70-130			
Toluene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.214	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.0895	0.0038	"	0.100	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.1	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

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Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGD0394 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0394-MSD1)

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0879	0.0020	mg/kg	0.100	ND	87.9	70-130	2.19	30	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130	2.88	30	
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	0.0816	30	
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130	0.964	30	
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130	0.351	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.196	30	
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	0.800	30	
Naphthalene	0.0868	0.0038	"	0.100	ND	86.8	70-130	3.03	30	
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0400		89.9	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.3	50-150			

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Project: Wolf 35-2613H
Project Number: [none]
Project Manager: Levi Kirk

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04/24/23 16:27

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGD0395 - EPA 3550A

Blank (BGD0395-BLK1)

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

LCS (BGD0395-BS1)

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	460	50	mg/kg	500		91.9	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

Matrix Spike (BGD0395-MS1)

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	416	50	mg/kg	500	27.5	77.7	70-130			
Surrogate: o-Terphenyl	12.5		"	12.5		99.9	30-150			

Matrix Spike Dup (BGD0395-MSD1)

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	404	50	mg/kg	500	27.5	75.2	70-130	2.99	20	
Surrogate: o-Terphenyl	11.1		"	12.5		88.6	30-150			

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Project: Wolf 35-2613H
Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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 BGD0359 - EPA 5030 Soil MS

Blank (BGD0359-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0224		"	0.0333		67.1	40-150			
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.5	40-150			

LCS (BGD0359-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0287	0.00500	mg/kg	0.0333		86.1	31-137			
Anthracene	0.0245	0.00500	"	0.0333		73.5	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333		65.3	30-120			
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.5	30-120			
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333		69.8	30-120			
Benzo (k) fluoranthene	0.0186	0.00500	"	0.0333		55.8	30-120			
Chrysene	0.0176	0.00500	"	0.0333		52.9	30-120			
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333		60.5	30-120			
Fluoranthene	0.0233	0.00500	"	0.0333		69.9	30-120			
Fluorene	0.0255	0.00500	"	0.0333		76.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333		81.0	30-120			
Pyrene	0.0169	0.00500	"	0.0333		50.8	35-142			
1-Methylnaphthalene	0.0214	0.00500	"	0.0333		64.1	35-142			
2-Methylnaphthalene	0.0275	0.00500	"	0.0333		82.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.8	40-150			
Surrogate: Fluoranthene-d10	0.0291		"	0.0333		87.4	40-150			

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0359 - EPA 5030 Soil MS

Matrix Spike (BGD0359-MS1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137		
Anthracene	0.0188	0.00500	"	0.0333	ND	56.3	30-120		
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	0.00103	44.4	30-120		
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.0	30-120		
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120		
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Chrysene	0.0141	0.00500	"	0.0333	0.000583	40.5	30-120		
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.5	30-120		
Fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120		
Fluorene	0.0200	0.00500	"	0.0333	ND	60.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120		
Pyrene	0.0151	0.00500	"	0.0333	ND	45.3	35-142		
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130		
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.5	40-150		
Surrogate: Fluoranthene-d10	0.0367		"	0.0333		110	40-150		

Matrix Spike Dup (BGD0359-MSD1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	31-137	0.594	30
Anthracene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	0.910	30
Benzo (a) anthracene	0.0165	0.00500	"	0.0333	0.00103	46.3	30-120	3.89	30
Benzo (a) pyrene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	9.93	30
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	12.2	30
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	15.7	30
Chrysene	0.0134	0.00500	"	0.0333	0.000583	38.5	30-120	4.80	30
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	11.7	30
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	0.458	30
Fluorene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	0.747	30
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	19.7	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.2	35-142	8.16	30
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	12.1	50
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130	3.74	50
Surrogate: 2-Methylnaphthalene-d10	0.0178		"	0.0333		53.4	40-150		
Surrogate: Fluoranthene-d10	0.0267		"	0.0333		80.1	40-150		

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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

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

Batch BGD0375 - EPA 3050B

Blank (BGD0375-BLK1)

Prepared: 04/12/23 Analyzed: 04/18/23

Boron ND 0.0100 mg/L

LCS (BGD0375-BS1)

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.63 0.0100 mg/L 5.00 113 80-120

Duplicate (BGD0375-DUP1)

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 0.0949 0.0100 mg/L 0.101 6.15 20

Matrix Spike (BGD0375-MS1)

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.52 0.0100 mg/L 5.00 0.101 108 75-125

Matrix Spike Dup (BGD0375-MSD1)

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.54 0.0100 mg/L 5.00 0.101 109 75-125 0.343 25

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGD0335 - EPA 3050B

Blank (BGD0335-BLK1)

Prepared: 04/13/23 Analyzed: 04/18/23

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 (BGD0335-BS1)

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	39.7	0.200	mg/kg wet	40.0	99.2	80-120
Barium	39.8	0.400	"	40.0	99.6	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	43.3	0.400	"	40.0	108	80-120
Lead	21.6	0.200	"	20.0	108	80-120
Nickel	41.8	0.400	"	40.0	105	80-120
Selenium	4.64	0.260	"	4.00	116	80-120
Silver	2.01	0.0200	"	2.00	101	80-120
Zinc	42.3	0.400	"	40.0	106	80-120

Duplicate (BGD0335-DUP1)

Source: 2304175-01

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	0.958	0.212	mg/kg dry	0.916	4.48	20
Barium	34.6	0.424	"	33.4	3.47	20
Cadmium	0.120	0.212	"	0.115	3.61	20
Copper	2.58	0.424	"	2.56	0.857	20
Lead	4.36	0.212	"	4.25	2.63	20
Nickel	2.87	0.424	"	2.89	0.839	20
Selenium	ND	0.260	"	ND		20
Silver	0.0195	0.0212	"	0.0191	2.20	20
Zinc	11.6	0.424	"	11.6	0.176	20

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGD0335 - EPA 3050B

Matrix Spike (BGD0335-MS1)

Source: 2304175-01

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	43.1	0.212	mg/kg dry	42.4	0.916	99.4	75-125
Barium	76.4	0.424	"	42.4	33.4	101	75-125
Cadmium	2.25	0.212	"	2.12	0.115	100	75-125
Copper	37.0	0.424	"	42.4	2.56	81.3	75-125
Lead	25.6	0.212	"	21.2	4.25	101	75-125
Nickel	36.2	0.424	"	42.4	2.89	78.6	75-125
Selenium	4.85	0.260	"	4.24	ND	114	75-125
Silver	2.14	0.0212	"	2.12	0.0191	99.9	75-125
Zinc	45.4	0.424	"	42.4	11.6	79.6	75-125

Matrix Spike Dup (BGD0335-MSD1)

Source: 2304175-01

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	43.0	0.212	mg/kg dry	42.4	0.916	99.3	75-125	0.143	25
Barium	77.0	0.424	"	42.4	33.4	103	75-125	0.700	25
Cadmium	2.30	0.212	"	2.12	0.115	103	75-125	2.37	25
Copper	37.1	0.424	"	42.4	2.56	81.4	75-125	0.139	25
Lead	25.6	0.212	"	21.2	4.25	101	75-125	0.156	25
Nickel	36.4	0.424	"	42.4	2.89	78.9	75-125	0.397	25
Selenium	4.93	0.260	"	4.24	ND	116	75-125	1.55	25
Silver	2.15	0.0212	"	2.12	0.0191	101	75-125	0.791	25
Zinc	45.7	0.424	"	42.4	11.6	80.4	75-125	0.711	25

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H
Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGD0457 - 3060A Mod

Blank (BGD0457-BLK1)

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGD0457-BS1)

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

Duplicate (BGD0457-DUP1)

Source: 2304189-01

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGD0457-MS1)

Source: 2304189-01

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.3 ND 93.0 75-125

Matrix Spike Dup (BGD0457-MSD1)

Source: 2304189-01

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 26.3 ND 93.4 75-125 0.429 20

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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

Summit Scientific

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

Batch BGD0478 - General Preparation

Blank (BGD0478-BLK1)

Prepared: 04/16/23 Analyzed: 04/21/23

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

LCS (BGD0478-BS1)

Prepared: 04/16/23 Analyzed: 04/21/23

Calcium	5.90	0.0500	mg/L wet	5.00	118	70-130
Magnesium	4.93	0.0500	"	5.00	98.6	70-130
Sodium	4.93	0.0500	"	5.00	98.6	70-130

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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

Summit Scientific

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

Batch BGD0340 - General Preparation

Duplicate (BGD0340-DUP1)		Source: 2304181-01		Prepared: 04/11/23 Analyzed: 04/12/23	
% Solids	86.5		%	86.0	0.559 20

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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

Summit Scientific

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

Batch BGD0519 - General Preparation

Blank (BGD0519-BLK1)

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0519-BS1)

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.2 95-105

Duplicate (BGD0519-DUP1)

Source: 2304181-01

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) 0.486 0.0100 mmhos/cm 0.492 1.33 20

Summit Scientific

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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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

Summit Scientific

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

Batch BGD0518 - General Preparation

LCS (BGD0518-BS1)

Prepared & Analyzed: 04/17/23

pH	8.95	pH Units	9.18	97.5	95-105
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Duplicate (BGD0518-DUP1)

Source: 2304181-01

Prepared & Analyzed: 04/17/23

pH	7.82	pH Units	7.78	0.513	20
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Fundare
1811 East Mulberry St
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]
Project Manager: Levi Kirk

Reported:
04/24/23 16:27

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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