

November 09, 2023

Fundare

Levi Kirk

1613 Propect Park Way Suite 120

Fort Collins CO 80525

Project Name - Horsetail 07F

Project Number - [none]

Attached are your analytical results for Horsetail 07F received by Origins Laboratory, Inc. October 31, 2023. This project is associated with Origins project number Y310815-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fundare  
1613 Propect Park Way Suite 120  
Fort Collins CO 80525

Levi Kirk  
Project Number: [none]  
Project: Horsetail 07F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1@2'	Y310815-01	Soil	October 31, 2023 10:50	10/31/2023 14:03

Origins Laboratory, Inc.



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Levi Kirk  
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4310815

**ORIGINS**  
 LABORATORY, INC

Client: Fundare - Bill To MarCom  
 Address: 1613 Prospect Park Way Suite 120  
 Telephone Number: 970-237-1415  
 Email Address: Fundare@marcomllc.net  
 Send Invoice to: hthatcher@marcomllc.net

Project Manager: Levi Kirk  
 Project Name: Horsetail 07F  
 Project Number:  
 Samples Collected By: ESPBR

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa		
55-102	10/31/23	10:50	2	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			Table 915 Inorganics	1
												2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: ESmy Security <i>[Signature]</i>	Date: 10/31/23	Time: 1403	Received By: EHS	Date: 01/31/23	Time: 1403	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						

Date Results Needed

3-3

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

Origins Laboratory, Inc.

*[Signature]*

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Levi Kirk  
 Project Number: [none]  
 Project: Horsetail 07F

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4310815

Client: Fundare  
 Client Project ID: Horsetail 07F

Checklist Completed by: FHS  
 Date/time completed: 01/31/23

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 13.3 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

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

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 11/1/23

Origins Laboratory, Inc.

[Signature]

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Levi Kirk  
 Project Number: [none]  
 Project: Horsetail 07F

**SS-1@2'**

**10/31/2023 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y310815-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.658		0.0992	mg/L	1	B3K0114	11/01/2023	11/02/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.718		0.499	meq/L	10	[CALC]	11/03/2023	11/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.01		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.53			pH Units	1	B3K0316	11/03/2023	11/04/2023	
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**SAR by 20B Saturated Paste**

SAR	8.69		0.0100	SAR	1	B3K0309	11/03/2023	11/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.458		0.00500	mmhos/cm	1	B3K0316	11/03/2023	11/04/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.56		0.0958	mg/kg	10	B3J3121	10/31/2023	11/01/2023	
Barium	505		9.58	"	"	"	"	"	
Cadmium	0.136		0.0958	"	"	"	"	"	
Copper	ND		9.58	"	"	"	"	"	

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Project Number: [none]  
Project: Horsetail 07F

**SS-1@2'**

**10/31/2023 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310815-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.58	mg/kg	10	B3J3121	10/31/2023	11/01/2023	
Nickel	ND		9.58	"	"	"	"	"	
Selenium	<b>0.138</b>		0.0958	"	"	"	"	"	
Silver	ND		0.0958	"	"	"	"	"	
Zinc	ND		95.8	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.123	0.306	mg/kg dry	1	2520379	11/07/2023	11/08/2023	U
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 Project: Horsetail 07F

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3J3121 - EPA 3050B**

**Blank (B3J3121-BLK1)**

Prepared: 10/31/2023 Analyzed: 11/01/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3J3121-BS1)**

Prepared: 10/31/2023 Analyzed: 11/01/2023

Arsenic	0.0468	0.000100	mg/kg	0.0500		93.5	80-120			
Barium	4.84	0.0100	"	5.00		96.7	80-120			
Cadmium	0.0476	0.000100	"	0.0500		95.1	80-120			
Copper	0.522	0.0100	"	0.500		104	80-120			
Lead	0.0469	0.0100	"	0.0500		93.8	80-120			
Nickel	0.0505	0.0100	"	0.0500		101	80-120			
Selenium	0.0487	0.000100	"	0.0500		97.4	80-120			
Silver	0.0494	0.000100	"	0.0500		98.9	80-120			
Zinc	0.484	0.100	"	0.500		96.8	80-120			

**Matrix Spike (B3J3121-MS1)**

Source: Y310776-01

Prepared: 10/31/2023 Analyzed: 11/01/2023

Arsenic	8.44	0.0934	mg/kg	4.67	4.18	91.4	75-125			
Barium	653	9.34	"	467	188	99.5	75-125			
Cadmium	4.85	0.0934	"	4.67	0.196	99.7	75-125			
Copper	63.6	9.34	"	46.7	15.9	102	75-125			
Lead	15.1	9.34	"	4.67	10.7	94.6	75-125			

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3J3121 - EPA 3050B**

**Matrix Spike (B3J3121-MS1)**

**Source: Y310776-01**

Prepared: 10/31/2023 Analyzed: 11/01/2023

Nickel	20.2	9.34	mg/kg	4.67	16.1	87.5	75-125			
Selenium	4.41	0.0934	"	4.67	0.180	90.6	75-125			
Silver	4.89	0.0934	"	4.67	0.0498	104	75-125			
Zinc	96.8	93.4	"	46.7	49.7	101	75-125			

**Matrix Spike Dup (B3J3121-MSD1)**

**Source: Y310776-01**

Prepared: 10/31/2023 Analyzed: 11/01/2023

Arsenic	8.61	0.0894	mg/kg	4.47	4.18	99.3	75-125	1.97	20	
Barium	696	8.94	"	447	188	114	75-125	6.35	20	
Cadmium	4.92	0.0894	"	4.47	0.196	106	75-125	1.41	20	
Copper	63.1	8.94	"	44.7	15.9	105	75-125	0.922	20	
Lead	15.8	8.94	"	4.47	10.7	113	75-125	4.16	20	
Nickel	20.8	8.94	"	4.47	16.1	106	75-125	3.11	20	
Selenium	4.36	0.0894	"	4.47	0.180	93.6	75-125	1.15	20	
Silver	4.90	0.0894	"	4.47	0.0498	109	75-125	0.187	20	
Zinc	97.3	89.4	"	44.7	49.7	107	75-125	0.531	20	

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3K0114 - DTPA Sorbitol Preparation**

**Blank (B3K0114-BLK1)**

Prepared: 11/01/2023 Analyzed: 11/02/2023

Boron ND 0.100 mg/L

**Duplicate (B3K0114-DUP1)**

**Source: Y310770-01**

Prepared: 11/01/2023 Analyzed: 11/02/2023

Boron 0.122 0.0991 mg/L 0.116 5.24 50

**Batch B3K0309 - Saturated Paste Metals**

**Blank (B3K0309-BLK1)**

Prepared: 11/03/2023 Analyzed: 11/06/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B3K0309-DUP1)**

**Source: Y310801-01**

Prepared: 11/03/2023 Analyzed: 11/06/2023

Calcium PPM 71.0 10.0 mg/L 75.1 5.63 50

SAR ND 0.0100 SAR 0.636 200

Magnesium PPM 17.6 10.0 mg/L 18.9 7.02 50

Sodium PPM 22.6 10.0 " 23.8 4.91 50

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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0316 - Saturated Paste pH/EC</b>										
<b>Blank (B3K0316-BLK1)</b>					Prepared: 11/03/2023 Analyzed: 11/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3K0316-DUP1)</b>					<b>Source: Y310801-01</b> Prepared: 11/03/2023 Analyzed: 11/04/2023					
pH	8.15		pH Units		8.17			0.245	25	
Specific Conductance (EC)	0.650	0.00500	mmhos/cm		0.672			3.30	25	

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**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2520379 - SW846 3060A</b>										
<b>BLANK (1205566999-BLK)</b>					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.398	mg/kg				-			U
<b>LCS (1205567000-BKS)</b>					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.17	0.319	mg/kg	3.19		99.3	80-120			
<b>DUP (1205567001 D)</b>					Source: 642617001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.404	mg/kg dry		<0.161		0-50	N/A	50	U
<b>MS (1205567002 S)</b>					Source: 642617001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.61	0.404	mg/kg dry	4.04	<0.161	87.2	75-125			
<b>DUP (1205567003 D)</b>					Source: 642636001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.283	mg/kg dry		<0.113		0-50	N/A	50	U
<b>MS (1205567004 S)</b>					Source: 642636001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	1.67	0.283	mg/kg dry	2.83	<0.113	58.9	75-125			
<b>ILCS (1205567005-ILCS)</b>					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	6.53	0.323	mg/kg	6.74		96.9	80-120			

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Project Number: [none]  
Project: Horsetail 07F

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### Notes and Definitions

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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