



Fundare

January 17, 2025

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 December 12, 2024. This project is associated with Origins project number E4L0464-01.

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
303.433.1322
projectmanager@originslab.com



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

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
SB-14@4'	E4L0464-01	Soil	December 12, 2024 8:15	12/12/2024 11:58
SB-14@6'	E4L0464-02	Soil	December 12, 2024 8:20	12/12/2024 11:58
SB-15@4'	E4L0464-03	Soil	December 12, 2024 11:15	12/12/2024 11:58
SB-15@6'	E4L0464-04	Soil	December 12, 2024 8:30	12/12/2024 11:58
SB-16@4'	E4L0464-05	Soil	December 12, 2024 8:35	12/12/2024 11:58
SB-16@6'	E4L0464-06	Soil	December 12, 2024 8:40	12/12/2024 11:58
SB-17@4'	E4L0464-07	Soil	December 12, 2024 8:45	12/12/2024 11:58
SB-17@6'	E4L0464-08	Soil	December 12, 2024 8:50	12/12/2024 11:58
SB-18@4'	E4L0464-09	Soil	December 12, 2024 8:55	12/12/2024 11:58
SB-18@6'	E4L0464-10	Soil	December 12, 2024 9:00	12/12/2024 11:58
SB-19@4'	E4L0464-11	Soil	December 12, 2024 9:05	12/12/2024 11:58
SB-19@6'	E4L0464-12	Soil	December 12, 2024 9:10	12/12/2024 11:58
SB-20@4'	E4L0464-13	Soil	December 12, 2024 9:15	12/12/2024 11:58
SB-20@6'	E4L0464-14	Soil	December 12, 2024 9:20	12/12/2024 11:58

Origins Laboratory



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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
SB-21@4'	E4L0464-15	Soil	December 12, 2024 9:25	12/12/2024 11:58
SB-21@6'	E4L0464-16	Soil	December 12, 2024 9:30	12/12/2024 11:58
SB-22@6'	E4L0464-17	Soil	December 12, 2024 9:35	12/12/2024 11:58
SB-22@8'	E4L0464-18	Soil	December 12, 2024 9:40	12/12/2024 11:58

Origins Laboratory

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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

ORIGINS
LABORATORY

3475 W. MAIN STREET
FORT COLLINS, CO 80501

6410461

Page 1 of 2

Client: Fundare

Project Manager: Levi Kirk

Key:

Address: 1613 Propect Park Way

Project Name: Horsetail 07F

W= Water

Project Number:

GW=Groundwater

Telephone Number:

Collected By: ESTBR

SW=Surface Water

Email Address: Fundare@prospectpark.com

Invoice/Billing Info: Fundare@prospectpark.com

WW=Waste Water

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UWP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis										Comments
					GC	MS	IC	FTIR	TOC	TP	DOC	POC	SR	OR	
SB-1404	12/13/14	8:15	2	UPLC Sol	X	X	X								
SB-1406		8:20													
SB-1504		8:25													
SB-1506		8:30													
SB-1604		8:35													
SB-1606		8:40													
SB-1704		8:45													
SB-1706		8:50													
SB-1804		8:55													
SB-1806		9:00													

Relinquished By: [Signature] Date: 12/13/14 Time: 158
Received By: [Signature] Date: 12/10/14 Time: 158
Temp Received: 13.9 Received On Ice? ☒ Yes ☐ No

Origins Laboratory

Bynon

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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

ORIGINS
LABORATORY

64104104

Page 2 of 2

Client: Fundare Project Manager: Levi Kirk Key: W=Water
Address: _____ Project Name: Horsetail 07F GW=Groundwater
Telephone Number: _____ Project Number: _____ SW=Surface Water
Email Address: Fundare@prospectpark.com Collected By: ESB WW=Waste Water
Invoice Billing Info: Fundare@prospectpark.com L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | VNP=Vapors | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis										Comments		
					1	2	3	4	5	6	7	8	9	10			
SB-1004	9/16/14	9:05	2	VNP	X	X	X										
SB-1004	9/16/14	9:10	1														
SB-2004	9/16/14	9:15	1														
SB-2004	9/16/14	9:20	1														
SB-2004	9/16/14	9:25	1														
SB-2004	9/16/14	9:30	1														
SB-2004	9/16/14	9:35	1														
SB-2004	9/16/14	9:40	1														

Relinquished By: [Signature] Date: 12/2/14 Time: 11:59 Received By: [Signature] Date: 12/2/14 Time: 11:59
Turnaround Time
☐ 48 Hr ☐ 72 Hr
☐ Standard ☐ SAME DAY ☐ 24 Hr

Temp Received: 39 Received On Ice? ☒ Yes ☐ No

Origins Laboratory

Bynon

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Fundare

1613 Propect Park Way Suite 120

Fort Collins

CO

80525

Levi Kirk

Project Number: [none]

Project: Horsetail 07F

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: E40404

Client: Fundare

Client Project ID: Horsetail

Checklist Completed by: AK

Date/time completed: 12/13/24

Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): SO Soil/Solid

Water Other:

Cooler Number/Temperature: 1130 °C / °C (Describe) °C

Thermometer ID: 2007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				
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 ⁽¹⁾ ?				
Was adequate sample volume provided ⁽¹⁾ ?				
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?				
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?				
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?				
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?				
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?				
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 ⁽¹⁾ ? (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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)				
Additional Comments (if any):				

⁽¹⁾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 (Project Manager) AK

12/13/24
Date/Time Reviewed

Origins Laboratory

J. Bynon

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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-14@4'

12/12/2024 8:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.963	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.03	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.59		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	2.49	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.582	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-14@6'

12/12/2024 8:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.25	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	3.59	0.823	"	"	"	"	"
Sodium	8.91	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.96		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	3.66	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.75	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-15@4'

12/12/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	10.9	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	2.34	0.823	"	"	"	"	"
Sodium	5.65	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	2.19	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.99	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-15@6'

12/12/2024 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.70	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	1.70	0.823	"	"	"	"	"
Sodium	5.81	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.17		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	3.25	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.38	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-16@4'

12/12/2024 8:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.671	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.04	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.53		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	3.49	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.274	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-16@6'

12/12/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.24	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.74		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	6.80	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.350	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-17@4'

12/12/2024 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	25.4	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.88		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	39.3	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.70	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-17@6'

12/12/2024 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.36	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	2.21	0.823	"	"	"	"	"
Sodium	37.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.47		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	28.3	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.26	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-18@4'

12/12/2024 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.42	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	4.65	0.823	"	"	"	"	"
Sodium	63.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	24.7	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.36	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-18@6'

12/12/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.691	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	1.13	0.823	"	"	"	"	"
Sodium	33.0	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.58		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	34.6	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.86	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-19@4'

12/12/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-11 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.38	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.79		pH Units	1	B4L1723	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	11.2	0.0100	SAR	1	B4L1715	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700	0.00500	mmhos/cm	1	B4L1723	12/17/2024	12/18/2024
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Origins Laboratory



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.

Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-19@6'

12/12/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-12 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	8.23	"	"	"	"	"
Sodium	6.04	4.35	"	"	"	"	"

pH in Soil by 9045D

pH	8.94		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.784	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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.

Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-20@4'

12/12/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-13 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	12.3	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.81		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	27.1	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.37	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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.

Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-20@6'

12/12/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-14 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	9.15	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	9.08		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	16.7	0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-21@4'

12/12/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-15 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	10.7	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	5.98	0.823	"	"	"	"	"
Sodium	37.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	13.1	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.20	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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.

Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-21@6'

12/12/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0464-16 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.61	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	1.13	0.823	"	"	"	"	"
Sodium	28.9	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	24.7	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.59	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-22@6'

12/12/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-17 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.71	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.94	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.12		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	5.24	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

SB-22@8'

12/12/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0464-18 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.97	0.499	meq/L	10	[CALC]	12/17/2024	12/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.40	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B4L1724	12/17/2024	12/18/2024
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SAR by 20B Saturated Paste

SAR	5.70	0.0100	SAR	1	B4L1716	12/17/2024	12/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.04	0.00500	mmhos/cm	1	B4L1724	12/17/2024	12/18/2024
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Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

Classical Chemistry Parameters - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L1715 - Saturated Paste Metals

Blank (B4L1715-BLK1)

Prepared: 12/17/2024 Analyzed: 12/23/2024

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 (B4L1715-DUP1)

Source: E4L0432-01

Prepared: 12/17/2024 Analyzed: 12/23/2024

Calcium PPM	39.5	10.0	mg/L	37.3	5.68	50
SAR	ND	0.0100	SAR	0.664		200
Magnesium PPM	13.5	10.0	mg/L	12.4	8.74	50
Sodium PPM	19.3	10.0	"	18.3	5.05	50

Batch B4L1716 - Saturated Paste Metals

Blank (B4L1716-BLK1)

Prepared: 12/17/2024 Analyzed: 12/23/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B4L1716-DUP1)

Source: E4L0464-12

Prepared: 12/17/2024 Analyzed: 12/23/2024

SAR	ND	0.0100	SAR	ND		200
Calcium PPM	ND	100	mg/L	ND		50
Magnesium PPM	ND	100	"	ND		50
Sodium PPM	141	100	"	139	1.50	50

Batch B4L2405 - Saturated Paste Metals

Blank (B4L2405-BLK1)

Prepared: 12/24/2024 Analyzed: 12/27/2024

Origins Laboratory



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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L2405 - Saturated Paste Metals

Blank (B4L2405-BLK1)

Prepared: 12/24/2024 Analyzed: 12/27/2024

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 (B4L2405-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/27/2024

Calcium PPM	29.1	10.0	mg/L	24.3	18.0	50
SAR	ND	0.0100	SAR	1.08	200	
Magnesium PPM	6.28	10.0	mg/L	5.46	14.0	50
Sodium PPM	24.4	10.0	"	22.6	7.75	50

Origins Laboratory

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Fundare
1613 Propect Park Way Suite 120
Fort Collins CO 80525

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

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L1723 - Saturated Paste pH/EC

Blank (B4L1723-BLK1)

Prepared: 12/17/2024 Analyzed: 12/18/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L1723-DUP1)

Source: E4L0432-01

Prepared: 12/17/2024 Analyzed: 12/18/2024

Specific Conductance (EC)	0.494	0.00500	mmhos/cm	0.448	9.90	25
pH	7.84		pH Units	7.91	0.889	25

Batch B4L1724 - Saturated Paste pH/EC

Blank (B4L1724-BLK1)

Prepared: 12/17/2024 Analyzed: 12/18/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L1724-DUP1)

Source: E4L0464-12

Prepared: 12/17/2024 Analyzed: 12/18/2024

Specific Conductance (EC)	0.774	0.00500	mmhos/cm	0.784	1.22	25
pH	8.96		pH Units	8.94	0.223	25

Origins Laboratory

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Fundare

1613 Propect Park Way Suite 120

Fort Collins CO 80525

Levi Kirk

Project Number: [none]

Project: Horsetail 07F

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

A handwritten signature in black ink, appearing to read "J. Bynon".

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