



February 23, 2024

Evergreen Natural Resources LLC

T.J. Fernandez

27000 Hwy 12

Trinidad

CO 81082

Project Name - Soils

Project Number - [none]

Attached are your analytical results for Soils received by Origins Laboratory, Inc. February 09, 2024. This project is associated with Origins project number Y402230-04.

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



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

Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Silverland 31-22 TR SS3	Y402230-04	Soil	February 8, 2024 13:10	02/09/2024 09:00
Silverland 31-22 TR Native #2	Y402230-05	Soil	February 8, 2024 13:10	02/09/2024 09:00
Silverland 31-22 TR Native #3	Y402230-06	Soil	February 8, 2024 13:10	02/09/2024 09:00
Silverland 31-22 TR Native #4	Y402230-07	Soil	February 8, 2024 13:10	02/09/2024 09:00
Chateau 34-14 SS1	Y402230-08	Soil	February 8, 2024 14:15	02/09/2024 09:00
Chateau 34-14 SS2	Y402230-09	Soil	February 8, 2024 14:15	02/09/2024 09:00
Chateau 34-14 SS3	Y402230-10	Soil	February 8, 2024 14:15	02/09/2024 09:00
Chateau 34-14 SS4	Y402230-11	Soil	February 8, 2024 14:15	02/09/2024 09:00
Chateau 34-14 Native #2	Y402230-12	Soil	February 8, 2024 14:15	02/09/2024 09:00

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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

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4402230

ORIGINS LABORATORY, INC

page 1 of 2

Client: Evergreen Natural Resources LLC  
Address: 27000 Hwy 12 Trinidad, CO 81082  
Telephone Number: 719-220-4330  
Email Address: labs@entllc.com

Project Manager: [blank]  
Project Name: [blank]  
Project Number: [blank]  
Samples Collected By: T. Fernandez

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 Canister #			Other
Tekmar 33-10 SS1	2-8-24	1230	1	X					X			pH	1
Tekmar 33-10 SS2	2-8-24	1230	2	X					X			pH, DRD	2
Tekmar 33-10 SS3	2-8-24	1230	1	X					X			pH	3
Silverclad 31-22 TR SS	2-8-24	1310	1	X					X			pH	4
Silverclad 31-22 TR SS #2	2-8-24	1310	1	X					X			AsenC	5
Silverclad 31-22 TR SS #3	2-8-24	1310	1	X					X			AsenC	6
Silverclad 31-22 TR SS #4	2-8-24	1310	1	X					X			AsenC	7
													8
													9
													10

Relinquished By: T. Fernandez

Relinquished By: [blank]

Date: 2-8-24

Date: [blank]

Time: 1600

Time: [blank]

Received By: [signature]

Received By: [blank]

Date: 2/9/24

Date: [blank]

Time: 900

Time: [blank]

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Origins Laboratory, Inc.

*J. Bynon*

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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

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page 2 of 2

# ORIGINS

LABORATORY, INC

Client: Evergreen Natural Resources LLC  
Address: 27000 Hwy 12 Trinidad, CO 81082  
Telephone Number: 719-220-4330  
Email Address: labs@enrllc.com

Project Manager:  
Project Name:  
Project Number:  
Samples Collected By: T. Fernandez

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
Chateau 34-14 S1	2-8-24	1415	1	Unpreserved	Soil	SAR	1
Chateau 34-14 S2	2-8-24	1415	2	Unpreserved	Soil	SAR, pH	2
Chateau 34-14 S3	2-8-24	1415	1	Unpreserved	Soil	SAR	3
Chateau 34-14 S4	2-8-24	1415	1	Unpreserved	Soil	SAR	4
Chateau 34-14 S5	2-8-24	1415	1	Unpreserved	Soil	SAR	5
							6
							7
							8
							9
							10
Relinquished By: T. Fernandez	Date: 2-8-24	Time: 1600	Time: 1600	Received By: [Signature]	Date: 2-9-24	Time: 900	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"/>

Origins Laboratory, Inc.

*J. Bynon*

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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4402230

Client: Evergreen Natural Res.

Client Project ID: Soils

Checklist Completed by: JST/VEHS

Shipped Via: HLN

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/19/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1004

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> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) 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 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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>NO project manager or project name on C.O.C.</u>				

<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 (Project Manager) [Signature]

2/12/24  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Evergreen Natural Resources LLC  
 27000 Hwy 12  
 Trinidad CO 81082

T.J. Fernandez  
 Project Number: [none]  
 Project: Soils

**Silverland 31-22 TR SS3**

**2/8/2024 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-04 (Soil)**

**pH in Soil by 9045D**

pH	8.73	pH Units	1	B4B0918	ACN	02/09/2024	02/10/2024
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Evergreen Natural Resources LLC  
 27000 Hwy 12  
 Trinidad CO 81082

T.J. Fernandez  
 Project Number: [none]  
 Project: Soils

**Silverland 31-22 TR Native #2**

**2/8/2024 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.01	0.0892	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
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Origins Laboratory, Inc.



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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

**Silverland 31-22 TR Native #3**

**2/8/2024 1:10:00PM**

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

**Origins Laboratory, Inc.**  
**Y402230-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	0.830	0.0859	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
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Evergreen Natural Resources LLC  
 27000 Hwy 12  
 Trinidad CO 81082

T.J. Fernandez  
 Project Number: [none]  
 Project: Soils

## Silverland 31-22 TR Native #4

2/8/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y402230-07 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.08	0.0908	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
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Origins Laboratory, Inc.



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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

**Chateau 34-14 SS1**  
**2/8/2024 2:15:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-08 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.25	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	1.67	0.823	"	"	"	ACC	"	"
Sodium	3.15	0.435	"	"	"	ACC	"	"

**SAR by 20B Saturated Paste**

SAR	2.25	0.0100	SAR	1	B4B1203	ACC	"	"
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Origins Laboratory, Inc.



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27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

**Chateau 34-14 SS2**  
**2/8/2024 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-09 (Soil)**

**DRO/ORO by EPA 8015D**

Residual Range Organics (C28-C40)	ND	100	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
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Surrogate: o-Terphenyl	80.3 %	50-150			"	"	"
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.11	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	2.92	0.823	"	"	"	ACC	"	"
Sodium	7.19	0.435	"	"	"	ACC	"	"

**SAR by 20B Saturated Paste**

SAR	3.83	0.0100	SAR	1	B4B1203	ACC	"	"
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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

**Chateau 34-14 SS3**  
**2/8/2024 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-10 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.00	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	0.909	0.823	"	"	"	ACC	"	"
Sodium	1.11	0.435	"	"	"	ACC	"	"

**SAR by 20B Saturated Paste**

SAR	0.917	0.0100	SAR	1	B4B1203	ACC	"	"
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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

**Chateau 34-14 SS4**  
**2/8/2024 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402230-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.73	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

**SAR by 20B Saturated Paste**

SAR	0.304	0.0100	SAR	1	B4B1203	ACC	"	"
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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

## Chateau 34-14 Native #2

2/8/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y402230-12 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	20.1	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	17.3	0.823	"	"	"	ACC	"	"
Sodium	57.7	0.435	"	"	"	ACC	"	"

### SAR by 20B Saturated Paste

SAR	13.3	0.0100	SAR	1	B4B1203	ACC	"	"
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27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1434 - EPA 3550B										
Blank (B4B1434-BLK1)					Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

Origins Laboratory, Inc.



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27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

Extractable Petroleum Hydrocarbons by 8015D - 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 B4B1434 - EPA 3550B

LCS (B4B1434-BS1)

Prepared: 02/14/2024 Analyzed: 02/19/2024

Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

## Extractable Petroleum Hydrocarbons by 8015D - 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 B4B1434 - EPA 3550B

Matrix Spike (B4B1434-MS1)		Source: Y402230-02			Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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27000 Hwy 12  
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T.J. Fernandez  
Project Number: [none]  
Project: Soils

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1434 - EPA 3550B										
Matrix Spike Dup (B4B1434-MSD1)		Source: Y402230-02			Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	4.71	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	7.42	35	
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

Origins Laboratory, Inc.



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Evergreen Natural Resources LLC  
27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

## Extractable Petroleum Hydrocarbons by 8015D - 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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## 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 B4B0922 - EPA 3050B

#### Blank (B4B0922-BLK1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic ND 0.0100 mg/kg

#### LCS (B4B0922-BS1)

Prepared: 02/09/2024 Analyzed: 02/16/2024

Arsenic 4.91 0.0100 mg/kg 5.00 98.2 80-120

#### Matrix Spike (B4B0922-MS1)

Source: Y402224-04

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic 9.07 0.0852 mg/kg 4.26 5.01 95.3 75-125

#### Matrix Spike Dup (B4B0922-MSD1)

Source: Y402224-04

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic 9.35 0.0933 mg/kg 4.66 5.01 93.0 75-125 3.00 20

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27000 Hwy 12  
Trinidad CO 81082

T.J. Fernandez  
Project Number: [none]  
Project: Soils

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4B1203 - Saturated Paste Metals</b>										
<b>Blank (B4B1203-BLK1)</b>					Prepared: 02/12/2024 Analyzed: 02/13/2024					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4B1203-DUP1)</b>					<b>Source: Y402223-08</b>		Prepared: 02/12/2024 Analyzed: 02/13/2024			
SAR	ND	0.0100	SAR		7.80				200	
Calcium PPM	56.7	10.0	mg/L		90.4			45.8	50	
Magnesium PPM	45.0	10.0	"		67.0			39.3	50	
Sodium PPM	323	10.0	"		401			21.7	50	

Origins Laboratory, Inc.



*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.*



Evergreen Natural Resources LLC  
 27000 Hwy 12  
 Trinidad CO 81082

T.J. Fernandez  
 Project Number: [none]  
 Project: Soils

## Saturated Paste - 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 B4B0918 - Saturated Paste pH/EC

Duplicate (B4B0918-DUP1)		Source: Y402219-01			Prepared: 02/09/2024 Analyzed: 02/10/2024					
pH	8.11		pH Units		8.03			0.991	25	

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27000 Hwy 12

Trinidad CO 81082

T.J. Fernandez

Project Number: [none]

Project: Soils

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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