

February 01, 2024

Evergreen Natural Resources LLC

T.J. Fernandez

27000 Hwy 12

Trinidad CO 81082

Project Name - 915 Soils

Project Number - [none]

Attached are your analytical results for 915 Soils received by Origins Laboratory, Inc. January 18, 2024. This project is associated with Origins project number Y401408-09.

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



Evergreen Natural Resources LLC
27000 Hwy 12
Trinidad CO 81082

T.J. Fernandez
Project Number: [none]
Project: 915 Soils

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Foxtrot 34-10 SS2	Y401408-09	Soil	January 15, 2024 13:30	01/18/2024 10:20
Foxtrot 34-10 SS3	Y401408-10	Soil	January 15, 2024 13:30	01/18/2024 10:20

Origins Laboratory, Inc.



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Evergreen Natural Resources LLC
 27000 Hwy 12
 Trinidad CO 81082

T.J. Fernandez
 Project Number: [none]
 Project: 915 Soils

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4401408

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #		
Rock Springs 34-33 SS2	1/11/2024	1330	2	X				X			Arsenic, ORO	1
Rock Springs 34-33 SS3	1/11/2024	1330	1	X				X			Arsenic	2
Rock Springs 34-33 Native #2	1/11/2024	1330	1	X				X			Arsenic	3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: <i>Loy D. M. [Signature]</i>	Date: 1-11-24	Time: 1600	Received By: <i>[Signature]</i>	Date: 11/24	Time: 1800	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By:	Date:	Time:							

Date Results Needed: 4

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: 915 Soils



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4401408

page 2 of 3

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

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
Bean 33-26 SS1	1/15/2023	1030	1	X					X			pH	1
Bean 33-26 SS2	1/15/2023	1115	1	X					X			pH	2
Patient 42-31 SS2	1/15/2023	1115	2	X					X			TPH, Organics	3
Lickity Split 43-12 SS2	1/15/2023	1235	2	X					X			ORO, Arsenic	4
Lickity Split 43-12 Native #2	1/15/2023	1235	1	X					X			Arsenic	5
Foxtrot 34-10 SS2	1/15/2023	1330	2	X					X			pH, ORO	6
Foxtrot 34-10 SS3	1/15/2023	1330	1	X					X			Arsenic	7
													8
													9
													10
Relinquished By: <i>Levi D. Montoya</i>	Date: 1-17-24	Time: 1600	Time: 1600	Time: 1600	Time: 1600	Time: 1600	Time: 1600	Received By: <i>[Signature]</i>	Received By: <i>[Signature]</i>	Date: 1/18/24	Time: 1020	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"/>	
Relinquished By: <i>[Signature]</i>	Date:	Time:	Time:	Time:	Time:	Time:	Time:	Received By:	Received By:	Date:	Time:		

4 Date Results Needed

Origins Laboratory, Inc.

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Evergreen Natural Resources LLC
 27000 Hwy 12
 Trinidad CO 81082

T.J. Fernandez
 Project Number: [none]
 Project: 915 Soils

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1401408

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ORIGINS
 LABORATORY, INC

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

Project Manager: _____
 Project Name: _____
 Project Number: _____
 Samples Collected By: labs@enrlc.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Conister #			Other
Jan H State 14-16 SS2	1/15/2023	1150	1	X					X			pH	1
Jan H State 14-16 SS3	1/15/2023	11501150	1	X					X			pH	2
Jan H State 14-16 SSO	1/15/2023	11501150	3	X					X			Full 915-1	3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: *Leij D. Masterson*
 Date: 1-19-24
 Time: 1600

Received By: *[Signature]*
 Date: 1/18/24
 Time: 1020

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

4 Date Results Needed

Origins Laboratory, Inc.

Bynon

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Evergreen Natural Resources LLC
 27000 Hwy 12
 Trinidad CO 81082

T.J. Fernandez
 Project Number: [none]
 Project: 915 Soils

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y401408

Client: Fasmat Energy cen

Client Project ID: _____

Checklist Completed by: EKS

Shipped Via: HO

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

Date/time completed: 1/14/24

Airbill #: N/A

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

Cooler Number/Temperature: 114 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" 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"/>		
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"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		no project name
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
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)		<input checked="" type="checkbox"/>		
Additional Comments (if any): <u>COC received w/white out</u>				

⁽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) [Signature]

Date/Time Reviewed 1/19/24

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: 915 Soils

Foxtrot 34-10 SS2
1/15/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401408-09 (Soil)

DRO/ORO by EPA 8015D

Residual Range Organics (C28-C40)	ND		100	mg/kg	1	B4A1902	01/19/2024	01/22/2024	U
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Surrogate: <i>o</i> -Terphenyl	88.1 %		50-150			"	"	"	
--------------------------------	--------	--	--------	--	--	---	---	---	--

pH in Soil by 9045D

pH	8.22			pH Units	1	B4A2010	01/20/2024	01/21/2024	
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Evergreen Natural Resources LLC
27000 Hwy 12
Trinidad CO 81082

T.J. Fernandez
Project Number: [none]
Project: 915 Soils

Foxtrot 34-10 SS3
1/15/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401408-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.90		0.0882	mg/kg	10	B4A1828	01/18/2024	01/23/2024	
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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: 915 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 B4A1902 - EPA 3550B										
Blank (B4A1902-BLK1)										
					Prepared: 01/19/2024 Analyzed: 01/22/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.2	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: 915 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 B4A1902 - EPA 3550B

LCS (B4A1902-BS1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

Diesel (C10-C28)	974	50.0	mg/kg	1000		97.4	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	50-150			

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T.J. Fernandez
 Project Number: [none]
 Project: 915 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 B4A1902 - EPA 3550B

Matrix Spike (B4A1902-MS1)	Source: Y401408-01			Prepared: 01/19/2024 Analyzed: 01/22/2024						
Diesel (C10-C28)	992	50.0	mg/kg	1000	ND	99.2	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Evergreen Natural Resources LLC
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 Trinidad CO 81082

T.J. Fernandez
 Project Number: [none]
 Project: 915 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 B4A1902 - EPA 3550B										
Matrix Spike Dup (B4A1902-MSD1)					Source: Y401408-01					Prepared: 01/19/2024 Analyzed: 01/22/2024
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	8.32	35	
Residual Range Organics (C28-C40)	1170	200	"	1000	ND	117	70-130	8.54	35	
Surrogate: o-Terphenyl	53		"	49.8		106	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: 915 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 B4A1828 - EPA 3050B

Blank (B4A1828-BLK1)

Prepared: 01/18/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A1828-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.66	0.0100	mg/kg	5.00		93.1	80-120			
Barium	455	1.00	"	500		90.9	80-120			
Cadmium	4.88	0.0100	"	5.00		97.7	80-120			
Copper	50.1	1.00	"	50.0		100	80-120			
Lead	5.21	0.100	"	5.00		104	80-120			
Nickel	4.98	0.100	"	5.00		99.5	80-120			
Selenium	4.72	0.0100	"	5.00		94.4	80-120			
Silver	4.93	0.0100	"	5.00		98.7	80-120			
Zinc	49.7	1.00	"	50.0		99.4	80-120			

Matrix Spike (B4A1828-MS1)

Source: Y401404-03

Prepared: 01/18/2024 Analyzed: 01/23/2024

Origins Laboratory, Inc.



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T.J. Fernandez
 Project Number: [none]
 Project: 915 Soils

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 B4A1828 - EPA 3050B

Matrix Spike (B4A1828-MS1)		Source: Y401404-03			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	10.0	0.0903	mg/kg	4.51	12.4	NR	75-125			QM-07
Barium	460	9.03	"	451	277	40.7	75-125			QM-07
Cadmium	4.58	0.0903	"	4.51	0.345	93.9	75-125			
Copper	51.4	9.03	"	45.1	16.2	77.9	75-125			
Lead	17.5	0.903	"	4.51	16.3	26.3	75-125			QM-07
Nickel	17.4	0.903	"	4.51	17.4	0.0106	75-125			QM-07
Selenium	4.58	0.0903	"	4.51	0.622	87.6	75-125			
Silver	3.71	0.0903	"	4.51	0.0110	82.0	75-125			
Zinc	92.0	9.03	"	45.1	70.9	46.6	75-125			QM-07
Matrix Spike Dup (B4A1828-MSD1)		Source: Y401404-03			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	9.73	0.0973	mg/kg	4.87	12.4	NR	75-125	2.98	20	QM-07
Barium	525	9.73	"	487	277	51.0	75-125	13.2	20	QM-07
Cadmium	4.86	0.0973	"	4.87	0.345	92.7	75-125	5.86	20	
Copper	54.8	9.73	"	48.7	16.2	79.3	75-125	6.46	20	
Lead	16.9	0.973	"	4.87	16.3	12.6	75-125	3.31	20	QM-07
Nickel	16.8	0.973	"	4.87	17.4	NR	75-125	3.23	20	QM-07
Selenium	4.46	0.0973	"	4.87	0.622	79.0	75-125	2.50	20	
Silver	4.07	0.0973	"	4.87	0.0110	83.3	75-125	9.15	20	
Zinc	93.8	9.73	"	48.7	70.9	47.0	75-125	1.97	20	QM-07

Origins Laboratory, Inc.



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T.J. Fernandez
 Project Number: [none]
 Project: 915 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 B4A2010 - Saturated Paste pH/EC

Duplicate (B4A2010-DUP1)

Source: Y401408-04

Prepared: 01/20/2024 Analyzed: 01/21/2024

pH	8.17		pH Units		8.16			0.122	25	
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Project Number: [none]
Project: 915 Soils

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

Origins Laboratory, Inc.



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