



December 03, 2021

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Kielian 2-2 TB

Project Number - [none]

Attached are your analytical results for Kielian 2-2 TB received by Origins Laboratory, Inc. November 24, 2021. This project is associated with Origins project number Y111510-01.

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



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y111510-01	Water	November 24, 2021 10:40	11/24/2021 13:45
MW02	Y111510-02	Water	November 24, 2021 11:30	11/24/2021 13:45
MW03	Y111510-03	Water	November 24, 2021 11:00	11/24/2021 13:45
MW04	Y111510-04	Water	November 24, 2021 11:20	11/24/2021 13:45
MW05	Y111510-05	Water	November 24, 2021 11:40	11/24/2021 13:45
MW06	Y111510-06	Water	November 24, 2021 12:00	11/24/2021 13:45

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

ORIGINS
LABORATORY, INC

BILL TO Y111510
JASON DAVIDSON AT
GREAT WESTERN OPERATING



page 1 of 1

Client: Entrada Consulting Group, Inc.
Address:
Telephone Number: 435-30-4748
Email Address: JPIKE@ENTRADACONV.COM

Project Manager: Ben Baugh
Project Name: Kielian 2-2 Tank Battery
Project Number:
Samples Collected By: TEREY PIKE

BEN BAUGH@ENTRADACONV.COM
J.DAVIDSON@GWP.COM

DAVIDSON & SONS, CO.

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		
MW01	11/24/21	1040	3	3				X				X	1
MW02		1130										X	2
MW03		1100										X	3
MW04		1120										X	4
MW05		1140										X	5
MW06		1200										X	6
													7
													8
													9
													10
Relinquished By: 	Date: 11/24/21	Time: 1245	Received By: 	Date: 11/24/21	Time: 1345	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

10-6

Origins Laboratory, Inc.

Jordan A. Merrill

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y111510

Client: Entrada

Client Project ID: Kielian 2-2 TB

Checklist Completed by: JG

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

Date/time completed: 11/24/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 10.6 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T003

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"/>		<u>Same Day</u>
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"/>			
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):				

⁽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) JG Date/Time Reviewed 11/29/21

Origins Laboratory, Inc.

Jordan A. Merrill

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

MW01

11/24/2021 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

101 % 70-130

"

"

"

Surrogate: Toluene-d8

97.3 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

99.0 % 70-130

"

"

"

Origins Laboratory, Inc.

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

MW02

11/24/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

104 % 70-130

"

"

"

Surrogate: Toluene-d8

97.1 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

97.3 % 70-130

"

"

"

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

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Project Number: [none]

Project: Kielian 2-2 TB

MW03

11/24/2021 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

104 % 70-130

"

"

"

Surrogate: Toluene-d8

97.5 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.4 % 70-130

"

"

"

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

MW04

11/24/2021 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

107 % 70-130

"

"

"

Surrogate: Toluene-d8

94.5 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.4 % 70-130

"

"

"

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

MW05

11/24/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

109 % 70-130

"

"

"

Surrogate: Toluene-d8

94.4 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

96.9 % 70-130

"

"

"

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

MW06

11/24/2021 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y111510-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1K2926	ZZZ	11/29/2021	11/30/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	4.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

109 % 70-130

"

"

"

Surrogate: Toluene-d8

93.5 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

98.8 % 70-130

"

"

"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K2926 - EPA 5030B (Water)										
Blank (B1K2926-BLK1)					Prepared: 11/29/2021 Analyzed: 11/30/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1K2926 - EPA 5030B (Water)

LCS (B1K2926-BS1)

Prepared: 11/29/2021 Analyzed: 11/30/2021

1,2,4-Trimethylbenzene	55.0	1.00	ug/L	50.0		110	70-130			
1,3,5-Trimethylbenzene	57.7	1.00	"	50.0		115	70-130			
Benzene	52.8	1.00	"	50.0		106	70-130			
Ethylbenzene	55.4	1.00	"	50.0		111	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	49.8	4.00	"	50.0		99.7	70-130			
o-Xylene	56.8	1.00	"	50.0		114	70-130			
Toluene	51.0	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1K2926 - EPA 5030B (Water)

Matrix Spike (B1K2926-MS1)		Source: Y111510-01			Prepared: 11/29/2021 Analyzed: 11/30/2021					
1,2,4-Trimethylbenzene	53.8	1.00	ug/L	50.0	ND	108	70-130			
1,3,5-Trimethylbenzene	56.3	1.00	"	50.0	ND	113	70-130			
Benzene	51.1	1.00	"	50.0	ND	102	70-130			
Ethylbenzene	52.9	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	49.2	4.00	"	50.0	ND	98.5	70-130			
o-Xylene	54.8	1.00	"	50.0	ND	110	70-130			
Toluene	49.7	1.00	"	50.0	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1K2926 - EPA 5030B (Water)

Matrix Spike Dup (B1K2926-MSD1)		Source: Y111510-01			Prepared: 11/29/2021 Analyzed: 11/30/2021					
1,2,4-Trimethylbenzene	55.4	1.00	ug/L	50.0	ND	111	70-130	2.88	20	
1,3,5-Trimethylbenzene	57.5	1.00	"	50.0	ND	115	70-130	2.13	20	
Benzene	52.1	1.00	"	50.0	ND	104	70-130	1.92	20	
Ethylbenzene	54.3	1.00	"	50.0	ND	109	70-130	2.57	20	
m,p-Xylene	107	2.00	"	100	ND	107	70-130	1.74	20	
Naphthalene	51.5	4.00	"	50.0	ND	103	70-130	4.47	20	
o-Xylene	55.8	1.00	"	50.0	ND	112	70-130	1.81	20	
Toluene	50.6	1.00	"	50.0	ND	101	70-130	1.62	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Kielian 2-2 TB

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.

Origins Laboratory, Inc.



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