

November 06, 2020

**Koda Exploration**

**Ryan Bruner**

**1515 Wynkoop St.**

**Denver**

**CO 80202**

**Project Name - RF - 14 - 28**

**Project Number - [none]**

Attached are your analytical results for RF - 14 - 28 received by Origins Laboratory, Inc. October 30, 2020. This project is associated with Origins project number Y010395-01.

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



Koda Exploration  
1515 Wynkoop St.  
Denver CO 80202

Ryan Bruner  
Project Number: [none]  
Project: RF - 14 - 28

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y010395-01	Soil	October 29, 2020 14:29	10/30/2020 12:25
SS02	Y010395-02	Soil	October 29, 2020 14:34	10/30/2020 12:25
SS03	Y010395-03	Soil	October 29, 2020 14:40	10/30/2020 12:25
SS04	Y010395-04	Soil	October 29, 2020 14:44	10/30/2020 12:25

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1010395

page 1 of 1

Client: KODA EXPLORATION  
 Project Manager: Ryan Bruner  
 Address: \_\_\_\_\_  
 Project Name: RF - 14-28  
 Project Number: \_\_\_\_\_  
 Telephone Number: 303-552-6763  
 Samples Collected By: Ryan Bruner  
 Email Address: rbruner@cdmiconsult.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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	GC	SAR	PH		Asstic
SS01	10/29	14:29	2	X				X				X	X	X		
SS02		14:34														
SS03		14:40														
SS04		14:44														
Relinquished By: <u>RyR</u>	Date: <u>10/30</u>	Time: <u>10:25</u>	Date: <u>10/30/20</u>	Time: <u>12:25</u>	Received By: <u>[Signature]</u>	Date: <u>10/30/20</u>	Time: <u>12:25</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard								

Temp Received: 7.9 Date Results Needed

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Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y010395

Client: Koda Exploration  
 Client Project ID: RF 14-28

Checklist Completed by: KDK  
 Date/time completed: 10-30-2020

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, 2.9 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 checked="" type="checkbox"/>	
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 Jm (Project Manager)

11-2-20  
 Date/Time Reviewed

Origins Laboratory, Inc.



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 Denver CO 80202

Ryan Bruner  
 Project Number: [none]  
 Project: RF - 14 - 28

**SS01**

**10/29/2020 2:29:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y010395-01 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	19.99		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	8.89		"	"	"		"	"	
Sodium	12.31		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.09		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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**SAR by 20B Saturated Paste**

SAR	3.24			1	[none]		11/03/2020	11/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.361	0.00500	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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**Total Metals by EPA 6020A**

Arsenic	7.02	0.982	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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Origins Laboratory, Inc.



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**SS02**

**10/29/2020 2:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y010395-02 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	6.27		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	4.38		"	"	"		"	"	
Sodium	17.39		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.55		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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**SAR by 20B Saturated Paste**

SAR	7.54			1	[none]		11/03/2020	11/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.280	0.00504	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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**Total Metals by EPA 6020A**

Arsenic	5.48	1.17	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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**SS03**

**10/29/2020 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y010395-03 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	1.72		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	1.05		"	"	"		"	"	
Sodium	9.98		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.64		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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**SAR by 20B Saturated Paste**

SAR	8.48			1	[none]		11/03/2020	11/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.254	0.00500	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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**Total Metals by EPA 6020A**

Arsenic	5.79	1.11	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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**SS04**

**10/29/2020 2:44:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y010395-04 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	20.90		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	8.14		"	"	"		"	"	
Sodium	13.26		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	8.30		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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**SAR by 20B Saturated Paste**

SAR	3.48			1	[none]		11/03/2020	11/04/2020	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.237	0.00500	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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**Total Metals by EPA 6020A**

Arsenic	3.70	0.962	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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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
<b>Batch B0J3007 - NO PREP</b>										
<b>Duplicate (B0J3007-DUP1)</b>		<b>Source: Y010395-01</b>			Prepared: 10/30/2020 Analyzed: 10/30/2020					
pH	8.10		pH Units		8.09			0.124	25	
<b>Batch B0J3008 - NO PREP</b>										
<b>Blank (B0J3008-BLK1)</b>		Prepared: 10/30/2020 Analyzed: 10/30/2020								
Specific Conductance (EC)	0.00470	0.00500	mmhos/cm							
<b>Duplicate (B0J3008-DUP1)</b>		<b>Source: Y010395-01</b>			Prepared: 10/30/2020 Analyzed: 10/30/2020					
Specific Conductance (EC)	0.372	0.00500	mmhos/cm		0.361			2.87	25	

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**Total Metals by EPA 6020A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2058102 - SW846 3050B</b>										
<b>BLANK (1204683830-BLK)</b>					Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	ND	0.907	mg/kg				-			U
<b>LCS (1204683831-BKS)</b>					Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	3.67	0.852	mg/kg	4.26		86.2	80-120			
<b>DUP (1204683832 D)</b>					Source: Y010395-01 Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	7.46	0.982	mg/kg dry		7.02		0-20	6.1	20	
<b>MS (1204683833 S)</b>					Source: Y010395-01 Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	12.4	1.03	mg/kg dry	5.16	7.02	104	75-125			

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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 at a wet weight basis.

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