

November 06, 2020

Koda Exploration

Ryan Bruner

1515 Wynkoop St.

Denver

CO 80202

Project Name - WHP Misty 2-7

Project Number - [none]

Attached are your analytical results for WHP Misty 2-7 received by Origins Laboratory, Inc. October 30, 2020. This project is associated with Origins project number Y010394-01.

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: WHP Misty 2-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y010394-01	Soil	October 29, 2020 11:28	10/30/2020 12:25
SS02	Y010394-02	Soil	October 29, 2020 11:35	10/30/2020 12:25
SS03	Y010394-03	Soil	October 29, 2020 11:43	10/30/2020 12:25
SS04	Y010394-04	Soil	October 29, 2020 11:50	10/30/2020 12:25

Origins Laboratory, Inc.



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Koda Exploration
 1515 Wynkoop St.
 Denver CO 80202

Ryan Bruner
 Project Number: [none]
 Project: WHP Misty 2-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y010394

Client: Koda Exploration
 Client Project ID: WHP Misty 2-7

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) _____ °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⁾ ?	/			
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 Na ₂ SO 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: Jm (Project Manager)

Date/Time Reviewed: 11-2-20

Origins Laboratory, Inc.



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Ryan Bruner
 Project Number: [none]
 Project: WHP Misty 2-7

SS01

10/29/2020 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y010394-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.07		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	2.30		"	"	"		"	"	
Sodium	19.93		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	8.18		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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SAR by 20B Saturated Paste

SAR	13.48			1	[none]		11/03/2020	11/04/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.375	0.00500	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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Total Metals by EPA 6020A

Arsenic	9.03	1.03	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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Origins Laboratory, Inc.



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Koda Exploration
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 Denver CO 80202

Ryan Bruner
 Project Number: [none]
 Project: WHP Misty 2-7

SS02

10/29/2020 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y010394-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	15.09		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	16.05		"	"	"		"	"	
Sodium	44.30		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.58		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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SAR by 20B Saturated Paste

SAR	11.23			1	[none]		11/03/2020	11/04/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.635	0.00505	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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Total Metals by EPA 6020A

Arsenic	6.13	1.09	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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Origins Laboratory, Inc.



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 1515 Wynkoop St.
 Denver CO 80202

Ryan Bruner
 Project Number: [none]
 Project: WHP Misty 2-7

SS03

10/29/2020 11:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y010394-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	6.57		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	8.36		"	"	"		"	"	
Sodium	37.28		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.42		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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SAR by 20B Saturated Paste

SAR	13.64			1	[none]		11/03/2020	11/04/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.868	0.00500	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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Total Metals by EPA 6020A

Arsenic	5.67	1.05	mg/kg dry	2	2058102	BAJ	11/02/2020	11/03/2020	
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SS04

10/29/2020 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y010394-04 (Soil)

Metals (Saturated Paste Prep)

Calcium	5.67		me/L	1	[none]		11/03/2020	11/04/2020	
Magnesium	7.35		"	"	"		"	"	
Sodium	37.53		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.30		pH Units	1	B0J3007	KDK	10/30/2020	10/30/2020	
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SAR by 20B Saturated Paste

SAR	14.71			1	[none]		11/03/2020	11/04/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.661	0.00503	mmhos/cm	1	B0J3008	KDK	10/30/2020	10/30/2020	
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Total Metals by EPA 6020A

Arsenic	6.41	1.08	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
Batch B0J3007 - NO PREP										
Duplicate (B0J3007-DUP1)		Source: Y010395-01			Prepared: 10/30/2020 Analyzed: 10/30/2020					
pH	8.10		pH Units		8.09			0.124	25	
Batch B0J3008 - NO PREP										
Blank (B0J3008-BLK1)					Prepared: 10/30/2020 Analyzed: 10/30/2020					
Specific Conductance (EC)	0.00470	0.00500	mmhos/cm							
Duplicate (B0J3008-DUP1)		Source: Y010395-01			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
Batch 2058102 - SW846 3050B										
BLANK (1204683830-BLK)					Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	ND	0.907	mg/kg				-			U
LCS (1204683831-BKS)					Prepared: 11/02/2020 Analyzed: 11/03/2020					
Arsenic	3.67	0.852	mg/kg	4.26		86.2	80-120			
DUP (1204683832 D)					Prepared: 11/02/2020 Analyzed: 11/03/2020					
					Source: 526046001					
Arsenic	7.46	0.982	mg/kg dry		7.02		0-20	6.1	20	
MS (1204683833 S)					Prepared: 11/02/2020 Analyzed: 11/03/2020					
					Source: 526046001					
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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