



March 06, 2019

CGRS, Inc

Drezden Kinnaird

1301 Academy Court

Fort Collins CO 80524

**Project Name - Walters-Calhoun**

**Project Number - 17728aa**

Attached are your analytical results for Walters-Calhoun received by Origins Laboratory, Inc. March 01, 2019. This project is associated with Origins project number Y903009-01.

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

CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17728aa  
Project: Walters-Calhoun

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	Y903009-01	Soil	February 28, 2019 16:30	03/01/2019 09:21
SS-2	Y903009-02	Soil	February 28, 2019 16:50	03/01/2019 09:21
SS-3	Y903009-03	Soil	February 28, 2019 17:05	03/01/2019 09:21
SS-4	Y903009-04	Soil	February 28, 2019 17:15	03/01/2019 09:21
SS-5	Y903009-05	Soil	February 28, 2019 17:30	03/01/2019 09:21

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LABORATORY, INC

1703009

page 1 of 1

Client: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Email Address: dkinnaird@cgrs.com  
Project Manager: Drezden Kinnaird  
Project Name: WALTERS-CALHOUN  
Project Number: 17728aa  
Samples Collected By: EWJ

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		
SS-1	2/20/19	16:30	2					X			X	X	1
SS-2		16:50	1										2
SS-3		17:05	1										3
SS-4		17:15	1										4
SS-5		17:30	1										5
													6
													7
													8
													9
													10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	3-1-19	9:21	<u>[Signature]</u>	3-1-19	9:21	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

3.6

Temp Received-

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Origins Laboratory, Inc.

Jefe Pellegrini

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Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Y903009

Client: CGRS Inc.

Client Project ID: Walters - Calhoun

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 3 / 1 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °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"/>	<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 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 checked="" type="checkbox"/>	<input 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 (Project Manager) [Signature]

Date/Time Reviewed 3/4/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Project Number: 17728aa  
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**SS-1****2/28/2019 4:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y903009-01 (Soil)****Metals (Saturated Paste Prep)**

Calcium	5.02	me/L	1		'[none]'		03/04/2019	03/06/2019	
Magnesium	0.73	"	"		"		"	"	
Sodium	9.22	"	"		"		"	"	

**pH in Soil by EPA 9045D**

pH	8.02	pH Units	1		B9C0503	OLAB	03/05/2019	03/05/2019	
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**SAR by 20B Saturated Paste**

SAR	5.44		1		'[none]'		03/04/2019	03/06/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.162	0.00500	mmhos/cm	1	B9C0504	OLAB	03/05/2019	03/05/2019	
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## SS-2

2/28/2019 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## AAL, Inc. Y903009-02 (Soil)

### Metals (Saturated Paste Prep)

Calcium	4.06		me/L	1	'[none]'		03/04/2019	03/06/2019	
Magnesium	0.71		"	"	"		"	"	
Sodium	32.87		"	"	"		"	"	

### pH in Soil by EPA 9045D

pH	7.40		pH Units	1	B9C0503	KDK	03/05/2019	03/05/2019	
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### SAR by 20B Saturated Paste

SAR	21.28			1	'[none]'		03/04/2019	03/06/2019	
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.367	0.00500	mmhos/cm	1	B9C0504	KDK	03/05/2019	03/05/2019	
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**SS-3****2/28/2019 5:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y903009-03 (Soil)****Metals (Saturated Paste Prep)**

Calcium	2.80	me/L	1		'[none]'		03/04/2019	03/06/2019	
Magnesium	1.53	"	"		"		"	"	
Sodium	15.90	"	"		"		"	"	

**pH in Soil by EPA 9045D**

pH	7.92	pH Units	1		B9C0503	KDK	03/05/2019	03/05/2019	
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**SAR by 20B Saturated Paste**

SAR	10.81		1		'[none]'		03/04/2019	03/06/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.232	0.00505	mmhos/cm	1	B9C0504	KDK	03/05/2019	03/05/2019	
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**SS-4****2/28/2019 5:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y903009-04 (Soil)****Metals (Saturated Paste Prep)**

Calcium	5.10	me/L	1		'[none]'		03/04/2019	03/06/2019	
Magnesium	2.31	"	"		"		"	"	
Sodium	1.12	"	"		"		"	"	

**pH in Soil by EPA 9045D**

pH	7.08	pH Units	1		B9C0503	KDK	03/05/2019	03/05/2019	
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**SAR by 20B Saturated Paste**

SAR	0.58		1		'[none]'		03/04/2019	03/06/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.166	0.00500	mmhos/cm	1	B9C0504	KDK	03/05/2019	03/05/2019	
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**SS-5****2/28/2019 5:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y903009-05 (Soil)****Metals (Saturated Paste Prep)**

Calcium	1.84		me/L	1	'[none]'		03/04/2019	03/06/2019	
Magnesium	0.81		"	"	"		"	"	
Sodium	0.56		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.43		pH Units	1	B9C0503	KDK	03/05/2019	03/05/2019	
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**SAR by 20B Saturated Paste**

SAR	0.49			1	'[none]'		03/04/2019	03/06/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0221	0.00508	mmhos/cm	1	B9C0504	KDK	03/05/2019	03/05/2019	
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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 B9C0503 - NO PREP</b>										
<b>Duplicate (B9C0503-DUP1)</b>		<b>Source: Y903009-01</b>			Prepared: 03/05/2019 Analyzed: 03/05/2019					
pH	7.11		pH Units		8.02			12.0	25	
<b>Batch B9C0504 - NO PREP</b>										
<b>Blank (B9C0504-BLK1)</b>		Prepared: 03/05/2019 Analyzed: 03/05/2019								
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
<b>Duplicate (B9C0504-DUP1)</b>		<b>Source: Y903009-01</b>			Prepared: 03/05/2019 Analyzed: 03/05/2019					
Specific Conductance (EC)	0.150	0.00508	mmhos/cm		0.162			7.77	25	

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### Notes and Definitions

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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Jen Pellegrini For Noelle Doyle Mathis, President