

April 16, 2019

**Olsson Associates**

**James Hix**

**1525 Raleigh St, Suite 400**

**Denver**

**CO 80204**

**Project Name - GWOG - Colorado State #2**

**Project Number - 018-3312**

Attached are your analytical results for GWOG - Colorado State #2 received by Origins Laboratory, Inc. April 04, 2019. This project is associated with Origins project number Y904087-01.

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



Olsson Associates  
1525 Raleigh St, Suite 400  
Denver CO 80204

James Hix  
Project Number: 018-3312  
Project: GWOG - Colorado State #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS12@3'	Y904087-01	Soil	April 3, 2019 11:30	04/04/2019 09:03
SS13@2.5'	Y904087-02	Soil	April 3, 2019 11:50	04/04/2019 09:03
SS14@1.5'	Y904087-03	Soil	April 3, 2019 12:05	04/04/2019 09:03
PZ-1	Y904087-04	Water	April 3, 2019 14:10	04/04/2019 09:03
PZ-2	Y904087-05	Water	April 3, 2019 14:40	04/04/2019 09:03
PZ-3	Y904087-06	Water	April 3, 2019 15:00	04/04/2019 09:03
PZ-4	Y904087-07	Water	April 3, 2019 16:08	04/04/2019 09:03

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 Denver CO 80204

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 Project: GWOG - Colorado State #2

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7904087

page / of /

**ORIGINS**  
 LABORATORY, INC

Client: Olsson Project Manager: James Hix  
 Address: 1880 Fall River Dr, #200 Project Name: Bull Creek Colorado State #2 F.L.  
LoveLand, CO 80538 Project Number: 018-3312  
 Telephone Number: 970.461.7733/970.635.3727 Samples Collected By: James Hix  
 Email Address: j.hix@olsson.com

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

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 #	TPH-GRO (250)	TPH-DRO (m.8015)	SAR		Chloride	Sulfate	TDS								
SS12 @ 3'	4/3/19	11:30	3																						
SS13 @ 2.5'	4/3/19	11:50	2																						
SS14 @ 1.5'	4/3/19	12:05	3																						
PZ-1	4/3/19	14:10	2																						
PZ-2	4/3/19	14:40	2																						
PZ-3	4/3/19	15:00	2																						
PZ-4	4/3/19	16:08	2																						
Relinquished By: James Hix	Date: 04/04/19	Time: 09:03	Date: 4/14/19	Time: 9:03	Received By: <i>[Signature]</i>	Date: 4/14/19	Time: 9:03	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:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:																		

Temp received- 4.3 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Denver CO 80204

James Hix  
 Project Number: 018-3312  
 Project: GWOG - Colorado State #2

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4904067

Client: Olsson

Client Project ID: GWOG - Colorado State #2

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 4 / 4 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.3 °C \_\_\_\_\_ °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 ≤ 8°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? If yes, contact client and note in narrative.		<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 (Project Manager) JG

Date/Time Reviewed 4/5/19

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Olsson Associates  
 1525 Raleigh St, Suite 400  
 Denver CO 80204

James Hix  
 Project Number: 018-3312  
 Project: GWOG - Colorado State #2

**SS12@3'**

**4/3/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y904087-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0801	JTD	04/08/2019	04/08/2019	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	Ua

Surrogate: o-Terphenyl	67.4 %	59-131			"	"	"	"	
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**GRO/TVPH by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9D0807	JTD	04/08/2019	04/08/2019	Ua
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**Metals (Saturated Paste Prep)**

Calcium	25.85		me/L	1	'[none]'		04/10/2019	04/15/2019	
Magnesium	16.67		"	"	"		"	"	
Sodium	27.48		"	"	"		"	"	

**SAR by 20B Saturated Paste**

SAR	5.96			1	'[none]'		"	04/15/2019	
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**SS13@2.5'**

**4/3/2019 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y904087-02 (Soil)**

**Metals (Saturated Paste Prep)**

Calcium	13.27		me/L	1	'[none]'		04/10/2019	04/15/2019	
Magnesium	7.28		"	"	"		"	"	
Sodium	1331.00		"	"	"		"	"	

**SAR by 20B Saturated Paste**

SAR	415.23			1	'[none]'		"	04/15/2019	
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**SS14@1.5'**

**4/3/2019 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y904087-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D0801	JTD	04/08/2019	04/08/2019	Ua
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	Ua

Surrogate: o-Terphenyl	78.9 %	59-131			"	"	"	"	
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**GRO/TVPH by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9D0807	JTD	04/08/2019	04/08/2019	Ua
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**Metals (Saturated Paste Prep)**

Calcium	16.76		me/L	1	'[none]'		04/10/2019	04/15/2019	
Magnesium	29.90		"	"	"		"	"	
Sodium	148.55		"	"	"		"	"	

**SAR by 20B Saturated Paste**

SAR	30.75			1	'[none]'		"	04/15/2019	
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**PZ-1**

**4/3/2019 2:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y904087-04 (Water)**

**Anions by EPA 300.0**

Chloride	<b>130</b>	20.0	mg/L	100	1865133	LXA2	04/03/2019	04/06/2019	
Sulfate	<b>1670</b>	40.0	"	"	"	LXA2	"	"	

**TDS by EPA 160.1**

Total Dissolved Solids	<b>2900</b>	14.3	mg/L	1	1864924	KLP1	"	04/08/2019	
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**PZ-2**

**4/3/2019 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
Y904087-05 (Water)

**Anions by EPA 300.0**

Chloride	41.8	20.0	mg/L	100	1865133	LXA2	04/03/2019	04/06/2019	
Sulfate	556	40.0	"	"	"	LXA2	"	"	

**TDS by EPA 160.1**

Total Dissolved Solids	1150	14.3	mg/L	1	1864924	KLP1	"	04/08/2019	
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**PZ-3**

**4/3/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y904087-06 (Water)**

**Anions by EPA 300.0**

Chloride	<b>80.5</b>	20.0	mg/L	100	1865133	LXA2	04/03/2019	04/06/2019	
Sulfate	<b>1030</b>	40.0	"	"	"	LXA2	"	"	

**TDS by EPA 160.1**

Total Dissolved Solids	<b>1910</b>	14.3	mg/L	1	1864924	KLP1	"	04/08/2019	
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**PZ-4**

**4/3/2019 4:08:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
Y904087-07 (Water)

**Anions by EPA 300.0**

Chloride	<b>50.8</b>	20.0	mg/L	100	1865133	LXA2	04/03/2019	04/06/2019	
Sulfate	<b>1990</b>	40.0	"	"	"	LXA2	"	"	

**TDS by EPA 160.1**

Total Dissolved Solids	<b>3210</b>	14.3	mg/L	1	1864924	KLP1	"	04/08/2019	
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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D0801 - EPA 3550B</b>										
<b>Blank (B9D0801-BLK1)</b>					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	35		"	50.0		69.9	59-131			
<b>Blank (B9D0801-BLK2)</b>					Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	37		"	50.0		73.2	59-131			
<b>LCS (B9D0801-BS1)</b>					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	737	50.0	mg/kg	1000		73.7	64-121			
Residual Range Organics (C28-C40)	793	200	"	1000		79.3	58-124			
Surrogate: o-Terphenyl	38		"	50.0		76.7	59-131			
<b>LCS (B9D0801-BS2)</b>					Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	754	50.0	mg/kg	1000		75.4	64-121			
Residual Range Organics (C28-C40)	846	200	"	1000		84.6	58-124			
Surrogate: o-Terphenyl	41		"	50.0		81.6	59-131			
<b>Matrix Spike (B9D0801-MS1)</b>		<b>Source: Y904132-12</b>			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	769	50.0	mg/kg	1000	25.2	74.4	53-125			
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	47-133			
Surrogate: o-Terphenyl	41		"	50.0		81.3	59-131			
<b>Matrix Spike (B9D0801-MS2)</b>		<b>Source: Y904102-01</b>			Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	736	50.0	mg/kg	1000	20.1	71.6	53-125			
Residual Range Organics (C28-C40)	818	200	"	1000	ND	81.8	47-133			
Surrogate: o-Terphenyl	36		"	50.0		71.5	59-131			



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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D0801 - EPA 3550B</b>										
<b>Matrix Spike (B9D0801-MS2)</b>		<b>Source: Y904102-01</b>			Prepared: 04/08/2019 Analyzed: 04/09/2019					
<b>Matrix Spike Dup (B9D0801-MSD1)</b>		<b>Source: Y904132-12</b>			Prepared: 04/08/2019 Analyzed: 04/08/2019					
Diesel (C10-C28)	738	50.0	mg/kg	1000	25.2	71.2	53-125	4.33	20	
Residual Range Organics (C28-C40)	810	200	"	1000	ND	81.0	47-133	4.35	20	
Surrogate: o-Terphenyl	39		"	50.0		78.9	59-131			
<b>Matrix Spike Dup (B9D0801-MSD2)</b>		<b>Source: Y904102-01</b>			Prepared: 04/08/2019 Analyzed: 04/09/2019					
Diesel (C10-C28)	720	50.0	mg/kg	1000	20.1	70.0	53-125	2.30	20	
Residual Range Organics (C28-C40)	789	200	"	1000	ND	78.9	47-133	3.54	20	
Surrogate: o-Terphenyl	35		"	50.0		70.7	59-131			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D0807 - EPA 5030 (soil)</b>										
<b>Blank (B9D0807-BLK1)</b>					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
<b>LCS (B9D0807-BS1)</b>					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Gasoline Range Hydrocarbons	4.26	0.200	mg/kg	4.00		106	70-130			
<b>LCS Dup (B9D0807-BSD1)</b>					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Gasoline Range Hydrocarbons	4.01	0.200	mg/kg	4.00		100	70-130	5.93	20	

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**Anions by EPA 300.0 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1865133 -</b>										
<b>BLANK (1204255146-BLK)</b>					Prepared: Analyzed: 04/06/2019					
Chloride	ND	0.200	mg/L				-			U
Sulfate	ND	0.400	"				-			U
<b>LCS (1204255147-BKS)</b>					Prepared: Analyzed: 04/06/2019					
Sulfate	10.1	0.400	mg/L	10.0		101	90-110			
Chloride	4.87	0.200	"	5.00		97.4	90-110			
<b>DUP (1204255148 D)</b>					<b>Source: 475592001</b>		Prepared: Analyzed: 04/07/2019			
Chloride	14.3	4.00	mg/L		14.8		0-20	3.71		20
Sulfate	259	8.00	"		259		0-20	0.0124		20
<b>PS (1204255149 S)</b>					<b>Source: 475592001</b>		Prepared: Analyzed: 04/07/2019			
Sulfate	477	8.00	mg/L	10.0		109	90-110			
Chloride	112	4.00	"	5.00		96.7	90-110			

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**TDS by EPA 160.1 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1864924 -</b>										
<b>BLANK (1204254711-BLK)</b>					Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	ND	14.3	mg/L				-			U
<b>LCS (1204254712-BKS)</b>					Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	291	14.3	mg/L	300		97.1	95-105			
<b>DUP (1204254713 D)</b>					Source: 475211002 Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	671	14.3	mg/L		704		0-5	4.78	5	

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**Notes and Definitions**

Ua Sample is Non-Detect.

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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