



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



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

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

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

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

Y904087

www.originslaboratory.com

page / of /

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 ₃	Other		Soil	Air Summ #	Other	TPH-GRO (B240)		TPH-DRO (m8015)
SS12 @ 3'	4/3/19	11:30	3					✓				✓	✓	1
SS13 @ 2.5'	4/3/19	11:50	2					✓				✓	✓	2
SS14 @ 1.5'	4/3/19	12:05	3					✓				✓	✓	3
PZ-1	4/3/19	14:10	2					✓				✓	✓	4
PZ-2	4/3/19	14:40	2					✓				✓	✓	5
PZ-3	4/3/19	15:00	2					✓				✓	✓	6
PZ-4	4/3/19	16:08	2					✓				✓	✓	7
														8
														9
														10

Relinquished By: <u>James Hix</u>	Date: <u>04/04/19</u>	Time: <u>09:03</u>	Received By: <u>[Signature]</u>	Date: <u>4/4/19</u>	Time: <u>09:03</u>	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:	Received By:	Date:	Time:	

Date Results Needed

Temp Received- 4.3

Origins Laboratory, Inc.

Jefe Pellegrini

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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

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 (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 ⁽¹⁾ ?	<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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 4/5/19

Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini, Project Manager

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 " " "

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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Jen Pellegrini, Project Manager

Olsson Associates

1525 Raleigh St, Suite 400

Denver CO 80204

James Hix

Project Number: 018-3312

Project: GWOG - Colorado State #2

SS13@2.5'

4/3/2019 11:50:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

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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Jen Pellegrini, Project Manager

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

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

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 " " "

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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Olsson Associates

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Denver CO 80204

James Hix

Project Number: 018-3312

Project: GWOG - Colorado State #2

PZ-1

4/3/2019 2:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

GEL Laboratories, LLC

Y904087-04 (Water)

Anions by EPA 300.0

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

TDS by EPA 160.1

Total Dissolved Solids	2900	14.3	mg/L	1	1864924	KLP1	"	04/08/2019
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Origins Laboratory, Inc.



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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

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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Origins Laboratory, Inc.



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Denver CO 80204

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

PZ-3

4/3/2019 3:00:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

GEL Laboratories, LLC
Y904087-06 (Water)

Anions by EPA 300.0

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

TDS by EPA 160.1

Total Dissolved Solids	1910	14.3	mg/L	1	1864924	KLP1	"	04/08/2019
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Origins Laboratory, Inc.



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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

PZ-4

4/3/2019 4:08:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

GEL Laboratories, LLC
Y904087-07 (Water)

Anions by EPA 300.0

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

TDS by EPA 160.1

Total Dissolved Solids	3210	14.3	mg/L	1	1864924	KLP1	"	04/08/2019
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

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

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
Batch B9D0801 - EPA 3550B										
Blank (B9D0801-BLK1)					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			
Blank (B9D0801-BLK2)					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			
LCS (B9D0801-BS1)					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			
LCS (B9D0801-BS2)					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			
Matrix Spike (B9D0801-MS1)					Source: Y904132-12		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			
Matrix Spike (B9D0801-MS2)					Source: Y904102-01		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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Denver CO 80204

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

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
Batch B9D0801 - EPA 3550B										
Matrix Spike (B9D0801-MS2)		Source: Y904102-01			Prepared: 04/08/2019 Analyzed: 04/09/2019					
Matrix Spike Dup (B9D0801-MSD1)		Source: Y904132-12			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			
Matrix Spike Dup (B9D0801-MSD2)		Source: Y904102-01			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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Jen Pellegrini, Project Manager

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

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

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
Batch B9D0807 - EPA 5030 (soil)										
Blank (B9D0807-BLK1)					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
LCS (B9D0807-BS1)					Prepared: 04/08/2019 Analyzed: 04/08/2019					
Gasoline Range Hydrocarbons	4.26	0.200	mg/kg	4.00		106	70-130			
LCS Dup (B9D0807-BSD1)					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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Jen Pellegrini, Project Manager

Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

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

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
Batch 1865133 -										
BLANK (1204255146-BLK)					Prepared: Analyzed: 04/06/2019					
Chloride	ND	0.200	mg/L				-			U
Sulfate	ND	0.400	"				-			U
LCS (1204255147-BKS)					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			
DUP (1204255148 D)					Source: 475592001 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	
PS (1204255149 S)					Source: 475592001 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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Denver CO 80204

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

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
Batch 1864924 -										
BLANK (1204254711-BLK)					Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1204254712-BKS)					Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	291	14.3	mg/L	300		97.1	95-105			
DUP (1204254713 D)					Prepared: Analyzed: 04/08/2019					
Total Dissolved Solids	671	14.3	mg/L		704		0-5	4.78	5	

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Jen Pellegrini, Project Manager

Olsson Associates

1525 Raleigh St, Suite 400

Denver CO 80204

James Hix

Project Number: 018-3312

Project: GWOG - Colorado State #2

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.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager