

CGRS, Inc

Steve Hockett

1301 Academy Court

Fort Collins CO 80524

Project Name - Blue Chip Oil - 3 Sites

Project Number - [none]

Attached are your analytical results for Blue Chip Oil - 3 Sites received by Origins Laboratory, Inc. September 14, 2017. This project is associated with Origins project number Y709189-01.

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



CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Steve Hockett
Project Number: [none]
Project: Blue Chip Oil - 3 Sites

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sloan 1 SS4@1'	Y709189-01	Soil	September 14, 2017 14:40	09/14/2017 17:20
N. Poudre SS3@0'	Y709189-02	Soil	September 14, 2017 13:30	09/14/2017 17:20
Sloan 3 SS3@1'	Y709189-03	Soil	September 14, 2017 11:30	09/14/2017 17:20

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

www.originslaboratory.com

Y709189

page of

Client: CGRS, Inc.
 Address: 1301 Academy Ct
 Fort Collins, CO
 Telephone Number: 930-824-8716
 Email Address: SHOCKETT@CGRS.COM

Project Manager: Steve Hockett
 Project Name: Blue Chip Oil - 3 Sites
 Project Number: SKRX Heliaff
 Samples Collected By: SKRX Heliaff

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other	TPH	TOC		SPR
Slonn 1 553 @ 1'	9/14	2:40	2					X				X	X	X	1
N. Pond 3 53 @ 0'	9/14	1:30	2					X				X	X	X	2
Slonn 3 553 @ 1'	9/14	11:30	2					X				X	X	X	3
															4
															5
															6
															7
															8
															9
															10
Relinquished By: Steve Hockett	Date: 9/14/17	Time: 5:10		Received By: [Signature]	Date: 9-17-17	Time: 17:20		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:		Received By:	Date:	Time:									

Temp Received: 7.8°C Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4709189

Client: CGRS, Inc

Client Project ID: Blue Chip Oil

Checklist Completed by: DM

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9-15-12 1228

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 7.8 °C 1 °C 1 °C 1 °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		sampled same day
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⁾ ?	/			pH
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 [Signature] (Project Manager)

9-15-12 1229
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

Sloan 1 SS4@1'
9/14/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709189-01 (Soil)

BTEX by EPA 8260C

Benzene	1.64	0.498	mg/kg	250	B711502	09/15/2017	09/15/2017	
Toluene	ND	0.498	"	"	"	"	"	U
Ethylbenzene	26.7	0.498	"	"	"	"	"	
Xylenes, total	472	4.98	"	2500	"	"	09/15/2017	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	09/15/2017	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	122 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	1.36		me/L	1	'[none]'	09/18/2017	09/20/2017	
Magnesium	0.48		"	"	"	"	"	
Sodium	4.68		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.92		pH Units	1	B711504	09/15/2017	09/15/2017	
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SAR by 20B Saturated Paste

SAR	4.88			1	'[none]'	09/18/2017	09/20/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.148		mmhos/cm	1	B711505	09/15/2017	09/15/2017	
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Project: Blue Chip Oil - 3 Sites

Sloan 1 SS4@1'
9/14/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709189-01 (Soil)

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	7050	50.0	mg/kg	1	B711503	09/15/2017	09/18/2017	
Diesel (C10-C28)	2180	50.0	"	"	"	"	"	
Residual Range Organics (C28-C40)	275	200	"	"	"	"	"	
Surrogate: o-Terphenyl	70.2 %	65-146			"	"	"	

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Blank (B711502-BLK1)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	62		<i>ug/kg</i>	62.5	99.8		70-130			
<i>Surrogate: Toluene-d8</i>	65		"	62.5	105		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	64		"	62.5	103		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Blank (B711502-BLK2)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Blank (B711502-BLK3)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	58		ug/kg	62.5	92.4		70-130			
<i>Surrogate: Toluene-d8</i>	64		"	62.5	102		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	61		"	62.5	98.3		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

LCS (B711502-BS1)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.4	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.6	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

LCS (B711502-BS2)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.092	0.002	mg/kg	0.100		92.5	77.1-124			
Toluene	0.094	0.002	"	0.100		94.3	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.8	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.1	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 Project: Blue Chip Oil - 3 Sites

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

LCS (B711502-BS3)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.093	0.002	mg/kg	0.100		92.7	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.9	66.4-127			
m,p-Xylene	0.171	0.004	"	0.200		85.5	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.5	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	90.6	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	89.2	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126	4.00	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.8	65.1-130	5.72	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130	4.85	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.5	46.5-137	5.74	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.2	54.2-134	5.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.5	71.8-126	8.51	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.3	65.1-130	7.57	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130	11.1	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	10.5	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134	10.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.087	0.002	mg/kg	0.100	ND	86.8	71.8-126	4.26	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130	8.71	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.6	62.2-130	0.693	19.6	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137	2.22	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134	0.430	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B711503 - EPA 3550B

Blank (B711503-BLK1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U

Surrogate: o-Terphenyl

52.4

"

50.0

105

65-146

Blank (B711503-BLK2)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U

Surrogate: o-Terphenyl

52.3

"

50.0

105

65-146

Blank (B711503-BLK3)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U

Surrogate: o-Terphenyl

52.1

"

50.0

104

65-146

LCS (B711503-BS1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Gasoline (C6-C10)	899	50.0	mg/kg	1000		89.9	66.7-119			
Diesel (C10-C28)	1010	50.0	"	1000		101	70.1-127			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	54.5-139			

Surrogate: o-Terphenyl

48.7

"

50.0

97.5

65-146

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

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 B711503 - EPA 3550B										
LCS (B711503-BS2)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Gasoline (C6-C10)	971	50.0	mg/kg	1000		97.1	66.7-119			
Diesel (C10-C28)	1080	50.0	"	1000		108	70.1-127			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	54.5-139			
Surrogate: o-Terphenyl	56.1		"	50.0		112	65-146			
LCS (B711503-BS3)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Gasoline (C6-C10)	947	50.0	mg/kg	1000		94.7	66.7-119			
Diesel (C10-C28)	1060	50.0	"	1000		106	70.1-127			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	54.5-139			
Surrogate: o-Terphenyl	59.6		"	50.0		119	65-146			
Matrix Spike (B711503-MS1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Gasoline (C6-C10)	992	50.0	mg/kg	1000	30.1	96.2	56.4-132			
Diesel (C10-C28)	1090	50.0	"	1000	14.4	107	57.4-138			
Residual Range Organics (C28-C40)	936	200	"	1000	50.7	88.6	47.7-129			
Surrogate: o-Terphenyl	53.2		"	50.0		106	65-146			
Matrix Spike (B711503-MS2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Gasoline (C6-C10)	936	50.0	mg/kg	1000	36.8	89.9	56.4-132			
Diesel (C10-C28)	1070	50.0	"	1000	17.5	106	57.4-138			
Residual Range Organics (C28-C40)	888	200	"	1000	44.4	84.4	47.7-129			
Surrogate: o-Terphenyl	54.3		"	50.0		109	65-146			
Matrix Spike (B711503-MS3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Gasoline (C6-C10)	931	50.0	mg/kg	1000	42.1	88.9	56.4-132			
Diesel (C10-C28)	1060	50.0	"	1000	23.8	104	57.4-138			
Residual Range Organics (C28-C40)	860	200	"	1000	37.1	82.3	47.7-129			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

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 B711503 - EPA 3550B										
Matrix Spike (B711503-MS3)			Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017				
Surrogate: o-Terphenyl	51.2		mg/kg	50.0		102	65-146			
Matrix Spike Dup (B711503-MSD1)			Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017				
Gasoline (C6-C10)	1040	50.0	mg/kg	1000	30.1	101	56.4-132	4.82	22	
Diesel (C10-C28)	1130	50.0	"	1000	14.4	112	57.4-138	4.02	18.3	
Residual Range Organics (C28-C40)	976	200	"	1000	50.7	92.5	47.7-129	4.12	30.1	
Surrogate: o-Terphenyl	57.7		"	50.0		115	65-146			
Matrix Spike Dup (B711503-MSD2)			Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017				
Gasoline (C6-C10)	865	50.0	mg/kg	1000	36.8	82.8	56.4-132	7.86	22	
Diesel (C10-C28)	958	50.0	"	1000	17.5	94.1	57.4-138	11.4	18.3	
Residual Range Organics (C28-C40)	801	200	"	1000	44.4	75.6	47.7-129	10.4	30.1	
Surrogate: o-Terphenyl	49.0		"	50.0		97.9	65-146			
Matrix Spike Dup (B711503-MSD3)			Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017				
Gasoline (C6-C10)	920	50.0	mg/kg	1000	42.1	87.8	56.4-132	1.17	22	
Diesel (C10-C28)	1050	50.0	"	1000	23.8	103	57.4-138	0.763	18.3	
Residual Range Organics (C28-C40)	861	200	"	1000	37.1	82.4	47.7-129	0.119	30.1	
Surrogate: o-Terphenyl	51.3		"	50.0		103	65-146			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: [none]
 Project: Blue Chip Oil - 3 Sites

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 B711504 - NO PREP										
Duplicate (B711504-DUP1)		Source: Y709189-01			Prepared: 09/15/2017 Analyzed: 09/15/2017					
pH	7.31		pH Units		7.92			8.01	25	
Batch B711505 - NO PREP										
Blank (B711505-BLK1)					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Specific Conductance (EC)	0.00690		mmhos/cm							
Duplicate (B711505-DUP1)		Source: Y709189-01			Prepared: 09/15/2017 Analyzed: 09/15/2017					
Specific Conductance (EC)	0.144		mmhos/cm		0.148			3.02	25	

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Steve Hockett
Project Number: [none]
Project: Blue Chip Oil - 3 Sites

Notes and Definitions

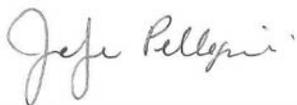
U Sample is Non-Detect.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

October 27, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. October 20, 2017. This project is associated with Origins project number Y710304-01.

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



CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sloan 1	Y710304-01	Water	October 18, 2017 12:00	10/20/2017 09:24

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4710304 Client: CGRS, Inc
 Client Project ID: Sloan 1
 Checklist Completed by: DML Shipped Via: Pick-up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 10-20-17 12:51 Airbill #: NP
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 3.1 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 1003

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

[Signature]
 Reviewed by (Project Manager)

10/23/17
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Sloan 1
10/18/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710304-01 (Water)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	600	50.0	mg/L	10	B7J2009	10/20/2017	10/27/2017	
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Surrogate: o-Terphenyl	120 %	54-117			"	"	"	S-04
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	152000	10000	ug/L	100	B7J2703	10/27/2017	10/27/2017	
Benzene	2320	100	"	"	"	"	"	
Toluene	181	100	"	"	"	"	"	
Ethylbenzene	1790	100	"	"	"	"	"	
Xylenes, total	10200	100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.1 %	85.9-113			"	"	"	
Surrogate: Toluene-d8	100 %	89-110			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2703 - EPA 5030B (Water)

Blank (B7J2703-BLK1)

Prepared: 10/27/2017 Analyzed: 10/27/2017

Gasoline Range Hydrocarbons	ND	100	ug/L							U
Benzene	ND	1.00	"							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63.5		"	62.5		102	85.9-113			
Surrogate: Toluene-d8	63.1		"	62.5		101	89-110			
Surrogate: 4-Bromofluorobenzene	62.8		"	62.5		100	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2703 - EPA 5030B (Water)

LCS (B7J2703-BS1)

Prepared: 10/27/2017 Analyzed: 10/27/2017

Benzene	46.8	1.00	ug/L	50.0		93.7	80-120			
Toluene	50.0	1.00	"	50.0		99.9	80-122			
Ethylbenzene	47.8	1.00	"	50.0		95.7	77-129			
m,p-Xylene	95.4	2.00	"	100		95.4	78.6-126			
o-Xylene	49.6	1.00	"	50.0		99.2	80-121			
Surrogate: 1,2-Dichloroethane-d4	58.3		"	62.5		93.3	85.9-113			
Surrogate: Toluene-d8	63.3		"	62.5		101	89-110			
Surrogate: 4-Bromofluorobenzene	62.1		"	62.5		99.4	84-114			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2703 - EPA 5030B (Water)

Matrix Spike (B7J2703-MS1)	Source: Y710340-02			Prepared: 10/27/2017 Analyzed: 10/27/2017						
Benzene	60.2	1.00	ug/L	50.0	120	75.3-128				
Toluene	62.9	1.00	"	50.0	126	74.2-132				
Ethylbenzene	61.8	1.00	"	50.0	124	71.5-138				
m,p-Xylene	114	2.00	"	100	114	70-136				
o-Xylene	56.8	1.00	"	50.0	114	77.2-127				
Surrogate: 1,2-Dichloroethane-d4	63.8		"	62.5	102	85.9-113				
Surrogate: Toluene-d8	61.1		"	62.5	97.8	89-110				
Surrogate: 4-Bromofluorobenzene	61.0		"	62.5	97.6	84-114				

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2703 - EPA 5030B (Water)

Matrix Spike Dup (B7J2703-MSD1)	Source: Y710340-02			Prepared: 10/27/2017 Analyzed: 10/27/2017						
Benzene	59.5	1.00	ug/L	50.0	119	75.3-128	1.15	20		
Toluene	62.4	1.00	"	50.0	125	74.2-132	0.782	20		
Ethylbenzene	61.2	1.00	"	50.0	122	71.5-138	1.06	20		
m,p-Xylene	114	2.00	"	100	114	70-136	0.00	20		
o-Xylene	56.5	1.00	"	50.0	113	77.2-127	0.618	20		
Surrogate: 1,2-Dichloroethane-d4	65.8		"	62.5	105	85.9-113				
Surrogate: Toluene-d8	61.5		"	62.5	98.4	89-110				
Surrogate: 4-Bromofluorobenzene	61.0		"	62.5	97.5	84-114				

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B7J2009 - EPA 3511 Mod.

Blank (B7J2009-BLK1)

Prepared: 10/20/2017 Analyzed: 10/24/2017

Diesel (C10-C28)	ND	5.00	mg/L							U
Surrogate: o-Terphenyl	5.1		"	5.00		102	54-117			

LCS (B7J2009-BS1)

Prepared: 10/20/2017 Analyzed: 10/24/2017

Diesel (C10-C28)	112	5.00	mg/L	100		112	61-120			
Surrogate: o-Terphenyl	4.4		"	5.00		88.6	54-117			

Matrix Spike (B7J2009-MS1)

Source: Y710123-01

Prepared: 10/20/2017 Analyzed: 10/24/2017

Diesel (C10-C28)	123	5.00	mg/L	100	ND	123	54-126			
Surrogate: o-Terphenyl	5.6		"	5.00		113	54-117			

Matrix Spike Dup (B7J2009-MSD1)

Source: Y710123-01

Prepared: 10/20/2017 Analyzed: 10/24/2017

Diesel (C10-C28)	119	5.00	mg/L	100	ND	119	54-126	4.10	20	
Surrogate: o-Terphenyl	4.9		"	5.00		97.0	54-117			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

October 27, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. October 24, 2017. This project is associated with Origins project number Y710355-01.

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



CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-North @ 8'	Y710355-01	Soil	October 23, 2017 15:30	10/24/2017 09:45

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1710355

Client: CGRS, Inc.

Client Project ID: Sloan 1

Checklist Completed by: JPM

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

Date/time completed: 10/25/17 9:27

Airbill #: _____

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

Cooler Number/Temperature: 1 / 1.6 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 1003

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

Date/Time Reviewed: 10/25/17

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-North @ 8'
10/23/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710355-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7J2603	10/25/2017	10/26/2017	U
<i>Surrogate: o-Terphenyl</i>	94.0 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7J2504	10/25/2017	10/25/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	111 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	106 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J2504 - EPA 5030 (soil)										
Blank (B7J2504-BLK1)										
					Prepared: 10/25/2017 Analyzed: 10/25/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J2504 - EPA 5030 (soil)										
Blank (B7J2504-BLK2)										
					Prepared: 10/25/2017 Analyzed: 10/25/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	85		ug/kg	62.5		136	70-130			
Surrogate: Toluene-d8	51		"	62.5		82.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

LCS (B7J2504-BS1)

Prepared: 10/25/2017 Analyzed: 10/25/2017

Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.120	0.002	"	0.100		120	74.5-128			
Ethylbenzene	0.116	0.002	"	0.100		116	66.4-127			
m,p-Xylene	0.226	0.004	"	0.200		113	76.6-124			
o-Xylene	0.117	0.002	"	0.100		117	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		87.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

LCS (B7J2504-BS2)

Prepared: 10/25/2017 Analyzed: 10/25/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.120	0.002	"	0.100		120	74.5-128			
Ethylbenzene	0.113	0.002	"	0.100		113	66.4-127			
m,p-Xylene	0.221	0.004	"	0.200		111	76.6-124			
o-Xylene	0.114	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

Matrix Spike (B7J2504-MS1)	Source: Y710327-01			Prepared: 10/25/2017 Analyzed: 10/25/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.1	71.8-126			
Toluene	0.117	0.002	"	0.100	0.005	112	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.8	62.2-130			
m,p-Xylene	0.197	0.004	"	0.200	ND	98.7	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	92.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	30		ug/kg	62.5		47.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

Matrix Spike (B7J2504-MS2)	Source: Y710327-02			Prepared: 10/25/2017 Analyzed: 10/25/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	94.6	71.8-126			
Toluene	0.119	0.002	"	0.100	0.007	113	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.195	0.004	"	0.200	ND	97.7	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	97.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

Matrix Spike Dup (B7J2504-MSD1)	Source: Y710327-01			Prepared: 10/25/2017 Analyzed: 10/25/2017						
Benzene	0.131	0.002	mg/kg	0.100	ND	131	71.8-126	35.6	11.3	QM-07, QR-03
Toluene	0.121	0.002	"	0.100	0.005	116	65.1-130	3.28	15.4	
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130	14.7	19.6	
m,p-Xylene	0.217	0.004	"	0.200	ND	108	46.5-137	9.40	19.2	
o-Xylene	0.112	0.002	"	0.100	ND	112	54.2-134	19.3	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	78		ug/kg	62.5		124	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J2504 - EPA 5030 (soil)

Matrix Spike Dup (B7J2504-MSD2)	Source: Y710327-02			Prepared: 10/25/2017 Analyzed: 10/25/2017						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.2	71.8-126	0.424	11.3	
Toluene	0.116	0.002	"	0.100	0.007	109	65.1-130	2.94	15.4	
Ethylbenzene	0.132	0.002	"	0.100	ND	132	62.2-130	27.3	19.6	QM-07, QR-03
m,p-Xylene	0.265	0.004	"	0.200	ND	133	46.5-137	30.4	19.2	QR-02
o-Xylene	0.131	0.002	"	0.100	ND	131	54.2-134	29.5	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B7J2603 - EPA 3550B

Blank (B7J2603-BLK1)

Prepared: 10/26/2017 Analyzed: 10/27/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	33		"	50.0		65.8	59-131			

LCS (B7J2603-BS1)

Prepared: 10/26/2017 Analyzed: 10/27/2017

Diesel (C10-C28)	985	50.0	mg/kg	1000		98.5	64-121			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

Matrix Spike (B7J2603-MS1)

Source: Y710322-03

Prepared: 10/26/2017 Analyzed: 10/27/2017

Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	53-125			
Surrogate: o-Terphenyl	46		"	50.0		91.4	59-131			

Matrix Spike Dup (B7J2603-MSD1)

Source: Y710322-03

Prepared: 10/26/2017 Analyzed: 10/27/2017

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	53-125	8.38	20	
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



November 01, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. October 26, 2017. This project is associated with Origins project number Y710390-01.

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

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-East@7'	Y710390-01	Soil	October 25, 2017 12:00	10/26/2017 09:55
SS-West@7'	Y710390-02	Soil	October 25, 2017 12:30	10/26/2017 09:55

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y710390 Client: CGRS, Inc
 Checklist Completed by: DML Client Project ID: Sloan 1
 Date/time completed: 6-26-17 1332 Shipped Via: Pick-up
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NP
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: / 2.1 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: 1003

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"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 checked="" 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) [Signature] Date/Time Reviewed 10/27/17

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-East@7'
10/25/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710390-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J3103	10/31/2017	11/01/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J3104	10/31/2017	11/01/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	10/31/2017	U

Surrogate: o-Terphenyl	84.9 %	59-131			"	"	"	
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Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-West@7'
10/25/2017 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710390-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J3103	10/31/2017	11/01/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J3104	10/31/2017	11/01/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.3 %	59-131			"	"	"	
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Origins Laboratory, Inc.



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 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Blank (B7J3103-BLK1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	77		ug/kg	62.5	123		70-130			
<i>Surrogate: Toluene-d8</i>	59		"	62.5	95.1		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	64		"	62.5	102		70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Blank (B7J3103-BLK2)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	73		ug/kg	62.5		117	70-130			
<i>Surrogate: Toluene-d8</i>	61		"	62.5		97.4	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

LCS (B7J3103-BS1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	0.097	0.002	mg/kg	0.100		97.1	77.1-124			
Toluene	0.091	0.002	"	0.100		91.0	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.7	66.4-127			
m,p-Xylene	0.198	0.004	"	0.200		99.1	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

LCS (B7J3103-BS2)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.111	0.002	"	0.100		111	66.4-127			
m,p-Xylene	0.223	0.004	"	0.200		112	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike (B7J3103-MS1)	Source: Y710386-01			Prepared: 10/31/2017 Analyzed: 10/31/2017						
Benzene	0.093	0.002	mg/kg	0.100	ND	93.0	71.8-126			
Toluene	0.084	0.002	"	0.100	0.002	82.0	65.1-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	83.8	62.2-130			
m,p-Xylene	0.166	0.004	"	0.200	ND	83.2	46.5-137			
o-Xylene	0.084	0.002	"	0.100	ND	83.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike (B7J3103-MS2)	Source: Y710362-01			Prepared: 10/31/2017 Analyzed: 11/01/2017						
Benzene	0.115	0.002	mg/kg	0.100	ND	115	71.8-126			
Toluene	0.108	0.002	"	0.100	ND	108	65.1-130			
Ethylbenzene	0.118	0.002	"	0.100	ND	118	62.2-130			
m,p-Xylene	0.236	0.004	"	0.200	ND	118	46.5-137			
o-Xylene	0.115	0.002	"	0.100	ND	115	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike Dup (B7J3103-MSD1)	Source: Y710386-01			Prepared: 10/31/2017 Analyzed: 10/31/2017						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.9	71.8-126	5.11	11.3	
Toluene	0.089	0.002	"	0.100	0.002	87.7	65.1-130	6.68	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	86.9	62.2-130	3.61	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	87.0	46.5-137	4.49	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.4	54.2-134	5.58	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike Dup (B7J3103-MSD2)	Source: Y710362-01			Prepared: 10/31/2017 Analyzed: 10/31/2017						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126	12.6	11.3	QR-03
Toluene	0.096	0.002	"	0.100	ND	96.2	65.1-130	11.8	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	16.3	19.6	
m,p-Xylene	0.203	0.004	"	0.200	ND	102	46.5-137	14.9	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	13.5	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B7J3104 - EPA 3550B

Blank (B7J3104-BLK1)

Prepared: 10/31/2017 Analyzed: 11/01/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	33		"	50.0		66.8	59-131			

Blank (B7J3104-BLK2)

Prepared: 10/31/2017 Analyzed: 11/01/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	40		"	50.0		80.8	59-131			

LCS (B7J3104-BS1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Gasoline (C6-C10)	869	50.0	mg/kg	1000		86.9	59-133			
Diesel (C10-C28)	834	50.0	"	1000		83.4	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.7	59-131			

LCS (B7J3104-BS2)

Prepared: 10/31/2017 Analyzed: 11/01/2017

Gasoline (C6-C10)	762	50.0	mg/kg	1000		76.2	59-133			
Diesel (C10-C28)	744	50.0	"	1000		74.4	64-121			
Surrogate: o-Terphenyl	42		"	50.0		84.8	59-131			

Matrix Spike (B7J3104-MS1)

Source: Y710362-01

Prepared: 10/31/2017 Analyzed: 10/31/2017

Gasoline (C6-C10)	824	50.0	mg/kg	1000	ND	82.4	57-139			
Diesel (C10-C28)	818	50.0	"	1000	ND	81.8	53-125			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

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 B7J3104 - EPA 3550B										
Matrix Spike (B7J3104-MS1)			Source: Y710362-01		Prepared: 10/31/2017 Analyzed: 10/31/2017					
Surrogate: o-Terphenyl	46		mg/kg	50.0		91.5	59-131			
Matrix Spike (B7J3104-MS2)			Source: Y710386-01		Prepared: 10/31/2017 Analyzed: 11/01/2017					
Gasoline (C6-C10)	646	50.0	mg/kg	1000	ND	64.6	57-139			
Diesel (C10-C28)	853	50.0	"	1000	176	67.7	53-125			
Surrogate: o-Terphenyl	40		"	50.0		79.9	59-131			
Matrix Spike Dup (B7J3104-MSD1)			Source: Y710362-01		Prepared: 10/31/2017 Analyzed: 10/31/2017					
Gasoline (C6-C10)	795	50.0	mg/kg	1000	ND	79.5	57-139	3.65	20	
Diesel (C10-C28)	769	50.0	"	1000	ND	76.9	53-125	6.28	20	
Surrogate: o-Terphenyl	44		"	50.0		88.9	59-131			
Matrix Spike Dup (B7J3104-MSD2)			Source: Y710386-01		Prepared: 10/31/2017 Analyzed: 11/01/2017					
Gasoline (C6-C10)	799	50.0	mg/kg	1000	ND	79.9	57-139	21.2	20	QR-02
Diesel (C10-C28)	973	50.0	"	1000	176	79.7	53-125	13.2	20	
Surrogate: o-Terphenyl	46		"	50.0		91.8	59-131			

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



November 01, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. October 31, 2017. This project is associated with Origins project number Y710459-01.

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

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-41@7'	Y710459-01	Soil	October 31, 2017 13:30	10/31/2017 15:55

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1710459 Client: CGRS, Inc
 Checklist Completed by: DM Client Project ID: Sloan 1
 Date/time completed: 10-31-11 1558 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: ND
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: / 17.3 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 203

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

Date/Time Reviewed 10-31-11 1558

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-41@7'
10/31/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710459-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J3103	10/31/2017	10/31/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.003	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J3104	10/31/2017	10/31/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.9 %	59-131			"	"	"	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Blank (B7J3103-BLK1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5	123		70-130			
Surrogate: Toluene-d8	59		"	62.5	95.1		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

LCS (B7J3103-BS1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Benzene	0.097	0.002	mg/kg	0.100		97.1	77.1-124			
Toluene	0.091	0.002	"	0.100		91.0	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.7	66.4-127			
m,p-Xylene	0.198	0.004	"	0.200		99.1	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike (B7J3103-MS1)	Source: Y710386-01			Prepared: 10/31/2017 Analyzed: 10/31/2017						
Benzene	0.093	0.002	mg/kg	0.100	93.0	71.8-126				
Toluene	0.084	0.002	"	0.100	83.7	65.1-130				
Ethylbenzene	0.084	0.002	"	0.100	83.8	62.2-130				
m,p-Xylene	0.166	0.004	"	0.200	83.2	46.5-137				
o-Xylene	0.084	0.002	"	0.100	83.6	54.2-134				
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5	104	70-130				
Surrogate: Toluene-d8	62		"	62.5	98.6	70-130				
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106	70-130				

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 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J3103 - EPA 5030 (soil)

Matrix Spike Dup (B7J3103-MSD1)	Source: Y710386-01			Prepared: 10/31/2017 Analyzed: 10/31/2017						
Benzene	0.098	0.002	mg/kg	0.100	97.9	71.8-126	5.11	11.3		
Toluene	0.089	0.002	"	0.100	89.4	65.1-130	6.68	15.4		
Ethylbenzene	0.087	0.002	"	0.100	86.9	62.2-130	3.61	19.6		
m,p-Xylene	0.174	0.004	"	0.200	87.0	46.5-137	4.49	19.2		
o-Xylene	0.088	0.002	"	0.100	88.4	54.2-134	5.58	17.9		
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5	103	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.3	70-130				
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103	70-130				

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B7J3104 - EPA 3550B

Blank (B7J3104-BLK1)

Prepared: 10/31/2017 Analyzed: 11/01/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	33		"	50.0		66.8	59-131			

LCS (B7J3104-BS1)

Prepared: 10/31/2017 Analyzed: 10/31/2017

Gasoline (C6-C10)	869	50.0	mg/kg	1000		86.9	59-133			
Diesel (C10-C28)	834	50.0	"	1000		83.4	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.7	59-131			

Matrix Spike (B7J3104-MS1)

Source: Y710362-01

Prepared: 10/31/2017 Analyzed: 10/31/2017

Gasoline (C6-C10)	824	50.0	mg/kg	1000	ND	82.4	57-139			
Diesel (C10-C28)	818	50.0	"	1000	ND	81.8	53-125			
Surrogate: o-Terphenyl	46		"	50.0		91.5	59-131			

Matrix Spike Dup (B7J3104-MSD1)

Source: Y710362-01

Prepared: 10/31/2017 Analyzed: 10/31/2017

Gasoline (C6-C10)	795	50.0	mg/kg	1000	ND	79.5	57-139	3.65	20	
Diesel (C10-C28)	769	50.0	"	1000	ND	76.9	53-125	6.28	20	
Surrogate: o-Terphenyl	44		"	50.0		88.9	59-131			

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Notes and Definitions

U Sample is Non-Detect.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

November 02, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. November 01, 2017. This project is associated with Origins project number Y711018-01.

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



CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-54@7'	Y711018-01	Soil	November 1, 2017 15:00	11/01/2017 16:50
SS-South@7'	Y711018-02	Soil	November 1, 2017 15:30	11/01/2017 16:50

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1711012 Client: CGRS, Inc
 Client Project ID: Sloan 1
 Checklist Completed by: Dan Lee Shipped Via: HD
 Date/time completed: 11-1-12 1809 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: HP
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 19.6 °C _____ °C _____ °C (Describe)
 Thermometer ID: 1003

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"/>		Sampled same Day
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" 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) [Signature] Date/Time Reviewed 11-1-12 1817

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-54@7'
11/1/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711018-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	B7K0106	11/01/2017	11/01/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7K0107	"	11/02/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.9 %	59-131			"	"	"	
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Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

SS-South@7'
11/1/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711018-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	B7K0106	11/01/2017	11/01/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7K0107	"	11/02/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	61.3 %	59-131			"	"	"	
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Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K0106 - EPA 5030 (soil)

Blank (B7K0106-BLK1)

Prepared: 11/01/2017 Analyzed: 11/01/2017

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K0106 - EPA 5030 (soil)

LCS (B7K0106-BS1)

Prepared: 11/01/2017 Analyzed: 11/01/2017

Benzene	0.091	0.002	mg/kg	0.100		90.9	77.1-124			
Toluene	0.092	0.002	"	0.100		92.2	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		97.4	66.4-127			
m,p-Xylene	0.174	0.004	"	0.200		87.0	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

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Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K0106 - EPA 5030 (soil)

Matrix Spike (B7K0106-MS1)	Source: Y711013-01			Prepared: 11/01/2017 Analyzed: 11/01/2017						
Benzene	2.25	0.050	mg/kg	2.50	ND	90.0	71.8-126			
Toluene	2.23	0.050	"	2.50	ND	89.1	65.1-130			
Ethylbenzene	2.38	0.050	"	2.50	ND	95.1	62.2-130			
m,p-Xylene	4.26	0.100	"	5.00	ND	85.1	46.5-137			
o-Xylene	2.46	0.050	"	2.50	ND	98.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7K0106 - EPA 5030 (soil)

Matrix Spike Dup (B7K0106-MSD1)	Source: Y711013-01			Prepared: 11/01/2017 Analyzed: 11/01/2017						
Benzene	2.35	0.050	mg/kg	2.50	ND	93.9	71.8-126	4.22	11.3	
Toluene	2.31	0.050	"	2.50	ND	92.3	65.1-130	3.48	15.4	
Ethylbenzene	2.44	0.050	"	2.50	ND	97.5	62.2-130	2.55	19.6	
m,p-Xylene	4.39	0.100	"	5.00	ND	87.8	46.5-137	3.07	19.2	
o-Xylene	2.53	0.050	"	2.50	ND	101	54.2-134	2.84	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Craig Mulica
 Project Number: 16926aa
 Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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
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Batch B7K0107 - EPA 3550B

Blank (B7K0107-BLK1)

Prepared: 11/01/2017 Analyzed: 11/01/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	33		"	50.0		65.2	59-131			

LCS (B7K0107-BS1)

Prepared: 11/01/2017 Analyzed: 11/02/2017

Gasoline (C6-C10)	824	50.0	mg/kg	1000		82.4	59-133			
Diesel (C10-C28)	817	50.0	"	1000		81.7	64-121			
Surrogate: o-Terphenyl	44		"	50.0		88.6	59-131			

Matrix Spike (B7K0107-MS1)

Source: Y711013-01

Prepared: 11/01/2017 Analyzed: 11/02/2017

Gasoline (C6-C10)	598	50.0	mg/kg	1000	41.4	55.7	57-139			QM-07
Diesel (C10-C28)	605	50.0	"	1000	ND	60.5	53-125			
Surrogate: o-Terphenyl	36		"	50.0		72.3	59-131			

Matrix Spike Dup (B7K0107-MSD1)

Source: Y711013-01

Prepared: 11/01/2017 Analyzed: 11/02/2017

Gasoline (C6-C10)	611	50.0	mg/kg	1000	41.4	56.9	57-139	2.06	20	QM-07
Diesel (C10-C28)	605	50.0	"	1000	ND	60.5	53-125	0.164	20	
Surrogate: o-Terphenyl	36		"	50.0		72.2	59-131			

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President