



January 29, 2018

**Olsson Associates**

**Jason Davidson**

**4690 Table Mountain Drive**

**Golden**

**CO 80403**

**Project Name - Kraw-Albin #22-20 TB**

**Project Number - 018-0459**

Attached are your analytical results for Kraw-Albin #22-20 TB received by Origins Laboratory, Inc. January 24, 2018. This project is associated with Origins project number Y801343-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

Olsson Associates  
4690 Table Mountain Drive  
Golden CO 80403

Jason Davidson  
Project Number: 018-0459  
Project: Kraw-Albin #22-20 TB

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Base @ 38"	Y801343-01	Soil	January 23, 2018 9:30	01/24/2018 16:25
West Wall @ 26"	Y801343-02	Soil	January 23, 2018 9:35	01/24/2018 16:25
East Wall @ 48"	Y801343-03	Soil	January 23, 2018 10:10	01/24/2018 16:25
East Base @ 60"	Y801343-04	Soil	January 23, 2018 10:20	01/24/2018 16:25
North Wall @ 36"	Y801343-05	Soil	January 23, 2018 9:40	01/24/2018 16:25
South Wall @ 32"	Y801343-06	Soil	January 23, 2018 9:45	01/24/2018 16:25

Origins Laboratory, Inc.



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4690 Table Mountain Drive  
Golden CO 80403

Jason Davidson  
Project Number: 018-0459  
Project: Kraw-Albin #22-20 TB

**ORIGINS**  
LABORATORY, INC

Client: Olsson Associates  
Address: 1535 Kalamazoo St. #400  
Denver, CO 80204  
Telephone Number: 303-339-2012  
Email Address: j.davidson@olssonassociates.com

www.originslaboratory.com

9801343

page 1 of 1

Project Manager: Jason Davidson  
Project Name: Kraw-Albin #22-20 TB  
Project Number: 018-0459  
Samples Collected By: Jason Davidson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ. #		
West Box C38"	1/23/18	9:30	2	X				X			BiFlex (Bald) GRD (Bald) DUC (Bald)	1
West Wall C26"		9:35										2
East Wall C48"		10:10										3
East Box C60"		10:30										4
North Wall C36"		9:40										5
South Wall C38"		9:45										6
												7
												8
												9
												10

Relinquished By: Jason Davidson  
Date: 1/24/18

Received By: [Signature]  
Date: 1/24/18

Time: 10:15  
Date: 1/24/18

Time: 1:25  
Date: 1-24-18

Relinquished By: Jason Davidson  
Date: 1/24/18

Received By: [Signature]  
Date: 1-24-18

Time: 10:15  
Date: 1/24/18

Time: 1:25  
Date: 1-24-18

Temp Received: 7.1

Date Results Needed

Origins Laboratory, Inc.

*Jeff Pellegrini*

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Project Number: 018-0459  
Project: Kraw-Albin #22-20 TB

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y801343

Client: Olsson Assoc.

Client Project ID: Kraw-Albin #22-20 TB

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 1/25/18

Airbill #: 577

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

Cooler Number/Temperature: 1 / 3.4 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JAD

Date/Time Reviewed 1/25/18

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Golden CO 80403

Jason Davidson  
Project Number: 018-0459  
Project: Kraw-Albin #22-20 TB

## West Base @ 38"

1/23/2018 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y801343-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/25/2018	U
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Surrogate: o-Terphenyl	78.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

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**West Wall @ 26"**  
**1/23/2018 9:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y801343-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/25/2018	U
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Surrogate: o-Terphenyl	88.4 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

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## East Wall @ 48"

1/23/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y801343-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/26/2018	U
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Surrogate: o-Terphenyl	82.7 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	

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## East Base @ 60"

1/23/2018 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y801343-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/26/2018	U
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Surrogate: o-Terphenyl	84.9 %	59-131			"	"	"	
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	121 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	

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**North Wall @ 36"**  
**1/23/2018 9:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y801343-05 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/26/2018	U
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Surrogate: o-Terphenyl	88.9 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	

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**South Wall @ 32"**  
**1/23/2018 9:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y801343-06 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8A2502	01/25/2018	01/26/2018	U
Surrogate: o-Terphenyl	86.8 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8A2501	01/25/2018	01/26/2018	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	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	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
<b>Batch B8A2501 - EPA 5030 (soil)</b>										
<b>Blank (B8A2501-BLK1)</b>					Prepared: 01/25/2018 Analyzed: 01/25/2018					
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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	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
<b>Batch B8A2501 - EPA 5030 (soil)</b>										
<b>Blank (B8A2501-BLK2)</b>					Prepared: 01/25/2018 Analyzed: 01/25/2018					
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	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	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
<b>Batch B8A2501 - EPA 5030 (soil)</b>										
<b>LCS (B8A2501-BS1)</b>					Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.2	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		96.1	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	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
<b>Batch B8A2501 - EPA 5030 (soil)</b>										
<b>LCS (B8A2501-BS2)</b>					Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	0.099	0.002	mg/kg	0.100		99.2	77.1-124			
Toluene	0.098	0.002	"	0.100		97.8	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.0	66.4-127			
m,p-Xylene	0.193	0.004	"	0.200		96.6	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	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 B8A2501 - EPA 5030 (soil)**

Matrix Spike (B8A2501-MS1)		Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	2.26	0.050	mg/kg	2.50	ND	90.4	71.8-126			
Toluene	2.22	0.050	"	2.50	0.022	88.1	65.1-130			
Ethylbenzene	2.15	0.050	"	2.50	0.019	85.3	62.2-130			
m,p-Xylene	4.38	0.100	"	5.00	0.037	86.8	46.5-137			
o-Xylene	2.28	0.050	"	2.50	0.016	90.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8A2501 - EPA 5030 (soil)**

Matrix Spike (B8A2501-MS2)		Source: Y801337-02			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	2.44	0.050	mg/kg	2.50	ND	97.5	71.8-126			
Toluene	2.41	0.050	"	2.50	ND	96.3	65.1-130			
Ethylbenzene	2.29	0.050	"	2.50	0.030	90.4	62.2-130			
m,p-Xylene	4.68	0.100	"	5.00	0.060	92.3	46.5-137			
o-Xylene	2.48	0.050	"	2.50	0.057	97.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Jason Davidson  
Project Number: 018-0459  
Project: Kraw-Albin #22-20 TB

**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 B8A2501 - EPA 5030 (soil)**

Matrix Spike Dup (B8A2501-MSD1)		Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	2.32	0.050	mg/kg	2.50	ND	92.8	71.8-126	2.66	11.3	
Toluene	2.29	0.050	"	2.50	0.022	90.6	65.1-130	2.75	15.4	
Ethylbenzene	2.18	0.050	"	2.50	0.019	86.4	62.2-130	1.22	19.6	
m,p-Xylene	4.40	0.100	"	5.00	0.037	87.2	46.5-137	0.513	19.2	
o-Xylene	2.30	0.050	"	2.50	0.016	91.5	54.2-134	1.09	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	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 B8A2501 - EPA 5030 (soil)**

Matrix Spike Dup (B8A2501-MSD2)		Source: Y801337-02			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Benzene	2.50	0.050	mg/kg	2.50	ND	100	71.8-126	2.47	11.3	
Toluene	2.42	0.050	"	2.50	ND	96.7	65.1-130	0.456	15.4	
Ethylbenzene	2.31	0.050	"	2.50	0.030	91.2	62.2-130	0.891	19.6	
m,p-Xylene	4.64	0.100	"	5.00	0.060	91.7	46.5-137	0.697	19.2	
o-Xylene	2.48	0.050	"	2.50	0.057	97.0	54.2-134	0.101	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	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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## 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 B8A2502 - EPA 3550B

<b>Blank (B8A2502-BLK1)</b>				Prepared: 01/25/2018 Analyzed: 01/25/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
<b>Blank (B8A2502-BLK2)</b>				Prepared: 01/25/2018 Analyzed: 01/25/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			
<b>LCS (B8A2502-BS1)</b>				Prepared: 01/25/2018 Analyzed: 01/25/2018						
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			
<b>LCS (B8A2502-BS2)</b>				Prepared: 01/25/2018 Analyzed: 01/25/2018						
Diesel (C10-C28)	950	50.0	mg/kg	1000		95.0	64-121			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
<b>Matrix Spike (B8A2502-MS1)</b>				<b>Source: Y801337-01</b>		Prepared: 01/25/2018 Analyzed: 01/25/2018				
Diesel (C10-C28)	1020	50.0	mg/kg	1000	62.1	95.7	53-125			
Surrogate: o-Terphenyl	49		"	50.0		98.4	59-131			
<b>Matrix Spike (B8A2502-MS2)</b>				<b>Source: Y801337-02</b>		Prepared: 01/25/2018 Analyzed: 01/25/2018				
Diesel (C10-C28)	1060	50.0	mg/kg	1000	80.3	98.0	53-125			
Surrogate: o-Terphenyl	57		"	50.0		114	59-131			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8A2502 - EPA 3550B</b>										
<b>Matrix Spike Dup (B8A2502-MSD1)</b>		<b>Source: Y801337-01</b>			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Diesel (C10-C28)	889	50.0	mg/kg	1000	62.1	82.7	53-125	13.6	20	
Surrogate: o-Terphenyl	45		"	50.0		90.6	59-131			
<b>Matrix Spike Dup (B8A2502-MSD2)</b>		<b>Source: Y801337-02</b>			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	80.3	97.1	53-125	0.880	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

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### 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.

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