



September 12, 2018

Olsson Associates

Jason Davidson

4690 Table Mountain Drive

Golden

CO 80403

Project Name - Margil Farms Tank Pull

Project Number - 018-2754

Attached are your analytical results for Margil Farms Tank Pull received by Origins Laboratory, Inc. September 07, 2018. This project is associated with Origins project number Y809070-01.

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: 018-2754

Project: Margil Farms Tank Pull

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Mf-Base@7'	Y809070-01	Soil	September 6, 2018 14:10	09/07/2018 14:45
Mf-WWall@5.5'	Y809070-02	Soil	September 6, 2018 14:11	09/07/2018 14:45
Mf-NWall@5'	Y809070-03	Soil	September 6, 2018 14:13	09/07/2018 14:45
Mf-SWall@5.5'	Y809070-04	Soil	September 6, 2018 14:15	09/07/2018 14:45
Mf-EWall@6'	Y809070-05	Soil	September 6, 2018 14:18	09/07/2018 14:45

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.

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

ORIGINS

LABORATORY, INC

Y809070

www.originslaboratory.com

page 1 of 1

Client: Olson Associates
 Address: 1525 Raleigh St. Ste. 400
Denver CO 80204
 Telephone Number: 303-237-2072
 Email Address: jason@olsonassociates.com

Project Manager: Jason Davidson
 Project Name: Marietta Tank Pull
 Project Number: OK-2754
 Samples Collected By: JED

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
MF-Basc01	9/6/18	1410	1	X				X			OK-2754	1
MF-Wall05.5'		1411	1								OK-2754	2
MF-Wall05'		1413	1								OK-2754	3
MF-Swall05.5'		1415	1								OK-2754	4
MF-Ewall06'		1418	1								OK-2754	5
												6
												7
												8
												9
												10
Relinquished By: <u>Jason Davidson</u>	Date: <u>9/11/18</u>	Time: <u>1445</u>	Received By: <u>[Signature]</u>	Date: <u>9-7-18</u>	Time: <u>1415</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>	Received By: <u>[Signature]</u>	Date: <u></u>	Time: <u></u>							

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

Temp Received: 3.8

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y809070

Client: Olsson

Client Project ID: Margil Farms Tank Pull

Checklist Completed by: JG

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

Date/time completed: 7/7/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.8 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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) JG

Date/Time Reviewed 9/10/18

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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Mf-Base@7'

9/6/2018 2:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y809070-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B81001	KDK	09/10/2018	09/11/2018	U
------------------	----	------	-------	---	--------	-----	------------	------------	---

Surrogate: o-Terphenyl	74.2 %	59-131			"	"	"		
------------------------	--------	--------	--	--	---	---	---	--	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B810701	KDK	09/07/2018	09/07/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	95.0 %	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Mf-WWall@5.5'

9/6/2018 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y809070-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B81001	KDK	09/10/2018	09/11/2018	U
------------------	----	------	-------	---	--------	-----	------------	------------	---

Surrogate: o-Terphenyl	67.0 %	59-131			"	"	"		
------------------------	--------	--------	--	--	---	---	---	--	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B810701	KDK	09/07/2018	09/07/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	"		
Surrogate: Toluene-d8	100 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.8 %	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Mf-NWall@5'

9/6/2018 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y809070-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B81001	KDK	09/10/2018	09/11/2018	U
------------------	----	------	-------	---	--------	-----	------------	------------	---

Surrogate: o-Terphenyl	65.5 %	59-131			"	"	"		
------------------------	--------	--------	--	--	---	---	---	--	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B810701	KDK	09/07/2018	09/07/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130			"	"	"		
Surrogate: Toluene-d8	103 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.4 %	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Mf-SWall@5.5'

9/6/2018 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y809070-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B81001	KDK	09/10/2018	09/11/2018	U
------------------	----	------	-------	---	--------	-----	------------	------------	---

Surrogate: o-Terphenyl	67.7 %	59-131			"	"	"		
------------------------	--------	--------	--	--	---	---	---	--	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B810701	KDK	09/07/2018	09/07/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.8 %	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

Mf-EWall@6'

9/6/2018 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y809070-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B81001	KDK	09/10/2018	09/11/2018	U
------------------	----	------	-------	---	--------	-----	------------	------------	---

Surrogate: o-Terphenyl	71.1 %	59-131			"	"	"		
------------------------	--------	--------	--	--	---	---	---	--	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B810701	KDK	09/07/2018	09/07/2018	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	"		
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	96.2 %	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)										
Blank (B8I0701-BLK1)					Prepared: 09/07/2018 Analyzed: 09/07/2018					
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	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.7	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)										
Blank (B8I0701-BLK2)					Prepared: 09/07/2018 Analyzed: 09/07/2018					
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	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)										
LCS (B8I0701-BS1)					Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.096	0.002	mg/kg	0.100		95.8	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.6	66.4-127			
m,p-Xylene	0.203	0.004	"	0.200		102	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)										
LCS (B8I0701-BS2)					Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.094	0.002	mg/kg	0.100		93.7	77.1-124			
Toluene	0.093	0.002	"	0.100		93.1	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		106	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)

Matrix Spike (B8I0701-MS1)		Source: Y809048-02			Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.6	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	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	58		ug/kg	62.5		93.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)

Matrix Spike (B8I0701-MS2)		Source: Y809048-03			Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.094	0.002	mg/kg	0.100	ND	93.8	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	88.8	65.1-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	83.8	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.4	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)										
Matrix Spike Dup (B8I0701-MSD1)	Source: Y809048-02				Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	4.57	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	9.72	15.4	
Ethylbenzene	0.121	0.002	"	0.100	ND	121	62.2-130	9.09	19.6	
m,p-Xylene	0.246	0.004	"	0.200	ND	123	46.5-137	4.29	19.2	
o-Xylene	0.124	0.002	"	0.100	ND	124	54.2-134	7.36	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B8I0701 - EPA 5030 (soil)

Matrix Spike Dup (B8I0701-MSD2)		Source: Y809048-03			Prepared: 09/07/2018 Analyzed: 09/07/2018					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.6	71.8-126	7.96	11.3	
Toluene	0.084	0.002	"	0.100	ND	83.8	65.1-130	5.79	15.4	
Ethylbenzene	0.074	0.002	"	0.100	ND	74.5	62.2-130	11.7	19.6	
m,p-Xylene	0.157	0.004	"	0.200	ND	78.6	46.5-137	11.7	19.2	
o-Xylene	0.082	0.002	"	0.100	ND	81.5	54.2-134	11.0	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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.

Jen Pellegrini For Noelle Doyle Mathis, President

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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 B8I1001 - EPA 3550B

Blank (B8I1001-BLK1)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
------------------	----	------	-------	--	--	--	--	--	--	---

Surrogate: o-Terphenyl

41	"	50.0	82.5	59-131
----	---	------	------	--------

Blank (B8I1001-BLK2)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
------------------	----	------	-------	--	--	--	--	--	--	---

Surrogate: o-Terphenyl

36	"	50.0	71.5	59-131
----	---	------	------	--------

Blank (B8I1001-BLK3)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
------------------	----	------	-------	--	--	--	--	--	--	---

Surrogate: o-Terphenyl

37	"	50.0	73.1	59-131
----	---	------	------	--------

LCS (B8I1001-BS1)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	754	50.0	mg/kg	1000	75.4	64-121
------------------	-----	------	-------	------	------	--------

Surrogate: o-Terphenyl

37	"	50.0	74.2	59-131
----	---	------	------	--------

LCS (B8I1001-BS2)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	749	50.0	mg/kg	1000	74.9	64-121
------------------	-----	------	-------	------	------	--------

Surrogate: o-Terphenyl

38	"	50.0	76.4	59-131
----	---	------	------	--------

LCS (B8I1001-BS3)

Prepared: 09/10/2018 Analyzed: 09/10/2018

Diesel (C10-C28)	790	50.0	mg/kg	1000	79.0	64-121
------------------	-----	------	-------	------	------	--------

Surrogate: o-Terphenyl

39	"	50.0	77.9	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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 B811001 - EPA 3550B										
Matrix Spike (B811001-MS1)		Source: Y809076-01			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	1180	50.0	mg/kg	1000	279	90.6	53-125			
Surrogate: o-Terphenyl	41		"	50.0		81.0	59-131			
Matrix Spike (B811001-MS2)		Source: Y809076-02			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	757	50.0	mg/kg	1000	16.4	74.1	53-125			
Surrogate: o-Terphenyl	36		"	50.0		71.8	59-131			
Matrix Spike (B811001-MS3)		Source: Y809096-01			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	53-125			
Surrogate: o-Terphenyl	38		"	50.0		75.8	59-131			
Matrix Spike Dup (B811001-MSD1)		Source: Y809076-01			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	279	83.4	53-125	6.22	20	
Surrogate: o-Terphenyl	40		"	50.0		80.5	59-131			
Matrix Spike Dup (B811001-MSD2)		Source: Y809076-02			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	746	50.0	mg/kg	1000	16.4	73.0	53-125	1.49	20	
Surrogate: o-Terphenyl	37		"	50.0		73.7	59-131			
Matrix Spike Dup (B811001-MSD3)		Source: Y809096-01			Prepared: 09/10/2018 Analyzed: 09/10/2018					
Diesel (C10-C28)	821	50.0	mg/kg	1000	ND	82.1	53-125	3.56	20	
Surrogate: o-Terphenyl	40		"	50.0		79.6	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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Jason Davidson
Project Number: 018-2754
Project: Margil Farms Tank Pull

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