



May 17, 2017

Mr. Phil Hamlin, REM, CSEM  
Senior HSE Representative  
Kerr-McGee Oil & Gas Onshore LP  
1099 18<sup>th</sup> Street, Suite 1800  
Denver, Colorado 80202

**RE: Sump Closure Report  
Suckla Frank J #2  
API #05-123-09988  
Location ID #318809  
Remediation #10713  
NESE SEC 10-T1N-R67W  
Weld County, Colorado**

Dear Mr. Hamlin:

LT Environmental, Inc. (LTE) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct environmental oversight activities at the above-referenced site. The oversight activities included field-screening soil, collecting soil samples, documenting field activities, and reviewing laboratory analytical results.

The objective of the soil sampling was to determine if petroleum hydrocarbon impact to subsurface soil resulted from Kerr-McGee operating a produced water sump at the site. The soil sampling activities, laboratory analytical results, and conclusions are summarized below. The general site layout, soil sample location, and sump excavation dimensions are depicted on the Excavation Site Map provided as Figure 1.

On March 16, 2017, following removal of the produced water sump, soil samples were collected from the sidewalls and base of the sump excavation. The soil samples were field-screened for volatile organic compounds using a photoionization detector (PID). Soil staining, odor, and/or elevated PID headspace readings were not observed or identified through PID screening; the highest PID reading recorded was 2.4 parts per million. Based on the field-screening results, the excavation base soil sample (B01@5') was submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH-diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA modified Method 9050A. Laboratory analytical results for soil sample B01@5' indicated that BTEX, TPH, pH, and EC levels were compliant with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 allowable levels. The soil sample analytical results are summarized in Table 1, and the laboratory analytical report is attached.



The sump excavation measured approximately 16 feet northwest to southeast by 18 feet northeast to southwest and completed to a depth of 5 feet below ground surface. Groundwater and/or impacted soil were not encountered in the excavation. A liner was not present beneath the sump at this site. The produced water sump at this facility has been permanently removed, and the excavation area was backfilled with clean fill and contoured to match pre-existing site conditions.

LTE appreciates the opportunity to provide environmental services to Kerr-McGee. Please contact us at (303) 433-9788 if you have any questions regarding this Sump Closure Report or if you require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads "Katharine Howe". The signature is written in a cursive, flowing style.

Katharine Howe, E.I.  
Staff Engineer

A handwritten signature in blue ink that reads "Brian Sulzberger". The signature is written in a cursive, flowing style.

Brian Sulzberger, P.E., P.G.  
Senior Engineer

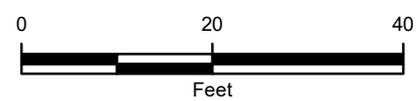
Attachments



IMAGE COURTESY OF GOOGLE EARTH 2015

**LEGEND**

- SOIL SAMPLE
- Ⓜ METER HOUSE
- × — × FORMER FENCE
- - - IRRIGATION DITCH
- ⎓ EXCAVATION EXTENT
- ▭ FORMER BERM
- AST: ABOVEGROUND STORAGE TANK



**FIGURE 1**  
**EXCAVATION SITE MAP**  
**SUCKLA FRANK J #2**  
**NESE SEC 10-T1N-R67W**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**SUCKLA FRANK J #2**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01@5'	5'	03/16/2017	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100	8.68	0.0254
<b>COGCC Allowable Levels</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500*</b>	<b>500*</b>	<b>500*</b>	<b>6-9</b>	<b>4</b>

Notes: bgs - below ground surface

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed/not available

ORO - oil range organics

su - standard units

TPH - total petroleum hydrocarbons

\* - TPH standard applies to combined DRO-GRO-ORO

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level.



March 17, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sukla Frank J#2

Project Number - 14217055

Attached are your analytical results for KMG - Sukla Frank J#2 received by Origins Laboratory, Inc. March 16, 2017. This project is associated with Origins project number Y703238-01.

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



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 14217055  
Project: KMG - Sukla Frank J#2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	Y703238-01	Soil	March 16, 2017 11:45	03/16/2017 17:20

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

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

**Sample Receipt Checklist**

Origins Work Order: Y 703238 Client: LT  
 Client Project ID: KMG - Sukla Frank J#2  
 Checklist Completed by: Dan Lu Shipped Via: HD  
 Date/time completed: 3-16-17 1733 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 2.0 °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 <sup>(1)</sup> ?		<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			pu
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> 24 inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 analysis 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"/>		

<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: [Signature] Date/Time Reviewed: 3/16-17 1733

Origins Laboratory, Inc.

*Jefe Pellegrini*

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**B01@5'**  
**3/16/2017 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y703238-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 94.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C1601	03/16/2017	03/16/2017	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* 98.6 % 70-130 " " "  
*Surrogate: Toluene-d8* 96.6 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.68		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0254		mmhos/cm	"	B7C1607	03/16/2017	"	
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**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 B7C1601 - EPA 5030 (soil)</b>										
<b>Blank (B7C1601-BLK1)</b>										
					Prepared: 03/16/2017 Analyzed: 03/16/2017					
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	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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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 B7C1601 - EPA 5030 (soil)</b>										
<b>Blank (B7C1601-BLK2)</b>										
					Prepared: 03/16/2017 Analyzed: 03/16/2017					
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	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	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 B7C1601 - EPA 5030 (soil)**

**LCS (B7C1601-BS1)**

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		104	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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LT Environmental, Inc.  
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Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**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 B7C1601 - EPA 5030 (soil)**

**LCS (B7C1601-BS2)**

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**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 B7C1601 - EPA 5030 (soil)

Matrix Spike (B7C1601-MS1)	Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**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 B7C1601 - EPA 5030 (soil)

Matrix Spike Dup (B7C1601-MSD1)	Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	0.408	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	3.90	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	2.66	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	2.91	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	2.48	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**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 B7C1602 - EPA 3580**

**Blank (B7C1602-BLK1)**

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			

**LCS (B7C1602-BS1)**

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	64-121			
Residual Range Organics (C28-C40)	894	200	"	1000		89.4	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			

**Matrix Spike (B7C1602-MS1)**

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	115	53-125			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

**Matrix Spike Dup (B7C1602-MSD1)**

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	116	53-125	0.114	20	
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	47-133	1.19	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 14217055  
 Project: KMG - Sukla Frank J#2

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7C1606 - NO PREP</b>										
<b>Duplicate (B7C1606-DUP1)</b>		<b>Source: Y703238-01</b>			Prepared: 03/16/2017 Analyzed: 03/16/2017					
pH	8.67		pH Units		8.68			0.115	25	
<b>Batch B7C1607 - NO PREP</b>										
<b>Blank (B7C1607-BLK1)</b>		Prepared: 03/16/2017 Analyzed: 03/16/2017								
Specific Conductance (EC)	0.00350		mmhos/cm							
<b>Duplicate (B7C1607-DUP1)</b>		<b>Source: Y703238-01</b>			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Specific Conductance (EC)	0.0309		mmhos/cm		0.0254			19.5	25	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 14217055  
Project: KMG - Sukla Frank J#2

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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.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President