



August 12, 2016

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

**Re: Sump Closure Summary Letter Report  
JELTS 16C-19HZ (Jelts 37C, 16N, 39C-19HZ)  
API: 05-123-36568  
Facility ID: 431353  
Legal: NENE Sec 19-T1N-R67W  
Remediation Project #8961**

Dear Mr. Mickelson:

On behalf of Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee), Tasman Geosciences, Inc. (Tasman) has prepared this Sump Closure Summary Letter Report (Report) to document sampling activities and the results of environmental testing at the above-referenced site. This Report is being submitted under the Form 27 Management Plan for Closure of Produced Water Vessels, which has been assigned Remediation #8961 by the COGCC. Tasman provided environmental services at the site that included collection of confirmation soil samples from the excavation and documentation of field activities, as described below.

### **Site Assessment Activities**

The field activities described herein were performed with the purpose of assessing potential hydrocarbon impacts at the site related to the closure of the produced water sump on June 16, 2016. Soil sampling activities, laboratory analytical results, and conclusions are presented below. The general site layout and sample locations are provided in the attached site map (Attachment A).

The final extent of the excavation measured approximately 15 feet by 15 feet with an approximate depth of 3 feet below ground surface (bgs). No impacted material was removed from the site during closure activities. A liner was present at the location, and groundwater was not encountered in the excavation.

Confirmation soil samples were collected from sidewalls of the excavation area at approximately 3 feet bgs. A soil sample was not collected from the base of the excavation due to the presence of a liner. The soil samples were field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). The confirmation soil sample collected from the east sidewall of the excavation area was submitted to Origins Laboratory in Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum

hydrocarbons (TPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH – diesel range and oil range organics (DRO and ORO) by USEPA Method 8015, electrical conductivity (EC), and pH. Soil analytical data is summarized in Table 1 and the laboratory analytical report is provided in Attachment B.

## **Results**

Soil analytical results from the sample collected from the east sidewall of the final extent of the excavation area indicated that BTEX and TPH concentrations were below the applicable COGCC Table 910-1 standards. The remaining three soil samples collected from the remaining sidewalls of the excavation area were not submitted for laboratory analysis as analytical data confirmed the absence of petroleum hydrocarbon impacts above regulatory standards.

## **Conclusions**

Analytical results described herein confirm BTEX and TPH impacts are not present at concentrations above applicable regulatory standards in the former sump location. Consequently, no further site assessment or remedial activity is recommended at this time. Following site assessment activities, the produced water sump was removed and the excavation area was backfilled and contoured to match pre-existing site conditions.

Please contact me at (303) 487-1228 if you have any questions regarding this report or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Brock Nelson', is written over a light blue horizontal line.

Brock Nelson  
Project Geologist

## **Attachments:**

Table 1 – Soil Sample Results Summary Table  
Attachment A – Site Map  
Attachment B – Laboratory Analytical Report

## Table

**TABLE 1**  
**JELTS 16C-19HZ (Jelts 37C, 16N, 39C-19HZ)**  
**SOIL SAMPLE RESULTS SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample ID	Date	Depth (ft. bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH- GRO (mg/kg)	TEPH- DRO (mg/kg)	TEPH- ORO (mg/kg)	EC (mmhos/cm)	pH (units)
<b>COGCC standards for soil (mg/kg) <sup>(1)</sup></b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>			<b>4 or 2x BG</b>	<b>6-9</b>
E01 @3'	06/16/16	3	<0.050	<0.050	<0.050	0.058	14.1	<25.0	<100	0.169	8.49

**Notes:**

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective March 16, 2016.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

EC = Electrical conductivity

BG = Background

mmhos/cm = Millimhos per centimeter

mg/kg = Milligrams per kilogram.

ft. bgs = Feet below ground surface.

**BOLD** = Analytical result is in exceedance of COGCC Table 910-1 soil standards.

**Figure 1**



DATE:	August 1, 2016
DESIGNED BY:	K. Forsmark
DRAWN BY:	M. Petersen



**Kerr-McGee Oil and Gas Onshore, LP**  
**JELTS 16C-19HZ (Jelts 37C, 16N, 39C-19HZ)**  
NENE, Section 19, Township 1 North, Range 67 West  
Weld County, Colorado

Sample Location  
Map

FIGURE  
1

## **Attachment A**





June 17, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Jelts 37C, 16N,39C-19Hz

Project Number - [none]

Attached are your analytical results for KMG - Jelts 37C, 16N,39C-19Hz received by Origins Laboratory, Inc. June 16, 2016. This project is associated with Origins project number X606213-03.

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



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Jelts 37C, 16N,39C-19Hz

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E01 @ 3'	X606213-03	Soil	June 16, 2016 13:05	06/16/2016 16:56

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.*

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

www.originslaboratory.com

X60213

ORIGINS  
LABORATORY, INC

Client: Tasman Geosciences  
Address: [blank]  
Telephone Number: (352) 262-9910  
Email Address: [blank]  
Project Manager: Bob Cornez  
Project Name: Jelts 37C, 16N, 39C-19Hz  
Project Number: [blank]  
Samples Collected By: Cat Tasman

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
N6123'-H4D	6/16/14	1255	2	X				X			GIBTEX 8210 TPH-D4100 8015 PH, EC, SAR, IFE, C	1
S0123'-H4D	6/16/14	1300	2	X				X				2
E0123'-H4D	6/16/14	1305	2	X				X				3
W0123'-H4D	6/16/14	1310	2	X				X				4
												5
												6
												7
												8
												9
												10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
[Signature]	6/16/14	1225	[Signature]	6.16.14	1656	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

5.8

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N, 39C-19Hz

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X606213

Client: Tasman

Client Project ID: Jelts 37C, 16N, 39C-19Hz

Checklist Completed by: Jeff Smith

Shipped Via: Pick Up

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

Date/time completed: 6/16/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.8 °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 <sup>(1)</sup> ?	<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 <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"/>			
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 (> 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 <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 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.

Jeff Smith  
Reviewed by (Project Manager)

6/16/12  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jen 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.

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

E01 @ 3'  
6/16/2016 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X606213-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1601	06/16/2016	06/16/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	14.1	5.00	mg/kg	25	B6F1602	06/16/2016	06/16/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.058	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 94.7 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.49		pH Units	1	B6F1603	06/16/2016	06/16/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.169		mmhos/cm	"	B6F1604	06/16/2016	06/16/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

**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 B6F1602 - EPA 5030 (soil)</b>										
<b>Blank (B6F1602-BLK1)</b>					Prepared: 06/16/2016 Analyzed: 06/16/2016					
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		98.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

**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 B6F1602 - EPA 5030 (soil)</b>										
<b>LCS (B6F1602-BS1)</b>					Prepared: 06/16/2016 Analyzed: 06/16/2016					
Benzene	0.100	0.002	mg/kg	0.100		99.5	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.221	0.004	"	0.200		111	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

**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 B6F1602 - EPA 5030 (soil)**

Matrix Spike (B6F1602-MS1)		Source: X606201-01			Prepared: 06/16/2016 Analyzed: 06/16/2016					
Benzene	0.088	0.002	mg/kg	0.100	0.006	82.5	71.8-126			
Toluene	0.081	0.002	"	0.100	ND	80.5	65.1-130			
Ethylbenzene	0.079	0.002	"	0.100	ND	79.0	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	80.9	46.5-137			
o-Xylene	0.082	0.002	"	0.100	ND	82.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

**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 B6F1602 - EPA 5030 (soil)**

Matrix Spike Dup (B6F1602-MSD1)		Source: X606201-01			Prepared: 06/16/2016 Analyzed: 06/16/2016					
Benzene	0.103	0.002	mg/kg	0.100	0.006	96.8	71.8-126	14.9	11.3	QR-02
Toluene	0.087	0.002	"	0.100	ND	87.4	65.1-130	8.15	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.0	62.2-130	9.73	19.6	
m,p-Xylene	0.179	0.004	"	0.200	ND	89.5	46.5-137	10.0	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134	8.20	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

## 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 B6F1601 - EPA 3550B

##### Blank (B6F1601-BLK1)

Prepared: 06/16/2016 Analyzed: 06/16/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.4	59-131			

##### LCS (B6F1601-BS1)

Prepared: 06/16/2016 Analyzed: 06/16/2016

Diesel (C10-C28)	878	50.0	mg/kg	1000		87.8	64-121			
Residual Range Organics (C28-C40)	908	200	"	1000		90.8	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.9	59-131			

##### Matrix Spike (B6F1601-MS1)

Source: X606201-01

Prepared: 06/16/2016 Analyzed: 06/16/2016

Diesel (C10-C28)	872	50.0	mg/kg	1000	15.0	85.7	53-125			
Residual Range Organics (C28-C40)	828	200	"	1000	17.8	81.0	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.8	59-131			

##### Matrix Spike Dup (B6F1601-MSD1)

Source: X606201-01

Prepared: 06/16/2016 Analyzed: 06/16/2016

Diesel (C10-C28)	845	50.0	mg/kg	1000	15.0	83.0	53-125	3.14	20	
Residual Range Organics (C28-C40)	808	200	"	1000	17.8	79.0	47-133	2.46	20	
Surrogate: o-Terphenyl	42		"	50.0		84.4	59-131			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Jelts 37C, 16N,39C-19Hz

## 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 B6F1603 - NO PREP</b>										
<b>Duplicate (B6F1603-DUP1)</b>		<b>Source: X606201-01</b>			Prepared: 06/16/2016 Analyzed: 06/16/2016					
pH	7.61		pH Units		7.60			0.131	25	
<b>Batch B6F1604 - NO PREP</b>										
<b>Blank (B6F1604-BLK1)</b>		Prepared: 06/16/2016 Analyzed: 06/16/2016								
Specific Conductance (EC)	0.00250		mmhos/cm							
<b>Duplicate (B6F1604-DUP1)</b>		<b>Source: X606201-01</b>			Prepared: 06/16/2016 Analyzed: 06/16/2016					
Specific Conductance (EC)	0.543		mmhos/cm		0.538			0.925	25	

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Jelts 37C, 16N,39C-19Hz

## Notes and Definitions

U Sample is Non-Detect.

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.



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