



Kerr-McGee Oil & Gas Onshore LP  
1099 18<sup>th</sup> Street, Suite 1800  
Denver, Colorado 80202  
720-929-6000 Fax 720-929-7000

June 23, 2016

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

**Re: Sump Replacement Summary Letter Report  
Warner W-62N66W/13NWSE  
API: 05-123-24674  
Facility ID: 306451  
NWSE Sec.13 2N66W  
COGCC Remediation #8961**

Dear Mr. Mickelson:

Apex Companies, LLC (Apex) is providing Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) with this Sump Replacement 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. Apex provided the 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 on April 6, 2016, with the purpose of assessing potential hydrocarbon impacts at the site related to the replacement of the produced water sump. Soil sampling activities, laboratory analytical results, and conclusions are presented below. The general site layout and sample locations are provided on Figure 1.

The final extent of the excavation measured approximately 15 feet by 12 feet with an approximate depth of 5 feet below ground surface (bgs). No impacted soils were encountered in the excavation during closure activities. A liner was not present below the tanks, and groundwater was not encountered in the excavation.

Confirmation soil samples were collected from the base and sidewalls of the excavation area at approximately 5 feet and 4 feet bgs, respectively. Soil samples were field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). The confirmation soil sample collected from the base (Base1@5') 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 8260, and TPH – diesel range and residual range organics (DRO and RRO) 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 A.

## Results

Soil analytical results from soil sample Base1 @5' indicated that BTEX and TPH concentrations were below the applicable COGCC Table 910-1 standards. The remaining four soil samples collected from the sidewalls of the excavation area were not submitted for laboratory analysis as analytical data confirmed the absence of petroleum hydrocarbon impacts above regulatory standards. For soil sample Base1 @5', the laboratory analytical result for pH exceeded the COGCC threshold, but the sample was collected below the designated root zone, at 5 feet bgs.

## 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 necessary. Following site assessment activities, the produced water sump was replaced onsite in a new location.

Please contact me at (303) 242-8671 if you have any questions regarding this report or require additional information.

Sincerely,

Apex Companies, LLC

A handwritten signature in blue ink that reads "Jacob H. Hildebrand". The signature is written in a cursive style with a horizontal line extending to the left.

Jacob Hildebrand, PMP  
Project Manager

## Attachments:

Table 1 – Soil Sample Results Summary Table  
Figure 1 – Site Map  
Attachment A – Laboratory Analytical Reports

# Table 1 - Soil Sample Results Summary Table



Kerr-McGee Oil and Gas Onshore LP

Location Name: Warner W-62N66W / 13NWSE

Location ID: 306451

API #: 05-123-24674

County: Weld

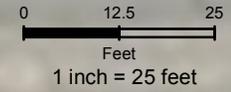
Sample ID	Sample Date	Depth (feet bgs)	Organics in Soil							Inorganics in Soil	
			TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes - total (mg/kg)	Electrical Conductivity (mmhos/cm) (<4 or 2x background)	pH (6-9)
Base 1 @ 5'	04/06/16	5'	<5.00	<50	<200	<0.050	<0.050	<0.050	<0.050	0.3040	9.18 *

**Notes:**

TPH Total petroleum hydrocarbons  
 GRO Gasoline range hydrocarbons (C6 - C10)  
 DRO Diesel range organics (C10 - C28)  
 RRO Residual range organics (C28 - C36)  
**Bold** cell indicates result exceeded COGCC Table 910-1 allowable concentration for the contaminant / inorganic of concern

bgs below ground surface  
 mg/kg milligrams per kilogram  
 mmhos/cm millimhos per centimeter  
 NA Not analyzed / not available  
 COGCC Colorado Oil and Gas Conservation Commission  
 \* Sample collected from below the designated root zone

**Figure 1**  
**Warner W-62N66W/13NWSE**  
**Site Layout**

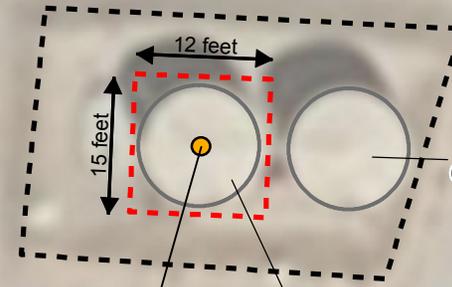


Non-cropland

Former Production  
 Equipment



Access Road



Former  
 Crude Oil Tank

Former Produced  
 Water Sump

**Base1@5'**

B: <0.050 mg/kg  
 TPH: <200 mg/kg

**Legend**

- Soil Sample
- Excavation Extent
- Former Berm
- Byways

**Sample Location**

B: benzene  
 TPH: total petroleum hydrocarbons

Bold values exceed COGCC Table  
 910-1 allowable concentrations

**Site Characteristics**

**Legal Location:** SWSE, Sec 13, T2N R66W  
**County:** Weld  
**Land Use:** Non-cropland  
**Topography:** 1-3% Slopes  
**Run-Off Risk:** NA  
**Soil Type:** Olney fine sandy loam

REVISED	BY	COMMENT
6/23/2016	BJB	Figure 1

**Attachment A**

**Laboratory Analytical Reports**

April 07, 2016

Apex Companies, LLC

Jake Hildebrand

3240 W. 71st Avenue, Suite 1

Westminster CO 80030

**Project Name - KMG - Warner 62N66W/13NWSE    Project Number - 89043882**

Attached are your analytical results for KMG - Warner 62N66W/13NWSE received by Origins Laboratory, Inc. April 06, 2016. This project is associated with Origins project number X604070-01.

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



Apex Companies, LLC  
3240 W. 71st Avenue, Suite 1  
Westminster CO 80030

Jake Hildebrand  
Project Number: 89043882  
Project: KMG - Warner 62N66W/13NWSE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Base 1 @ 5'	X604070-01	Soil	April 6, 2016 11:30	04/06/2016 16:30

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.*

Apex Companies, LLC  
 3240 W. 71st Avenue, Suite 1  
 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

www.originslaboratory.com

ORIGINS  
 LABORATORY, INC

X604070

page 1 of 1

Client: Apex Companies  
 Project Manager: Jacob Hildebrand  
 Address: 1761 Cole Blvd  
 Project Name: Warner 62N66W/13NWSE  
 Lakewood, CO 80401  
 Project Number: 89043882 (Erik Mickelson)  
 Telephone Number: 970-903-1260  
 Samples Collected By: John Hickey  
 Email Address: Jake.Hildebrand@apexcos.com \* Bill to Anadarko

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 #	Other	CBSTEX	Pro/oro	EC	
Base @ 5'	4.6.16	1130	2	X				X				X	X	X	Hold SAR
North @ 4'		1132	1												Hold All
South @ 4'		1134	1												
East @ 4'		1136	1												
West @ 4'		1138	1												
Background		1141	1												
Relinquished By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:							
<i>[Signature]</i>	4.6.16	1030			<i>[Signature]</i>	7/6/16	1830	Same Day <input checked="" type="checkbox"/>	24 Hr <input type="checkbox"/>						
Relinquished By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Standard	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>					

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

Temp Received: 12.0  
 Date Results Needed: 4.7.16 7 AM

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Apex Companies, LLC  
 3240 W. 71st Avenue, Suite 1  
 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604070 Client: Apex  
 Client Project ID: Warner 62N66W/13NWSE  
 Checklist Completed by: Jose Smith Shipped Via: IT/D  
 Date/time completed: 4/6/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: L / 12.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 1203

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> ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	X			P+
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
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.

[Signature] Reviewed by (Project Manager) 4/6/12 Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Apex Companies, LLC  
 3240 W. 71st Avenue, Suite 1  
 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**Base 1 @ 5'**  
**4/6/2016 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X604070-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	50	mg/kg	1	B6D0603	04/06/2016	04/06/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 72.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6D0601	04/06/2016	04/06/2016	U
Benzene	ND	0.050	"	"	"	"	"	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* 98.6 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 98.4 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	9.18		pH Units	1	B6D0607	04/06/2016	04/06/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.304		mmhos/cm	"	B6D0608	04/06/2016	04/06/2016	
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Jake Hildebrand  
 Project Number: 89043882  
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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 B6D0601 - EPA 5030 (soil)</b>										
<b>Blank (B6D0601-BLK1)</b>										
					Prepared: 04/06/2016 Analyzed: 04/06/2016					
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	78.7		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	59.8		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	63.4		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Apex Companies, LLC  
 3240 W. 71st Avenue, Suite 1  
 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**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 B6D0601 - EPA 5030 (soil)

**LCS (B6D0601-BS1)**

Prepared: 04/06/2016 Analyzed: 04/06/2016

Benzene	0.086	0.002	mg/kg	0.100		86.5	77.1-124			
Toluene	0.086	0.002	"	0.100		86.0	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		87.6	66.4-127			
m,p-Xylene	0.173	0.004	"	0.200		86.6	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64.3		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61.9		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62.7		"	62.5		100	70-130			

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 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**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 B6D0601 - EPA 5030 (soil)

Matrix Spike (B6D0601-MS1)	Source: X604031-01			Prepared: 04/06/2016 Analyzed: 04/06/2016						
Benzene	0.086	0.002	mg/kg	0.100	ND	85.6	71.8-126			
Toluene	0.087	0.002	"	0.100	0.002	85.2	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	87.5	62.2-130			
m,p-Xylene	0.174	0.004	"	0.200	0.001	86.4	46.5-137			
o-Xylene	0.086	0.002	"	0.100	0.0004	85.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64.0		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61.6		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	63.6		"	62.5		102	70-130			

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 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**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 B6D0601 - EPA 5030 (soil)

Matrix Spike Dup (B6D0601-MSD1)	Source: X604031-01			Prepared: 04/06/2016 Analyzed: 04/06/2016						
Benzene	0.094	0.002	mg/kg	0.100	ND	93.5	71.8-126	8.87	11.3	
Toluene	0.094	0.002	"	0.100	0.002	92.2	65.1-130	7.74	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.6	62.2-130	4.56	19.6	
m,p-Xylene	0.183	0.004	"	0.200	0.001	90.8	46.5-137	4.98	19.2	
o-Xylene	0.091	0.002	"	0.100	0.0004	90.2	54.2-134	5.72	17.9	
Surrogate: 1,2-Dichloroethane-d4	64.0		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61.7		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	70-130			

Origins Laboratory, Inc.



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 3240 W. 71st Avenue, Suite 1  
 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**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 B6D0603 - EPA 3580**

**Blank (B6D0603-BLK1)**

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.0	59-131			

**LCS (B6D0603-BS1)**

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	900	50	mg/kg	1000		90.2	64-121			
Residual Range Organics (C28-C40)	880	200	"	1000		88.1	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.6	59-131			

**Matrix Spike (B6D0603-MS1)**

Source: X604070-01

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	920	50	mg/kg	1000	ND	92.2	53-125			
Residual Range Organics (C28-C40)	880	200	"	1000	ND	87.5	47-133			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			

**Matrix Spike Dup (B6D0603-MSD1)**

Source: X604070-01

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	810	50	mg/kg	1000	ND	81.1	53-125	12.8	20	
Residual Range Organics (C28-C40)	790	200	"	1000	ND	79.1	47-133	10.1	20	
Surrogate: o-Terphenyl	43		"	50.0		85.3	59-131			

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 Westminster CO 80030

Jake Hildebrand  
 Project Number: 89043882  
 Project: KMG - Warner 62N66W/13NWSE

**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 B6D0607 - NO PREP</b>										
<b>Duplicate (B6D0607-DUP1)</b>		<b>Source: X604070-01</b>			Prepared: 04/06/2016 Analyzed: 04/06/2016					
pH	9.24		pH Units		9.18			0.651	25	
<b>Batch B6D0608 - NO PREP</b>										
<b>Blank (B6D0608-BLK1)</b>		Prepared: 04/06/2016 Analyzed: 04/06/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
<b>Duplicate (B6D0608-DUP1)</b>		<b>Source: X604070-01</b>			Prepared: 04/06/2016 Analyzed: 04/06/2016					
Specific Conductance (EC)	0.308		mmhos/cm		0.304			1.31	25	

Origins Laboratory, Inc.



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3240 W. 71st Avenue, Suite 1  
Westminster CO 80030

Jake Hildebrand  
Project Number: 89043882  
Project: KMG - Warner 62N66W/13NWSE

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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