

# FIGURES



Approximate site location



**Figure 1**

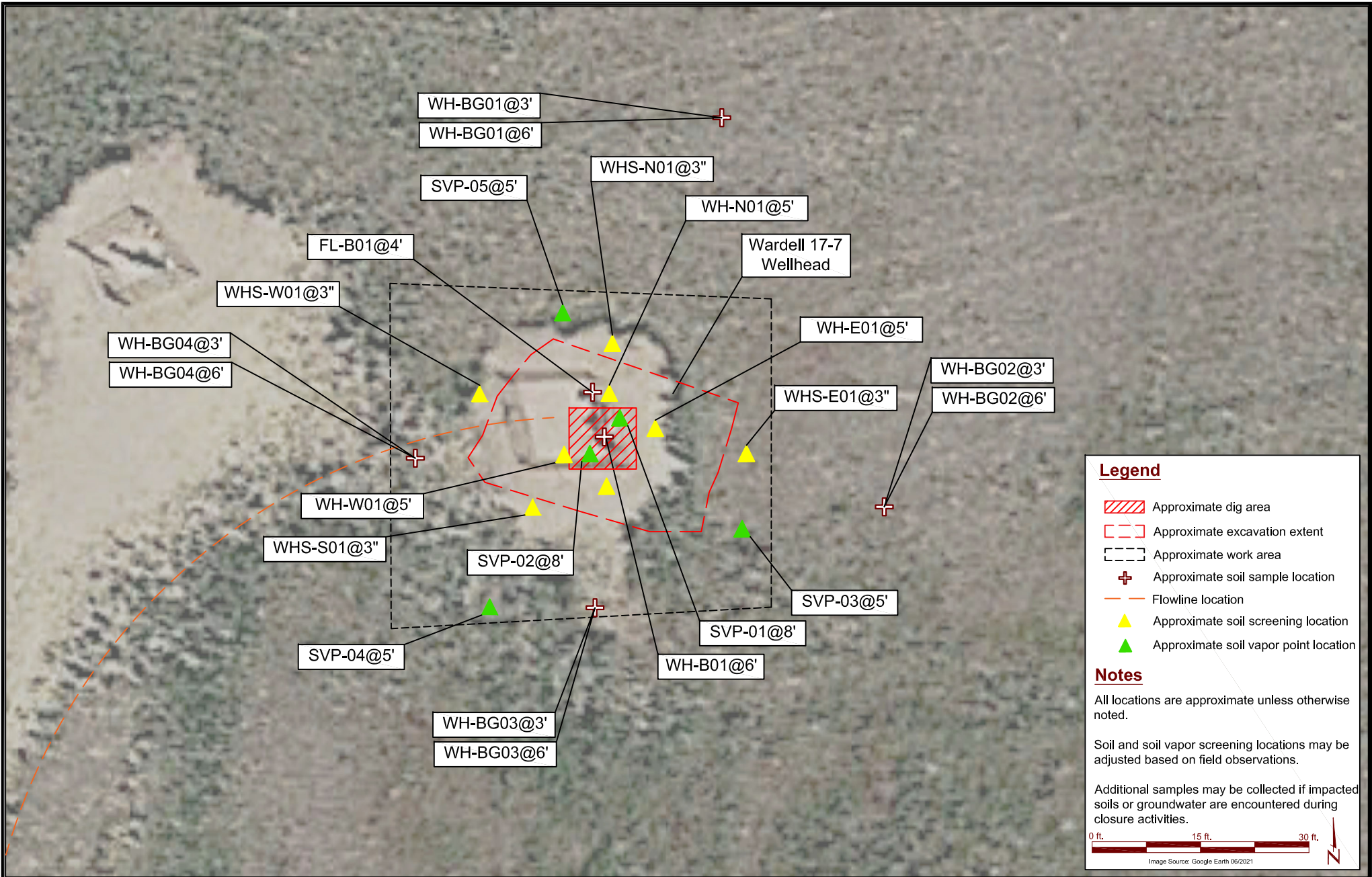
**Site Location Map**  
**Kerr-McGee Oil and Gas Onshore LP**  
**Wardell 17-7**  
 SWNE Sec. 7-T3N-R65W  
 Weld County, Colorado



**EAGLE**  
 ENVIRONMENTAL  
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Source: USGS 7.5 Minute Topographic Map, Milton Reservoir, CO Quadrangle

Drawn By: AM Date: 01/03/2023



**Legend**

- Approximate dig area
- Approximate excavation extent
- Approximate work area
- Approximate soil sample location
- Flowline location
- Approximate soil screening location
- Approximate soil vapor point location

**Notes**

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 15 ft. 30 ft.

Image Source: Google Earth 06/2021

DATE: March 9, 2023

DESIGNED BY: D. Coloccia

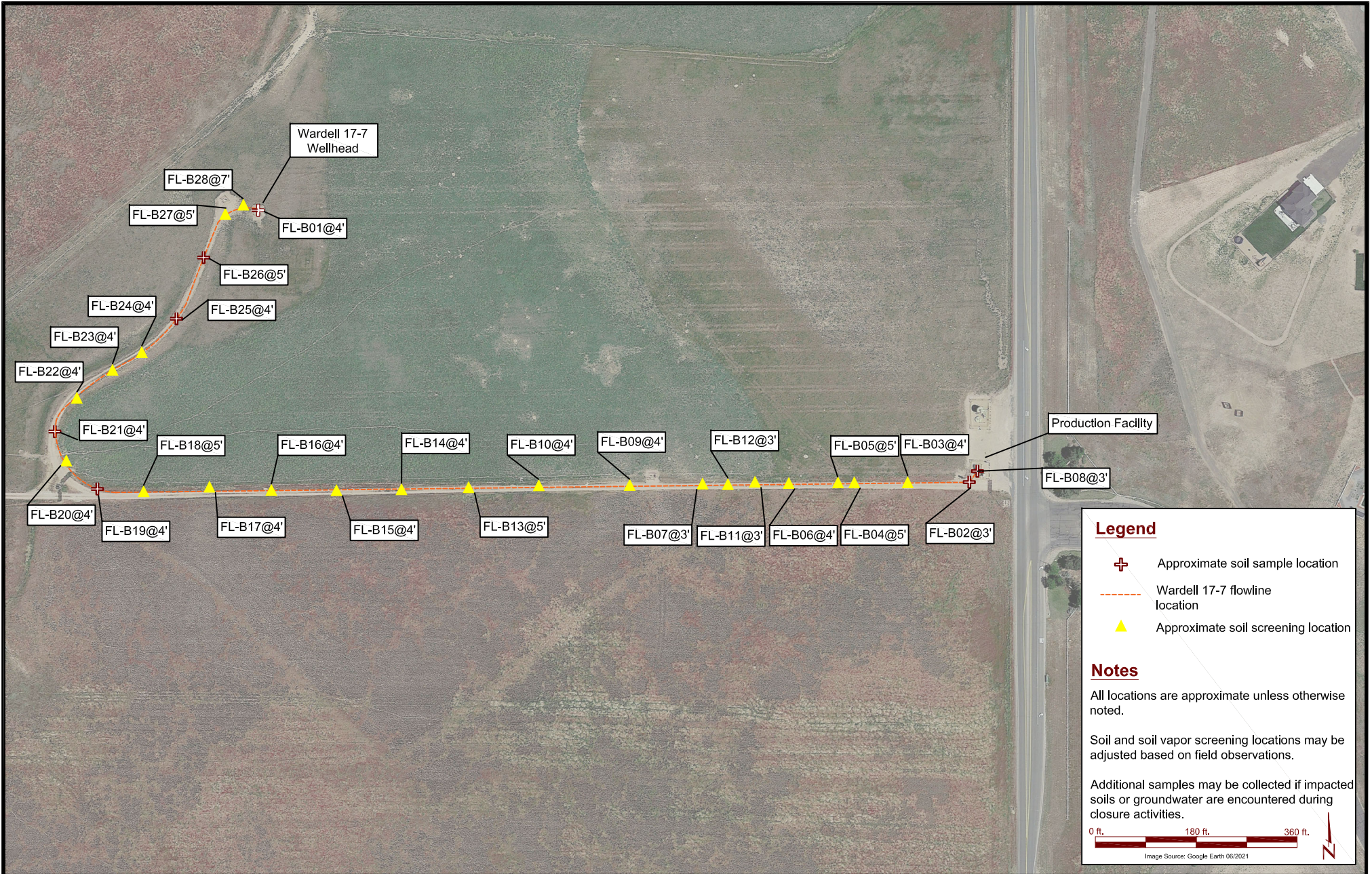
DRAWN BY: B. VanHorn



**Kerr-McGee Oil and Gas Onshore LP**  
**Wardell 17-7**  
SWNE Sec. 7-T3N-R65W  
Weld County, Colorado

Screening and Sample  
Location Map

Figure  
2



**Legend**

- + Approximate soil sample location
- Wardell 17-7 flowline location
- ▲ Approximate soil screening location

**Notes**

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 180 ft. 360 ft.

Image Source: Google Earth 06/2021

DATE: March 10, 2023

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall



**EAGLE**  
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**Kerr-McGee Oil and Gas Onshore LP**  
**Wardell 17-7**  
SWNE Sec. 7-T3N-R65W  
Weld County, Colorado

Screening and Sample  
Location Map

Figure  
3

# **TABLES**

**TABLE 1**  
**WARDELL 17-7**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
<b>Wellhead Soil Samples</b>							
<b>WH-B01 @ 6'</b>	2/28/23	<b>6</b>	<b>0.1</b>	<b>HC</b>	<b>HC</b>	<b>40.2434116573184, -104.701511231299</b>	<b>Y</b>
WH-N01 @ 5'	2/28/23	5	0.8	N/S	N/O	40.2434230727206, -104.701516687178	N
WH-S01 @ 5'	2/28/23	5	1.1	N/S	N/O	40.2434008800096, -104.70151975401	N
WH-E01 @ 5'	2/28/23	5	1.0	N/S	N/O	40.2434150798831, -104.70149746155	N
WH-W01 @ 5'	2/28/23	5	0.5	N/S	N/O	40.2434068773106, -104.701524978322	N
WHS-N01 @ 3"	2/28/23	0.25	0.5	N/S	N/O	40.2434454851, -104.701517426624	N
WHS-S01 @ 3"	2/28/23	0.25	0.6	N/S	N/O	40.2433901494547, -104.701551726734	N
WHS-E01 @ 3"	2/28/23	0.25	0.2	N/S	N/O	40.2434014628977, -104.70146524674	N
WHS-W01 @ 3"	2/28/23	0.25	0.2	N/S	N/O	40.2434215333839, -104.70158180773	N
<b>Flowline Soil Samples</b>							
FL-B01 @ 4'	2/28/2023	4	0.4	N/S	N/O	40.2434229014947, -104.701518023155	Y
FL-B02 @ 3'	3/1/2023	3	0.3	N/S	N/O	40.24212853335, -104.697079859103	Y
FL-B03 @ 4'	3/1/2023	4	0.3	N/S	N/O	40.2421270479808, -104.697328913017	N
FL-B04 @ 5'	3/1/2023	5	0.1	N/S	N/O	40.2420951525268, -104.69781206532	N
FL-B05 @ 5'	3/1/2023	5	0.4	N/S	N/O	40.2421211764436, -104.697814936025	N
FL-B06 @ 4'	3/1/2023	4	0.4	N/S	N/O	40.2421195737501, -104.698207616917	N
FL-B07 @ 3'	3/1/2023	3	0.3	N/S	N/O	40.2421151413556, -104.698705493276	N
FL-B08 @ 3'	3/3/2023	3	1.1	N/S	N/O	40.24215565, -104.6970133	Y
FL-B09 @ 4'	3/3/2023	4	0.9	N/S	N/O	40.24211402, -104.6991774	N
FL-B10 @ 4'	3/3/2023	4	0.6	N/S	N/O	40.2421131477934, -104.699667828212	N
FL-B11 @ 3'	3/6/2023	3	0.1	N/S	N/O	40.24213596765, -104.698411550508	N
FL-B12 @ 3'	3/6/2023	3	0.1	N/S	N/O	40.2421409025353, -104.69857792783	N
FL-B13 @ 5'	3/6/2023	5	0	N/S	N/O	40.2420982981783, -104.700171852966	N
FL-B14 @ 4'	3/6/2023	4	0	N/S	N/O	40.2420986862359, -104.700596737252	N
FL-B15 @ 4'	3/6/2023	4	0	N/S	N/O	40.2420922150329, -104.701068263937	N
FL-B16 @ 4'	3/6/2023	4	0.1	N/S	N/O	40.2420895718245, -104.701460296382	N
FL-B17 @ 4'	3/6/2023	4	0	N/S	N/O	40.242095133337, -104.701867711515	N
FL-B18 @ 5'	3/6/2023	5	0.1	N/S	N/O	40.2420754571828, -104.702270898693	N
FL-B19 @ 4'	3/6/2023	4	0	N/S	N/O	40.2420979724604, -104.702603517816	Y
FL-B20 @ 4'	3/7/2023	4	0.4	N/S	N/O	40.2422216666666, -104.702786666666	N
FL-B21 @ 4'	3/7/2023	4	0.5	N/S	N/O	40.2423666666666, -104.702849999999	Y
FL-B22 @ 4'	3/7/2023	4	0.5	N/S	N/O	40.2425266666666, -104.702705	N
FL-B23 @ 4'	3/7/2023	4	0.4	N/S	N/O	40.242635, -104.702541666666	N
FL-B24 @ 4'	3/7/2023	4	0.4	N/S	N/O	40.242755, -104.702315	N
FL-B25 @ 4'	3/7/2023	4	0.3	N/S	N/O	40.2429183333333, -104.702071666666	Y
FL-B26 @ 5'	3/7/2023	5	0.3	N/S	N/O	40.2431883333333, -104.70188	Y
FL-B27 @ 5'	3/7/2023	5	0.6	N/S	N/O	40.2434183333333, -104.701756666666	N
FL-B28 @ 7'	3/7/2023	7	0.7	N/S	N/O	40.2434583333333, -104.701643333333	N
<b>Wellhead Background Soil Samples</b>							
WH-BG01 @ 3'	2/28/2023	3	0.4	N/S	N/O	40.2435202036763, -104.701479811783	Y
WH-BG01 @ 6'	2/28/2023	6	0.1	N/S	N/O	40.2435202036763, -104.701479811783	Y
WH-BG02 @ 3'	2/28/2023	3	0.0	N/S	N/O	40.2433855485991, -104.701400491606	Y
WH-BG02 @ 6'	2/28/2023	6	0	N/S	N/O	40.2433855485991, -104.701400491606	Y
WH-BG03 @ 3'	2/28/2023	3	0.2	N/S	N/O	40.2433622049925, -104.701532700543	Y
WH-BG03 @ 6'	2/28/2023	6	0.1	N/S	N/O	40.2433622049925, -104.701532700543	Y
WH-BG04 @ 3'	2/28/2023	3	0.3	N/S	N/O	40.2434073850524, -104.701609089185	Y
WH-BG04 @ 6'	2/28/2023	6	0	N/S	N/O	40.2434073850524, -104.701609089185	Y

bgs = below ground surface  
 PID = photoionization detector  
 ppm-v = parts per million by volume  
 HC = hydrocarbon  
**BOLD** = Table 915-1 exceedance

N/S = No Staining  
 N/O = No Odor



**TABLE 2**  
**WARDELL 17-7**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>COGCC standards for soil (mg/kg)<sup>(1)</sup></i>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>COGCC standards for soil (mg/kg)<sup>(2)</sup></i>		1.2	490	5.8	58	500			2	30	27
<b>Wellhead Soil Samples</b>											
WH-B01 @ 6'	2/28/23	>0.00200	<0.00200	<0.00200	<0.00200	<0.200	27.3	<100	<0.00380	<0.00200	<0.00200
<b>Flowline Soil Samples</b>											
FL-B01 @ 4'	2/28/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B02 @ 3'	3/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B08 @ 3'	3/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.1	<101	<0.00380	<0.00200	<0.00200
FL-B19 @ 4'	3/6/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.2	<102	<0.00380	<0.00200	<0.00200
FL-B21 @ 4'	3/7/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.3	<103	<0.00380	<0.00200	<0.00200
FL-B25 @ 4'	3/7/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.4	<104	<0.00380	<0.00200	<0.00200
FL-B26 @ 5'	3/7/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.5	<105	<0.00380	<0.00200	<0.00200

**Notes:**

<sup>(1)</sup> COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

**TABLE 3**  
**WARDELL 17-7**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC standards for soil (mg/kg)<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt;6</b>	<b>&lt;4</b>	<b>2</b>
<b>Wellhead Soil Samples</b>						
WH-B01 @ 6'	2/28/23	6	<b>12.4</b>	1.57	<b>5.70</b>	0.400
<b>Flowline Soil Samples</b>						
FL-B01 @ 4'	2/28/2023	4	8.29	0.398	0.562	0.166
FL-B02 @ 3'	3/1/2023	3	6.92	0.344	0.0726	<0.0993
FL-B08 @ 3'	3/3/2023	3	6.86	0.189	0.0893	<0.0984
FL-B19 @ 4'	3/6/2023	4	RP	RP	RP	RP
FL-B21 @ 4'	3/7/2023	4	RP	RP	RP	RP
FL-B25 @ 4'	3/7/2023	4	RP	RP	RP	RP
FL-B26 @ 5'	3/7/2023	5	RP	RP	RP	RP
<b>Wellhead Background Soil Samples</b>						
WH-BG01 @ 3'	2/28/23	3	8.29	0.337	0.222	0.126
WH-BG01 @ 6'	2/28/2023	6	8.14	0.251	0.2860	<0.0981
WH-BG02 @ 3'	2/28/2023	3	7.79	0.178	0.164	0.105
WH-BG02 @ 6'	2/28/2023	6	7.38	0.279	0.138	0.105
WH-BG03 @ 3'	2/28/2023	3	7.80	1.55	0.235	0.111
WH-BG03 @ 6'	2/28/2023	6	8.27	1.92	0.271	<0.0986
WH-BG04 @ 3'	2/28/2023	3	8.10	0.506	0.401	0.167
WH-BG04 @ 6'	2/28/2023	6	8.25	1.17	0.486	0.155

**Notes:**

<sup>(1)</sup> Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

RP = Results Pending

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

**TABLE 4**  
**WARDELL 17-7**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>COGCC standards for soil (mg/kg)<sup>(1)</sup></i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>COGCC standards for soil (mg/kg)<sup>(2)</sup></i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
WH-B01 @ 6'	2/28/2023	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP

**Notes:**

<sup>(1)</sup> Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

RP = Results Pending

**TABLE 5  
WARDELL 17-7  
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS  
KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<i>COGCC standards for soil (mg/kg)<sup>(1)</sup></i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>COGCC standards for soil (mg/kg)<sup>(2)</sup></i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WH-B01 @ 6'	2/28/2023	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
<b>Background Soil Samples</b>											
WH-BG01 @ 3'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG01 @ 6'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG02 @ 3'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG02 @ 6'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG03 @ 3'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG03 @ 6'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG04 @ 3'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
WH-BG04 @ 6'	2/28/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP

**Notes:**

<sup>(1)</sup> Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

RP = Results Pending



**ATTACHMENT A  
LABORATORY DATA**



March 0 , 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Wardell 17-7

Project Number - [none]

Attached are your analytical results for KMG - Wardell 17-7 received by Origins Laboratory, Inc. February 28, 2023. This project is associated with Origins project number Y302572-01.

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

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y302572-01	Soil	February 28, 2023 15:17	02/28/2023 17:39
FL-B01@4'	Y302572-02	Soil	February 28, 2023 13:39	02/28/2023 17:39
WH-BG01@3'	Y302572-03	Soil	February 28, 2023 13:31	02/28/2023 17:39
WH-BG01@6'	Y302572-04	Soil	February 28, 2023 13:30	02/28/2023 17:39
WH-BG02@3'	Y302572-05	Soil	February 28, 2023 13:40	02/28/2023 17:39
WH-BG02@6'	Y302572-06	Soil	February 28, 2023 13:32	02/28/2023 17:39
WH-BG03@3'	Y302572-07	Soil	February 28, 2023 13:33	02/28/2023 17:39
WH-BG03@6'	Y302572-08	Soil	February 28, 2023 13:36	02/28/2023 17:39
WH-BG04@3'	Y302572-09	Soil	February 28, 2023 13:37	02/28/2023 17:39
WH-BG04@6'	Y302572-10	Soil	February 28, 2023 13:38	02/28/2023 17:39

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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

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

**ORIGINS**  
 LABORATORY, INC

www.originslaboratory.com

Initial VC  
 4302572  
 page 1 of 1

Client: Eagle Environmental (Oxy)  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80053  
 Telephone Number: 303-433-0479  
 Email Address: d.coloccia@eagleenviro.com  
 Project Manager: D. Coloccia  
 Project Name: Wardell 17-7  
 Project Number:                       
 Samples Collected By: AM/HHA

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 #	Other		BTEX <sub>N</sub>	TPH	EC/pH	SAR	Boron
NH-B6P1E6'	2/28/23	1517	2 X								X	X	X	X			
FL-B6P1E4'		1339									X	X					
NH-B6P1E3'		1331															
NH-B6P1E6'		1330															
NH-B6P2E3'		1310															
NH-B6P2E6'		1332															
NH-B6P3E3'		1333															
NH-B6P3E6'		1334															
NH-B6P4E3'		1337															
NH-B6P4E6'		1338															
Relinquished By: <u>[Signature]</u>				Date:	2/28/23	Time:	1739	Received By:	SHS	Date:	2/28/23	Time:	1739	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard			

Temp Received- 2.8 Date Results Needed

Origins Laboratory, Inc.

*[Signature]*

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.

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4302572

Client: Eagle

Client Project ID: wardell 17-7

Checklist Completed by: EHS

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

Date/time completed: 2/28/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 28 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T004

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> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 Na <sub>2</sub> S <sub>2</sub> O <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
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.

EHS  
 Reviewed by (Project Manager)

2/28/23  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-B01@6'**  
**2/28/2023 3:17:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.400	0.100	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	27.3	25.0	mg/kg	1	B3B2818	ZZZ	02/28/2023	02/28/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.1 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2823	ZZZ	02/28/2023	02/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-B01@6'**  
**2/28/2023 3:17:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	20.3	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	5.02	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	12.4		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	1.57		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	5.70	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B01@4'**

**2/28/2023 1:3 :00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.166	0.0997	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B2818	ZZZ	02/28/2023	02/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.4 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2823	ZZZ	02/28/2023	02/28/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

FL-B01@4'

2/28/2023 1:3 :00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y302572-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	2.53	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	1.10	0.823	"	"	"		"	"	
Sodium	0.535	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	8.2		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	0.3 8		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.562	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG01@3'**  
**2/28/2023 1:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.126	0.101	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.17	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	8.2		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	0.337		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.222	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG01@6'**  
**2/28/2023 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0981	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.52	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	1.15	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	8.14		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	0.251		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.286	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG02@3'**  
**2/28/2023 1:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.105	0.100	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.21	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	7.7		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	0.178		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.164	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG02@6'**  
**2/28/2023 1:32:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.105	0.101	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.616	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	7.38		pH Units	1	B3C0112	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	0.27		SAR	1	B3C0105		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.138	0.00500	mmhos/cm	1	B3C0112	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG03@3'**  
**2/28/2023 1:33:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.111	0.0987	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.6 8	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	1.07	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	7.80		pH Units	1	B3C0113	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	1.55		SAR	1	B3C0106		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.235	0.00500	mmhos/cm	1	B3C0113	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG03@6'**  
**2/28/2023 1:36:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0986	mg/L	1	B3C0821		03/08/2023	03/08/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.11	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	1.51	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	8.27		pH Units	1	B3C0113	HJD	03/01/2023	03/02/2023	
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**SAR by 20B Saturated Paste**

SAR	1.2		SAR	1	B3C0106		03/01/2023	03/02/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.271	0.00500	mmhos/cm	1	B3C0113	HJD	03/01/2023	03/02/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG04@3'**  
**2/28/2023 1:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-0 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.167	0.101	mg/L	1	B3C0821		03/08/2023	03/08/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.23	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023
Magnesium	1.03	0.823	"	"	"		"	"
Sodium	0.647	0.435	"	"	"		"	"

**pH in Soil by 045D**

pH	8.10		pH Units	1	B3C0113	HJD	03/01/2023	03/02/2023
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**SAR by 20B Saturated Paste**

SAR	0.506		SAR	1	B3C0106		03/01/2023	03/02/2023
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.401	0.00500	mmhos/cm	1	B3C0113	HJD	03/01/2023	03/02/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**WH-BG04@6'**  
**2/28/2023 1:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302572-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.155	0.100	mg/L	1	B3C0821		03/08/2023	03/08/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.16	0.499	meq/L	10	[CALC]		03/01/2023	03/02/2023
Magnesium	1.06	0.823	"	"	"		"	"
Sodium	1.48	0.435	"	"	"		"	"

**pH in Soil by 045D**

pH	8.25		pH Units	1	B3C0113	HJD	03/01/2023	03/02/2023
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**SAR by 20B Saturated Paste**

SAR	1.17		SAR	1	B3C0106		03/01/2023	03/02/2023
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	0.486	0.00500	mmhos/cm	1	B3C0113	HJD	03/01/2023	03/02/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2818 - EPA 3580</b>										
<b>Blank (B3B2818-BLK1)</b>										
					Prepared: 02/28/2023 Analyzed: 02/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.7	50-150			

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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3B2818 - EPA 3580**

**LCS (B3B2818-BS1)**

Prepared: 02/28/2023 Analyzed: 02/28/2023

Diesel (C10-C28)	995	50.0	mg/kg	1000		99.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3B2818 - EPA 3580**

<b>Matrix Spike (B3B2818-MS1)</b>	<b>Source: Y302460-01</b>			<b>Prepared: 02/28/2023 Analyzed: 02/28/2023</b>						
Diesel (C10-C28)	962	50.0	mg/kg	1000	154	80.9	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2818 - EPA 3580</b>										
<b>Matrix Spike Dup (B3B2818-MSD1)</b>		<b>Source: Y302460-01</b>			Prepared: 02/28/2023 Analyzed: 02/28/2023					
Diesel (C10-C28)	970	50.0	mg/kg	1000	154	81.6	70-130	0.759	35	
Residual Range Organics (C28-C40)	926	200	"	1000	ND	92.6	70-130	3.01	35	
Surrogate: o-Terphenyl	42		"	49.8		85.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2823 - EPA 5030 (soil)</b>										
<b>Blank (B3B2823-BLK1)</b>										
					Prepared: 02/28/2023 Analyzed: 02/28/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.4		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3B2823 - EPA 5030 (soil)

**LCS (B3B2823-BS1)**

Prepared: 02/28/2023 Analyzed: 02/28/2023

1,2,4-Trimethylbenzene	0.0952	0.00200	mg/kg	0.100		95.2	70-130			
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100		95.2	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.0867	0.00200	"	0.100		86.7	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0944	0.00200	"	0.100		94.4	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3B2823 - EPA 5030 (soil)

Matrix Spike (B3B2823-MS1)	Source: Y302562-01			Prepared: 02/28/2023 Analyzed: 02/28/2023						
1,2,4-Trimethylbenzene	0.0970	0.00200	mg/kg	0.100	ND	97.0	70-130			
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
Benzene	0.111	0.00200	"	0.100	ND	111	70-130			
Ethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3B2823 - EPA 5030 (soil)

Matrix Spike Dup (B3B2823-MSD1)	Source: Y302562-01			Prepared: 02/28/2023 Analyzed: 03/01/2023						
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130	7.25	20	
1,3,5-Trimethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130	7.51	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	7.06	20	M-07
Ethylbenzene	0.0824	0.00200	"	0.100	ND	82.4	70-130	7.00	20	M-07
Naphthalene	0.0869	0.00380	"	0.100	ND	86.9	70-130	17.6	20	M-07
Toluene	0.0940	0.00200	"	0.100	ND	94.0	70-130	6.44	20	
o-Xylene	0.0892	0.00200	"	0.100	ND	89.2	70-130	9.51	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.5	70-130	8.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B3C0105 - Saturated Paste Metals**

**Blank (B3C0105-BLK1)**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C0105-D P1)**

Source: Y302565-06

Prepared: 03/01/2023 Analyzed: 03/02/2023

Calcium PPM	32.8	10.0	mg/L		27.9			16.1	50	
SAR	0.00		SAR		1.26			200	200	
Magnesium PPM	6.13	10.0	mg/L		5.25			15.5	50	
Sodium PPM	31.8	10.0	"		27.6			14.1	50	

**Batch B3C0106 - Saturated Paste Metals**

**Blank (B3C0106-BLK1)**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C0106-D P1)**

Source: Y302572-07

Prepared: 03/01/2023 Analyzed: 03/02/2023

SAR	0.00		SAR		1.55			200	200	
Calcium PPM	24.4	10.0	mg/L		14.0			54.4	50	R-DUP

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**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 B3C0106 - Saturated Paste Metals</b>										
<b>Duplicate (B3C0106-D P1)</b>		<b>Source: Y302572-07</b>			Prepared: 03/01/2023 Analyzed: 03/02/2023					
Magnesium PPM	5.46	10.0	mg/L		3.11		55.0	50		R-05
Sodium PPM	38.0	10.0	"		24.6		42.6	50		
<b>Batch B3C0821 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3C0821-BLK1)</b>		Prepared: 03/08/2023 Analyzed: 03/08/2023								
Boron	ND	0.100	mg/L							
<b>Duplicate (B3C0821-D P1)</b>		<b>Source: Y302572-01</b>			Prepared: 03/08/2023 Analyzed: 03/08/2023					
Boron	0.425	0.100	mg/L		0.400		6.16	50		

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Saturated Paste - 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 B3C0112 - Saturated Paste pH/EC**

**Blank (B3C0112-BLK1)**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3C0112-D P1)**

**Source: Y302565-06**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Specific Conductance (EC)	0.350	0.00500	mmhos/cm	0.302	14.4	25
pH	8.24		pH Units	8.22	0.243	25

**Batch B3C0113 - Saturated Paste pH/EC**

**Blank (B3C0113-BLK1)**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3C0113-D P1)**

**Source: Y302572-07**

Prepared: 03/01/2023 Analyzed: 03/02/2023

Specific Conductance (EC)	0.385	0.00500	mmhos/cm	0.235	48.3	25	R-DUP
pH	7.59		pH Units	7.80	2.73	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

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### Notes and Definitions

U Sample is Non-Detect.

R-DUP RPD exceeds C acceptance criteria, this indicates source sample is not homogenous.

R-05 Sample results fall below the RL. RPD results are insignificant for batch and are thus acceptable.

M-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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March 09, 2023

**Eagle Environmental Consulting, LLC**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - KMG - Wardell 17-7**

**Project Number - [none]**

Attached are your analytical results for KMG - Wardell 17-7 received by Origins Laboratory, Inc. March 01, 2023. This project is associated with Origins project number Y303025-01.

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

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B02@3'	Y303025-01	Soil	March 1, 2023 13:30	03/01/2023 16:50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4303025 Client: Eagle  
 Client Project ID: Wardell 17-7  
 Checklist Completed by: EHS/LE Shipped Via: HD  
 Date/time completed: 3/1/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 3.2 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: room

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			
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		
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? If yes, contact client and note in narrative.			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.

DE  
 Reviewed by (Project Manager)

03/01/2023  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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.

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B02@3'**

**3/1/2023 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303025-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0993	mg/L	1	B3C0206	KAP	03/02/2023	03/03/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0126	ZZZ	03/01/2023	03/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 93.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0131	ZZZ	03/01/2023	03/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
 Surrogate: Toluene-d8 103 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B02@3'**

**3/1/2023 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y303025-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	03/02/2023	03/03/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	<b>6.92</b>		pH Units	1	B3C0213	HJD	03/02/2023	03/03/2023
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**SAR by 20B Saturated Paste**

SAR	<b>0.344</b>		SAR	10	B3C0208	KAP	03/02/2023	03/03/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.0726</b>	0.00500	mmhos/cm	1	B3C0213	HJD	03/02/2023	03/03/2023
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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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0126 - EPA 3580</b>										
<b>Blank (B3C0126-BLK1)</b>										
					Prepared: 03/01/2023 Analyzed: 03/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0126 - EPA 3580</b>										
<b>LCS (B3C0126-BS1)</b>					Prepared: 03/01/2023 Analyzed: 03/01/2023					
Diesel (C10-C28)	848	50.0	mg/kg	1000		84.8	70-130			
Residual Range Organics (C28-C40)	832	200	"	1000		83.2	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0126 - EPA 3580**

<b>Matrix Spike (B3C0126-MS1)</b>	<b>Source: Y303013-01</b>			<b>Prepared: 03/01/2023 Analyzed: 03/01/2023</b>						
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130			
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0126 - EPA 3580</b>										
<b>Matrix Spike Dup (B3C0126-MSD1)</b>					<b>Source: Y303013-01</b>					Prepared: 03/01/2023 Analyzed: 03/01/2023
Diesel (C10-C28)	842	50.0	mg/kg	1000	ND	84.2	70-130	0.960	35	
Residual Range Organics (C28-C40)	839	200	"	1000	ND	83.9	70-130	0.764	35	
Surrogate: o-Terphenyl	46		"	49.8		92.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0131 - EPA 5030 (soil)**

**Blank (B3C0131-BLK1)**

Prepared: 03/01/2023 Analyzed: 03/01/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0131 - EPA 5030 (soil)**

**LCS (B3C0131-BS1)**

Prepared: 03/01/2023 Analyzed: 03/01/2023

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0131 - EPA 5030 (soil)**

<b>Matrix Spike (B3C0131-MS1)</b>	<b>Source: Y303013-01</b>			<b>Prepared: 03/01/2023 Analyzed: 03/01/2023</b>						
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130			
1,3,5-Trimethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0810	0.00380	"	0.100	ND	81.0	70-130			
Toluene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0131 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B3C0131-MSD1)</b>	<b>Source: Y303013-01</b>			<b>Prepared: 03/01/2023 Analyzed: 03/01/2023</b>						
1,2,4-Trimethylbenzene	0.0907	0.00200	mg/kg	0.100	ND	90.7	70-130	7.16	20	
1,3,5-Trimethylbenzene	0.0900	0.00200	"	0.100	ND	90.0	70-130	6.83	20	
Benzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	4.99	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	5.18	20	
Naphthalene	0.0773	0.00380	"	0.100	ND	77.3	70-130	4.68	20	
Toluene	0.0929	0.00200	"	0.100	ND	92.9	70-130	3.07	20	
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130	5.89	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.3	70-130	6.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B3C0206 - DTPA Sorbitol Preparation**

**Blank (B3C0206-BLK1)**

Prepared: 03/02/2023 Analyzed: 03/03/2023

Boron ND 0.100 mg/L

**Duplicate (B3C0206-DUP1)**

**Source: Y303013-01**

Prepared: 03/02/2023 Analyzed: 03/03/2023

Boron 0.719 0.100 mg/L 0.814 12.4 50

**Batch B3C0208 - Saturated Paste Metals**

**Blank (B3C0208-BLK1)**

Prepared: 03/02/2023 Analyzed: 03/03/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B3C0208-DUP1)**

**Source: Y303013-01**

Prepared: 03/02/2023 Analyzed: 03/03/2023

Calcium PPM 128 10.0 mg/L 76.2 50.6 50 QR-DUP

SAR 0.00 SAR 4.55 200 200

Magnesium PPM 41.2 10.0 mg/L 25.1 48.5 50

Sodium PPM 228 10.0 " 179 24.3 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0213 - Saturated Paste pH/EC</b>										
<b>Blank (B3C0213-BLK1)</b>					Prepared: 03/02/2023 Analyzed: 03/03/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C0213-DUP1)</b>		<b>Source: Y303013-01</b>			Prepared: 03/02/2023 Analyzed: 03/03/2023					
Specific Conductance (EC)	1.84	0.00500	mmhos/cm		1.34			31.7	25	QR-DUP
pH	7.58		pH Units		7.78			2.60	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

---

### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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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March 0 , 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Wardell 17-7

Project Number - [none]

Attached are your analytical results for KMG - Wardell 17-7 received by Origins Laboratory, Inc. March 03, 2023. This project is associated with Origins project number Y303107-01.

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

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B08@3'	Y303107-01	Soil	March 3, 2023 14:38	03/03/2023 16:29

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 430307

Client: Eagle  
 Client Project ID: Wardell 17-7

Checklist Completed by: CHS/DE

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

Date/time completed: 3/3/23

Airbill #: NA

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

Cooler Number/Temperature: 1 17.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 8004

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? <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 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.

DE  
 Reviewed by (Project Manager)

03/03/2023  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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.

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B08@3'**

**3/3/2023 2:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303107-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0984	mg/L	1	B3C0601		03/06/2023	03/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0327	ZZZ	03/03/2023	03/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 84.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0326	JSM	03/03/2023	03/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
 Surrogate: Toluene-d8 96.4 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 87.0 % 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.

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B08@3'**

**3/3/2023 2:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303107-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]		03/06/2023	03/07/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**pH in Soil by 045D**

pH	<b>6.86</b>		pH Units	1	B3C0607	HJD	03/06/2023	03/07/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.18</b>		SAR	1	B3C0604		03/06/2023	03/07/2023	
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**Specific Conductance Mod. 050A**

Specific Conductance (EC)	<b>0.08 3</b>	0.00500	mmhos/cm	1	B3C0607	HJD	03/06/2023	03/07/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0326 - EPA 5030 (soil)**

**Blank (B3C0326-BLK1)**

Prepared: 03/03/2023 Analyzed: 03/03/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.1		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.2		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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0326 - EPA 5030 (soil)**

**LCS (B3C0326-BS1)**

Prepared: 03/03/2023 Analyzed: 03/03/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0326 - EPA 5030 (soil)

Matrix Spike (B3C0326-MS1)	Source: Y303106-01			Prepared: 03/03/2023 Analyzed: 03/03/2023						
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130			
1,3,5-Trimethylbenzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
Naphthalene	0.0856	0.00380	"	0.100	ND	85.6	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0326 - EPA 5030 (soil)**

Matrix Spike Dup (B3C0326-MSD1)	Source: Y303106-01			Prepared: 03/03/2023 Analyzed: 03/03/2023						
1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	4.42	20	
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	4.87	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	0.796	20	
Ethylbenzene	0.0876	0.00200	"	0.100	ND	87.6	70-130	3.56	20	
Naphthalene	0.0935	0.00380	"	0.100	ND	93.5	70-130	8.82	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	0.993	20	
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130	3.94	20	
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.0	70-130	4.33	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0327 - EPA 3580</b>										
<b>Blank (B3C0327-BLK1)</b>										
					Prepared: 03/03/2023 Analyzed: 03/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0327 - EPA 3580</b>										
<b>LCS (B3C0327-BS1)</b>										
					Prepared: 03/03/2023 Analyzed: 03/03/2023					
Diesel (C10-C28)	1150	50.0	mg/kg	1000		115	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000		128	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0327 - EPA 3580**

<b>Matrix Spike (B3C0327-MS1)</b>	<b>Source: Y303106-01</b>			<b>Prepared: 03/03/2023 Analyzed: 03/03/2023</b>						
Diesel (C10-C28)	972	50.0	mg/kg	1000	ND	97.2	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0327 - EPA 3580

Matrix Spike Dup (B3C0327-MSD1)	Source: Y303106-01		Prepared: 03/03/2023 Analyzed: 03/03/2023							
Diesel (C10-C28)	988	50.0	mg/kg	1000	ND	98.8	70-130	1.67	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	5.19	35	
Surrogate: o-Terphenyl	45		"	49.8		89.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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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**Classical Chemistry Parameters - 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 B3C0601 - DTPA Sorbitol Preparation**

**Blank (B3C0601-BLK1)**

Prepared: 03/06/2023 Analyzed: 03/07/2023

Boron ND 0.100 mg/L

**Duplicate (B3C0601-D P1)**

**Source: Y3030 8-01**

Prepared: 03/06/2023 Analyzed: 03/07/2023

Boron 0.0390 0.0999 mg/L 0.0409 4.77 50

**Batch B3C0604 - Saturated Paste Metals**

**Blank (B3C0604-BLK1)**

Prepared: 03/06/2023 Analyzed: 03/07/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B3C0604-D P1)**

**Source: Y303085-01**

Prepared: 03/06/2023 Analyzed: 03/07/2023

SAR 0.00 SAR 0.136 200 200

Calcium PPM 40.6 10.0 mg/L 43.0 5.68 50

Magnesium PPM 5.65 10.0 " 6.19 9.02 50

Sodium PPM 4.20 10.0 " 3.61 15.2 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0607 - Saturated Paste pH/EC</b>										
<b>Blank (B3C0607-BLK1)</b>					Prepared: 03/06/2023 Analyzed: 03/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C0607-D P1)</b>					<b>Source: Y303085-01</b> Prepared: 03/06/2023 Analyzed: 03/07/2023					
Specific Conductance (EC)	0.302	0.00500	mmhos/cm		0.302			0.00	25	
pH	7.89		pH Units		7.92			0.380	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

---

### 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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March 07, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Wardell 17-7

Project Number - [none]

Attached are your analytical results for KMG - Wardell 17-7 received by Origins Laboratory, Inc. March 06, 2023. This project is associated with Origins project number Y303135-01.

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

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL- B19@4'	Y303135-01	Soil	March 6, 2023 13:38	03/06/2023 14:39

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y303135 Client: Eagle  
 Client Project ID: Wardell-7  
 Checklist Completed by: DE/CHS Shipped Via: HO  
 Date/time completed: 3/16/2023 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 M3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7004

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> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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] 3/16/23  
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL- B1 @4'**  
**3/6/2023 1:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303135-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0615	ZZZ	03/06/2023	03/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 71.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0618	ZZZ	03/06/2023	03/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
 Surrogate: Toluene-d8 105 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0615 - EPA 3580</b>										
<b>Blank (B3C0615-BLK1)</b>										
					Prepared: 03/06/2023 Analyzed: 03/06/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0615 - EPA 3580**

**LCS (B3C0615-BS1)**

Prepared: 03/06/2023 Analyzed: 03/06/2023

Diesel (C10-C28)	947	50.0	mg/kg	1000		94.7	70-130			
Residual Range Organics (C28-C40)	925	200	"	1000		92.5	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.5	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0615 - EPA 3580**

<b>Matrix Spike (B3C0615-MS1)</b>	<b>Source: Y303131-01</b>			Prepared: 03/06/2023 Analyzed: 03/06/2023						
Diesel (C10-C28)	972	50.0	mg/kg	1000	ND	97.2	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000	ND	99.0	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.0	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0615 - EPA 3580</b>										
<b>Matrix Spike Dup (B3C0615-MSD1)</b>					<b>Source: Y303131-01</b>					Prepared: 03/06/2023 Analyzed: 03/06/2023
Diesel (C10-C28)	966	50.0	mg/kg	1000	ND	96.6	70-130	0.625	35	
Residual Range Organics (C28-C40)	974	200	"	1000	ND	97.4	70-130	1.70	35	
Surrogate: o-Terphenyl	40		"	49.8		79.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0618 - EPA 5030 (soil)**

**Blank (B3C0618-BLK1)**

Prepared: 03/06/2023 Analyzed: 03/06/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.8		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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0618 - EPA 5030 (soil)**

**LCS (B3C0618-BS1)**

Prepared: 03/06/2023 Analyzed: 03/06/2023

1,2,4-Trimethylbenzene	0.0827	0.00200	mg/kg	0.100		82.7	70-130			
1,3,5-Trimethylbenzene	0.0828	0.00200	"	0.100		82.8	70-130			
Benzene	0.0931	0.00200	"	0.100		93.1	70-130			
Ethylbenzene	0.0805	0.00200	"	0.100		80.5	70-130			
Naphthalene	0.0975	0.00380	"	0.100		97.5	70-130			
Toluene	0.0853	0.00200	"	0.100		85.3	70-130			
o-Xylene	0.0812	0.00200	"	0.100		81.2	70-130			
m,p-Xylene	0.161	0.00400	"	0.200		80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0618 - EPA 5030 (soil)

Matrix Spike (B3C0618-MS1)	Source: Y303134-01			Prepared: 03/06/2023 Analyzed: 03/06/2023						
1,2,4-Trimethylbenzene	0.0769	0.00200	mg/kg	0.100	ND	76.9	70-130			
1,3,5-Trimethylbenzene	0.0766	0.00200	"	0.100	ND	76.6	70-130			
Benzene	0.0724	0.00200	"	0.100	ND	72.4	70-130			
Ethylbenzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Naphthalene	0.0877	0.00380	"	0.100	ND	87.7	70-130			
Toluene	0.0755	0.00200	"	0.100	ND	75.5	70-130			
o-Xylene	0.0755	0.00200	"	0.100	ND	75.5	70-130			
m,p-Xylene	0.150	0.00400	"	0.200	ND	74.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0618 - EPA 5030 (soil)

Matrix Spike Dup (B3C0618-MSD1)	Source: Y303134-01			Prepared: 03/06/2023 Analyzed: 03/06/2023						
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130	1.92	20	
1,3,5-Trimethylbenzene	0.0760	0.00200	"	0.100	ND	76.0	70-130	0.760	20	
Benzene	0.0716	0.00200	"	0.100	ND	71.6	70-130	1.17	20	
Ethylbenzene	0.0736	0.00200	"	0.100	ND	73.6	70-130	1.94	20	
Naphthalene	0.0858	0.00380	"	0.100	ND	85.8	70-130	2.17	20	
Toluene	0.0759	0.00200	"	0.100	ND	75.9	70-130	0.528	20	
o-Xylene	0.0745	0.00200	"	0.100	ND	74.5	70-130	1.33	20	
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.7	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

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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, Project Manager



March 08, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Wardell 17-7

Project Number - [none]

Attached are your analytical results for KMG - Wardell 17-7 received by Origins Laboratory, Inc. March 07, 2023. This project is associated with Origins project number Y303162-01.

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

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B21@4'	Y303162-01	Soil	March 7, 2023 13:40	03/07/2023 15:19
FL-B25@4'	Y303162-02	Soil	March 7, 2023 13:45	03/07/2023 15:19
FL-B26@5'	Y303162-03	Soil	March 7, 2023 13:46	03/07/2023 15:19

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4303162 Client: Eagle  
 Client Project ID: Wardell 17-7  
 Checklist Completed by: EHS/DE Shipped Via: HD  
 Date/time completed: 3/7/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 100 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: T804

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? <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 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.

DE  
 Reviewed by (Project Manager)

03/07/2023  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B21@4'**

**3/7/2023 1:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303162-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0730	ZZZ	03/07/2023	03/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 91.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0731	JSM	03/07/2023	03/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 89.9 % 70-130 " " "  
 Surrogate: Toluene-d8 104 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B25@4'**

**3/7/2023 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303162-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0730	ZZZ	03/07/2023	03/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 95.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0731	ZZZ	03/07/2023	03/08/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
 Surrogate: Toluene-d8 95.1 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**FL-B26@5'**

**3/7/2023 1:46:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303162-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C0730	ZZZ	03/07/2023	03/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 89.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C0731	JSM	03/07/2023	03/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.4 % 70-130 " " "  
 Surrogate: Toluene-d8 102 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C0730 - EPA 3580</b>										
<b>Blank (B3C0730-BLK1)</b>										
					Prepared: 03/07/2023 Analyzed: 03/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	33		"	24.9		132	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0730 - EPA 3580**

**LCS (B3C0730-BS1)**

Prepared: 03/07/2023 Analyzed: 03/07/2023

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0730 - EPA 3580**

<b>Matrix Spike (B3C0730-MS1)</b>	<b>Source: Y303158-02</b>			<b>Prepared: 03/07/2023 Analyzed: 03/07/2023</b>						
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.2	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0730 - EPA 3580**

<b>Matrix Spike Dup (B3C0730-MSD1)</b>	<b>Source: Y303158-02</b>			<b>Prepared: 03/07/2023 Analyzed: 03/07/2023</b>						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	2.54	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	1.46	35	
<i>Surrogate: o-Terphenyl</i>	45		"	49.8		90.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3C0731 - EPA 5030 (soil)**

**Blank (B3C0731-BLK1)**

Prepared: 03/07/2023 Analyzed: 03/07/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	89.0		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.7		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0731 - EPA 5030 (soil)**

**LCS (B3C0731-BS1)**

Prepared: 03/07/2023 Analyzed: 03/07/2023

1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.0997	0.00200	"	0.100		99.7	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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.*

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3C0731 - EPA 5030 (soil)

Matrix Spike (B3C0731-MS1)	Source: Y303158-02			Prepared: 03/07/2023 Analyzed: 03/07/2023						
1,2,4-Trimethylbenzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130			
1,3,5-Trimethylbenzene	0.0887	0.00200	"	0.100	ND	88.7	70-130			
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
Ethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.00124	103	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.0942	0.00200	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Wardell 17-7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3C0731 - EPA 5030 (soil)

Matrix Spike Dup (B3C0731-MSD1)	Source: Y303158-02			Prepared: 03/07/2023 Analyzed: 03/07/2023						
1,2,4-Trimethylbenzene	0.0957	0.00200	mg/kg	0.100	ND	95.7	70-130	6.45	20	
1,3,5-Trimethylbenzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	6.52	20	
Benzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	0.827	20	
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	4.62	20	
Naphthalene	0.104	0.00380	"	0.100	0.00124	103	70-130	0.537	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	3.76	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	4.14	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.0	70-130	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Wardell 17-7

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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, Project Manager

**ATTACHMENT B**  
**FIELD NOTES AND PHOTOGRAPHIC LOG**



## Wellhead Closure Checklist

Additional Attachments (Optional)	Flowline Closure
Well Name	Wardell 17-7
Remediation Project #	27015
Date	02/28/2023

### Wellhead Information

Client	Oxy
Weather	Sunny, 45
Field Personnel	AM & HA
Location	
Latitude	40.243427
Longitude	-104.701563
General Condition of Site	Good condition
USCS Soil Type	
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Impacted soils at WH-B01@6'
Salt Crusted Soils or Impacted Vegetation	None observed

### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	02/28/2023	03:17 PM	WH-B01@6'	0.1	Slight staining	Slight HC odor	Wellhead
R2	02/28/2023	03:18 PM	WH-N01@5'	0.8	N.S	N.O	Wellhead
R3	02/28/2023	03:22 PM	WH-S01@5'	1.1	N.S	N.O	Wellhead
R4	02/28/2023	03:23 PM	WH-E01@5'	1.0	N.S	N.O	Wellhead
R5	02/28/2023	03:24 PM	WH-W01@5'	0.5	N.S	N.O	Wellhead
R6	02/28/2023	03:25 PM	WHS-N01@3"	0.5	N.S	N.O	Wellhead
R7	02/28/2023	03:26 PM	WHS-S01@3"	0.6	N.S	N.O	Wellhead
R8	02/28/2023	03:27 PM	WHS-E01@3"	0.2	N.S	N.O	Wellhead
R9	02/28/2023	03:29 PM	WHS-W01@3"	0.2	N.S	N.O	Wellhead
R10	02/28/2023	03:30 PM	WH-BG01@6'	0.1	N.S	N.O	Wellhead Background
R11	02/28/2023	03:31 PM	WH-BG02@3'		N.S	N.O	Wellhead Background
R12	02/28/2023	03:32 PM	WH-BG02@6'	0.0	N.S	N.O	Wellhead Background
R13	02/28/2023	03:33 PM	WH-BG03@3'	0.2	N.S	N.O	Wellhead Background
R14	02/28/2023	03:36 PM	WH-BG03@6'	0.1	N.S	N.O	Wellhead Background
R15	02/28/2023	03:37 PM	WH-BG04@3'	0.3	N.S	N.O	Wellhead Background
R16	02/28/2023	03:38 PM	WH-BG04@6'	0.0	N.S	N.O	Wellhead background
R17	02/28/2023	03:39 PM	FL-B01@4'	0.4	N.S	N.O	Flowline at Wellhead
R18	02/28/2023	03:40 PM	WH-BG01@3'	0.4	N.S	N.O	Flowline

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R19	03/01/2023	03:40 PM	FL-B02@3'	0.3	N.S	N.O	Flowline
R20	03/01/2023	03:43 PM	FL-B03@4'	0.3	N.S	N.O	Flowline
R21	03/01/2023	03:44 PM	FL-B04@5'	0.1	N.S	N.O	Flowline
R22	03/01/2023	03:45 PM	FL-B05@5'	0.4	N.S	N.O	Flowline
R23	03/01/2023	03:46 PM	FL-B06@4'	0.4	N.S	N.O	Flowline
R24	03/01/2023	03:47 PM	FL-B07@3'	0.3	N.S	N.O	Flowline
R25	03/03/2023	02:38 PM	FL-B08@3'	1.1	N.S	N.O	Flowline
R26	03/03/2023	02:40 PM	FL-B09@4'	0.9	N.S	N.O	Flowline
R27	03/03/2023	02:42 PM	FL-B10@4'	0.6	N.S	N.O	Flowline
R28	03/06/2023	01:02 PM	FL-B11@3'	0.1	N.S	N.O	Flowline
R29	03/06/2023	01:15 PM	FL-B12@3'	0.1	N.S	N.O	Flowline
R30	03/06/2023	01:19 PM	FL-B13@5'	0.0	N.S	N.O	Flowline
R31	03/06/2023	01:21 PM	FL-B14@4'	0.0	N.S	N.O	Flowline
R32	03/06/2023	01:26 PM	FL-B15@4'	0.0	N.S	N.O	Flowline
R33	03/06/2023	01:26 PM	FL-B16@4'	0.1	N.S	N.O	Flowline
R34	03/06/2023	01:27 PM	FL-B17@4'	0.0	N.S	N.O	Flowline
R35	03/06/2023	01:30 PM	FL-B18@5'	0.1	N.S	N.O	Flowline
R36	03/06/2023	01:38 PM	FL-B19@4'	0.0	N.S	N.O	Flowline
R37	03/07/2023	01:39 PM	FL-B20@4'	0.4	N.S	N.O	Flowline
R38	03/07/2023	01:40 PM	FL-B21@4'	0.5	N.S	N.O	Flowline
R39	03/07/2023	01:42 PM	FL-B22@4'	0.5	N.S	N.O	Flowline
R40	03/07/2023	01:43 PM	FL-B23@4'	0.4	N.S	N.O	Flowline
R41	03/07/2023	01:44 PM	FL-B24@4'	0.4	N.S	N.O	Flowline
R42	03/07/2023	01:45 PM	FL-B25@4'	0.3	N.S	N.O	Flowline
R43	03/07/2023	01:46 PM	FL-B26@5'	0.3	N.S	N.O	Flowline
R44	03/07/2023	02:04 PM	FL-B27@5'	0.6	N.S	N.O	Flowline
R45	03/07/2023	02:15 PM	FL-B28@7'	0.7	N.S	N.O	Flowline

Photo(s)

R1 - P1



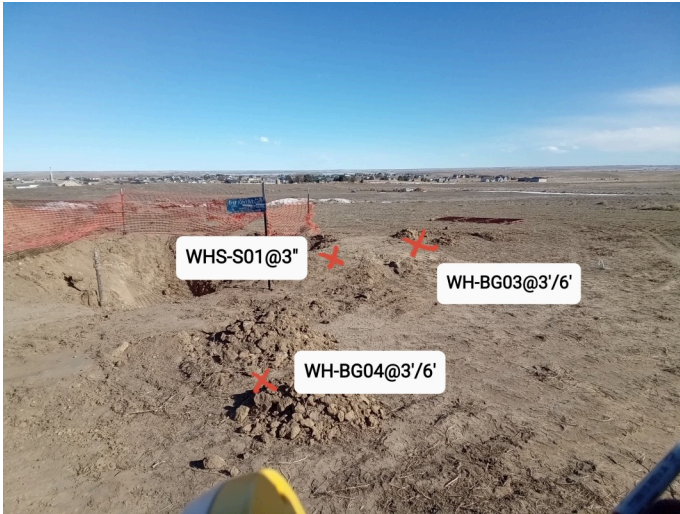
Looking west

R6 - P1



Looking west

R7 - P1



Looking west

R8 - P1



Looking west

R9 - P1



Looking west

R19 - P1



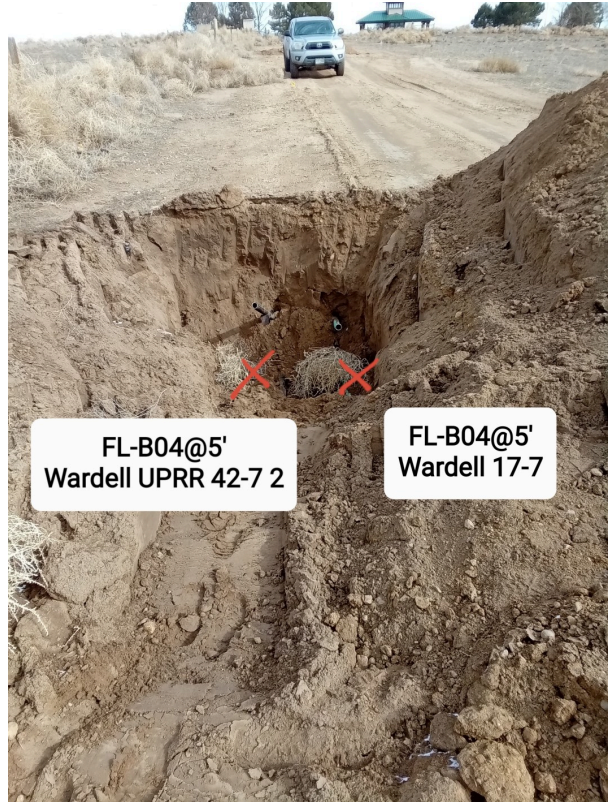
Looking west

R20 - P1



Looking west

R21 - P1



Looking west

R22 - P1



Looking west

R23 - P1



Looking west

R24 - P1



Looking west

R25 - P1



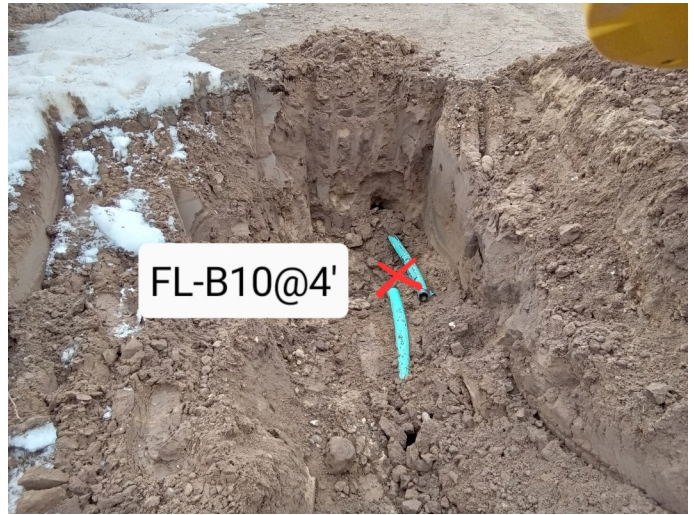
Looking west

R26 - P1



Looking west

R27 - P1



Looking west

R28 - P1



Looking west

R29 - P1



Looking west

R30 - P1



Looking west

R31 - P1



Looking west

R32 - P1



Looking east

R33 - P1



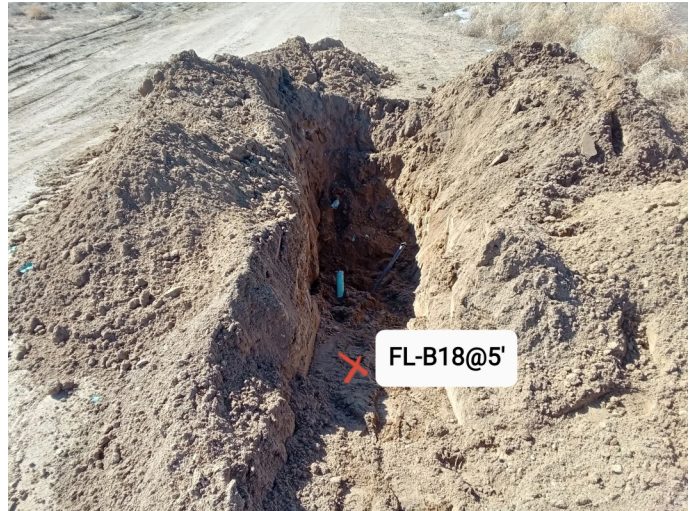
Looking west

R34 - P1



Looking west

R35 - P1



Looking west

R36 - P1



Looking west

R37 - P1



Looking south

R38 - P1



Looking south

R39 - P1



Looking south

R40 - P1



Looking south

R41 - P1



Looking south

R42 - P1



Looking south

R43 - P1



Looking south

R44 - P1



Looking northwest

R45 - P1



Looking east

Other observations regarding wellheads

Summary

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	45
Total number of soil samples collected	45
Highest PID Reading	1.1
Total number of soil samples submitted to lab for analysis	16
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	

**ATTACHMENT C**  
**STATE NOTIFICATION**



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**FW: State Reportable Release 24 Hour Notification - WARDELL 17-7**

1 message

---

**From:** Ochoa, Ariana

**Sent:** Thursday, March 9, 2023 5:01 PM

**To:** 'alexander.ahmadian@state.co.us' <alexander.ahmadian@state.co.us>; 'Jason Maxey' <jmaxey@weldgov.com>; 'Roy Rudisill (rrudisill@co.weld.co.us)' <rrudisill@co.weld.co.us>

**Cc:** Scranton, Lynna <Lynna\_Scranton@oxy.com>; Mickelson, Erik <Erik\_Mickelson@oxy.com>; Rowley, Taylor <Taylor\_Rowley@oxy.com>; Bugarin, Eve (New Tech Global Rig Personnel LLC) <Eve\_Bugarin@oxy.com>; Lytle, Andy <Andrew\_Lytle@oxy.com>; Jobe, Don <Don\_Jobe@oxy.com>; Grage, Mark <Mark\_Grage@oxy.com>; Hamilton, Gregory <Gregory\_Hamilton@oxy.com>; Bartoszek, Jaron (Swift Technical Services LLC) <Jaron\_Bartoszek@oxy.com>; Brice, Jennifer <Jennifer\_Brice@oxy.com>; Neely, Dewey (Platteville) <Dewey\_Neely2@oxy.com>; Coleman, Julie <Julie\_Coleman@oxy.com>; Riemer, Joseph <Joseph\_Riemer@oxy.com>; Wells, Matt <Matthew\_Wells@oxy.com>; Mathes, Robert <Robert\_Mathes@oxy.com>; Hamlin, Mark G <Mark\_Hamlin@oxy.com>; Marshall, Shayelyn <Shayelyn\_marshall@oxy.com>; Wells, Matt <Matthew\_Wells@oxy.com>

**Subject:** State Reportable Release 24 Hour Notification - WARDELL 17-7

Good afternoon,

We identified a state reportable release following the identification of historically impacted soil of an unknown volume. This release was not an active release. A Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

Weld County contacted via electronic mail

Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife were not contacted as this release did not trigger notification requirements per 912.b.(2)B.

Location Details:

- Wellhead Name: WARDELL 41-7
- Location: SWNE 7 3N 65W
- Latitude/Longitude: 40.243427/ -104.701563
- Wellhead ID: 05-123-23211

Please let me know if you have any questions.

Thank you,

**Ariana Ochoa**

HSE Advisor

---

**Occidental Petroleum Corporation**

t: (970) 515-1216

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