



August 08, 2018

Apex Companies, LLC

Chandler Cole

4150 Darley Avenue, Suite 1

Boulder

CO 80305

Project Name - KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery **Project Number - [none]**

Attached are your analytical results for KMG - WCR Properties 41-5/Spaur 1-5 Tank Battery received by Origins Laboratory, Inc. August 07, 2018. This project is associated with Origins project number Y808085-01.

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

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01@10	Y808085-01	Soil	August 7, 2018 15:24	08/07/2018 17:15
ES01@10	Y808085-02	Soil	August 7, 2018 15:29	08/07/2018 17:15
EN01@10	Y808085-03	Soil	August 7, 2018 15:32	08/07/2018 17:15
N02@10	Y808085-04	Soil	August 7, 2018 15:39	08/07/2018 17:15
WS01@10	Y808085-05	Soil	August 7, 2018 15:47	08/07/2018 17:15
WN01@10	Y808085-06	Soil	August 7, 2018 15:52	08/07/2018 17:15

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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page 1 of 1

1800085

ORIGINS
LABORATORY, INC

Client: Apex Companies
Address: 1746 Cole Blvd, Lakewood, CO 80401
Telephone Number: 720-501-5052
Email Address: Chandler.Cole@apexcos.com

Project Manager: Chandler Cole
Project Name: WCR 41-5
Project Number: WO# TBD Greg Hamilton
Samples Collected By: Ryan Finley
Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	GRTEX	DRG/RRO	EC, pH	
S01@10	8/7/18	1524	1	X					X				X		1
ES01@10		1529	1												2
EN01@10		1532	1												3
NO2@10		1539	1												4
WS01@10		1547	1												5
WN 01@10		1552	1												6
															7
															8
															9
															10
Relinquished By: <i>[Signature]</i>	Date: 8/7/18	Time: 11:5	Received By: <i>[Signature]</i>	Date: 8-7-18	Time: 11:15	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:										

Next day, 7am

Date Results Needed

5.1

Origins Laboratory, Inc.

Jefe Pellegrini

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 480805 Client: Apex Co.
Client Project ID: WCR - 41-5
Checklist Completed by: [Signature] Shipped Via: HS
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 8-1-12 Airbill #: NA
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)
Cooler Number/Temperature: 1 / 5.1 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C
Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pt</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8-1-12

Origins Laboratory, Inc.

[Signature]

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

S01@10

8/7/2018 3:24:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	52.3	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 69.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	16.1	5.00	mg/kg	25	B8H0706	KDK	08/07/2018	08/07/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	0.233	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " "
Surrogate: Toluene-d8 99.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.61		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.223	0.00500	mmhos/cm	"	B8H0708	KDK	"	"	
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Origins Laboratory, Inc.



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Apex Companies, LLC
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Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

ES01@10

8/7/2018 3:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	292	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	
Residual Range Organics (C28-C40)	122	100	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl 86.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	828	50.0	mg/kg	250	B8H0706	KDK	08/07/2018	08/08/2018	
Benzene	0.990	0.498	"	"	"	KDK	"	08/07/2018	
Toluene	ND	0.498	"	"	"	KDK	"	"	U
Ethylbenzene	3.44	0.498	"	"	"	KDK	"	"	
Xylenes, total	28.6	0.498	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.2 % 70-130 " " "
Surrogate: Toluene-d8 96.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.77		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.190	0.00509	mmhos/cm	"	B8H0708	KDK	"	"	
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4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

EN01@10

8/7/2018 3:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 70.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8H0706	KDK	08/07/2018	08/07/2018	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.2 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.09		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.132	0.00500	mmhos/cm	"	B8H0708	KDK	"	"	
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4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

N02@10

8/7/2018 3:39:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 64.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.44	5.00	mg/kg	25	B8H0706	KDK	08/07/2018	08/07/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.5 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.94		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.167	0.00500	mmhos/cm	"	B8H0708	KDK	"	"	
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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

WS01@10

8/7/2018 3:47:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 73.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8H0706	KDK	08/07/2018	08/08/2018	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.0 % 70-130 " " "
Surrogate: Toluene-d8 99.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.91		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.135	0.00503	mmhos/cm	"	B8H0708	KDK	"	"	
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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

WN01@10

8/7/2018 3:52:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808085-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	134	25.0	mg/kg	1	B8H0704	KDK	08/07/2018	08/07/2018	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 86.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	63.0	5.00	mg/kg	25	B8H0706	KDK	08/07/2018	08/08/2018	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.176	0.050	"	"	"	KDK	"	"	
Xylenes, total	1.88	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.05		pH Units	1	B8H0707	KDK	08/07/2018	08/07/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.140	0.00509	mmhos/cm	"	B8H0708	KDK	"	"	
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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0706 - EPA 5030 (soil)										
Blank (B8H0706-BLK1)					Prepared: 08/07/2018 Analyzed: 08/07/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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4150 Darley Avenue, Suite 1
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Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0706 - EPA 5030 (soil)										
LCS (B8H0706-BS1)					Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	0.094	0.002	mg/kg	0.100		94.5	77.1-124			
Toluene	0.093	0.002	"	0.100		93.5	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.5	66.4-127			
m,p-Xylene	0.191	0.004	"	0.200		95.4	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H0706 - EPA 5030 (soil)

Matrix Spike (B8H0706-MS1)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.6	62.2-130			
m,p-Xylene	0.195	0.004	"	0.200	ND	97.7	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	98.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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4150 Darley Avenue, Suite 1
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Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H0706 - EPA 5030 (soil)

Matrix Spike Dup (B8H0706-MSD1)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.7	71.8-126	2.54	11.3	
Toluene	0.098	0.002	"	0.100	ND	97.8	65.1-130	2.26	15.4	
Ethylbenzene	0.096	0.002	"	0.100	ND	96.1	62.2-130	0.457	19.6	
m,p-Xylene	0.191	0.004	"	0.200	ND	95.7	46.5-137	2.03	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134	2.14	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H0704 - EPA 3580

Blank (B8H0704-BLK1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		81.6	59-131			

Blank (B8H0704-BLK2)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		80.8	59-131			

LCS (B8H0704-BS1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	64-121			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.5	59-131			

LCS (B8H0704-BS2)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Diesel (C10-C28)	909	50.0	mg/kg	1000		90.9	64-121			
Residual Range Organics (C28-C40)	941	200	"	1000		94.1	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.3	59-131			

Matrix Spike (B8H0704-MS1)

Source: Y808072-01

Prepared: 08/07/2018 Analyzed: 08/07/2018

Diesel (C10-C28)	1030	50.0	mg/kg	1000	132	89.4	53-125			
Residual Range Organics (C28-C40)	1040	200	"	1000	90.5	95.1	47-133			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0704 - EPA 3580										
Matrix Spike (B8H0704-MS1)		Source: Y808072-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Surrogate: o-Terphenyl	48		mg/kg	50.0		96.2	59-131			
Matrix Spike (B8H0704-MS2)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	53-125			
Residual Range Organics (C28-C40)	928	200	"	1000	11.9	91.6	47-133			
Surrogate: o-Terphenyl	46		"	50.0		91.7	59-131			
Matrix Spike Dup (B8H0704-MSD1)		Source: Y808072-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	132	94.5	53-125	5.52	20	
Residual Range Organics (C28-C40)	1090	200	"	1000	90.5	100	47-133	5.25	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			
Matrix Spike Dup (B8H0704-MSD2)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	53-125	2.15	20	
Residual Range Organics (C28-C40)	937	200	"	1000	11.9	92.6	47-133	1.06	20	
Surrogate: o-Terphenyl	47		"	50.0		93.9	59-131			

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0707 - NO PREP										
Duplicate (B8H0707-DUP1)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
pH	7.10		pH Units		7.29			2.64	25	
Batch B8H0708 - NO PREP										
Blank (B8H0708-BLK1)		Prepared: 08/07/2018 Analyzed: 08/07/2018								
Specific Conductance (EC)	0.00350	0.00500	mmhos/cm							
Duplicate (B8H0708-DUP1)		Source: Y808078-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Specific Conductance (EC)	0.661	0.00500	mmhos/cm		0.700			5.73	25	

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Chandler Cole
Project Number: [none]
Project: KMG - WCR Properties 41-5/Spaur 1-5
Tank Battery

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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