

August 08, 2018

Apex Companies, LLC

Chandler Cole

4150 Darley Avenue, Suite 1

Boulder CO 80305

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

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 Y808084-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Apex Companies, LLC  
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
GW02	Y808084-01	Water	August 7, 2018 15:10	08/07/2018 17:15

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Apex Companies, LLC  
 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: Y808024

Client: Apex Co.

Client Project ID: KMG-WCR 41-5

Checklist Completed by: Don Lee

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

Date/time completed: 6-7-13

Airbill #: NA

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

Cooler Number/Temperature: 15.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6-7-13

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

**GW02**

**8/7/2018 3:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y808084-01 (Water)**

**BTEX by EPA 8260C**

Benzene	5.52	4.00	ug/L	4	B8H0701	ZZZ	08/07/2018	08/07/2018	
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	7.20	4.00	"	"	"	ZZZ	"	"	
Xylenes, total	23.5	4.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Apex Companies, LLC  
 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 B8H0701 - EPA 5030B (Water)**

**Blank (B8H0701-BLK1)**

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

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	105		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.0		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.9		84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Apex Companies, LLC  
 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 B8H0701 - EPA 5030B (Water)**

**LCS (B8H0701-BS1)**

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

Benzene	47.2	1.00	ug/L	50.0		94.4	73.3-129			
Toluene	52.2	1.00	"	50.0		104	76.2-123			
Ethylbenzene	52.0	1.00	"	50.0		104	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	47.7	1.00	"	50.0		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.2	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Apex Companies, LLC  
 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 B8H0701 - EPA 5030B (Water)

Matrix Spike (B8H0701-MS1)	Source: Y808061-02			Prepared: 08/07/2018 Analyzed: 08/07/2018						
Benzene	47.9	1.00	ug/L	50.0	ND	95.8	74-130			
Toluene	51.8	1.00	"	50.0	ND	104	73-131			
Ethylbenzene	51.3	1.00	"	50.0	0.060	102	76-132			
m,p-Xylene	108	2.00	"	100	ND	108	69-139			
o-Xylene	47.0	1.00	"	50.0	ND	94.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Apex Companies, LLC  
 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 B8H0701 - EPA 5030B (Water)**

Matrix Spike Dup (B8H0701-MSD1)	Source: Y808061-02			Prepared: 08/07/2018 Analyzed: 08/07/2018						
Benzene	48.0	1.00	ug/L	50.0	ND	96.0	74-130	0.125	20	
Toluene	52.6	1.00	"	50.0	ND	105	73-131	1.59	20	
Ethylbenzene	50.4	1.00	"	50.0	0.060	101	76-132	1.63	20	
m,p-Xylene	107	2.00	"	100	ND	107	69-139	1.23	20	
o-Xylene	46.9	1.00	"	50.0	ND	93.9	74-131	0.213	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.2	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Apex Companies, LLC  
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.



*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.*

Jen Pellegrini For Noelle Doyle Mathis, President