

**Attachment A**

**Laboratory Analytical Report**



September 05, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - WCR Properties 41-5

Project Number - 89633985

Attached are your analytical results for KMG - WCR Properties 41-5 received by Origins Laboratory, Inc. August 30, 2019. This project is associated with Origins project number Y909012-01.

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  
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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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y909012-01	Water	August 30, 2019 12:20	08/30/2019 17:07
MW02	Y909012-02	Water	August 30, 2019 12:55	08/30/2019 17:07
MW03	Y909012-03	Water	August 30, 2019 13:08	08/30/2019 17:07
MW04	Y909012-04	Water	August 30, 2019 13:32	08/30/2019 17:07
MW05	Y909012-05	Water	August 30, 2019 14:28	08/30/2019 17:07
MW06	Y909012-06	Water	August 30, 2019 14:38	08/30/2019 17:07
MW07	Y909012-07	Water	August 30, 2019 15:45	08/30/2019 17:07
MW08	Y909012-08	Water	August 30, 2019 13:30	08/30/2019 17:07

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.*

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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4909012

Client: Apex Co.

Client Project ID: KMG - WCR Properties

Checklist Completed by: Dan Lee

Shipped Via: 17D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/3/19

Airbill #: NA

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

Cooler Number/Temperature: 1 13.3 °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) CP

Date/Time Reviewed 9/4/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW01

8/30/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I0310	KDK	09/03/2019	09/03/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.5 %	70-130	"	"	"
Surrogate: Toluene-d8	95.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	85.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project: KMG - WCR Properties 41-5

## MW02

8/30/2019 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-02 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I0310	KDK	09/03/2019	09/03/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.0 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW03

8/30/2019 1:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I0310	KDK	09/03/2019	09/03/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.4 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.7 %	70-130	"	"	"

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Project: KMG - WCR Properties 41-5

## MW04

8/30/2019 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-04 (Water)

### BTEX by EPA 8260D

Benzene	335	10.0	ug/L	10	B910310	KDK	09/03/2019	09/03/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	49.0	10.0	"	"	"	KDK	"	"	
Xylenes, total	222	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	74.9 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.0 %	70-130	"	"	"	"	"	"	

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Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW05

8/30/2019 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-05 (Water)

### BTEX by EPA 8260D

Benzene	1030	10.0	ug/L	10	B910310	KDK	09/03/2019	09/03/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	116	10.0	"	"	"	KDK	"	"	
Xylenes, total	664	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	76.1 %	70-130	"	"	"
Surrogate: Toluene-d8	95.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	86.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW06

8/30/2019 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-06 (Water)

### BTEX by EPA 8260D

Benzene	3.07	1.00	ug/L	1	B9I0310	KDK	09/03/2019	09/04/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.4 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"

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Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW07

8/30/2019 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-07 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9I0310	KDK	09/03/2019	09/04/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.1 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW08

8/30/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y909012-08 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I0310	KDK	09/03/2019	09/04/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.2 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9I0310 - EPA 5030B (Water)</b>										
<b>Blank (B9I0310-BLK1)</b>					Prepared: 09/03/2019 Analyzed: 09/03/2019					
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	47		"	62.5		75.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.4	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9I0310 - EPA 5030B (Water)</b>										
<b>LCS (B9I0310-BS1)</b>					Prepared: 09/03/2019 Analyzed: 09/03/2019					
Benzene	49.7	1.00	ug/L	50.0		99.4	70-130			
Toluene	53.2	1.00	"	50.0		106	70-130			
Ethylbenzene	46.9	1.00	"	50.0		93.9	70-130			
m,p-Xylene	92.3	2.00	"	100		92.3	70-130			
o-Xylene	45.8	1.00	"	50.0		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		71.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.7	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9I0310 - EPA 5030B (Water)**

Matrix Spike (B9I0310-MS1)		Source: Y909012-01			Prepared: 09/03/2019 Analyzed: 09/03/2019					
Benzene	51.6	1.00	ug/L	50.0	ND	103	70-130			
Toluene	54.5	1.00	"	50.0	ND	109	70-130			
Ethylbenzene	48.8	1.00	"	50.0	0.100	97.3	70-130			
m,p-Xylene	96.6	2.00	"	100	0.170	96.4	70-130			
o-Xylene	47.5	1.00	"	50.0	ND	94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		71.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.8	70-130			

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Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9I0310 - EPA 5030B (Water)**

Matrix Spike Dup (B9I0310-MSD1)		Source: Y909012-01			Prepared: 09/03/2019 Analyzed: 09/03/2019					
Benzene	52.6	1.00	ug/L	50.0	ND	105	70-130	2.00	20	
Toluene	56.3	1.00	"	50.0	ND	113	70-130	3.28	20	
Ethylbenzene	49.3	1.00	"	50.0	0.100	98.4	70-130	1.10	20	
m,p-Xylene	98.1	2.00	"	100	0.170	97.9	70-130	1.55	20	
o-Xylene	48.4	1.00	"	50.0	ND	96.8	70-130	1.98	20	
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.3	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.7	70-130			

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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

### 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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November 05, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder

CO 80305

**Project Name - KMG - WCR Properties 41-5**

**Project Number - 89633985**

Attached are your analytical results for KMG - WCR Properties 41-5 received by Origins Laboratory, Inc. November 01, 2019. This project is associated with Origins project number Y911026-01.

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.

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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.

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Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y911026-01	Water	November 1, 2019 11:10	11/01/2019 15:15
MW02	Y911026-02	Water	November 1, 2019 11:50	11/01/2019 15:15
MW03	Y911026-03	Water	November 1, 2019 12:20	11/01/2019 15:15
MW04	Y911026-04	Water	November 1, 2019 13:30	11/01/2019 15:15
MW05	Y911026-05	Water	November 1, 2019 13:40	11/01/2019 15:15
MW06	Y911026-06	Water	November 1, 2019 14:00	11/01/2019 15:15
MW07	Y911026-07	Water	November 1, 2019 13:00	11/01/2019 15:15
MW08	Y911026-08	Water	November 1, 2019 13:50	11/01/2019 15:15
MW09	Y911026-09	Water	November 1, 2019 12:00	11/01/2019 15:15
MW10	Y911026-10	Water	November 1, 2019 12:30	11/01/2019 15:15
MW11	Y911026-11	Water	November 1, 2019 13:00	11/01/2019 15:15

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

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page 1 of 2

ORIGINS  
LABORATORY, INC

91102612

Client: Apex Companies  
Address: 1746 Cole Blvd, Lakewood, CO 80401  
Telephone Number: 720-501-5065  
Email Address: Maggie.Graham@apexcos.com

Project Manager: Maggie Graham  
Project Name: WCR Properties 41-5  
Project Number: WOH#89633985 Greg Hamilton  
Samples Collected By: Kevin Ambrose  
Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	DRO/RRO	EC, pH	HOLD SAR	
MW-1	11/11/19	1110	3		X			X							1 Staked time for
MW-2		1150													2 all
MW-3		1220													3
MW-4		1330													4
MW-5		1340													5
MW-6		1400													6
MW-7		1300													7
MW-8		1350													8
MW-9		1200													9
MW-10		1230													10
Relinquished By:	Date: 11/11/19	Time: 1515													Turnaround Time: 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:													Time: 11:01:09

Date Results Needed Next day, 7am

Origins Laboratory, Inc.

Jefe Pellegrini

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Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

# ORIGINS

LABORATORY, INC

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Y91026%

page 1 of 2

Client: Apex Companies  
1746 Cole Blvd, Lakewood, CO 80401  
Address:  
Telephone Number: 720-501-5065  
Email Address: Maggie.Graham@apexcos.com

Project Manager: Maggie Graham  
Project Name: WCR 89466 Project 41-5  
Project Number: WO# 8963985 Greg Hamilton  
Samples Collected By: Kevin Anderson

Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air/Surface	Other	DRO/RRO	EC, pH	HOLD SAR		
M12-11	11/1/19	1300	3		X			X								1
																2
																3
																4
																5
																6
																7
																8
																9
																10

  

Relinquished By: <i>[Signature]</i>	Date: 11/1/19	Time: 1515	Received By: <i>[Signature]</i>	Date: 11-01-19	Time: 1515	Turnaround Time: <i>[Signature]</i> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date: 11-01-19	Time: 1515	Standard <input checked="" type="checkbox"/>

Date Results Needed Next day, 7am

Origins Laboratory, Inc.

Jeff Pellgrini

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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y911026

Client: Apex

Client Project ID: WCR Properties 41-5

Checklist Completed by: JG KMK

Shipped Via: HD

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

Date/time completed: 11 / 04 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8.9 °C          /          °C          /          °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 11/5/19

Origins Laboratory, Inc.

*Jen Pellegrini*

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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW01

11/1/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW02

11/1/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-02 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW03

11/1/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW04

11/1/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-04 (Water)

### BTEX by EPA 8260D

Benzene	170	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	39.9	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	95.8	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130			"	"	"
Surrogate: Toluene-d8	105 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW05

11/1/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-05 (Water)

### BTEX by EPA 8260D

Benzene	3410	50.0	ug/L	50	B9K0403	KDK	11/04/2019	11/05/2019	
Toluene	ND	10.0	"	10	"	ZZZ	"	11/04/2019	U
Ethylbenzene	747	10.0	"	"	"	ZZZ	"	"	
Xylenes, total	3020	10.0	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.5 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW06

11/1/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW07

11/1/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-07 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW08

11/1/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-08 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW09

11/1/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-09 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/05/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW10

11/1/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-10 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/05/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

## MW11

11/1/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y911026-11 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K0403	ZZZ	11/04/2019	11/05/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9K0403 - EPA 5030B (Water)</b>										
<b>Blank (B9K0403-BLK1)</b>					Prepared: 11/04/2019 Analyzed: 11/04/2019					
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	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9K0403 - EPA 5030B (Water)</b>										
<b>LCS (B9K0403-BS1)</b>					Prepared: 11/04/2019 Analyzed: 11/04/2019					
Benzene	47.0	1.00	ug/L	50.0		94.0	70-130			
Toluene	52.0	1.00	"	50.0		104	70-130			
Ethylbenzene	53.7	1.00	"	50.0		107	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
o-Xylene	49.8	1.00	"	50.0		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.5	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9K0403 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B9K0403-MS1)</b>		<b>Source: Y911025-01</b>			Prepared: 11/04/2019 Analyzed: 11/04/2019					
Benzene	152	1.00	ug/L	50.0	ND	303	70-130			QM-07
Toluene	142	1.00	"	50.0	0.150	283	70-130			QM-07
Ethylbenzene	267	1.00	"	50.0	0.850	533	70-130			QM-07
m,p-Xylene	549	2.00	"	100	8.25	540	70-130			QM-07
o-Xylene	296	1.00	"	50.0	1.33	589	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.5	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

**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 B9K0403 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B9K0403-MSD1)</b>		<b>Source: Y911025-01</b>			Prepared: 11/04/2019 Analyzed: 11/04/2019					
Benzene	155	1.00	ug/L	50.0	ND	310	70-130	2.17	20	QM-07
Toluene	147	1.00	"	50.0	0.150	295	70-130	3.98	20	QM-07
Ethylbenzene	280	1.00	"	50.0	0.850	558	70-130	4.69	20	QM-07
m,p-Xylene	576	2.00	"	100	8.25	568	70-130	4.92	20	QM-07
o-Xylene	309	1.00	"	50.0	1.33	615	70-130	4.41	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.8	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: 89633985  
Project: KMG - WCR Properties 41-5

### Notes and Definitions

U Sample is Non-Detect.

QM-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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