

**Attachment A**

**Laboratory Analytical Report**



August 13, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Babcock 19N-33HZ

Project Number - [none]

Attached are your analytical results for KMG - Babcock 19N-33HZ received by Origins Laboratory, Inc. August 12, 2019. This project is associated with Origins project number Y908185-01.

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

Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@1.5'	Y908185-01	Soil	August 12, 2019 16:03	08/12/2019 17:30
B02@1.5'	Y908185-02	Soil	August 12, 2019 16:05	08/12/2019 17:30
B03@1.5'	Y908185-03	Soil	August 12, 2019 16:08	08/12/2019 17:30

Origins Laboratory, Inc.



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

Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

www.originslaboratory.com

7908185

ORIGINS  
LABORATORY, INC

page 1 of 1

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: Babcock 19N-33HZ  
Project Number: WO# 7BD Greg Hamilton  
Samples Collected By: Ryan Finley  
Bill to Anadarko

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #		
B01 @ 1.5	8/12/19	1603	2	X					X		EC, pH, SAR	1
B02 @ 1.5	8/12/19	1605	2						X		DRO/RRO	2
B03 @ 1.5	8/12/19	1608	2						X		Naphthalene	3
BKGD @ 0.5	8/12/19	1610	1								GRTEX	4
												5
												6
												7
												8
												9
												10

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Relinquished By: [Signature] Date: 8/12/19 Time: 1630  
Relinquished By: [Signature] Date: 8/12/19 Time: 1730

Next day, 7am

Date Results Needed

11.9

Origins Laboratory, Inc.

Jefe Pellegrini

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4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: [none]

Project: KMG - Babcock 19N-33HZ

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y908185

Client: Apex

Client Project ID: Babcock 19N-33HE

Checklist Completed by: JG

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

Date/time completed: 8/12/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 11.9 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C

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"/>	<u>37</u>		
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)

Date/Time Reviewed: 8/12/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: [none]

Project: KMG - Babcock 19N-33HZ

B01@1.5'

8/12/2019 4:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y908185-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9H1210	KDK	08/12/2019	08/12/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 76.7 % 50-150 " " "

### GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	5.83	5.00	mg/kg	25	B9H1216	KDK	08/12/2019	08/12/2019	
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
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "

Surrogate: Toluene-d8 99.5 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	8.06		pH Units	1	B9H1207	OLAB	08/12/2019	08/12/2019	
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0442	0.00500	mmhos/cm	"	B9H1211	DJL	08/12/2019	08/12/2019	
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Boulder CO 80305

Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**B02@1.5'**  
**8/12/2019 4:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908185-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9H1210	KDK	08/12/2019	08/13/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 75.8 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9H1216	KDK	08/12/2019	08/12/2019	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
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 98.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.2 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.07	pH Units	1	B9H1207	OLAB	08/12/2019	08/12/2019
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0473	0.00500	mmhos/cm	"	B9H1211	DJL	08/12/2019	08/12/2019
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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**B03@1.5'**  
**8/12/2019 4:08:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908185-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9H1210	KDK	08/12/2019	08/13/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 74.2 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9H1216	KDK	08/12/2019	08/12/2019	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
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.9 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	6.92	pH Units	1	B9H1207	OLAB	08/12/2019	08/12/2019
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0451	0.00503	mmhos/cm	"	B9H1211	DJL	08/12/2019	08/12/2019
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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**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 B9H1210 - EPA 3580</b>										
<b>Blank (B9H1210-BLK1)</b>					Prepared: 08/12/2019 Analyzed: 08/12/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	25.0		69.6	50-150			

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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**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 B9H1210 - EPA 3580</b>										
<b>LCS (B9H1210-BS1)</b>					Prepared: 08/12/2019 Analyzed: 08/12/2019					
Diesel (C10-C28)	979	50.0	mg/kg	1000		97.9	70-130			
Residual Range Organics (C28-C40)	846	200	"	1000		84.6	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.3	50-150			

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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

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 B9H1210 - EPA 3580

Matrix Spike (B9H1210-MS1)		Source: Y908173-01			Prepared: 08/12/2019 Analyzed: 08/12/2019					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.3	50-150			

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## 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
Batch B9H1210 - EPA 3580										
<b>Matrix Spike Dup (B9H1210-MSD1)</b>		<b>Source: Y908173-01</b>			Prepared: 08/12/2019 Analyzed: 08/12/2019					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	2.36	35	
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130	2.49	35	
Surrogate: o-Terphenyl	43		"	50.0		85.6	50-150			

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Maggie Graham  
Project Number: [none]  
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## 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 B9H1216 - EPA 5030 (soil)</b>										
<b>Blank (B9H1216-BLK1)</b>					Prepared: 08/12/2019 Analyzed: 08/12/2019					
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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**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 B9H1216 - EPA 5030 (soil)</b>										
<b>LCS (B9H1216-BS1)</b>					Prepared: 08/12/2019 Analyzed: 08/12/2019					
Benzene	0.111	0.002	mg/kg	0.100		111	70-130			
Toluene	0.113	0.002	"	0.100		113	70-130			
Ethylbenzene	0.120	0.002	"	0.100		120	70-130			
m,p-Xylene	0.238	0.004	"	0.200		119	70-130			
o-Xylene	0.115	0.002	"	0.100		115	70-130			
Naphthalene	0.103	0.008	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

**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 B9H1216 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B9H1216-MS1)</b>		<b>Source: Y908184-01</b>			Prepared: 08/12/2019 Analyzed: 08/12/2019					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	70-130			
Toluene	0.111	0.002	"	0.100	ND	111	70-130			
Ethylbenzene	0.120	0.002	"	0.100	ND	120	70-130			
m,p-Xylene	0.235	0.004	"	0.200	ND	118	70-130			
o-Xylene	0.117	0.002	"	0.100	ND	117	70-130			
Naphthalene	0.120	0.008	"	0.100	ND	120	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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**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 B9H1216 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B9H1216-MSD1)</b>					<b>Source: Y908184-01</b>					
										Prepared: 08/12/2019 Analyzed: 08/12/2019
Benzene	0.107	0.002	mg/kg	0.100	ND	107	70-130	3.84	20	
Toluene	0.107	0.002	"	0.100	ND	107	70-130	4.35	20	
Ethylbenzene	0.114	0.002	"	0.100	ND	114	70-130	4.85	20	
m,p-Xylene	0.225	0.004	"	0.200	ND	112	70-130	4.48	20	
o-Xylene	0.113	0.002	"	0.100	ND	113	70-130	3.50	20	
Naphthalene	0.133	0.008	"	0.100	ND	133	70-130	10.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

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4150 Darley Avenue, Suite 1  
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Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

## 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 B9H1207 - NO PREP

<b>Duplicate (B9H1207-DUP1)</b>		<b>Source: Y908169-01</b>			Prepared: 08/12/2019 Analyzed: 08/12/2019					
pH	8.04		pH Units		8.15			1.36	25	

#### Batch B9H1211 - NO PREP

<b>Blank (B9H1211-BLK1)</b>		Prepared: 08/12/2019 Analyzed: 08/12/2019								
Specific Conductance (EC)	0.00310	0.00500	mmhos/cm							
<b>Duplicate (B9H1211-DUP1)</b>		<b>Source: Y908174-01</b>			Prepared: 08/12/2019 Analyzed: 08/12/2019					
Specific Conductance (EC)	1.81	0.00505	mmhos/cm		1.52			17.1	25	

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

Maggie Graham  
Project Number: [none]  
Project: KMG - Babcock 19N-33HZ

### 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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