

Attachment A

Laboratory Analytical Report



January 23, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farm UPRR 41-33 **Project Number - 2156293**

Attached are your analytical results for KMG - Sweet Valley Farm UPRR 41-33 received by Origins Laboratory, Inc. January 20, 2020. This project is associated with Origins project number Y001254-01.

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: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y001254-01	Soil	January 20, 2020 14:10	01/20/2020 16:35
N01@4'	Y001254-02	Soil	January 20, 2020 14:12	01/20/2020 16:35
E01@4'	Y001254-03	Soil	January 20, 2020 14:14	01/20/2020 16:35
S01@4'	Y001254-04	Soil	January 20, 2020 14:16	01/20/2020 16:35
W01@4'	Y001254-05	Soil	January 20, 2020 14:18	01/20/2020 16:35

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LABORATORY, INC

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

ORIGINS
 LABORATORY, INC

Y001254

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: SWEET VALLEY FARM UPRR 41-33
 Project Number: WO# 2156293 Greg Hamilton
 Samples Collected By: REN WANDA MATHIS
 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 ₃	Other	Groundwater	Soil	Air Summa #	Other	GT/EX	DRO/RRO	Naphthalene		EC, PH, SAR		
B01e6	1-20-20	1410	2	X						Y			X	X	X			
N01e4		1412	1										X	X	X			
E01e4		1414	1										X	X	X			
S01e4		1416	1										X	X	X			
W01e4		1418	1										X	X	X			
B06e05		1420	1											X				
Relinquished By:		Date: 1-20-20	Time: 1635	Received By:		Date: 1/20/20	Time: 1635											
Relinquished By:		Date:	Time:	Received By:		Date:	Time:											

Date Results Needed: Next day, 7am

2.9

Origins Laboratory, Inc.

Jefe Pellegrini

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Apex Companies, LLC
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 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y0001254

Client: Apex

Client Project ID: Sweet Valley Farm

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 1/20/2020

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

Cooler Number/Temperature: 1 / 2.9 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 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 1/20/20

Origins Laboratory, Inc.

Jefe Pellegrini

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

B01@6'

1/20/2020 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001254-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	195	25.0	mg/kg	1	B0A2008	KDK	01/20/2020	01/20/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	216	5.00	mg/kg	25	B0A2004	ZZZ	01/20/2020	01/21/2020	
Benzene	0.551	0.050	"	"	"	ZZZ	"	"	
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.17	0.050	"	"	"	ZZZ	"	"	
Xylenes, total	5.00	0.050	"	"	"	ZZZ	"	"	
Naphthalene	0.286	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 118 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.62		me/L	1	[none]		01/21/2020	01/23/2020	
Magnesium	0.95		"	"	"		"	"	
Sodium	3.67		"	"	"		"	"	

pH in Soil by EPA 9045D

Origins Laboratory, Inc.



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Maggie Graham
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B01@6'

1/20/2020 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001254-01 (Soil)

pH in Soil by EPA 9045D

pH	7.87		pH Units	1	B0A2011	DJL	01/20/2020	01/20/2020	
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SAR by 20B Saturated Paste

SAR	3.24			1	[none]		01/21/2020	01/23/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.137	0.00501	mmhos/cm	1	B0A2012	DJL	01/20/2020	01/20/2020	
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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

N01@4'

1/20/2020 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001254-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.6	25.0	mg/kg	1	B0A2008	KDK	01/20/2020	01/20/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 80.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	24.1	5.00	mg/kg	25	B0A2004	ZZZ	01/20/2020	01/21/2020	
Benzene	0.373	0.050	"	"	"	ZZZ	"	"	
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 115 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

E01@4'

1/20/2020 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001254-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2008	KDK	01/20/2020	01/20/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 73.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	18.0	5.00	mg/kg	25	B0A2004	ZZZ	01/20/2020	01/21/2020	
Benzene	0.114	0.050	"	"	"	ZZZ	"	"	
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

S01@4'

1/20/2020 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001254-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	304	25.0	mg/kg	1	B0A2008	KDK	01/20/2020	01/20/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 76.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1110	50.0	mg/kg	250	B0A2004	ZZZ	01/20/2020	01/21/2020	
Benzene	1.07	0.498	"	"	"	ZZZ	"	"	
Toluene	ND	0.498	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.88	0.498	"	"	"	ZZZ	"	"	
Xylenes, total	25.0	0.498	"	"	"	ZZZ	"	"	
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 106 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

W01@4'

1/20/2020 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001254-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2008	KDK	01/20/2020	01/20/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 75.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2004	ZZZ	01/20/2020	01/21/2020	U
Benzene	0.180	0.050	"	"	"	ZZZ	"	"	
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 99.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 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
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Batch B0A2004 - EPA 5030 (soil)

Blank (B0A2004-BLK1)

Prepared: 01/20/2020 Analyzed: 01/20/2020

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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.4		70-130			

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0A2004 - EPA 5030 (soil)

LCS (B0A2004-BS1)

Prepared: 01/20/2020 Analyzed: 01/20/2020

Benzene	0.095	0.002	mg/kg	0.100		95.3	70-130			
Toluene	0.099	0.002	"	0.100		99.4	70-130			
Ethylbenzene	0.094	0.002	"	0.100		94.1	70-130			
m,p-Xylene	0.212	0.004	"	0.200		106	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Naphthalene	0.104	0.008	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	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
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Batch B0A2004 - EPA 5030 (soil)

Matrix Spike (B0A2004-MS1)	Source: Y001243-03			Prepared: 01/20/2020 Analyzed: 01/20/2020						
Benzene	0.117	0.002	mg/kg	0.100	ND	117	70-130			
Toluene	0.129	0.002	"	0.100	0.004	125	70-130			
Ethylbenzene	0.120	0.002	"	0.100	ND	120	70-130			
m,p-Xylene	0.268	0.004	"	0.200	0.008	130	70-130			
o-Xylene	0.127	0.002	"	0.100	ND	127	70-130			
Naphthalene	0.111	0.008	"	0.100	0.005	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	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
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Batch B0A2004 - EPA 5030 (soil)

Matrix Spike Dup (B0A2004-MSD1)	Source: Y001243-03			Prepared: 01/20/2020 Analyzed: 01/20/2020						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	70-130	0.671	20	
Toluene	0.130	0.002	"	0.100	0.004	126	70-130	1.13	20	
Ethylbenzene	0.121	0.002	"	0.100	ND	121	70-130	1.08	20	
m,p-Xylene	0.272	0.004	"	0.200	0.008	132	70-130	1.43	20	QM-07
o-Xylene	0.127	0.002	"	0.100	ND	127	70-130	0.126	20	
Naphthalene	0.112	0.008	"	0.100	0.005	107	70-130	0.918	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0A2008 - EPA 3580										
Blank (B0A2008-BLK1)										
					Prepared: 01/20/2020 Analyzed: 01/20/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		96.7	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
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Batch B0A2008 - EPA 3580

LCS (B0A2008-BS1)

Prepared: 01/20/2020 Analyzed: 01/20/2020

Diesel (C10-C28)	1180	50.0	mg/kg	1000		118	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

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Maggie Graham
 Project Number: 2156293
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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 B0A2008 - EPA 3580										
Matrix Spike (B0A2008-MS1)		Source: Y001251-01			Prepared: 01/20/2020 Analyzed: 01/20/2020					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000	ND	94.4	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.6	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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0A2008 - EPA 3580										
Matrix Spike Dup (B0A2008-MSD1)					Source: Y001251-01					Prepared: 01/20/2020 Analyzed: 01/20/2020
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130	5.17	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	11.2	35	
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

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.



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



February 21, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farm UPRR 41-33 **Project Number - 2156293**

Attached are your analytical results for KMG - Sweet Valley Farm UPRR 41-33 received by Origins Laboratory, Inc. February 18, 2020. This project is associated with Origins project number Y002232-01.

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: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@14'	Y002232-01	Soil	February 18, 2020 14:50	02/18/2020 16:05
S02@8'	Y002232-02	Soil	February 18, 2020 14:55	02/18/2020 16:05

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: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002232

Client: Apex

Client Project ID: Sweet Valley Farm

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 2/18/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °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 ⁽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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 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 [Signature] (Project Manager)

2/18/20
 Date/Time Reviewed

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

B02@14'
2/18/2020 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002232-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	931	25.0	mg/kg	1	B0B1809	KDK	02/18/2020	02/18/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1750	50.0	mg/kg	250	B0B1808	KDK	02/18/2020	02/18/2020	
Benzene	2.36	0.498	"	"	"	KDK	"	"	
Toluene	0.117	0.050	"	25	"	KDK	"	02/19/2020	
Ethylbenzene	8.84	0.498	"	250	"	KDK	"	02/18/2020	
Xylenes, total	119	0.498	"	"	"	KDK	"	"	
Naphthalene	0.552	0.200	"	25	"	KDK	"	02/19/2020	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " 02/18/2020

Surrogate: Toluene-d8 107 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.71		me/L	1	[none]		02/19/2020	02/21/2020	
Magnesium	1.24		"	"	"		"	"	
Sodium	4.17		"	"	"		"	"	

pH in Soil by EPA 9045D

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

B02@14'

2/18/2020 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002232-01 (Soil)

pH in Soil by EPA 9045D

pH	7.18		pH Units	1	B0B1810	TEM	02/18/2020	02/18/2020	
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SAR by 20B Saturated Paste

SAR	3.43			1	[none]		02/19/2020	02/21/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.117	0.00504	mmhos/cm	1	B0B1811	TEM	02/18/2020	02/18/2020	
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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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

S02@8'

2/18/2020 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002232-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	112	25.0	mg/kg	1	B0B1809	KDK	02/18/2020	02/18/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 76.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	355	5.00	mg/kg	25	B0B1808	KDK	02/18/2020	02/19/2020	
Benzene	0.184	0.050	"	"	"	KDK	"	"	
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	1.57	0.498	"	250	"	KDK	"	02/18/2020	
Xylenes, total	19.7	0.498	"	"	"	KDK	"	"	
Naphthalene	ND	0.200	"	25	"	KDK	"	02/19/2020	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " 02/18/2020
 Surrogate: Toluene-d8 98.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1808 - EPA 5030 (soil)

Blank (B0B1808-BLK1)

Prepared: 02/18/2020 Analyzed: 02/18/2020

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	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.4		70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1808 - EPA 5030 (soil)

LCS (B0B1808-BS1)

Prepared: 02/18/2020 Analyzed: 02/18/2020

Benzene	0.104	0.002	mg/kg	0.100		104	70-130			
Toluene	0.104	0.002	"	0.100		104	70-130			
Ethylbenzene	0.108	0.002	"	0.100		108	70-130			
m,p-Xylene	0.217	0.004	"	0.200		109	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Naphthalene	0.104	0.008	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1808 - EPA 5030 (soil)

Matrix Spike (B0B1808-MS1)	Source: Y002231-01			Prepared: 02/18/2020 Analyzed: 02/18/2020						
Benzene	0.098	0.002	mg/kg	0.100	0.076	21.7	70-130			QM-07
Toluene	0.097	0.002	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.099	0.002	"	0.100	0.008	91.0	70-130			
m,p-Xylene	0.203	0.004	"	0.200	0.018	92.3	70-130			
o-Xylene	0.096	0.002	"	0.100	ND	95.9	70-130			
Naphthalene	0.082	0.008	"	0.100	0.023	58.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1808 - EPA 5030 (soil)

Matrix Spike Dup (B0B1808-MSD1)	Source: Y002231-01			Prepared: 02/18/2020 Analyzed: 02/18/2020						
Benzene	0.099	0.002	mg/kg	0.100	0.076	22.1	70-130	0.467	20	QM-07
Toluene	0.097	0.002	"	0.100	ND	97.4	70-130	0.370	20	
Ethylbenzene	0.101	0.002	"	0.100	0.008	92.5	70-130	1.56	20	
m,p-Xylene	0.203	0.004	"	0.200	0.018	92.4	70-130	0.167	20	
o-Xylene	0.097	0.002	"	0.100	ND	97.3	70-130	1.39	20	
Naphthalene	0.084	0.008	"	0.100	0.023	60.6	70-130	2.20	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1809 - EPA 3550B										
Blank (B0B1809-BLK1)										
					Prepared: 02/18/2020 Analyzed: 02/18/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		85.0	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1809 - EPA 3550B

LCS (B0B1809-BS1)

Prepared: 02/18/2020 Analyzed: 02/18/2020

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000		89.0	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.5	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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1809 - EPA 3550B

Matrix Spike (B0B1809-MS1)	Source: Y002231-01			Prepared: 02/18/2020 Analyzed: 02/18/2020						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	900	200	"	1000	ND	90.0	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.2	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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1809 - EPA 3550B

Matrix Spike Dup (B0B1809-MSD1)	Source: Y002231-01			Prepared: 02/18/2020 Analyzed: 02/18/2020						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	7.69	35	
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	70-130	7.11	35	
Surrogate: o-Terphenyl	48		"	50.0		97.0	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.

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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

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.



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



February 25, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farm UPRR 41-33 **Project Number - 2156293**

Attached are your analytical results for KMG - Sweet Valley Farm UPRR 41-33 received by Origins Laboratory, Inc. February 19, 2020. This project is associated with Origins project number Y002251-01.

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: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y002251-01	Water	February 19, 2020 14:05	02/19/2020 15:40
B03@19'	Y002251-02	Soil	February 19, 2020 14:20	02/19/2020 15:40

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

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1002251

Client: Apex

Client Project ID: Sweet Valley Farms UPRR 41-

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 2/19/2020

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.8 °C _____ °C _____ °C (Describe) _____ °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 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 2/19/20

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

GW01

2/19/2020 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002251-01 (Water)

BTEX by EPA 8260D

Benzene	412	50.0	ug/L	50	B0B1901	KDK	02/19/2020	02/19/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	796	50.0	"	"	"	KDK	"	"	
Xylenes, total	5590	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Apex Companies, LLC
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 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

B03@19'
2/19/2020 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002251-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	307	25.0	mg/kg	1	B0B1907	KDK	02/19/2020	02/19/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 88.7% 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	755	50.0	mg/kg	250	B0B1912	KDK	02/19/2020	02/19/2020	
Benzene	ND	0.050	"	25	"	KDK	"	02/19/2020	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	2.39	0.050	"	"	"	KDK	"	"	
Xylenes, total	10.1	0.050	"	"	"	KDK	"	"	
Naphthalene	0.302	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 107% 70-130 " " 02/19/2020
 Surrogate: Toluene-d8 99.4% 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0% 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.63		me/L	1	[none]		02/20/2020	02/24/2020	
Magnesium	2.90		"	"	"		"	"	
Sodium	4.84		"	"	"		"	"	

pH in Soil by EPA 9045D

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

B03@19'

2/19/2020 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002251-02 (Soil)

pH in Soil by EPA 9045D

pH	8.47		pH Units	1	B0B1913	DJL	02/19/2020	02/19/2020	
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SAR by 20B Saturated Paste

SAR	2.91			1	[none]		02/20/2020	02/24/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0665	0.00500	mmhos/cm	1	B0B1914	DJL	02/19/2020	02/19/2020	
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Apex Companies, LLC
 4150 Darley Avenue, Suite 1
 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1901 - EPA 5030B (Water)

Blank (B0B1901-BLK1)

Prepared: 02/19/2020 Analyzed: 02/19/2020

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	68		"	62.5	109		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6		70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1901 - EPA 5030B (Water)

LCS (B0B1901-BS1)

Prepared: 02/19/2020 Analyzed: 02/19/2020

Benzene	54.5	1.00	ug/L	50.0		109	70-130			
Toluene	54.4	1.00	"	50.0		109	70-130			
Ethylbenzene	54.3	1.00	"	50.0		109	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
o-Xylene	57.7	1.00	"	50.0		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1901 - EPA 5030B (Water)

Matrix Spike (B0B1901-MS1)	Source: Y002233-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Benzene	57.3	1.00	ug/L	50.0	ND	115	70-130			
Toluene	59.3	1.00	"	50.0	ND	119	70-130			
Ethylbenzene	60.2	1.00	"	50.0	0.120	120	70-130			
m,p-Xylene	123	2.00	"	100	ND	123	70-130			
o-Xylene	60.1	1.00	"	50.0	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1901 - EPA 5030B (Water)

Matrix Spike Dup (B0B1901-MSD1)	Source: Y002233-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Benzene	56.8	1.00	ug/L	50.0	ND	114	70-130	0.947	20	
Toluene	57.7	1.00	"	50.0	ND	115	70-130	2.70	20	
Ethylbenzene	59.5	1.00	"	50.0	0.120	119	70-130	1.19	20	
m,p-Xylene	122	2.00	"	100	ND	122	70-130	1.54	20	
o-Xylene	59.8	1.00	"	50.0	ND	120	70-130	0.400	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

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Apex Companies, LLC
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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1907 - EPA 3580										
Blank (B0B1907-BLK1)										
					Prepared: 02/19/2020 Analyzed: 02/19/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		79.7	50-150			

Origins Laboratory, Inc.



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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1907 - EPA 3580										
LCS (B0B1907-BS1)										
					Prepared: 02/19/2020 Analyzed: 02/19/2020					
Diesel (C10-C28)	879	50.0	mg/kg	1000		87.9	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000		87.6	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.9	50-150			

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1907 - EPA 3580

Matrix Spike (B0B1907-MS1)	Source: Y002242-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
<i>Surrogate: o-Terphenyl</i>	63		"	50.0		125	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1907 - EPA 3580										
Matrix Spike Dup (B0B1907-MSD1)		Source: Y002242-01			Prepared: 02/19/2020 Analyzed: 02/19/2020					
Diesel (C10-C28)	841	50.0	mg/kg	1000	ND	84.1	70-130	33.0	35	
Residual Range Organics (C28-C40)	820	200	"	1000	ND	82.0	70-130	37.7	35	QR-02
Surrogate: o-Terphenyl	49		"	50.0		97.2	50-150			

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 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1912 - EPA 5030 (soil)

Blank (B0B1912-BLK1)

Prepared: 02/19/2020 Analyzed: 02/19/2020

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		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1912 - EPA 5030 (soil)

LCS (B0B1912-BS1)

Prepared: 02/19/2020 Analyzed: 02/19/2020

Benzene	0.099	0.002	mg/kg	0.100		98.6	70-130			
Toluene	0.101	0.002	"	0.100		101	70-130			
Ethylbenzene	0.102	0.002	"	0.100		102	70-130			
m,p-Xylene	0.211	0.004	"	0.200		105	70-130			
o-Xylene	0.102	0.002	"	0.100		102	70-130			
Naphthalene	0.082	0.008	"	0.100		81.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
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 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1912 - EPA 5030 (soil)

Matrix Spike (B0B1912-MS1)	Source: Y002250-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	70-130			
Toluene	0.110	0.002	"	0.100	ND	110	70-130			
Ethylbenzene	0.113	0.002	"	0.100	ND	113	70-130			
m,p-Xylene	0.231	0.004	"	0.200	ND	116	70-130			
o-Xylene	0.113	0.002	"	0.100	ND	113	70-130			
Naphthalene	0.102	0.008	"	0.100	0.025	77.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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 Boulder CO 80305

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B1912 - EPA 5030 (soil)

Matrix Spike Dup (B0B1912-MSD1)	Source: Y002250-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	0.613	20	
Toluene	0.110	0.002	"	0.100	ND	110	70-130	0.146	20	
Ethylbenzene	0.113	0.002	"	0.100	ND	113	70-130	0.620	20	
m,p-Xylene	0.231	0.004	"	0.200	ND	116	70-130	0.0432	20	
o-Xylene	0.114	0.002	"	0.100	ND	114	70-130	1.00	20	
Naphthalene	0.107	0.008	"	0.100	0.025	81.8	70-130	4.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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 02, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farms UPRR Project Number - 2156293

Attached are your analytical results for KMG - Sweet Valley Farms UPRR received by Origins Laboratory, Inc. February 21, 2020. This project is associated with Origins project number Y002310-01.

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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farms UPRR

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@8'	Y002310-01	Soil	February 21, 2020 15:35	02/21/2020 17:25
B04@19'	Y002310-02	Soil	February 21, 2020 15:39	02/21/2020 17:25
E02@8'	Y002310-03	Soil	February 21, 2020 15:40	02/21/2020 17:25
S03@8'	Y002310-04	Soil	February 21, 2020 15:42	02/21/2020 17:25

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: 2156293
 Project: KMG - Sweet Valley Farms UPRR

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002310

Client: Apex
 Client Project ID: Sweet Valley Farm

Checklist Completed by: JG
 Date/time completed: 2/21/2020

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 5.3 °C 1 °C 1 °C 1 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 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 2/21/20

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

N02@8'

2/21/2020 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002310-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	35.9	25.0	mg/kg	1	B0B2105	KDK	02/21/2020	02/21/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 70.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	14.4	5.00	mg/kg	25	B0B2106	KDK	02/21/2020	02/21/2020	
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 101 % 70-130 " " "
 Surrogate: Toluene-d8 97.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.1 % 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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

B04@19'
2/21/2020 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002310-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B2105	KDK	02/21/2020	02/21/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 70.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B2106	KDK	02/21/2020	02/21/2020	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 105 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.9 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	8.68		me/L	1	[none]		02/25/2020	02/27/2020	
Magnesium	4.68		"	"	"		"	"	
Sodium	5.99		"	"	"		"	"	

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

B04@19'

2/21/2020 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002310-02 (Soil)

pH in Soil by EPA 9045D

pH	7.56		pH Units	1	B0B2110	DJL	02/21/2020	02/21/2020	
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SAR by 20B Saturated Paste

SAR	2.32			1	[none]		02/25/2020	02/27/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.116	0.00502	mmhos/cm	1	B0B2109	DJL	02/21/2020	02/21/2020	
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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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

E02@8'

2/21/2020 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002310-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	37.7	25.0	mg/kg	1	B0B2105	KDK	02/21/2020	02/21/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 70.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	29.8	5.00	mg/kg	25	B0B2106	KDK	02/21/2020	02/22/2020	
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 99.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.3 % 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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

S03@8'

2/21/2020 3:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002310-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	92.6	25.0	mg/kg	1	B0B2105	KDK	02/21/2020	02/21/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	6.30	5.00	mg/kg	25	B0B2106	KDK	02/21/2020	02/22/2020	
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 104 % 70-130 " " "
 Surrogate: Toluene-d8 98.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2105 - EPA 3580										
Blank (B0B2105-BLK1)										
					Prepared: 02/21/2020 Analyzed: 02/21/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		95.3	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2105 - EPA 3580

LCS (B0B2105-BS1)

Prepared: 02/21/2020 Analyzed: 02/21/2020

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	921	200	"	1000		92.1	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.2	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2105 - EPA 3580

Matrix Spike (B0B2105-MS1)	Source: Y002259-01			Prepared: 02/21/2020 Analyzed: 02/21/2020						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	896	200	"	1000	ND	89.6	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.8	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2105 - EPA 3580

Matrix Spike Dup (B0B2105-MSD1)	Source: Y002259-01		Prepared: 02/21/2020 Analyzed: 02/21/2020							
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130	6.21	35	
Residual Range Organics (C28-C40)	865	200	"	1000	ND	86.5	70-130	3.49	35	
Surrogate: o-Terphenyl	47		"	50.0		93.1	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2106 - EPA 5030 (soil)

Blank (B0B2106-BLK1)

Prepared: 02/21/2020 Analyzed: 02/21/2020

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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2106 - EPA 5030 (soil)

LCS (B0B2106-BS1)

Prepared: 02/21/2020 Analyzed: 02/21/2020

Benzene	0.092	0.002	mg/kg	0.100		91.5	70-130			
Toluene	0.094	0.002	"	0.100		94.1	70-130			
Ethylbenzene	0.095	0.002	"	0.100		94.7	70-130			
m,p-Xylene	0.197	0.004	"	0.200		98.4	70-130			
o-Xylene	0.098	0.002	"	0.100		98.4	70-130			
Naphthalene	0.101	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	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.

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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2106 - EPA 5030 (soil)

Matrix Spike (B0B2106-MS1)	Source: Y002304-01			Prepared: 02/21/2020 Analyzed: 02/21/2020						
Benzene	0.088	0.002	mg/kg	0.100	ND	88.2	70-130			
Toluene	0.093	0.002	"	0.100	ND	93.4	70-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	99.8	70-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	102	70-130			
o-Xylene	0.098	0.002	"	0.100	ND	97.5	70-130			
Naphthalene	0.084	0.008	"	0.100	0.020	64.3	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2106 - EPA 5030 (soil)

Matrix Spike Dup (B0B2106-MSD1)	Source: Y002304-01			Prepared: 02/21/2020 Analyzed: 02/21/2020						
Benzene	0.085	0.002	mg/kg	0.100	ND	85.3	70-130	3.37	20	
Toluene	0.090	0.002	"	0.100	ND	90.1	70-130	3.64	20	
Ethylbenzene	0.096	0.002	"	0.100	ND	96.2	70-130	3.65	20	
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	70-130	3.35	20	
o-Xylene	0.094	0.002	"	0.100	ND	93.8	70-130	3.93	20	
Naphthalene	0.085	0.008	"	0.100	0.020	66.0	70-130	2.01	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.6	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farms UPRR

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 B0B2109 - NO PREP

Blank (B0B2109-BLK1)

Prepared: 02/21/2020 Analyzed: 02/21/2020

Specific Conductance (EC) 0.00340 0.00500 mmhos/cm

Duplicate (B0B2109-DUP1)

Source: Y002304-01

Prepared: 02/21/2020 Analyzed: 02/21/2020

Specific Conductance (EC) 0.344 0.00500 mmhos/cm 0.346 0.377 25

Batch B0B2110 - NO PREP

Duplicate (B0B2110-DUP1)

Source: Y002304-01

Prepared: 02/21/2020 Analyzed: 02/21/2020

pH 8.24 pH Units 8.24 0.00 25

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farms UPRR

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.



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

March 02, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farm UPRR 41-33 **Project Number - 90143048**

Attached are your analytical results for KMG - Sweet Valley Farm UPRR 41-33 received by Origins Laboratory, Inc. February 25, 2020. This project is associated with Origins project number Y002361-01.

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

Maggie Graham
Project Number: 90143048
Project: KMG - Sweet Valley Farm UPRR 41-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S04@8'	Y002361-01	Soil	February 25, 2020 14:45	02/25/2020 16:40
N03@8'	Y002361-02	Soil	February 25, 2020 14:50	02/25/2020 16:40
B05@19'	Y002361-03	Soil	February 25, 2020 14:53	02/25/2020 16:40
W02@8'	Y002361-04	Soil	February 25, 2020 15:10	02/25/2020 16:40
W03@8'	Y002361-05	Soil	February 25, 2020 15:15	02/25/2020 16:40

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: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002361

Client: Apex

Client Project ID: Sweet Valley Farms UPRR

Checklist Completed by: JG

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

Date/time completed: 2/25/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.9 °C 1 °C 1 °C (Describe) 1 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 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)

Date/Time Reviewed 2/25/20

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

S04@8'

2/25/2020 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002361-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B2515	KDK	02/25/2020	02/25/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 78.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B2514	KDK	02/25/2020	02/25/2020	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 119 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

N03@8'

2/25/2020 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002361-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	58.8	25.0	mg/kg	1	B0B2515	KDK	02/25/2020	02/25/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 87.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B2514	KDK	02/25/2020	02/25/2020	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 121 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

B05@19'
2/25/2020 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002361-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	435	25.0	mg/kg	1	B0B2515	KDK	02/25/2020	02/25/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 84.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	84.8	50.0	mg/kg	250	B0B2514	KDK	02/25/2020	02/25/2020	
Benzene	0.705	0.498	"	"	"	KDK	"	"	
Toluene	ND	0.050	"	25	"	KDK	"	"	U
Ethylbenzene	2.36	0.498	"	250	"	KDK	"	"	
Xylenes, total	11.7	0.498	"	"	"	KDK	"	"	
Naphthalene	0.202	0.200	"	25	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.89		me/L	1	[none]		02/26/2020	02/28/2020	
Magnesium	1.43		"	"	"		"	"	
Sodium	4.78		"	"	"		"	"	

pH in Soil by EPA 9045D

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

B05@19'

2/25/2020 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002361-03 (Soil)

pH in Soil by EPA 9045D

pH	7.19		pH Units	1	B0B2507	DJL	02/25/2020	02/25/2020	
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SAR by 20B Saturated Paste

SAR	3.71			1	[none]		02/26/2020	02/28/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.175	0.00500	mmhos/cm	1	B0B2508	DJL	02/25/2020	02/25/2020	
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Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

W02@8'

2/25/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002361-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	30.5	25.0	mg/kg	1	B0B2515	KDK	02/25/2020	02/25/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 78.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B2514	KDK	02/25/2020	02/25/2020	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 118 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

W03@8'

2/25/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002361-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	29.6	25.0	mg/kg	1	B0B2515	KDK	02/25/2020	02/25/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 76.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	8.18	5.00	mg/kg	25	B0B2514	KDK	02/25/2020	02/25/2020	
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 118 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2514 - EPA 5030 (soil)

Blank (B0B2514-BLK1)

Prepared: 02/25/2020 Analyzed: 02/25/2020

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	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2514 - EPA 5030 (soil)

LCS (B0B2514-BS1)

Prepared: 02/25/2020 Analyzed: 02/25/2020

Benzene	0.113	0.002	mg/kg	0.100		113	70-130			
Toluene	0.113	0.002	"	0.100		113	70-130			
Ethylbenzene	0.113	0.002	"	0.100		113	70-130			
m,p-Xylene	0.230	0.004	"	0.200		115	70-130			
o-Xylene	0.113	0.002	"	0.100		113	70-130			
Naphthalene	0.101	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2514 - EPA 5030 (soil)

Matrix Spike (B0B2514-MS1)	Source: Y002358-03			Prepared: 02/25/2020 Analyzed: 02/25/2020						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.114	0.002	"	0.100	ND	114	70-130			
Ethylbenzene	0.114	0.002	"	0.100	ND	114	70-130			
m,p-Xylene	0.239	0.004	"	0.200	ND	120	70-130			
o-Xylene	0.112	0.002	"	0.100	ND	112	70-130			
Naphthalene	0.095	0.008	"	0.100	ND	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2514 - EPA 5030 (soil)

Matrix Spike Dup (B0B2514-MSD1)		Source: Y002358-03			Prepared: 02/25/2020 Analyzed: 02/25/2020					
Benzene	0.089	0.002	mg/kg	0.100	ND	88.7	70-130	13.5	20	
Toluene	0.099	0.002	"	0.100	ND	99.1	70-130	14.1	20	
Ethylbenzene	0.095	0.002	"	0.100	ND	94.9	70-130	17.9	20	
m,p-Xylene	0.203	0.004	"	0.200	ND	102	70-130	16.1	20	
o-Xylene	0.097	0.002	"	0.100	ND	97.2	70-130	14.1	20	
Naphthalene	0.067	0.008	"	0.100	ND	66.6	70-130	35.2	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.1	70-130			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2515 - EPA 3550B										
Blank (B0B2515-BLK1)										
					Prepared: 02/25/2020 Analyzed: 02/25/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		82.1	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2515 - EPA 3550B

LCS (B0B2515-BS1)

Prepared: 02/25/2020 Analyzed: 02/25/2020

Diesel (C10-C28)	1170	50.0	mg/kg	1000		117	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2515 - EPA 3550B										
Matrix Spike (B0B2515-MS1)		Source: Y002358-03			Prepared: 02/25/2020 Analyzed: 02/25/2020					
Diesel (C10-C28)	995	50.0	mg/kg	1000	ND	99.5	70-130			
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.1	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
 Project Number: 90143048
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2515 - EPA 3550B										
Matrix Spike Dup (B0B2515-MSD1)		Source: Y002358-03			Prepared: 02/25/2020 Analyzed: 02/25/2020					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	11.5	35	
Residual Range Organics (C28-C40)	981	200	"	1000	ND	98.1	70-130	9.75	35	
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

Origins Laboratory, Inc.



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

Maggie Graham
Project Number: 90143048
Project: KMG - Sweet Valley Farm UPRR 41-33

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.



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.

February 27, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Sweet Valley Farm UPRR 41-33 **Project Number - 2156293**

Attached are your analytical results for KMG - Sweet Valley Farm UPRR 41-33 received by Origins Laboratory, Inc. February 26, 2020. This project is associated with Origins project number Y002378-01.

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

Maggie Graham
Project Number: 2156293
Project: KMG - Sweet Valley Farm UPRR 41-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S05@8	Y002378-01	Soil	February 26, 2020 13:15	02/26/2020 15:00
GW02	Y002378-02	Water	February 26, 2020 13:40	02/26/2020 15:00

Origins Laboratory, Inc.



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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4002378

Client: Apex

Client Project ID: KMG - Sweet Valley

Checklist Completed by: JP

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

Date/time completed: 2/26/20

Airbill #: NA

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

Cooler Number/Temperature: 1 7.4 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TC05

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"/>		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 checked="" type="checkbox"/>			<u>HCl</u>
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) JP

Date/Time Reviewed 2/26/20

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

S05@8

2/26/2020 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002378-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	51.3	25.0	mg/kg	1	B0B2610	KDK	02/26/2020	02/26/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 84.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	40.2	5.00	mg/kg	25	B0B2601	KDK	02/26/2020	02/27/2020	
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 100 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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Maggie Graham
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 Project: KMG - Sweet Valley Farm UPRR 41-33

GW02

2/26/2020 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002378-02 (Water)

BTEX by EPA 8260D

Benzene	154	4.00	ug/L	4	B0B2403	KDK	02/26/2020	02/27/2020	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	185	4.00	"	"	"	KDK	"	"	
Xylenes, total	705	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

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Maggie Graham
 Project Number: 2156293
 Project: KMG - Sweet Valley Farm UPRR 41-33

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 B0B2403 - EPA 5030B (Water)

Blank (B0B2403-BLK1)

Prepared: 02/24/2020 Analyzed: 02/25/2020

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	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	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
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Batch B0B2403 - EPA 5030B (Water)

LCS (B0B2403-BS1)

Prepared: 02/24/2020 Analyzed: 02/25/2020

Benzene	53.4	1.00	ug/L	50.0		107	70-130			
Toluene	53.8	1.00	"	50.0		108	70-130			
Ethylbenzene	52.2	1.00	"	50.0		104	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
o-Xylene	53.8	1.00	"	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Maggie Graham
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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
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Batch B0B2403 - EPA 5030B (Water)

Matrix Spike (B0B2403-MS1)	Source: Y002288-01			Prepared: 02/24/2020 Analyzed: 02/25/2020						
Benzene	55.6	1.00	ug/L	50.0	ND	111	70-130			
Toluene	55.6	1.00	"	50.0	ND	111	70-130			
Ethylbenzene	55.7	1.00	"	50.0	0.160	111	70-130			
m,p-Xylene	115	2.00	"	100	ND	115	70-130			
o-Xylene	56.3	1.00	"	50.0	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	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
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Batch B0B2403 - EPA 5030B (Water)

Matrix Spike Dup (B0B2403-MSD1)	Source: Y002288-01			Prepared: 02/24/2020 Analyzed: 02/25/2020						
Benzene	57.0	1.00	ug/L	50.0	ND	114	70-130	2.49	20	
Toluene	56.6	1.00	"	50.0	ND	113	70-130	1.68	20	
Ethylbenzene	56.4	1.00	"	50.0	0.160	112	70-130	1.18	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	1.07	20	
o-Xylene	58.7	1.00	"	50.0	ND	117	70-130	4.21	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	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
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Batch B0B2601 - EPA 5030 (soil)

Blank (B0B2601-BLK1)

Prepared: 02/26/2020 Analyzed: 02/26/2020

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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	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
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Batch B0B2601 - EPA 5030 (soil)

LCS (B0B2601-BS1)

Prepared: 02/26/2020 Analyzed: 02/26/2020

Benzene	0.098	0.002	mg/kg	0.100		98.3	70-130			
Toluene	0.104	0.002	"	0.100		104	70-130			
Ethylbenzene	0.100	0.002	"	0.100		100	70-130			
m,p-Xylene	0.209	0.004	"	0.200		105	70-130			
o-Xylene	0.100	0.002	"	0.100		100	70-130			
Naphthalene	0.098	0.008	"	0.100		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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
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Batch B0B2601 - EPA 5030 (soil)

Matrix Spike (B0B2601-MS1)	Source: Y002356-01			Prepared: 02/26/2020 Analyzed: 02/26/2020						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.2	70-130			
Toluene	0.100	0.002	"	0.100	ND	100	70-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.200	0.004	"	0.200	ND	100	70-130			
o-Xylene	0.097	0.002	"	0.100	ND	97.4	70-130			
Naphthalene	0.101	0.008	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	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
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Batch B0B2601 - EPA 5030 (soil)

Matrix Spike Dup (B0B2601-MSD1)	Source: Y002356-01			Prepared: 02/26/2020 Analyzed: 02/26/2020						
Benzene	0.094	0.002	mg/kg	0.100	ND	93.9	70-130	1.37	20	
Toluene	0.098	0.002	"	0.100	ND	97.9	70-130	2.40	20	
Ethylbenzene	0.096	0.002	"	0.100	ND	96.2	70-130	0.458	20	
m,p-Xylene	0.200	0.004	"	0.200	ND	100	70-130	0.00998	20	
o-Xylene	0.097	0.002	"	0.100	ND	97.3	70-130	0.164	20	
Naphthalene	0.095	0.008	"	0.100	ND	95.4	70-130	5.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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
Batch B0B2610 - EPA 3580										
Blank (B0B2610-BLK1)										
					Prepared: 02/26/2020 Analyzed: 02/26/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		81.0	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 B0B2610 - EPA 3580										
LCS (B0B2610-BS1)										
					Prepared: 02/26/2020 Analyzed: 02/26/2020					
Diesel (C10-C28)	888	50.0	mg/kg	1000		88.8	70-130			
Residual Range Organics (C28-C40)	964	200	"	1000		96.4	70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

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Maggie Graham
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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
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Batch B0B2610 - EPA 3580

Matrix Spike (B0B2610-MS1)	Source: Y002385-01			Prepared: 02/26/2020 Analyzed: 02/26/2020						
Diesel (C10-C28)	950	50.0	mg/kg	1000	ND	95.0	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
<i>Surrogate: o-Terphenyl</i>	53		"	50.0		106	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
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Batch B0B2610 - EPA 3580

Matrix Spike Dup (B0B2610-MSD1)	Source: Y002385-01		Prepared: 02/26/2020 Analyzed: 02/26/2020							
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	12.7	35	
Residual Range Organics (C28-C40)	1180	200	"	1000	ND	118	70-130	9.23	35	
Surrogate: o-Terphenyl	64		"	50.0		128	50-150			

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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 For Noelle Doyle Mathis, President