

ANALYTICAL TABLE

TABLE 1
CARTER 10-32
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	EC (mmhos/cm)	pH (units)
COGCC standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500			4 mmhos/cm or 2x BG	6-9
SS01@1.5'	06/23/16	1.5	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	0.0607	8.80
SS02@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0838	8.61
SS03@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	0.056	19.9	81.4	<100	0.0944	8.64
SS04@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0886	8.80
SS05@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.104	9.02
SS06@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	51.9	<100	0.163	8.86
SS07@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	180	<100	0.169	8.72
SS08@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.154	9.04
SS09@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.101	9.05
SS10@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0678	8.88
SS11@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.128	9.27
SS12@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0436	8.93
SS13@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	178	126	0.0783	8.53
SS14@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.134	7.80
SS15@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0716	8.71
SS16@1.5'	06/23/16	1.5	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.199	8.53
SS17@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.162	8.69
SS18@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.196	8.58
SS19@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.196	8.22
SS20@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.201	8.70
SS21@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0508	8.74
SS22@2'	06/23/16	2	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	0.0625	8.61
SS05@3'	06/24/16	3.0	NA	NA	NA	NA	NA	NA	NA	NA	9.31*
SS08@3'	06/24/16	3.0	NA	NA	NA	NA	NA	NA	NA	NA	9.26*
SS09@3'	06/24/16	3.0	NA	NA	NA	NA	NA	NA	NA	NA	9.32*
SS11@3'	06/24/16	3.0	NA	NA	NA	NA	NA	NA	NA	NA	9.51*

Notes:

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective January 1, 2015.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

EC = Electrical conductivity

BG = Background

mmhos/cm = Millimhos per centimeter

mg/kg = Milligrams per kilogram.

ft. bgs = Feet below ground surface.

* = Soil sample collected from below the designated root zone.

NA = Not analyzed.

BOLD = Analytical result is in exceedance of COGCC Table 910-1 soil standards.

LABORATORY ANALYTICAL REPORTS

June 24, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Carter 10-32

Project Number - [none]

Attached are your analytical results for KMG - Carter 10-32 received by Origins Laboratory, Inc. June 23, 2016. This project is associated with Origins project number X606281-01.

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



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01 @ 1.5'	X606281-01	Soil	June 23, 2016 14:12	06/23/2016 17:23
SS02 @ 1.5'	X606281-02	Soil	June 23, 2016 14:14	06/23/2016 17:23
SS03 @ 1.5'	X606281-03	Soil	June 23, 2016 14:16	06/23/2016 17:23
SS04 @ 1.5'	X606281-04	Soil	June 23, 2016 14:18	06/23/2016 17:23
SS05 @ 1.5'	X606281-05	Soil	June 23, 2016 14:17	06/23/2016 17:23
SS06 @ 1.5'	X606281-06	Soil	June 23, 2016 14:20	06/23/2016 17:23
SS07 @ 1.5'	X606281-07	Soil	June 23, 2016 14:22	06/23/2016 17:23
SS08 @ 1.5'	X606281-08	Soil	June 23, 2016 14:24	06/23/2016 17:23
SS09 @ 1.5'	X606281-09	Soil	June 23, 2016 14:26	06/23/2016 17:23
SS10 @ 1.5'	X606281-10	Soil	June 23, 2016 14:28	06/23/2016 17:23

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS11 @ 1.5'	X606281-11	Soil	June 23, 2016 14:30	06/23/2016 17:23
SS12 @ 1.5'	X606281-12	Soil	June 23, 2016 14:32	06/23/2016 17:23
SS13 @ 1.5'	X606281-13	Soil	June 23, 2016 14:34	06/23/2016 17:23
SS14 @ 1.5'	X606281-14	Soil	June 23, 2016 14:36	06/23/2016 17:23
SS15 @ 1.5'	X606281-15	Soil	June 23, 2016 14:38	06/23/2016 17:23
SS16 @ 1.5'	X606281-16	Soil	June 23, 2016 14:40	06/23/2016 17:23
SS17 @ 2'	X606281-17	Soil	June 23, 2016 14:42	06/23/2016 17:23
SS18 @ 2'	X606281-18	Soil	June 23, 2016 14:44	06/23/2016 17:23
SS19 @ 2'	X606281-19	Soil	June 23, 2016 14:46	06/23/2016 17:23
SS20 @ 2'	X606281-20	Soil	June 23, 2016 14:48	06/23/2016 17:23

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS21 @ 2'	X606281-21	Soil	June 23, 2016 14:50	06/23/2016 17:23
SS22 @ 2'	X606281-22	Soil	June 23, 2016 14:52	06/23/2016 17:23

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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page 1 of 3



X606281

Client: Tasman Geosciences
 Address: [Redacted]
 Telephone Number: (352) 262-9910
 Email Address: bobcornez@tasman-geo.com

Project Manager: Bob Cornez
 Project Name: Carter 10-32
 Project Number: [Redacted]
 Samples Collected By: Kate Foussanville

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Continer #	Other	Analysis		Analysis	
SS012 1.5'	6/23/16	1412	2	X				X						1	
SS022 1.5'	6/23/16	1414	2	X				X						2	
SS032 1.5'	6/23/16	1416	2	X				X						3	
SS042 1.5'	6/23/16	1418	2	X				X						4	
SS052 1.5'	6/23/16	1417	2	X				X						5	
SS062 1.5'	6/23/16	1420	2	X				X						6	
SS072 1.5'	6/23/16	1422	2	X				X						7	
SS082 1.5'	6/23/16	1424	2	X				X						8	
SS092 1.5'	6/23/16	1426	2	X				X						9	
SS102 1.5'	6/23/16	1428	2	X				X						10	
Relinquished By: [Signature]	Date: 6/23/16	Time: 1655						Received By: [Signature]	Date: 6-23-16	Time: 1723			Turnaround Time: Same Day		
Relinquished By: [Signature]	Date: [Redacted]	Time: [Redacted]						Received By: [Redacted]	Date: [Redacted]	Time: [Redacted]			48 Hr		
													72 Hr		
													Standard		

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

Date Results Needed: [Redacted]

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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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X605281

page 2 of 3

ORIGINS
 LABORATORY, INC

Client: Tasman Geosciences
 Address: _____
 Telephone Number: 352 262 9910
 Email Address: bobcornez@tasman-geo.com

Project Manager: Bob Cornez
 Project Name: Calki 10-32
 Project Number: _____
 Samples Collected By: KAT FOSMOT

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Sunlight	Other	Gravel	TPH/PCOL	ORP		EC	HAZ	
SS1101.5'	6/23/16	1430	2	X				X				X	X	X				
SS1201.5'	6/23/16	1432	2	X				X				X	X	X				
SS1301.5'	6/23/16	1434	2	X				X				X	X	X				
SS1401.5'	6/23/16	1436	2	X				X				X	X	X				
SS1501.5'	6/23/16	1438	2	X				X				X	X	X				
SS1601.5'	6/23/16	1440	2	X				X				X	X	X				
SS1702'	6/23/16	1442	2	X				X				X	X	X				
SS1802'	6/23/16	1444	2	X				X				X	X	X				
SS1902'	6/23/16	1446	2	X				X				X	X	X				
SS2002'	6/23/16	1448	2	X				X				X	X	X				
Relinquished By: <i>[Signature]</i>	Date: 6/23/16	Time: 1655	Received By: <i>[Signature]</i>	Date: 6/23/16	Time: 1723	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>												
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____													

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

Temp Received: 1.6 Date Results Needed: _____

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32



X606781

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page 3 of 3

Client: Tasman Geosciences
 Project Manager: Bob Cornez
 Address: _____
 Project Name: Carter 10-32
 Telephone Number: 3522629910
 Project Number: _____
 Email Address: COA.NC@TASMAN.GEOL.COM
 Samples Collected By: Kate Forman

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			Analyst	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Al ₂ SiO ₅ Consider #			Other
552202	4/23/16	1450	2	X				X			X	1	
552202	4/23/16	1452	2	X				X			X	2	
Rooper-Hud	4/23/16	1510	1	X				X			X	3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>[Signature]</u>	Date: <u>4/23/16</u>	Time: <u>1655</u>	Received By: <u>[Signature]</u>	Date: <u>6/23/16</u>	Time: <u>1723</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____								

Temp Received: 4/16 Date Results Needed: _____

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X606281

Client: Tasman

Client Project ID: Carter 10-32

Checklist Completed by: Jeff Smith

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

Date/time completed: 6/23/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4°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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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.

Jeff Smith
 Reviewed by (Project Manager)

6/23/16
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS01 @ 1.5'
6/23/2016 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 97.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0607		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS02 @ 1.5'
6/23/2016 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0838		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS03 @ 1.5'
6/23/2016 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	81.4	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	19.9	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.056	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.64		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0944		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS04 @ 1.5'
6/23/2016 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0886		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS05 @ 1.5'
6/23/2016 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.02		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.104		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS06 @ 1.5'
6/23/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	51.9	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 67.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
 Surrogate: Toluene-d8 99.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.86		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.163		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS07 @ 1.5'
6/23/2016 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	180	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 81.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 119 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.72		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.169		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS08 @ 1.5'
6/23/2016 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.04		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.154		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS09 @ 1.5'
6/23/2016 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.05		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.101		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS10 @ 1.5'
6/23/2016 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.88		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0678		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS11 @ 1.5'
6/23/2016 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.27		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.128		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS12 @ 1.5'
6/23/2016 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.93		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0436		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS13 @ 1.5'
6/23/2016 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	178	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	
Residual Range Organics (C28-C40)	126	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 84.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.53		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0783		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS14 @ 1.5'
6/23/2016 2:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.80		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.134		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS15 @ 1.5'
6/23/2016 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.71		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0716		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS16 @ 1.5'
6/23/2016 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.53		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.199		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS17 @ 2'
 6/23/2016 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X606281-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.69		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.162		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS18 @ 2'
6/23/2016 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.58		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.196		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS19 @ 2'
6/23/2016 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.22		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.196		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS20 @ 2'
6/23/2016 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-20 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 119 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.70		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.201		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS21 @ 2'
6/23/2016 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-21 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.74		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0508		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

SS22 @ 2'
6/23/2016 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606281-22 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2306	06/23/2016	06/24/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2305	06/23/2016	06/24/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	B6F2307	06/23/2016	06/23/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0625		mmhos/cm	"	B6F2308	06/23/2016	06/23/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2305 - EPA 5030 (soil)										
Blank (B6F2305-BLK1)										
					Prepared: 06/23/2016 Analyzed: 06/23/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2305 - EPA 5030 (soil)										
Blank (B6F2305-BLK2)										
					Prepared: 06/23/2016 Analyzed: 06/23/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

LCS (B6F2305-BS1)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Benzene	0.115	0.002	mg/kg	0.100		115	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.108	0.002	"	0.100		108	66.4-127			
m,p-Xylene	0.223	0.004	"	0.200		111	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

LCS (B6F2305-BS2)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Benzene	0.098	0.002	mg/kg	0.100		98.3	77.1-124			
Toluene	0.117	0.002	"	0.100		117	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.220	0.004	"	0.200		110	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

Matrix Spike (B6F2305-MS1)	Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016						
Benzene	0.322	0.002	mg/kg	0.100	0.119	203	71.8-126			QM-07
Toluene	0.398	0.002	"	0.100	0.165	232	65.1-130			QM-07
Ethylbenzene	0.114	0.002	"	0.100	0.005	109	62.2-130			
m,p-Xylene	0.331	0.004	"	0.200	0.061	135	46.5-137			
o-Xylene	0.132	0.002	"	0.100	0.014	118	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

Matrix Spike (B6F2305-MS2)	Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/23/2016						
Benzene	0.207	0.002	mg/kg	0.200	ND	103	71.8-126			
Toluene	0.239	0.002	"	0.200	ND	119	65.1-130			
Ethylbenzene	0.230	0.002	"	0.200	ND	115	62.2-130			
m,p-Xylene	0.466	0.004	"	0.400	ND	117	46.5-137			
o-Xylene	0.247	0.002	"	0.200	ND	123	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

Matrix Spike Dup (B6F2305-MSD1)	Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016						
Benzene	0.228	0.002	mg/kg	0.100	0.119	110	71.8-126	33.9	11.3	QR-03
Toluene	0.272	0.002	"	0.100	0.165	106	65.1-130	37.6	15.4	QR-03
Ethylbenzene	0.116	0.002	"	0.100	0.005	111	62.2-130	1.81	19.6	
m,p-Xylene	0.300	0.004	"	0.200	0.061	119	46.5-137	9.88	19.2	
o-Xylene	0.129	0.002	"	0.100	0.014	114	54.2-134	2.47	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2305 - EPA 5030 (soil)

Matrix Spike Dup (B6F2305-MSD2)	Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/23/2016						
Benzene	0.198	0.002	mg/kg	0.200	ND	99.0	71.8-126	4.39	11.3	
Toluene	0.234	0.002	"	0.200	ND	117	65.1-130	2.13	15.4	
Ethylbenzene	0.225	0.002	"	0.200	ND	112	62.2-130	2.46	19.6	
m,p-Xylene	0.448	0.004	"	0.400	ND	112	46.5-137	3.87	19.2	
o-Xylene	0.233	0.002	"	0.200	ND	116	54.2-134	5.87	17.9	
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2306 - EPA 3580

Blank (B6F2306-BLK1)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.5	59-131			

Blank (B6F2306-BLK2)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.5	59-131			

LCS (B6F2306-BS1)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Diesel (C10-C28)	838	50.0	mg/kg	1000		83.8	64-121			
Residual Range Organics (C28-C40)	940	200	"	1000		94.0	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

LCS (B6F2306-BS2)

Prepared: 06/23/2016 Analyzed: 06/23/2016

Diesel (C10-C28)	768	50.0	mg/kg	1000		76.8	64-121			
Residual Range Organics (C28-C40)	826	200	"	1000		82.6	58-124			
Surrogate: o-Terphenyl	38		"	50.0		76.5	59-131			

Matrix Spike (B6F2306-MS1)

Source: X606277-01

Prepared: 06/23/2016 Analyzed: 06/23/2016

Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	53-125			
Residual Range Organics (C28-C40)	963	200	"	1000	40.1	92.3	47-133			

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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2306 - EPA 3580										
Matrix Spike (B6F2306-MS1)		Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
Surrogate: o-Terphenyl	43		mg/kg	50.0		85.5	59-131			
Matrix Spike (B6F2306-MS2)		Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
Diesel (C10-C28)	915	50.0	mg/kg	1000	ND	91.5	53-125			
Residual Range Organics (C28-C40)	997	200	"	1000	40.3	95.7	47-133			
Surrogate: o-Terphenyl	49		"	50.0		97.6	59-131			
Matrix Spike Dup (B6F2306-MSD1)		Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	53-125	0.701	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	40.1	96.0	47-133	3.95	20	
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			
Matrix Spike Dup (B6F2306-MSD2)		Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/24/2016					
Diesel (C10-C28)	865	50.0	mg/kg	1000	ND	86.5	53-125	5.60	20	
Residual Range Organics (C28-C40)	950	200	"	1000	40.3	91.0	47-133	5.01	20	
Surrogate: o-Terphenyl	43		"	50.0		86.6	59-131			

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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2307 - NO PREP										
Duplicate (B6F2307-DUP1)		Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
pH	9.14		pH Units		9.13			0.109	25	
Duplicate (B6F2307-DUP2)		Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
pH	8.83		pH Units		8.80			0.340	25	
Batch B6F2308 - NO PREP										
Blank (B6F2308-BLK1)		Prepared: 06/23/2016 Analyzed: 06/23/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
Blank (B6F2308-BLK2)		Prepared: 06/23/2016 Analyzed: 06/23/2016								
Specific Conductance (EC)	0.00230		mmhos/cm							
Duplicate (B6F2308-DUP1)		Source: X606277-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
Specific Conductance (EC)	0.451		mmhos/cm		0.446			1.11	25	
Duplicate (B6F2308-DUP2)		Source: X606281-01			Prepared: 06/23/2016 Analyzed: 06/23/2016					
Specific Conductance (EC)	0.0579		mmhos/cm		0.0607			4.72	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

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.

Jen Pellegrini For Noelle Doyle Mathis, President

June 27, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Carter 10-32

Project Number - [none]

Attached are your analytical results for KMG - Carter 10-32 received by Origins Laboratory, Inc. June 24, 2016. This project is associated with Origins project number X606299-01.

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



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05 @ 3'	X606299-01	Soil	June 24, 2016 12:15	06/24/2016 15:57
SS08 @ 3'	X606299-02	Soil	June 24, 2016 12:20	06/24/2016 15:57
SS09 @ 3'	X606299-03	Soil	June 24, 2016 12:25	06/24/2016 15:57
SS11 @ 3'	X606299-04	Soil	June 24, 2016 12:30	06/24/2016 15:57

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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X606299

Client: Tasman

Client Project ID: Carter 10-32

Checklist Completed by: Jeff Smith

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

Date/time completed: 6/24/16

Airbill #: Wk

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

Cooler Number/Temperature: 1 / 1.3 °c 1 °c 1 °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
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.

[Signature]
 Reviewed by (Project Manager)

6/24/16
 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

SS05 @ 3'
6/24/2016 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606299-01 (Soil)

pH in Soil by EPA 9045D

pH	9.31		pH Units	1	B6F2401	06/24/2016	06/24/2016	
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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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

SS08 @ 3'
6/24/2016 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606299-02 (Soil)

pH in Soil by EPA 9045D

pH	9.26		pH Units	1	B6F2401	06/24/2016	06/24/2016	
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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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

SS09 @ 3'
6/24/2016 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606299-03 (Soil)

pH in Soil by EPA 9045D

pH	9.32		pH Units	1	B6F2401	06/24/2016	06/24/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

SS11 @ 3'
6/24/2016 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606299-04 (Soil)

pH in Soil by EPA 9045D

pH	9.51		pH Units	1	B6F2401	06/24/2016	06/24/2016	
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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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Carter 10-32

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 B6F2401 - NO PREP

Duplicate (B6F2401-DUP1)

Source: X606281-23

Prepared: 06/24/2016 Analyzed: 06/24/2016

pH	7.83		pH Units		7.93			1.27	25	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Carter 10-32

Notes and Definitions

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