

ANALYTICAL TABLE

TABLE 1
DEEPE 34C-27HZ
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
E01@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0281	7.94
E02@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0191	7.67
E03@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0159	7.35
N01@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0144	7.67
N02@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0182	7.35
S01@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0178	7.24
S02@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0199	7.39
S03@3'	04/15/16	3.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0446	7.02
S04@3'	04/15/16	3.0	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0273	7.17
W01@3'	04/15/16	3.0	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0269	7.12
W02@3'	04/15/16	3.0	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0132	7.39
W03@3'	04/15/16	3.0	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0235	7.25
W04@3'	04/15/16	3.0	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0123	7.36
B01@4.5'	04/15/16	4.5	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0238	7.36
B02@4.5'	04/15/16	4.5	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0166	7.61
B03@4.5'	04/15/16	4.5	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0210	7.22
B04@4.5'	04/15/16	4.5	<0.002	<0.002	<0.002	<0.002	<0.20	<50	<200	0.0242	7.23
E-S01@10'	04/28/16	10.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0210	7.99
E-E01@10'	04/28/16	10.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0507	8.02
E-E02@10'	04/28/16	10.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0233	8.00
E-B01@11'	04/28/16	11.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0850	7.99
E-B02@11'	04/28/16	11.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0379	8.34
E-N01@10'	04/28/16	10.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0272	8.08
E-S02@14'	05/03/16	14.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0499	8.58
E-B03@15'	05/03/16	15.0	<0.05	<0.05	<0.05	<0.05	11	51	<200	1.18	7.51
E-W01@14'	05/03/16	14.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0473	8.65
E-W02@14'	05/03/16	14.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0456	8.80
E-B04@15'	05/03/16	15.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.518	7.65
E-N02@14'	05/03/16	14.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0488	8.66
E-E03@13'	05/03/16	13.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0567	8.5
E-E04@13'	05/03/16	13.0	<0.05	<0.05	<0.05	<0.05	<5.0	<50	<200	0.0480	8.78

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.

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

LABORATORY ANALYTICAL REPORTS

April 18, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Deepe 34C-27Hz

Project Number - 89047176

Attached are your analytical results for KMG - Deepe 34C-27Hz received by Origins Laboratory, Inc. April 15, 2016. This project is associated with Origins project number X604185-01.

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: 89047176
Project: KMG - Deepe 34C-27Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E01 @ 3	X604185-01	Soil	April 15, 2016 16:07	04/15/2016 17:50
E02 @ 3	X604185-02	Soil	April 15, 2016 16:09	04/15/2016 17:50
E03 @ 3	X604185-03	Soil	April 15, 2016 16:11	04/15/2016 17:50
N01 @ 3	X604185-04	Soil	April 15, 2016 16:03	04/15/2016 17:50
N02 @ 3	X604185-05	Soil	April 15, 2016 16:05	04/15/2016 17:50
S01 @ 3	X604185-06	Soil	April 15, 2016 15:34	04/15/2016 17:50
S02 @ 3	X604185-07	Soil	April 15, 2016 15:39	04/15/2016 17:50
S03 @ 3	X604185-08	Soil	April 15, 2016 15:51	04/15/2016 17:50
S04 @ 3	X604185-09	Soil	April 15, 2016 15:55	04/15/2016 17:50
W01 @ 3	X604185-10	Soil	April 15, 2016 15:43	04/15/2016 17:50

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: 89047176
Project: KMG - Deepe 34C-27Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W02 @ 3	X604185-11	Soil	April 15, 2016 15:48	04/15/2016 17:50
W03 @ 3	X604185-12	Soil	April 15, 2016 15:59	04/15/2016 17:50
W04 @ 3	X604185-13	Soil	April 15, 2016 16:09	04/15/2016 17:50
B01 @ 4.5	X604185-14	Soil	April 15, 2016 16:15	04/15/2016 17:50
B02 @ 4.5	X604185-15	Soil	April 15, 2016 16:17	04/15/2016 17:50
B03 @ 4.5	X604185-16	Soil	April 15, 2016 16:19	04/15/2016 17:50
B04 @ 4.5	X604185-17	Soil	April 15, 2016 16:21	04/15/2016 17:50

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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page 1 of 2

ORIGINS
 LABORATORY, INC

X60418

Client: APC
 Address: _____
 Telephone Number: 303-889-9525
 Email Address: scam@origins-lab.com

Project Manager: Robert Cornez
 Project Name: Deepe 34C - 27Hz
 Project Number: 89047176
 Samples Collected By: Zachary Mathis

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	CBTEX 9260	TOX-DROG 8015	PH		EC	SAR (5+EC 76)
E0103	4/15/16	1607	2	X				X				X	X	X			
E0203		1609															
E0303		1611															
N0103		1603															
N0203		1605															
S0103		1534															
S0203		1539															
S0303		1551															
S0403		1555															
W0103		1543															
Relinquished By: <u>Zachary Mathis</u>	Date: <u>4/15/16</u>	Time: <u>1750</u>	Time: <u>1750</u>	Received By: <u>[Signature]</u>	Received By: <u>[Signature]</u>	Date: <u>4/15/16</u>	Date: <u>4/15/16</u>	Time: <u>F50</u>	Time: <u>F50</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							

Temp Received: 5.9 Date Results Needed: _____

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: 89047176
 Project: KMG - Deepe 34C-27Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604185

Client: Tasman

Client Project ID: Deepe 34C-27Hz

Checklist Completed by: Jefe Smith

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

Date/time completed: 4/15/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 55 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to $\leq 6^{\circ}\text{C}^{(1)}$?	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 ($> \frac{1}{4}$ 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): Confirmed with Zachary M. by phone conversation that project only contained 12 samples, W603 was a repeat.				
<u>4/15/12 JMS</u>				

⁽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.

Jefe Smith
 Reviewed by (Project Manager)

4/15/12
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

E01 @ 3
4/15/2016 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 98.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.94		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0281		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E02 @ 3
4/15/2016 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 98.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.67		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0191		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

E03 @ 3
4/15/2016 4:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.35		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0159		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

N01 @ 3
4/15/2016 4:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 99.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.67		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0144		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

N02 @ 3
4/15/2016 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.35		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0182		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

S01 @ 3
 4/15/2016 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X604185-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 75.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 99.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.24		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0178		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

S02 @ 3
4/15/2016 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 98.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.39		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0199		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

S03 @ 3
 4/15/2016 3:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X604185-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D1505	04/15/2016	04/16/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 99.2 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.02		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0446		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

S04 @ 3
4/15/2016 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/15/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 110 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.17		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0273		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

W01 @ 3
 4/15/2016 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 85.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 111 % 70-130 " " "
 Surrogate: Toluene-d8 97.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.12		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0269		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

W02 @ 3
 4/15/2016 3:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X604185-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 112 % 70-130 " " "
 Surrogate: Toluene-d8 96.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.39		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0132		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

W03 @ 3
4/15/2016 3:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 112 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.25		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0235		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

W04 @ 3
4/15/2016 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 112 % 70-130 " " "
Surrogate: Toluene-d8 97.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.36		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0123		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

B01 @ 4.5
4/15/2016 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 114 % 70-130 " " "
Surrogate: Toluene-d8 96.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.36		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0238		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

B02 @ 4.5
4/15/2016 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 111 % 70-130 " " "
Surrogate: Toluene-d8 97.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.61		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0166		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

B03 @ 4.5
4/15/2016 4:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 73.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 116 % 70-130 " " "
 Surrogate: Toluene-d8 96.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.22		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0210		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

B04 @ 4.5
4/15/2016 4:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604185-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D1503	04/15/2016	04/16/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	B6D1505	04/15/2016	04/16/2016	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 116 % 70-130 " " "
Surrogate: Toluene-d8 96.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.23		pH Units	1	B6D1506	04/15/2016	04/15/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0242		mmhos/cm	"	B6D1507	04/15/2016	04/15/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)										
Blank (B6D1505-BLK1)										
Prepared: 04/15/2016 Analyzed: 04/15/2016										
Gasoline Range Hydrocarbons	ND	0.20	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	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

Blank (B6D1505-BLK2)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Gasoline Range Hydrocarbons	ND	0.20	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	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

LCS (B6D1505-BS1)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Benzene	0.11	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.11	0.002	"	0.100		110	74.5-128			
Ethylbenzene	0.12	0.002	"	0.100		115	66.4-127			
m,p-Xylene	0.24	0.004	"	0.200		119	76.6-124			
o-Xylene	0.11	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

LCS (B6D1505-BS2)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Benzene	0.11	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.11	0.002	"	0.100		112	74.5-128			
Ethylbenzene	0.12	0.002	"	0.100		118	66.4-127			
m,p-Xylene	0.24	0.004	"	0.200		122	76.6-124			
o-Xylene	0.12	0.002	"	0.100		116	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

Matrix Spike (B6D1505-MS1)	Source: X604166-01			Prepared: 04/15/2016 Analyzed: 04/15/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.10	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.11	0.002	"	0.100	ND	105	62.2-130			
m,p-Xylene	0.22	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.11	0.002	"	0.100	ND	105	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

Matrix Spike (B6D1505-MS2)	Source: X604157-03			Prepared: 04/15/2016 Analyzed: 04/15/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	102	71.8-126			
Toluene	0.10	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.21	0.004	"	0.200	ND	106	46.5-137			
o-Xylene	0.10	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

Matrix Spike Dup (B6D1505-MSD1)	Source: X604166-01			Prepared: 04/15/2016 Analyzed: 04/15/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	98.7	71.8-126	2.11	11.3	
Toluene	0.10	0.002	"	0.100	ND	101	65.1-130	2.44	15.4	
Ethylbenzene	0.11	0.002	"	0.100	ND	105	62.2-130	0.247	19.6	
m,p-Xylene	0.22	0.004	"	0.200	ND	109	46.5-137	0.971	19.2	
o-Xylene	0.11	0.002	"	0.100	ND	105	54.2-134	0.0190	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1505 - EPA 5030 (soil)

Matrix Spike Dup (B6D1505-MSD2)	Source: X604157-03			Prepared: 04/15/2016 Analyzed: 04/15/2016						
Benzene	0.09	0.002	mg/kg	0.100	ND	94.4	71.8-126	7.72	11.3	
Toluene	0.09	0.002	"	0.100	ND	93.7	65.1-130	6.75	15.4	
Ethylbenzene	0.10	0.002	"	0.100	ND	96.8	62.2-130	6.63	19.6	
m,p-Xylene	0.20	0.004	"	0.200	ND	99.2	46.5-137	6.82	19.2	
o-Xylene	0.10	0.002	"	0.100	ND	96.3	54.2-134	7.23	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1503 - EPA 3580

Blank (B6D1503-BLK1)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.6	59-131			

Blank (B6D1503-BLK2)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

LCS (B6D1503-BS1)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Diesel (C10-C28)	1000	50	mg/kg	1000		99.9	64-121			
Residual Range Organics (C28-C40)	1000	200	"	1000		104	58-124			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

LCS (B6D1503-BS2)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Diesel (C10-C28)	980	50	mg/kg	1000		97.5	64-121			
Residual Range Organics (C28-C40)	870	200	"	1000		86.6	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.8	59-131			

LCS Dup (B6D1503-BSD1)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Diesel (C10-C28)	1100	50	mg/kg	1000		112	64-121	11.8	20	
Residual Range Organics (C28-C40)	990	200	"	1000		98.5	58-124	5.83	20	

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1503 - EPA 3580

LCS Dup (B6D1503-BSD1)

Prepared: 04/15/2016 Analyzed: 04/15/2016

Surrogate: o-Terphenyl	52		mg/kg	50.0		103	59-131			
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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D1506 - NO PREP										
Duplicate (B6D1506-DUP1)		Source: X604182-01			Prepared: 04/15/2016 Analyzed: 04/15/2016					
pH	7.55		pH Units		7.61			0.792	25	
Duplicate (B6D1506-DUP2)		Source: X604183-01			Prepared: 04/15/2016 Analyzed: 04/15/2016					
pH	8.33		pH Units		8.27			0.723	25	
Batch B6D1507 - NO PREP										
Blank (B6D1507-BLK1)		Prepared: 04/15/2016 Analyzed: 04/15/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
Blank (B6D1507-BLK2)		Prepared: 04/15/2016 Analyzed: 04/15/2016								
Specific Conductance (EC)	0.00350		mmhos/cm							
Duplicate (B6D1507-DUP1)		Source: X604182-01			Prepared: 04/15/2016 Analyzed: 04/15/2016					
Specific Conductance (EC)	0.834		mmhos/cm		0.841			0.836	25	
Duplicate (B6D1507-DUP2)		Source: X604183-01			Prepared: 04/15/2016 Analyzed: 04/15/2016					
Specific Conductance (EC)	0.0602		mmhos/cm		0.0625			3.75	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89047176
Project: KMG - Deepe 34C-27Hz

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

April 29, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Deepe 34C-27Hz

Project Number - 89047176

Attached are your analytical results for KMG - Deepe 34C-27Hz received by Origins Laboratory, Inc. April 28, 2016. This project is associated with Origins project number X604317-01.

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: 89047176
Project: KMG - Deepe 34C-27Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E-S01 @ 10'	X604317-01	Soil	April 28, 2016 14:41	04/28/2016 16:38
E-E01 @ 10'	X604317-02	Soil	April 28, 2016 14:45	04/28/2016 16:38
E-E02 @ 10'	X604317-03	Soil	April 28, 2016 14:53	04/28/2016 16:38
E-B01 @ 11'	X604317-04	Soil	April 28, 2016 14:47	04/28/2016 16:38
E-B02 @ 11'	X604317-05	Soil	April 28, 2016 14:58	04/28/2016 16:38
E-N01 @ 10'	X604317-06	Soil	April 28, 2016 15:01	04/28/2016 16:38

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

www.originslaboratory.com

page 1 of 1

ORIGINS
 LABORATORY, INC

X604317

Client: APC
 Project Manager: Robert Cornez
 Project Name: Deepe 34C-27Hz
 Project Number: 89047176
 Samples Collected By: Zachary Mathis
 Telephone Number: 303-881-9525
 Email Address: rcornez@tasman-geo.com

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air	Summa	GC/MS	Dioxins	
E-501e10'	4/28/16	1441	2	X			X		X		X	X	
E-501e10'	4/28/16	1445	2										
E-501e10'	4/28/16	1453	2										
E-501e11'	4/28/16	1447	2										
E-501e11'	4/28/16	1458	2										
E-501e10'	4/28/16	1501	2										

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Zachary Mathis	4/28/16	1438	APC	4/28/16	1438	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"/>



Temp Received: 4.1° Date Results Needed: 1638 4/16

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: 89047176
 Project: KMG - Deepe 34C-27Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604317

Client: Tasman

Client Project ID: Deepe 34C-27Az

Checklist Completed by: Jeff Smith

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

Date/time completed: 4/28/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.1 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T203

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"/>			PH
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.

Jeff Smith
 Reviewed by (Project Manager)

4/28/12
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

E-S01 @ 10'
4/28/2016 2:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.7 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 90.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.99		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0210		mmhos/cm	"	B6D2805	"	04/28/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-E01 @ 10'
4/28/2016 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.0 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.02		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0507		mmhos/cm	"	B6D2805	"	04/28/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-E02 @ 10'
4/28/2016 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	1	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.6 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.00		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0233		mmhos/cm	"	B6D2805	"	04/28/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-B01 @ 11'
4/28/2016 2:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.99		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0850		mmhos/cm	"	B6D2805	"	04/28/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

E-B02 @ 11'
4/28/2016 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.0 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.34		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0379		mmhos/cm	"	B6D2805	"	04/28/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

E-N01 @ 10'
4/28/2016 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604317-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D2801	04/28/2016	04/29/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6D2803	04/28/2016	04/29/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.6 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.08		pH Units	1	B6D2804	04/28/2016	04/28/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0272		mmhos/cm	"	B6D2805	"	04/28/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)										
Blank (B6D2803-BLK1)										
					Prepared: 04/28/2016 Analyzed: 04/28/2016					
Gasoline Range Hydrocarbons	ND	0.20	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	61		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.2	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

Blank (B6D2803-BLK2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Gasoline Range Hydrocarbons	ND	0.20	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	60		ug/kg	62.5		95.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

LCS (B6D2803-BS1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Benzene	0.09	0.002	mg/kg	0.100		85.2	77.1-124			
Toluene	0.08	0.002	"	0.100		84.0	74.5-128			
Ethylbenzene	0.09	0.002	"	0.100		85.4	66.4-127			
m,p-Xylene	0.17	0.004	"	0.200		84.2	76.6-124			
o-Xylene	0.08	0.002	"	0.100		81.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.3	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

LCS (B6D2803-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Benzene	0.09	0.002	mg/kg	0.100		92.9	77.1-124			
Toluene	0.09	0.002	"	0.100		92.7	74.5-128			
Ethylbenzene	0.09	0.002	"	0.100		93.3	66.4-127			
m,p-Xylene	0.19	0.004	"	0.200		92.5	76.6-124			
o-Xylene	0.09	0.002	"	0.100		89.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

Matrix Spike (B6D2803-MS1)	Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	95.8	71.8-126			
Toluene	0.09	0.002	"	0.100	ND	94.3	65.1-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	95.4	62.2-130			
m,p-Xylene	0.19	0.004	"	0.200	ND	89.1	46.5-137			
o-Xylene	0.09	0.002	"	0.100	ND	92.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

Matrix Spike (B6D2803-MS2)	Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	102	71.8-126			
Toluene	0.10	0.002	"	0.100	ND	101	65.1-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.20	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.10	0.002	"	0.100	ND	99.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

Matrix Spike Dup (B6D2803-MSD1)	Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.09	0.002	mg/kg	0.100	ND	90.4	71.8-126	5.82	11.3	
Toluene	0.09	0.002	"	0.100	ND	88.2	65.1-130	6.64	15.4	
Ethylbenzene	0.09	0.002	"	0.100	ND	88.6	62.2-130	7.41	19.6	
m,p-Xylene	0.18	0.004	"	0.200	ND	83.1	46.5-137	6.50	19.2	
o-Xylene	0.09	0.002	"	0.100	ND	87.5	54.2-134	5.73	17.9	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	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: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2803 - EPA 5030 (soil)

Matrix Spike Dup (B6D2803-MSD2)	Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.08	0.002	mg/kg	0.100	ND	80.9	71.8-126	23.4	11.3	QR-02
Toluene	0.08	0.002	"	0.100	ND	80.5	65.1-130	22.2	15.4	QR-02
Ethylbenzene	0.08	0.002	"	0.100	ND	81.1	62.2-130	23.5	19.6	QR-02
m,p-Xylene	0.16	0.004	"	0.200	ND	80.8	46.5-137	22.6	19.2	QR-02
o-Xylene	0.08	0.002	"	0.100	ND	79.7	54.2-134	22.4	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	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: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2801 - EPA 3580

Blank (B6D2801-BLK1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.5	59-131			

Blank (B6D2801-BLK2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.1	59-131			

LCS (B6D2801-BS1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	820	50	mg/kg	1000		82.5	64-121			
Residual Range Organics (C28-C40)	990	200	"	1000		99.4	58-124			
Surrogate: o-Terphenyl	40		"	50.0		80.6	59-131			

LCS (B6D2801-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	980	50	mg/kg	1000		97.7	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		113	58-124			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Matrix Spike (B6D2801-MS1)

Source: X604292-02

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28)	710	50	mg/kg	1000	ND	71.2	53-125			
Residual Range Organics (C28-C40)	830	200	"	1000	53	77.9	47-133			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2801 - EPA 3580										
Matrix Spike (B6D2801-MS1)			Source: X604292-02		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Surrogate: o-Terphenyl	37		mg/kg	50.0		74.6	59-131			
Matrix Spike (B6D2801-MS2)			Source: X604317-01		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	830	50	mg/kg	1000	ND	82.8	53-125			
Residual Range Organics (C28-C40)	920	200	"	1000	65	85.5	47-133			
Surrogate: o-Terphenyl	40		"	50.0		79.6	59-131			
Matrix Spike Dup (B6D2801-MSD1)			Source: X604292-02		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	780	50	mg/kg	1000	ND	77.6	53-125	8.63	20	
Residual Range Organics (C28-C40)	920	200	"	1000	53	86.5	47-133	10.5	20	
Surrogate: o-Terphenyl	41		"	50.0		81.2	59-131			
Matrix Spike Dup (B6D2801-MSD2)			Source: X604317-01		Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	920	50	mg/kg	1000	ND	92.4	53-125	11.0	20	
Residual Range Organics (C28-C40)	1100	200	"	1000	65	98.7	47-133	14.4	20	
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6D2804 - NO PREP										
Duplicate (B6D2804-DUP1)		Source: X604313-01			Prepared: 04/28/2016 Analyzed: 04/28/2016					
pH	8.39		pH Units		8.36			0.358	25	
Duplicate (B6D2804-DUP2)		Source: X604315-01			Prepared: 04/28/2016 Analyzed: 04/28/2016					
pH	8.15		pH Units		8.06			1.11	25	
Batch B6D2805 - NO PREP										
Blank (B6D2805-BLK1)		Prepared: 04/28/2016 Analyzed: 04/28/2016								
Specific Conductance (EC)	0.00260		mmhos/cm							
Blank (B6D2805-BLK2)		Prepared: 04/28/2016 Analyzed: 04/28/2016								
Specific Conductance (EC)	0.00290		mmhos/cm							
Duplicate (B6D2805-DUP1)		Source: X604313-01			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Specific Conductance (EC)	0.194		mmhos/cm		0.194			0.103	25	
Duplicate (B6D2805-DUP2)		Source: X604315-01			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Specific Conductance (EC)	0.0667		mmhos/cm		0.0664			0.451	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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89047176
Project: KMG - Deepe 34C-27Hz

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.



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

May 04, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Deepe 34C-27Hz

Project Number - 89047176

Attached are your analytical results for KMG - Deepe 34C-27Hz received by Origins Laboratory, Inc. May 03, 2016. This project is associated with Origins project number X605041-01.

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: 89047176
Project: KMG - Deepe 34C-27Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E-S02 @ 14'	X605041-01	Soil	May 3, 2016 15:43	05/03/2016 17:50
E-B03 @ 15'	X605041-02	Soil	May 3, 2016 15:47	05/03/2016 17:50
E-W01 @ 14'	X605041-03	Soil	May 3, 2016 15:50	05/03/2016 17:50
E-W02 @ 14'	X605041-04	Soil	May 3, 2016 15:54	05/03/2016 17:50
E-B04 @ 15'	X605041-05	Soil	May 3, 2016 15:58	05/03/2016 17:50
E-N02 @ 14'	X605041-06	Soil	May 3, 2016 16:01	05/03/2016 17:50
E-E03 @ 13'	X605041-07	Soil	May 3, 2016 16:09	05/03/2016 17:50
E-E04 @ 13'	X605041-08	Soil	May 3, 2016 16:07	05/03/2016 17:50

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: 89047176
 Project: KMG - Deepe 34C-27Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X6605041

Client: Tasman

Client Project ID: Deepe 34C-27Hz

Checklist Completed by: Jeff Smith

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

Date/time completed: 5/3/16

Airbill #: NA

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

Cooler Number/Temperature: 1 / 15.9 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>			PH
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) Jeff Smith

Date/Time Reviewed 5/3/16

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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-S02 @ 14'
5/3/2016 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH 8.58 pH Units 1 B6E0301 05/03/2016 05/03/2016

Specific Conductance by Modified 9050A

Specific Conductance (EC) 0.0499 mmhos/cm " B6E0302 05/03/2016 05/03/2016

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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-B03 @ 15'
5/3/2016 3:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	51	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.1 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	11	5.0	mg/kg	25	B6E0310	05/03/2016	05/04/2016	
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	7.51		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.18		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-W01 @ 14'
5/3/2016 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 95.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.65		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0473		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-W02 @ 14'
5/3/2016 3:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 95.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0456		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-B04 @ 15'
5/3/2016 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 97.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.65		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.518		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-N02 @ 14'
5/3/2016 4:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 95.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.66		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0488		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-E03 @ 13'
5/3/2016 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.50		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0567		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

E-E04 @ 13'
5/3/2016 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605041-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6E0303	05/03/2016	05/03/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.0	mg/kg	25	B6E0310	05/03/2016	05/03/2016	U
Benzene	ND	0.05	"	"	"	"	"	U
Toluene	ND	0.05	"	"	"	"	"	U
Ethylbenzene	ND	0.05	"	"	"	"	"	U
Xylenes, total	ND	0.05	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 96.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.78		pH Units	1	B6E0301	05/03/2016	05/03/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0480		mmhos/cm	"	B6E0302	05/03/2016	05/03/2016	
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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: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6E0310 - EPA 5030 (soil)

Blank (B6E0310-BLK1)

Prepared: 05/03/2016 Analyzed: 05/03/2016

Gasoline Range Hydrocarbons	ND	0.20	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	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6E0310 - EPA 5030 (soil)

LCS (B6E0310-BS1)

Prepared: 05/03/2016 Analyzed: 05/03/2016

Benzene	0.11	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.11	0.002	"	0.100		114	74.5-128			
Ethylbenzene	0.10	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.21	0.004	"	0.200		105	76.6-124			
o-Xylene	0.11	0.002	"	0.100		113	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89047176
 Project: KMG - Deepe 34C-27Hz

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 B6E0310 - EPA 5030 (soil)

Matrix Spike (B6E0310-MS1)	Source: X605006-01			Prepared: 05/03/2016 Analyzed: 05/03/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.11	0.002	"	0.100	ND	111	65.1-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	98.7	62.2-130			
m,p-Xylene	0.20	0.004	"	0.200	ND	100	46.5-137			
o-Xylene	0.11	0.002	"	0.100	ND	109	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6E0310 - EPA 5030 (soil)

Matrix Spike Dup (B6E0310-MSD1)	Source: X605006-01			Prepared: 05/03/2016 Analyzed: 05/03/2016						
Benzene	0.10	0.002	mg/kg	0.100	ND	102	71.8-126	2.47	11.3	
Toluene	0.11	0.002	"	0.100	ND	108	65.1-130	3.11	15.4	
Ethylbenzene	0.10	0.002	"	0.100	ND	97.4	62.2-130	1.28	19.6	
m,p-Xylene	0.20	0.004	"	0.200	ND	98.0	46.5-137	2.52	19.2	
o-Xylene	0.11	0.002	"	0.100	ND	107	54.2-134	1.37	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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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 B6E0303 - EPA 3580

Blank (B6E0303-BLK1)

Prepared: 05/03/2016 Analyzed: 05/03/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		85.2	59-131			

LCS (B6E0303-BS1)

Prepared: 05/03/2016 Analyzed: 05/03/2016

Diesel (C10-C28)	810	50	mg/kg	1000		80.8	64-121			
Residual Range Organics (C28-C40)	910	200	"	1000		90.7	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.5	59-131			

Matrix Spike (B6E0303-MS1)

Source: X605025-04

Prepared: 05/03/2016 Analyzed: 05/03/2016

Diesel (C10-C28)	910	50	mg/kg	1000	ND	91.4	53-125			
Residual Range Organics (C28-C40)	1100	200	"	1000	38	108	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.4	59-131			

Matrix Spike Dup (B6E0303-MSD1)

Source: X605025-04

Prepared: 05/03/2016 Analyzed: 05/03/2016

Diesel (C10-C28)	800	50	mg/kg	1000	ND	80.0	53-125	13.2	20	
Residual Range Organics (C28-C40)	870	200	"	1000	38	83.5	47-133	25.3	20	QR-02
Surrogate: o-Terphenyl	39		"	50.0		77.3	59-131			

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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
Batch B6E0301 - NO PREP										
Duplicate (B6E0301-DUP1)		Source: X605025-04			Prepared: 05/03/2016 Analyzed: 05/03/2016					
pH	8.41		pH Units		8.42			0.119	25	
Batch B6E0302 - NO PREP										
Blank (B6E0302-BLK1)		Prepared: 05/03/2016 Analyzed: 05/03/2016								
Specific Conductance (EC)	0.00270		mmhos/cm							
Duplicate (B6E0302-DUP1)		Source: X605025-04			Prepared: 05/03/2016 Analyzed: 05/03/2016					
Specific Conductance (EC)	0.107		mmhos/cm		0.106			1.03	25	

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Project: KMG - Deepe 34C-27Hz

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.

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Jen Pellegrini For Noelle Doyle Mathis, President