

September 18, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - 16-80-40-4" Line Release Project Number - 89334975

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 03, 2017. This project is associated with Origins project number Y707029-01.

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: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y707029-01	Soil	July 3, 2017 14:07	07/03/2017 18:45
SS02	Y707029-02	Soil	July 3, 2017 14:10	07/03/2017 18:45
SS03	Y707029-03	Soil	July 3, 2017 14:11	07/03/2017 18:45
SS04	Y707029-04	Soil	July 3, 2017 14:12	07/03/2017 18:45
SS05	Y707029-05	Soil	July 3, 2017 14:14	07/03/2017 18:45
SS06	Y707029-06	Soil	July 3, 2017 14:15	07/03/2017 18:45
SS07	Y707029-07	Soil	July 3, 2017 14:16	07/03/2017 18:45
SS08	Y707029-08	Soil	July 3, 2017 14:18	07/03/2017 18:45
SS09	Y707029-09	Soil	July 3, 2017 14:19	07/03/2017 18:45
SS10	Y707029-10	Soil	July 3, 2017 14:20	07/03/2017 18:45
SS11	Y707029-11	Soil	July 3, 2017 14:22	07/03/2017 18:45
SS12	Y707029-12	Soil	July 3, 2017 14:24	07/03/2017 18:45
SS13	Y707029-13	Soil	July 3, 2017 14:26	07/03/2017 18:45
SS14	Y707029-14	Soil	July 3, 2017 14:27	07/03/2017 18:45

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Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS15	Y707029-15	Soil	July 3, 2017 14:28	07/03/2017 18:45
SS16	Y707029-16	Soil	July 3, 2017 14:29	07/03/2017 18:45
SS17	Y707029-17	Soil	July 3, 2017 14:30	07/03/2017 18:45
SS18	Y707029-18	Soil	July 3, 2017 14:31	07/03/2017 18:45
SS19	Y707029-19	Soil	July 3, 2017 14:32	07/03/2017 18:45
SS20	Y707029-20	Soil	July 3, 2017 14:33	07/03/2017 18:45
SS21	Y707029-21	Soil	July 3, 2017 14:34	07/03/2017 18:45
SS22	Y707029-22	Soil	July 3, 2017 14:36	07/03/2017 18:45
SS23	Y707029-23	Soil	July 3, 2017 14:37	07/03/2017 18:45
SS24	Y707029-24	Soil	July 3, 2017 14:38	07/03/2017 18:45
SS25	Y707029-25	Soil	July 3, 2017 14:40	07/03/2017 18:45
SS26	Y707029-26	Soil	July 3, 2017 14:42	07/03/2017 18:45
SS27	Y707029-27	Soil	July 3, 2017 14:43	07/03/2017 18:45
SS28	Y707029-28	Soil	July 3, 2017 14:44	07/03/2017 18:45

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS29	Y707029-29	Soil	July 3, 2017 14:46	07/03/2017 18:45
SS30	Y707029-30	Soil	July 3, 2017 14:48	07/03/2017 18:45
SS31	Y707029-31	Soil	July 3, 2017 14:49	07/03/2017 18:45
SS32	Y707029-32	Soil	July 3, 2017 14:50	07/03/2017 18:45
SS33	Y707029-33	Soil	July 3, 2017 14:52	07/03/2017 18:45
SS34	Y707029-34	Soil	July 3, 2017 14:54	07/03/2017 18:45
SS35	Y707029-35	Soil	July 3, 2017 14:56	07/03/2017 18:45
SS36	Y707029-36	Soil	July 3, 2017 14:58	07/03/2017 18:45
SS37	Y707029-37	Soil	July 3, 2017 15:00	07/03/2017 18:45
SS38	Y707029-38	Soil	July 3, 2017 15:01	07/03/2017 18:45
SS39	Y707029-39	Soil	July 3, 2017 15:02	07/03/2017 18:45
SS40	Y707029-40	Soil	July 3, 2017 15:03	07/03/2017 18:45
SS41	Y707029-41	Soil	July 3, 2017 15:04	07/03/2017 18:45
SS42	Y707029-42	Soil	July 3, 2017 15:05	07/03/2017 18:45

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS43	Y707029-43	Soil	July 3, 2017 15:06	07/03/2017 18:45
SS44	Y707029-44	Soil	July 3, 2017 15:07	07/03/2017 18:45
SS45	Y707029-45	Soil	July 3, 2017 15:08	07/03/2017 18:45
SS46	Y707029-46	Soil	July 3, 2017 15:09	07/03/2017 18:45
SS47	Y707029-47	Soil	July 3, 2017 15:11	07/03/2017 18:45
SS48	Y707029-48	Soil	July 3, 2017 15:12	07/03/2017 18:45
SS49	Y707029-49	Soil	July 3, 2017 15:14	07/03/2017 18:45
SS50	Y707029-50	Soil	July 3, 2017 15:16	07/03/2017 18:45
SS51	Y707029-51	Soil	July 3, 2017 15:18	07/03/2017 18:45
SS52	Y707029-52	Soil	July 3, 2017 15:20	07/03/2017 18:45
SS53	Y707029-53	Soil	July 3, 2017 15:22	07/03/2017 18:45
SS54	Y707029-54	Soil	July 3, 2017 15:23	07/03/2017 18:45
SS55	Y707029-55	Soil	July 3, 2017 15:25	07/03/2017 18:45
SS56	Y707029-56	Soil	July 3, 2017 15:27	07/03/2017 18:45

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS57	Y707029-57	Soil	July 3, 2017 15:30	07/03/2017 18:45
SS58	Y707029-58	Soil	July 3, 2017 15:32	07/03/2017 18:45
SS59	Y707029-59	Soil	July 3, 2017 15:34	07/03/2017 18:45
SS60	Y707029-60	Soil	July 3, 2017 15:35	07/03/2017 18:45
SS61	Y707029-61	Soil	July 3, 2017 15:37	07/03/2017 18:45
SS62	Y707029-62	Soil	July 3, 2017 15:39	07/03/2017 18:45
SS63	Y707029-63	Soil	July 3, 2017 15:41	07/03/2017 18:45
SS64	Y707029-64	Soil	July 3, 2017 15:42	07/03/2017 18:45
SS65	Y707029-65	Soil	July 3, 2017 15:44	07/03/2017 18:45
SS66	Y707029-66	Soil	July 3, 2017 15:46	07/03/2017 18:45
SS67	Y707029-67	Soil	July 3, 2017 15:48	07/03/2017 18:45
SS68	Y707029-68	Soil	July 3, 2017 15:50	07/03/2017 18:45
SS69	Y707029-69	Soil	July 3, 2017 15:52	07/03/2017 18:45
SS70	Y707029-70	Soil	July 3, 2017 15:54	07/03/2017 18:45

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CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS71	Y707029-71	Soil	July 3, 2017 15:56	07/03/2017 18:45
SS72	Y707029-72	Soil	July 3, 2017 15:58	07/03/2017 18:45
SS73	Y707029-73	Soil	July 3, 2017 16:00	07/03/2017 18:45
SS74	Y707029-74	Soil	July 3, 2017 16:02	07/03/2017 18:45
SS75	Y707029-75	Soil	July 3, 2017 16:04	07/03/2017 18:45
SS76	Y707029-76	Soil	July 3, 2017 16:06	07/03/2017 18:45
SS77	Y707029-77	Soil	July 3, 2017 16:08	07/03/2017 18:45
SS78	Y707029-78	Soil	July 3, 2017 16:10	07/03/2017 18:45
SS79	Y707029-79	Soil	July 3, 2017 16:11	07/03/2017 18:45
SS80	Y707029-80	Soil	July 3, 2017 16:13	07/03/2017 18:45
SS81	Y707029-81	Soil	July 3, 2017 16:15	07/03/2017 18:45
SS82	Y707029-82	Soil	July 3, 2017 16:17	07/03/2017 18:45
SS83	Y707029-83	Soil	July 3, 2017 16:18	07/03/2017 18:45
SS84	Y707029-84	Soil	July 3, 2017 16:20	07/03/2017 18:45

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Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS85	Y707029-85	Soil	July 3, 2017 16:21	07/03/2017 18:45
SS86	Y707029-86	Soil	July 3, 2017 16:22	07/03/2017 18:45
SS87	Y707029-87	Soil	July 3, 2017 16:24	07/03/2017 18:45
SS88	Y707029-88	Soil	July 3, 2017 16:26	07/03/2017 18:45
SS89	Y707029-89	Soil	July 3, 2017 16:28	07/03/2017 18:45
SS90	Y707029-90	Soil	July 3, 2017 16:30	07/03/2017 18:45
SS91	Y707029-91	Soil	July 3, 2017 16:31	07/03/2017 18:45
SS92	Y707029-92	Soil	July 3, 2017 16:32	07/03/2017 18:45
SS93	Y707029-93	Soil	July 3, 2017 16:34	07/03/2017 18:45
SS94	Y707029-94	Soil	July 3, 2017 16:35	07/03/2017 18:45
SS95	Y707029-95	Soil	July 3, 2017 16:36	07/03/2017 18:45
SS96	Y707029-96	Soil	July 3, 2017 16:38	07/03/2017 18:45
SS97	Y707029-97	Soil	July 3, 2017 16:39	07/03/2017 18:45
SS98	Y707029-98	Soil	July 3, 2017 16:40	07/03/2017 18:45

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Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS99	Y707029-99	Soil	July 3, 2017 16:41	07/03/2017 18:45
SS100	Y707029-AA	Soil	July 3, 2017 16:43	07/03/2017 18:45
SS101	Y707029-AB	Soil	July 3, 2017 16:45	07/03/2017 18:45
SS102	Y707029-AC	Soil	July 3, 2017 16:47	07/03/2017 18:45
SS103	Y707029-AD	Soil	July 3, 2017 16:48	07/03/2017 18:45
SS104	Y707029-AE	Soil	July 3, 2017 16:50	07/03/2017 18:45

Per the email from Eric Siegel on 9/18/17, the project name has been changed to 16-80-40-4" Line Release.

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 page 1 of 11

170702A

Client: APC
 Project Manager: Robert Cornez
 Project Name: 13-897-8" Condensate Line
 Project Number: 42101067
 Samples Collected By: Eric Siegel

Address: _____
 Telephone Number: _____
 Email Address: rovince@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summ #	Consign #	Other	8015		8220	657X	
5501	7/3/17	1407	1	X				X					X				
5502		1410	1														
5503		1411	1														
5504		1412	1														
5505		1414	1														
5506		1415	1														
5507		1416	1														
5508		1418	1														
5509		1419	1														
5510		1420	1														
Relinquished By: <u>G. A. [Signature]</u>	Date: <u>7/3/17</u>	Time: <u>1845</u>	Time: <u>1845</u>	Received By: <u>[Signature]</u>	Date: <u>7-23-17</u>	Time: <u>645</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard										
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:											

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

Temp Received: 1.0°C Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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page 2 of 11
 701029



Client: APC
 Project Manager: Robert Cornez
 Project Name: 13-897-8" Conduits in Line
 Project Number: 42101067
 Samples Collected By: E3
 Address: _____
 Telephone Number: _____
 Email Address: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Conster #	Other		GC/MS	GC/MS		
SS11	7/3/17	1422	1	X					X								
SS12		1424															
SS13		1426															
SS14		1427															
SS15		1428															
SS16		1429															
SS17		1430															
SS18		1431															
SS19		1432															
SS20		1433															
Relinquished By: <u>G. A. Hill</u>	Date: <u>7/3/17</u>	Time: <u>1415</u>	Time: <u>1415</u>	Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>1615</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										

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Temp Received: 1.0 Date Results Needed: _____

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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page 3 of 11



7707029

Client: APC
 Project Manager: Robert Cornez
 Project Name: 13-897-8" Conden s.k. line
 Project Number: 4201067
 Samples Collected By: ES

Address: _____
 Telephone Number: _____
 Email Address: _____

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	2015		2020	C&TEX
5521	7/3/17	1434	1	X				X				X			
5522		1436	1												
5523		1437	1												
5524		1438	1												
5525		1440	1												
5526		1442	1												
5527		1443	1												
5528		1444	1												
5529		1446	1												
5530		1448	1												
Relinquished By: <u>G.A. Mathis</u>	Date: <u>7/3/17</u>	Time: <u>1645</u>	Time: <u>1645</u>	Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>1814</u>	Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>1814</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: 1.0°C Date Results Needed: _____

Origins Laboratory, Inc.

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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707029

Client: APC
 Address: _____
 Telephone Number: _____
 Email Address: _____

Project Manager: Robert Cornez
 Project Name: 13-897-8" Condensate Line
 Project Number: 42101067
 Samples Collected By: ES

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other	4015	Deleked		8260	GRTEX		
5561	7/3/17	1537	1	X				X				X					
5562		1539	1														
5563		1541	1														
5564		1542	1														
5565		1544	1														
5566		1546	1														
5567		1548	1														
5568		1550	1														
5569		1552	1														
5570		1554	1														
Relinquished By: <u>E.A. Jeyl</u>	Date: <u>7/3/17</u>	Time: <u>1645</u>	Time: <u>1645</u>	Received By: <u>[Signature]</u>	Date: <u>7-3-17</u>	Time: <u>1645</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										

Temp Received: 10°C Date Results Needed _____

Origins Laboratory, Inc.

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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Client: APC
 Project Manager: Robert Cornez
 Project Name: 13-897-8" Condensate Line
 Project Number: 42101067
 Samples Collected By: ES
 Address: _____
 Telephone Number: _____
 Email Address: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	6015		6220	CRTEX		
5571	7/3/17	1556	1	X				X				X					
5572		1558															
5573		1600															
5574		1602															
5575		1604															
5576		1606															
5577		1608															
5578		1610															
5579		1611															
5580		1613															
Relinquished By: <u>Eric A. Hill</u>	Date: 7/3/17	Time: 1845	Time: 1845	Received By: <u>[Signature]</u>	Date: 7-3-17	Time: 1845	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										

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

Temp Received: 1.0 °C Date Results Needed

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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710009

Client: APC
 Project Manager: Robert Cornez
 Project Name: 13-897-8" Combustible Line
 Project Number: 42101067
 Samples Collected By: E3
 Address: _____
 Telephone Number: _____
 Email Address: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis		Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	8015	8260		LABTEX		
5591	7/3/17	1631	1	X					X				X				
5592		1632	1														
5593		1634	1														
5594		1635	1														
5595		1636	1														
5596		1638	1														
5597		1639	1														
5598		1640	1														
5599		1641	1														
5500		1643	1														
Relinquished By: <u>C.A. King</u>	Date: 7/3/17	Time: 1615	Received By: <u>[Signature]</u>	Date: 7-3-17	Time: 1645	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>											

Temp Received: 6.0°C Date Results Needed: _____

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7207029

Client: Tasman

Client Project ID: KMG - 13-897-8" Condensate Line

Checklist Completed by: Dan

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

Date/time completed: 7-3-17 1857

Airbill #: _____

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

Cooler Number/Temperature: 1 / 1 6.0 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7-3-17 1857

Origins Laboratory, Inc.

[Signature: Jen 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS01
7/3/2017 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	208	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 87.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 95.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS02
7/3/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 98.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS03
7/3/2017 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	138	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 83.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 95.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.8 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS04
7/3/2017 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	113	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 87.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 94.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.7 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS05
7/3/2017 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 93.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS06
7/3/2017 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	161	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 96.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 93.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.5 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS07
7/3/2017 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	164	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 95.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 92.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS08
7/3/2017 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	205	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 84.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 94.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS09
7/3/2017 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	70.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	259	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 94.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
 Surrogate: Toluene-d8 93.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS10
7/3/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	33.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 98.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 95.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS11
7/3/2017 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1710	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	2860	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 93.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
 Surrogate: Toluene-d8 94.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS12
7/3/2017 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	157	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	264	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 90.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "
 Surrogate: Toluene-d8 94.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 80.6 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS13
7/3/2017 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	25.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	162	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 94.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
 Surrogate: Toluene-d8 93.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 116 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS14
7/3/2017 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	39.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	213	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 93.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 94.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 127 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS15
7/3/2017 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	27.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	148	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 88.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 93.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 118 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS16
7/3/2017 2:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	44.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 78.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
 Surrogate: Toluene-d8 91.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS17
7/3/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 95.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 127 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS18
7/3/2017 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	77.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U
<i>Surrogate: o-Terphenyl</i>	109 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	81.7 %	70-130			"	"	"	

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS19
7/3/2017 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	190	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	131	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 93.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS20

7/3/2017 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-20 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	243	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	154	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 102 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
 Surrogate: Toluene-d8 94.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.0 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS21
7/3/2017 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-21 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	41.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	151	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 103 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS22

7/3/2017 2:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-22 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS23
7/3/2017 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-23 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.4 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS24
7/3/2017 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-24 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.6 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

Origins Laboratory, Inc.



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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS25
7/3/2017 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-25 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	360	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	212	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 105 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.4 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS26
7/3/2017 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-26 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.9 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS27
7/3/2017 2:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-27 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	53.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 91.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS28

7/3/2017 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-28 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	111	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	169	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 101 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS29
7/3/2017 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-29 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	111	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	760	100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>	132 %	59-131			"	"	"	S-DUP

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.5 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.6 %	70-130			"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS30

7/3/2017 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-30 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	75.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	129	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 83.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
 Surrogate: Toluene-d8 99.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS31
7/3/2017 2:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-31 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	68.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 85.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.7 % 70-130 " " "
 Surrogate: Toluene-d8 99.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS32
7/3/2017 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-32 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.6 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.0 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS33

7/3/2017 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-33 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
Surrogate: Toluene-d8 98.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS34

7/3/2017 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-34 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	54.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS35

7/3/2017 2:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-35 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	163	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	145	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 94.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.3 % 70-130 " " "
 Surrogate: Toluene-d8 99.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS36
7/3/2017 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-36 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS37
7/3/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-37 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	128	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS38
7/3/2017 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-38 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	26.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 " " "
 Surrogate: Toluene-d8 99.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS39

7/3/2017 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-39 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	30.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.5 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS40

7/3/2017 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-40 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

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

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS41
7/3/2017 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-41 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "
Surrogate: Toluene-d8 99.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS42
7/3/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-42 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS43
7/3/2017 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-43 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	29.5	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.1 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS44
7/3/2017 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-44 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	103	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 93.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS45
7/3/2017 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-45 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	55.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	133	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 97.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 98.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS46
7/3/2017 3:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-46 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	109	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 103 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.5 % 70-130 " " "
 Surrogate: Toluene-d8 99.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS47
7/3/2017 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-47 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	248	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	169	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 97.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.7 % 70-130 " " "
 Surrogate: Toluene-d8 99.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS48

7/3/2017 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-48 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	57.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "
 Surrogate: Toluene-d8 99.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS49
7/3/2017 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-49 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	57.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.9 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS50
7/3/2017 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-50 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	103	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	119	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 94.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS51
7/3/2017 3:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-51 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	137	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	132	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 76.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS52
7/3/2017 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-52 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 60.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.9 % 70-130 " " "
Surrogate: Toluene-d8 99.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS53
7/3/2017 3:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-53 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	28.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.2 % 70-130 " " "
 Surrogate: Toluene-d8 98.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS54

7/3/2017 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-54 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	35.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	213	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 73.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.9 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS55

7/3/2017 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-55 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	33.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 72.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS56
7/3/2017 3:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-56 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 92.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS57
7/3/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-57 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	115	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 70.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
 Surrogate: Toluene-d8 96.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS58
7/3/2017 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-58 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: Toluene-d8 96.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS59
7/3/2017 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-59 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	261	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 69.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 95.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS60
7/3/2017 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-60 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 89.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS61
7/3/2017 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-61 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 97.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS62
7/3/2017 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-62 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 94.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS63

7/3/2017 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-63 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 59.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS64

7/3/2017 3:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-64 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 95.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS65

7/3/2017 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-65 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	55.5	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	398	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
 Surrogate: Toluene-d8 97.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS66

7/3/2017 3:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-66 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	116	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	730	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 97.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
 Surrogate: Toluene-d8 95.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS67
7/3/2017 3:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-67 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	30.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 67.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS68

7/3/2017 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-68 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	51.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	180	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 79.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 96.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS69
7/3/2017 3:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-69 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	129	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 69.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 96.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS70
7/3/2017 3:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-70 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
Surrogate: Toluene-d8 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS71
7/3/2017 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-71 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 92.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS72
7/3/2017 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-72 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	126	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 67.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS73
7/3/2017 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-73 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	95.6	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	154	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 80.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS74
7/3/2017 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-74 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 94.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS75
7/3/2017 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-75 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	38.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS76
7/3/2017 4:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-76 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	43.8	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 74.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
 Surrogate: Toluene-d8 94.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS77
7/3/2017 4:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-77 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	49.1	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS78
7/3/2017 4:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-78 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	138	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	414	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 86.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 91.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS79
7/3/2017 4:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-79 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	202	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 66.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS80
7/3/2017 4:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-80 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	37.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 70.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 93.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS81
7/3/2017 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-81 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS82
7/3/2017 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-82 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS83
7/3/2017 4:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-83 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS84
7/3/2017 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-84 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	35.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 76.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS85
7/3/2017 4:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-85 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	59.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 87.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS86

7/3/2017 4:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-86 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	29.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	
Residual Range Organics (C28-C40)	136	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 71.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 99.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS87

7/3/2017 4:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-87 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS88

7/3/2017 4:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-88 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	25.7	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	248	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 70.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 99.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS89
7/3/2017 4:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-89 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	235	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	1980	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 69.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 98.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS90
7/3/2017 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-90 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	81.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	831	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS91

7/3/2017 4:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-91 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	96.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	197	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 76.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS92
7/3/2017 4:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-92 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS93

7/3/2017 4:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-93 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	111	100	"	"	"	"	"	

Surrogate: o-Terphenyl 66.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS94

7/3/2017 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-94 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	97.4	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	147	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 102 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 97.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS95

7/3/2017 4:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-95 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS96

7/3/2017 4:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-96 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	29.2	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 85.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS97

7/3/2017 4:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-97 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS98
7/3/2017 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-98 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	135	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 90.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS99
7/3/2017 4:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-99 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	49.3	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	174	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

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

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS100
7/3/2017 4:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-AA (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	48.0	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	147	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS101
7/3/2017 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-AB (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 94.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS102
7/3/2017 4:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-AC (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	66.9	25.0	mg/kg	1	B7G0302	07/03/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 91.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/05/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS103
7/3/2017 4:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-AD (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 93.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 124 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS104
7/3/2017 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707029-AE (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0302	07/03/2017	07/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0301	07/03/2017	07/04/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 93.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 120 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

Blank (B7G0301-BLK1)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

Blank (B7G0301-BLK2)

Prepared: 07/03/2017 Analyzed: 07/04/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

Blank (B7G0301-BLK3)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)										
Blank (B7G0301-BLK4)										
Prepared: 07/03/2017 Analyzed: 07/03/2017										
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

Blank (B7G0301-BLK5)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)										
Blank (B7G0301-BLK6)										
					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.1	70-130			

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS1)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Benzene	0.100	0.002	mg/kg	0.100		99.9	77.1-124			
Toluene	0.089	0.002	"	0.100		88.6	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.205	0.004	"	0.200		102	76.6-124			
o-Xylene	0.097	0.002	"	0.100		97.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS2)

Prepared: 07/03/2017 Analyzed: 07/04/2017

Benzene	0.099	0.002	mg/kg	0.100		98.8	77.1-124			
Toluene	0.110	0.002	"	0.100		110	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.212	0.004	"	0.200		106	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS3)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.124	0.002	"	0.100		124	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS4)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Benzene	0.100	0.002	mg/kg	0.100		99.7	77.1-124			
Toluene	0.097	0.002	"	0.100		96.8	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		92.9	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		90.8	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS5)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		97.4	66.4-127			
m,p-Xylene	0.189	0.004	"	0.200		94.4	76.6-124			
o-Xylene	0.096	0.002	"	0.100		96.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	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 B7G0301 - EPA 5030 (soil)

LCS (B7G0301-BS6)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.099	0.002	"	0.100		99.0	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		95.5	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.8	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS1)	Source: Y707001-03			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.094	0.002	mg/kg	0.100	0.0009	93.2	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.9	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.6	62.2-130			
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137			
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS2)	Source: Y707001-04			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	0.002	107	62.2-130			
m,p-Xylene	0.262	0.004	"	0.200	0.049	106	46.5-137			
o-Xylene	0.135	0.002	"	0.100	0.022	114	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS3)	Source: Y707001-05			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.102	0.002	mg/kg	0.100	0.003	98.7	71.8-126			
Toluene	0.112	0.002	"	0.100	ND	112	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	99.7	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS4)	Source: Y707001-06			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.101	0.002	mg/kg	0.100	0.002	99.2	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	94.8	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.1	62.2-130			
m,p-Xylene	0.182	0.004	"	0.200	ND	90.8	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	91.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS5)	Source: Y707001-07			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.097	0.002	mg/kg	0.100	0.001	95.7	71.8-126			
Toluene	0.103	0.002	"	0.100	0.016	87.1	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	0.010	85.4	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	0.068	73.2	46.5-137			
o-Xylene	0.106	0.002	"	0.100	0.025	81.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike (B7G0301-MS6)	Source: Y707001-08			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.099	0.002	mg/kg	0.100	0.003	96.2	71.8-126			
Toluene	0.098	0.002	"	0.100	0.007	90.1	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	0.003	85.4	62.2-130			
m,p-Xylene	0.187	0.004	"	0.200	0.021	83.1	46.5-137			
o-Xylene	0.092	0.002	"	0.100	0.006	85.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD1)	Source: Y707001-03			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.101	0.002	mg/kg	0.100	0.0009	99.7	71.8-126	6.65	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	9.86	15.4	
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130	12.3	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	12.3	19.2	
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134	13.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD2)	Source: Y707001-04			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.093	0.002	mg/kg	0.100	ND	93.0	71.8-126	7.85	11.3	
Toluene	0.093	0.002	"	0.100	ND	92.9	65.1-130	10.1	15.4	
Ethylbenzene	0.100	0.002	"	0.100	0.002	98.0	62.2-130	8.82	19.6	
m,p-Xylene	0.246	0.004	"	0.200	0.049	98.3	46.5-137	6.21	19.2	
o-Xylene	0.130	0.002	"	0.100	0.022	108	54.2-134	3.97	17.9	
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.8	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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 B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD3)	Source: Y707001-05			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.098	0.002	mg/kg	0.100	0.003	94.9	71.8-126	3.75	11.3	
Toluene	0.118	0.002	"	0.100	ND	118	65.1-130	4.94	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	97.2	62.2-130	2.56	19.6	
m,p-Xylene	0.199	0.004	"	0.200	ND	99.7	46.5-137	2.26	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	1.85	17.9	
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD4)	Source: Y707001-06			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.099	0.002	mg/kg	0.100	0.002	97.2	71.8-126	2.01	11.3	
Toluene	0.094	0.002	"	0.100	0.001	93.3	65.1-130	1.62	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.0	62.2-130	6.75	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	87.2	46.5-137	4.07	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134	2.88	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD5)	Source: Y707001-07			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.093	0.002	mg/kg	0.100	0.001	91.6	71.8-126	4.27	11.3	
Toluene	0.100	0.002	"	0.100	0.016	83.9	65.1-130	3.15	15.4	
Ethylbenzene	0.090	0.002	"	0.100	0.010	80.1	62.2-130	5.71	19.6	
m,p-Xylene	0.211	0.004	"	0.200	0.068	71.7	46.5-137	1.39	19.2	
o-Xylene	0.104	0.002	"	0.100	0.025	79.2	54.2-134	1.75	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	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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Batch B7G0301 - EPA 5030 (soil)

Matrix Spike Dup (B7G0301-MSD6)	Source: Y707001-08			Prepared: 07/03/2017 Analyzed: 07/03/2017						
Benzene	0.098	0.002	mg/kg	0.100	0.003	95.3	71.8-126	0.953	11.3	
Toluene	0.099	0.002	"	0.100	0.007	91.2	65.1-130	1.04	15.4	
Ethylbenzene	0.094	0.002	"	0.100	0.003	91.1	62.2-130	6.25	19.6	
m,p-Xylene	0.189	0.004	"	0.200	0.021	84.3	46.5-137	1.30	19.2	
o-Xylene	0.095	0.002	"	0.100	0.006	88.2	54.2-134	2.59	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	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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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 B7G0302 - EPA 3550B

Blank (B7G0302-BLK1)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		95.0	59-131			

Blank (B7G0302-BLK2)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.7	59-131			

Blank (B7G0302-BLK3)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.1	59-131			

Blank (B7G0302-BLK4)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.5	59-131			

Blank (B7G0302-BLK5)

Prepared: 07/03/2017 Analyzed: 07/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0302 - EPA 3550B										
Blank (B7G0302-BLK5)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Surrogate: o-Terphenyl	45		mg/kg	50.0		90.7	59-131			
Blank (B7G0302-BLK6)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	35		"	50.0		70.5	59-131			
LCS (B7G0302-BS1)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	983	200	"	1000		98.3	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.6	59-131			
LCS (B7G0302-BS2)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	985	50.0	mg/kg	1000		98.5	64-121			
Residual Range Organics (C28-C40)	983	200	"	1000		98.3	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			
LCS (B7G0302-BS3)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
LCS (B7G0302-BS4)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			
LCS (B7G0302-BS5)					Prepared: 07/03/2017 Analyzed: 07/03/2017					

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0302 - EPA 3550B										
LCS (B7G0302-BS5)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	819	50.0	mg/kg	1000		81.9	64-121			
Residual Range Organics (C28-C40)	783	200	"	1000		78.3	58-124			
Surrogate: o-Terphenyl	42		"	50.0		83.8	59-131			
LCS (B7G0302-BS6)					Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	999	50.0	mg/kg	1000		99.9	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike (B7G0302-MS1)			Source: Y707001-03			Prepared: 07/03/2017 Analyzed: 07/03/2017				
Diesel (C10-C28)	1010	50.0	mg/kg	1000	31.1	98.3	53-125			
Residual Range Organics (C28-C40)	987	200	"	1000	16.0	97.1	47-133			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
Matrix Spike (B7G0302-MS2)			Source: Y707001-04			Prepared: 07/03/2017 Analyzed: 07/03/2017				
Diesel (C10-C28)	1130	50.0	mg/kg	1000	348	78.2	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	108	90.0	47-133			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
Matrix Spike (B7G0302-MS3)			Source: Y707001-05			Prepared: 07/03/2017 Analyzed: 07/03/2017				
Diesel (C10-C28)	1010	50.0	mg/kg	1000	15.9	99.5	53-125			
Residual Range Organics (C28-C40)	983	200	"	1000	26.9	95.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike (B7G0302-MS4)			Source: Y707001-06			Prepared: 07/03/2017 Analyzed: 07/03/2017				
Diesel (C10-C28)	826	50.0	mg/kg	1000	ND	82.6	53-125			
Residual Range Organics (C28-C40)	813	200	"	1000	20.6	79.2	47-133			
Surrogate: o-Terphenyl	43		"	50.0		85.4	59-131			



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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0302 - EPA 3550B										
Matrix Spike (B7G0302-MS4)			Source: Y707001-06		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Matrix Spike (B7G0302-MS5)			Source: Y707001-07		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	907	50.0	mg/kg	1000	175	73.2	53-125			
Residual Range Organics (C28-C40)	854	200	"	1000	87.0	76.7	47-133			
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			
Matrix Spike (B7G0302-MS6)			Source: Y707001-08		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	860	50.0	mg/kg	1000	42.2	81.8	53-125			
Residual Range Organics (C28-C40)	833	200	"	1000	28.5	80.5	47-133			
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			
Matrix Spike Dup (B7G0302-MSD1)			Source: Y707001-03		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	31.1	101	53-125	2.46	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	16.0	100	47-133	3.16	20	
Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
Matrix Spike Dup (B7G0302-MSD2)			Source: Y707001-04		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	348	78.6	53-125	0.538	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	108	91.5	47-133	1.59	20	
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
Matrix Spike Dup (B7G0302-MSD3)			Source: Y707001-05		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	15.9	101	53-125	1.21	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	26.9	97.8	47-133	2.24	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
Matrix Spike Dup (B7G0302-MSD4)			Source: Y707001-06		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	833	50.0	mg/kg	1000	ND	83.3	53-125	0.869	20	

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0302 - EPA 3550B										
Matrix Spike Dup (B7G0302-MSD4)			Source: Y707001-06		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Residual Range Organics (C28-C40)	827	200	mg/kg	1000	20.6	80.6	47-133	1.79	20	
Surrogate: o-Terphenyl	42		"	50.0		84.4	59-131			
Matrix Spike Dup (B7G0302-MSD5)			Source: Y707001-07		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	898	50.0	mg/kg	1000	175	72.3	53-125	1.22	20	
Residual Range Organics (C28-C40)	842	200	"	1000	87.0	75.5	47-133	1.54	20	
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			
Matrix Spike Dup (B7G0302-MSD6)			Source: Y707001-08		Prepared: 07/03/2017 Analyzed: 07/03/2017					
Diesel (C10-C28)	847	50.0	mg/kg	1000	42.2	80.5	53-125	1.61	20	
Residual Range Organics (C28-C40)	815	200	"	1000	28.5	78.6	47-133	2.29	20	
Surrogate: o-Terphenyl	42		"	50.0		83.2	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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

July 06, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - 16 - 80- 40 -4" Gathering
Line**

Project Number - 42101067

Attached are your analytical results for KMG - 16 - 80- 40 -4" Gathering Line received by Origins Laboratory, Inc. July 05, 2017. This project is associated with Origins project number Y707033-01.

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: 42101067
Project: KMG - 16 - 80- 40 -4" Gathering Line

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS01	Y707033-01	Soil	July 5, 2017 11:01	07/05/2017 13:02
CS02	Y707033-02	Soil	July 5, 2017 11:02	07/05/2017 13:02
CS03	Y707033-03	Soil	July 5, 2017 11:03	07/05/2017 13:02
CS04	Y707033-04	Soil	July 5, 2017 11:04	07/05/2017 13:02
CS05	Y707033-05	Soil	July 5, 2017 11:04	07/05/2017 13:02
CS06	Y707033-06	Soil	July 5, 2017 11:05	07/05/2017 13:02
CS07	Y707033-07	Soil	July 5, 2017 11:05	07/05/2017 13:02
CS08	Y707033-08	Soil	July 5, 2017 11:06	07/05/2017 13:02
CS09	Y707033-09	Soil	July 5, 2017 11:06	07/05/2017 13:02
CS10	Y707033-10	Soil	July 5, 2017 11:07	07/05/2017 13:02
CS11	Y707033-11	Soil	July 5, 2017 11:07	07/05/2017 13:02
CS12	Y707033-12	Soil	July 5, 2017 11:08	07/05/2017 13:02
CS13	Y707033-13	Soil	July 5, 2017 11:08	07/05/2017 13:02
CS14	Y707033-14	Soil	July 5, 2017 11:09	07/05/2017 13:02

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: 42101067
Project: KMG - 16 - 80- 40 -4" Gathering Line

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS15	Y707033-15	Soil	July 5, 2017 11:09	07/05/2017 13:02
CS16	Y707033-16	Soil	July 5, 2017 11:09	07/05/2017 13:02
CS17	Y707033-17	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS18	Y707033-18	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS19	Y707033-19	Soil	July 5, 2017 11:10	07/05/2017 13:02
CS20	Y707033-20	Soil	July 5, 2017 11:11	07/05/2017 13:02
CS21	Y707033-21	Soil	July 5, 2017 11:11	07/05/2017 13:02
North Trough	Y707033-22	Water	July 5, 2017 11:35	07/05/2017 13:02
South Trough	Y707033-23	Water	July 5, 2017 11:40	07/05/2017 13:02

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: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

www.originslaboratory.com

7707033

page 1 of 3

ORIGINS
 LABORATORY, INC

Client: ARC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Gathering Line
 Project Number: 42101067
 Samples Collected By: Eric Siegel
 Address: _____
 Telephone Number: _____
 Email Address: rcornez@tasman-geo.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	DR10K	DR20		GBTX	
C501	7/5/17	1101	1						X							
C502		1102														
C503		1103														
C504		1104														
C505		1104														
C506		1105														
C507		1105														
C508		1106														
C509		1106														
C510		1107														
Relinquished By: <u>G.A. King</u>	Date: 7/5/17	Time: 1342	Date: 7/5/17	Time: 1712	Received By: <u>[Signature]</u>	Date: 7/5/17	Time: 1712	Turnaround Time: Some 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: 5.6 °C 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: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line



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4707033

page 2 of 3

Client: APC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Gathering Line
 Address: _____
 Project Number: 42101067
 Telephone Number: _____
 Samples Collected By: Eric Siegel
 Email Address: _____

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summo #	Other	8015		DeLoto	4260	CS TEX	
CS11	7/5/17	107	1	X				X									
CS12		108	1														
CS13		108	1														
CS14		109	1														
CS15		109	1														
CS16		109	1														
CS17		110	1														
CS18		110	1														
CS19		110	1														
CS20		111	1														
Relinquished By: <u>E. Siegel</u>	Date: 7/5/17	Time: 107	Time: 107	Received By: <u>[Signature]</u>	Date: 7.5.17	Time: 1302	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>									

Temp Received: 58°C Date Results Needed: _____

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: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7707033

Client: Tasman

Client Project ID: vm 16-80-40-4" Gathering Line

Checklist Completed by: Duke

Shipped Via: 42
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7-5-11 13:17

Airbill #: 18

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

Cooler Number/Temperature: 1 5.6 °C 1 °C 1 °C 1 °C

Thermometer ID: 1406 17933

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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)

7-5-11 8:19
 Date/Time Reviewed

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: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS01
7/5/2017 11:01:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	43.2	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 108 % 70-130 " " "
 Surrogate: Toluene-d8 92.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS02

7/5/2017 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	45.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	252	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 80.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	U
Benzene	ND	0.002	"	"	"	"	07/05/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 95.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS03
7/5/2017 11:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	171	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	157	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 90.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 146 % 70-130 " " " S-07
 Surrogate: Toluene-d8 91.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS04

7/5/2017 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	77.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	106	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 80.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 146 % 70-130 " " " S-07
 Surrogate: Toluene-d8 89.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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CS05

7/5/2017 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	43.0	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 71.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 135 % 70-130 " " " S-07
 Surrogate: Toluene-d8 89.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

Origins Laboratory, Inc.



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CS06

7/5/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	41.3	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	140 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	90.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	

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CS07
7/5/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	41.7	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	71.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	142 %	70-130			"	"	"	S-07
<i>Surrogate: Toluene-d8</i>	94.7 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.6 %	70-130			"	"	"	

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS08
7/5/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	27.2	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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	143 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	

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Bob Cornez
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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS09

7/5/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	43.5	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	143	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 81.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 144 % 70-130 " " " S-07
 Surrogate: Toluene-d8 93.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

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Bob Cornez
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CS10
7/5/2017 11:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	31.4	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 65.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 145 % 70-130 " " " S-07
 Surrogate: Toluene-d8 92.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

Origins Laboratory, Inc.



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CS11
7/5/2017 11:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	28.1	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 135 % 70-130 " " " S-07
 Surrogate: Toluene-d8 92.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS12
7/5/2017 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	38.6	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 122 % 70-130 " " "
 Surrogate: Toluene-d8 94.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS13
7/5/2017 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	86.9	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	571	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 142 % 70-130 " " " S-07
 Surrogate: Toluene-d8 98.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

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CS14
7/5/2017 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	26.4	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	127	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 72.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 135 % 70-130 " " " S-07
 Surrogate: Toluene-d8 94.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

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CS15
7/5/2017 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	64.5	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7G0504	07/05/2017	07/06/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.3 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.6 % 70-130 " " "

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 Denver CO 80211

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS16
7/5/2017 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 137 % 70-130 " " " S-07
Surrogate: Toluene-d8 91.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS17
7/5/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 136 % 70-130 " " " S-07
Surrogate: Toluene-d8 85.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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CS18
7/5/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	124	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 59.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 143 % 70-130 " " " S-07
 Surrogate: Toluene-d8 89.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS19
7/5/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	29.6	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	110	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 144 % 70-130 " " " S-07
 Surrogate: Toluene-d8 90.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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Bob Cornez
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 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS20

7/5/2017 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-20 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 149 % 70-130 " " " S-07
Surrogate: Toluene-d8 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

CS21
7/5/2017 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-21 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	28.0	25.0	mg/kg	1	B7G0505	07/05/2017	07/05/2017	
Residual Range Organics (C28-C40)	216	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0504	07/05/2017	07/05/2017	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 141 % 70-130 " " " S-07
 Surrogate: Toluene-d8 91.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

North Trough
7/5/2017 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-22 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G0502	07/05/2017	07/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

South Trough
7/5/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707033-23 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G0502	07/05/2017	07/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0502 - EPA 5030B (Water)

Blank (B7G0502-BLK1)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	84-114			

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0502 - EPA 5030B (Water)

LCS (B7G0502-BS1)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Benzene	57.4	1.00	ug/L	50.0		115	73.3-129			
Toluene	59.3	1.00	"	50.0		119	76.2-123			
Ethylbenzene	56.0	1.00	"	50.0		112	73.6-130			
m,p-Xylene	120	2.00	"	100		120	76.1-126			
o-Xylene	55.5	1.00	"	50.0		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0502 - EPA 5030B (Water)

Matrix Spike (B7G0502-MS1)	Source: Y707002-01			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	188	4.00	ug/L	200	ND	94.2	74-130			
Toluene	198	4.00	"	200	ND	98.9	73-131			
Ethylbenzene	187	4.00	"	200	1.92	92.4	76-132			
m,p-Xylene	415	8.00	"	400	17.5	99.4	69-139			
o-Xylene	189	4.00	"	200	1.52	93.9	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	84-114			

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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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Batch B7G0502 - EPA 5030B (Water)

Matrix Spike Dup (B7G0502-MSD1)	Source: Y707002-01			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	187	4.00	ug/L	200	ND	93.5	74-130	0.724	20	
Toluene	192	4.00	"	200	ND	96.2	73-131	2.85	20	
Ethylbenzene	182	4.00	"	200	1.92	89.8	76-132	2.74	20	
m,p-Xylene	397	8.00	"	400	17.5	94.8	69-139	4.55	20	
o-Xylene	185	4.00	"	200	1.52	91.8	74-131	2.31	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	61		"	62.5		97.8	84-121			
<i>Surrogate: Toluene-d8</i>	63		"	62.5		101	85-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	64		"	62.5		102	84-114			

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

Blank (B7G0504-BLK1)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	70-130			

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

Blank (B7G0504-BLK2)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	70-130			

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 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

LCS (B7G0504-BS1)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		93.4	66.4-127			
m,p-Xylene	0.185	0.004	"	0.200		92.4	76.6-124			
o-Xylene	0.093	0.002	"	0.100		92.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.3	70-130			

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

LCS (B7G0504-BS2)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		92.6	66.4-127			
m,p-Xylene	0.181	0.004	"	0.200		90.4	76.6-124			
o-Xylene	0.093	0.002	"	0.100		92.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.3	70-130			

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

Matrix Spike (B7G0504-MS1)	Source: Y707033-01			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.3	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.7	65.1-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	84.9	62.2-130			
m,p-Xylene	0.168	0.004	"	0.200	ND	83.9	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	86.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

Matrix Spike (B7G0504-MS2)	Source: Y707033-02			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.1	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.1	65.1-130			
Ethylbenzene	0.083	0.002	"	0.100	ND	82.9	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	81.1	46.5-137			
o-Xylene	0.084	0.002	"	0.100	ND	84.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

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Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0504 - EPA 5030 (soil)

Matrix Spike Dup (B7G0504-MSD1)	Source: Y707033-01			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.0	71.8-126	4.54	11.3	
Toluene	0.086	0.002	"	0.100	ND	85.9	65.1-130	6.55	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.2	62.2-130	3.21	19.6	
m,p-Xylene	0.161	0.004	"	0.200	ND	80.7	46.5-137	3.85	19.2	
o-Xylene	0.084	0.002	"	0.100	ND	84.2	54.2-134	2.83	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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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Batch B7G0504 - EPA 5030 (soil)

Matrix Spike Dup (B7G0504-MSD2)	Source: Y707033-02			Prepared: 07/05/2017 Analyzed: 07/05/2017						
Benzene	0.094	0.002	mg/kg	0.100	ND	93.9	71.8-126	0.234	11.3	
Toluene	0.089	0.002	"	0.100	ND	89.0	65.1-130	0.949	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.0	62.2-130	1.09	19.6	
m,p-Xylene	0.162	0.004	"	0.200	ND	81.0	46.5-137	0.0864	19.2	
o-Xylene	0.082	0.002	"	0.100	ND	82.5	54.2-134	2.04	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0505 - EPA 3550B

Blank (B7G0505-BLK1)

Prepared: 07/05/2017 Analyzed: 07/06/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		76.5	59-131			

Blank (B7G0505-BLK2)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.9	59-131			

LCS (B7G0505-BS1)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	993	50.0	mg/kg	1000		99.3	64-121			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	58-124			
Surrogate: o-Terphenyl	46		"	50.0		91.8	59-131			

LCS (B7G0505-BS2)

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	997	50.0	mg/kg	1000		99.7	64-121			
Residual Range Organics (C28-C40)	982	200	"	1000		98.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.7	59-131			

Matrix Spike (B7G0505-MS1)

Source: Y707033-01

Prepared: 07/05/2017 Analyzed: 07/05/2017

Diesel (C10-C28)	1020	50.0	mg/kg	1000	43.2	98.0	53-125			
Residual Range Organics (C28-C40)	996	200	"	1000	67.6	92.8	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 42101067
 Project: KMG - 16 - 80- 40 -4" Gathering Line

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 B7G0505 - EPA 3550B										
Matrix Spike (B7G0505-MS1)			Source: Y707033-01		Prepared: 07/05/2017 Analyzed: 07/05/2017					
Surrogate: o-Terphenyl	46		mg/kg	50.0		92.4	59-131			
Matrix Spike (B7G0505-MS2)			Source: Y707033-02		Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	944	50.0	mg/kg	1000	45.7	89.8	53-125			
Residual Range Organics (C28-C40)	871	200	"	1000	252	61.9	47-133			
Surrogate: o-Terphenyl	76		"	50.0		152	59-131			S-04
Matrix Spike Dup (B7G0505-MSD1)			Source: Y707033-01		Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	43.2	98.6	53-125	0.555	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	67.6	95.4	47-133	2.76	20	
Surrogate: o-Terphenyl	49		"	50.0		97.3	59-131			
Matrix Spike Dup (B7G0505-MSD2)			Source: Y707033-02		Prepared: 07/05/2017 Analyzed: 07/05/2017					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	45.7	98.3	53-125	9.01	20	
Residual Range Organics (C28-C40)	1050	200	"	1000	252	79.9	47-133	25.4	20	QR-02
Surrogate: o-Terphenyl	48		"	50.0		96.2	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 42101067
Project: KMG - 16 - 80- 40 -4" Gathering Line

Notes and Definitions

- U Sample is Non-Detect.
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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.

July 08, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - 16-80-40-4" Line Release

Project Number - 89334975

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 07, 2017. This project is associated with Origins project number Y707079-01.

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: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS11-R	Y707079-01	Soil	July 7, 2017 13:49	07/07/2017 17:47
SS25-R	Y707079-02	Soil	July 7, 2017 13:50	07/07/2017 17:47
SS29-R	Y707079-03	Soil	July 7, 2017 13:30	07/07/2017 17:47
SS66-R	Y707079-04	Soil	July 7, 2017 13:33	07/07/2017 17:47
SS78-R	Y707079-05	Soil	July 7, 2017 13:45	07/07/2017 17:47
SS89-R	Y707079-06	Soil	July 7, 2017 14:19	07/07/2017 17:47
SS90-R	Y707079-07	Soil	July 7, 2017 14:20	07/07/2017 17:47

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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1707019

page | of |



Client: APC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Line Release
 Project Number: 89334975
 Samples Collected By: Eric Siegel

Telephone Number:
 Email Address: RCORNEZ@tasman-geo.com
Sam.LaRue@origins-lab.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	SO ₄ S	Dissolved	
SS11-R	7/7/17	1344	1	X				X				X		1
SS25-R		1350	1	X				X				X		2
SS29-R		1330	1	X				X				X		3
SS66-R		1333	1	X				X				X		4
SS78-R		1345	1	X				X				X		5
SS89-R		1414	1	X				X				X		6
SS90-R		1420	1	X				X				X		7
														8
														9
														10

Handwritten notes in table:
 Row 3: SATURDAY
 Row 4: RESULTS
 Row 5: Email results to Sam LaRue at APC + Tasman

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

Relinquished By: G. A. Siegel Date: 7/7/17
 Relinquished By: [Signature] Date: 7-7-17

Temp Received: 28°C Date Results Needed

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y0170709

Client: Tasman

Client Project ID: KMG-16-80-40-4" Line Release

Checklist Completed by: [Signature]

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

Date/time completed: 7-7-17 1816

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.2 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7-7-17 1816

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS11-R
7/7/2017 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	83.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.5 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS25-R

7/7/2017 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	67.7	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 102 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS29-R

7/7/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	93.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.1 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS66-R

7/7/2017 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	90.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.3 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS78-R

7/7/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	U
Residual Range Organics (C28-C40)	103	100	"	"	"	"	"	

Surrogate: o-Terphenyl 81.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 122 % 70-130 " " "
Surrogate: Toluene-d8 95.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS89-R

7/7/2017 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	40.7	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	198	100	"	"	"	"	"	

Surrogate: o-Terphenyl 86.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 104 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

SS90-R

7/7/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707079-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	41.5	25.0	mg/kg	1	B7G0704	07/07/2017	07/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G0701	07/07/2017	07/07/2017	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 102 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Blank (B7G0701-BLK1)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Blank (B7G0701-BLK2)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

LCS (B7G0701-BS1)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.097	0.002	"	0.100		97.3	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.215	0.004	"	0.200		108	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

LCS (B7G0701-BS2)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		106	76.6-124			
o-Xylene	0.114	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Matrix Spike (B7G0701-MS1)	Source: Y707031-01			Prepared: 07/07/2017 Analyzed: 07/07/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.8	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	90.6	62.2-130			
m,p-Xylene	0.183	0.004	"	0.200	ND	91.3	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Matrix Spike (B7G0701-MS2)	Source: Y707078-01			Prepared: 07/07/2017 Analyzed: 07/07/2017						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.111	0.002	"	0.100	0.026	85.9	65.1-130			
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130			
m,p-Xylene	0.221	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.120	0.002	"	0.100	ND	120	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Matrix Spike Dup (B7G0701-MSD1)	Source: Y707031-01			Prepared: 07/07/2017 Analyzed: 07/07/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.2	71.8-126	10.0	11.3	
Toluene	0.086	0.002	"	0.100	ND	85.9	65.1-130	14.0	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	86.5	62.2-130	4.65	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.4	46.5-137	6.65	19.2	
o-Xylene	0.086	0.002	"	0.100	ND	86.4	54.2-134	9.84	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0701 - EPA 5030 (soil)

Matrix Spike Dup (B7G0701-MSD2)	Source: Y707078-01			Prepared: 07/07/2017 Analyzed: 07/07/2017						
Benzene	0.115	0.002	mg/kg	0.100	ND	115	71.8-126	3.17	11.3	
Toluene	0.113	0.002	"	0.100	0.026	87.8	65.1-130	1.69	15.4	
Ethylbenzene	0.115	0.002	"	0.100	ND	115	62.2-130	2.30	19.6	
m,p-Xylene	0.230	0.004	"	0.200	ND	115	46.5-137	3.92	19.2	
o-Xylene	0.120	0.002	"	0.100	ND	120	54.2-134	0.217	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0704 - EPA 3550B

Blank (B7G0704-BLK1)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.3	59-131			

Blank (B7G0704-BLK2)

Prepared: 07/07/2017 Analyzed: 07/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		85.7	59-131			

LCS (B7G0704-BS1)

Prepared: 07/07/2017 Analyzed: 07/07/2017

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	58-124			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

LCS (B7G0704-BS2)

Prepared: 07/07/2017 Analyzed: 07/08/2017

Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	64-121			
Residual Range Organics (C28-C40)	820	200	"	1000		82.0	58-124			
Surrogate: o-Terphenyl	41		"	50.0		82.0	59-131			

Matrix Spike (B7G0704-MS1)

Source: Y707031-01

Prepared: 07/07/2017 Analyzed: 07/07/2017

Diesel (C10-C28)	1090	50.0	mg/kg	1000	21.8	106	53-125			
Residual Range Organics (C28-C40)	1050	200	"	1000	13.3	104	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G0704 - EPA 3550B										
Matrix Spike (B7G0704-MS1)			Source: Y707031-01		Prepared: 07/07/2017 Analyzed: 07/07/2017					
Surrogate: o-Terphenyl	51		mg/kg	50.0		102	59-131			
Matrix Spike (B7G0704-MS2)			Source: Y707078-01		Prepared: 07/07/2017 Analyzed: 07/08/2017					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	32.8	101	53-125			
Residual Range Organics (C28-C40)	982	200	"	1000	16.7	96.6	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.4	59-131			
Matrix Spike Dup (B7G0704-MSD1)			Source: Y707031-01		Prepared: 07/07/2017 Analyzed: 07/07/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	21.8	107	53-125	0.523	20	
Residual Range Organics (C28-C40)	1050	200	"	1000	13.3	103	47-133	0.469	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B7G0704-MSD2)			Source: Y707078-01		Prepared: 07/07/2017 Analyzed: 07/08/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	32.8	106	53-125	4.29	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	16.7	98.5	47-133	1.99	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

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.

July 11, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - 16-80-40-4" Line Release Project Number - 89334975

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. July 10, 2017. This project is associated with Origins project number Y707090-01.

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: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS13-R	Y707090-01	Soil	July 10, 2017 10:15	07/10/2017 15:43

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1707090 Client: KMG
 Client Project ID: KMG-16-80-40-4
 Checklist Completed by: DLW Shipped Via: HD
 Date/time completed: 7-10-17 4:3 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 22
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.3 °C °C °C (Describe)
 Thermometer ID: 1604

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

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

Reviewed by (Project Manager)

Date/Time Reviewed: 7-10-17 16:3

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS13-R
7/10/2017 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707090-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	44.2	25.0	mg/kg	1	B7G1002	07/10/2017	07/10/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G1001	07/10/2017	07/10/2017	U
Benzene	ND	0.002	"	"	"	"	07/11/2017	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G1001 - EPA 5030 (soil)										
Blank (B7G1001-BLK1)										
					Prepared: 07/10/2017 Analyzed: 07/10/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G1001 - EPA 5030 (soil)

LCS (B7G1001-BS1)

Prepared: 07/10/2017 Analyzed: 07/10/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.097	0.002	"	0.100		97.1	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		98.7	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.7	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G1001 - EPA 5030 (soil)

Matrix Spike (B7G1001-MS1)	Source: Y707078-13			Prepared: 07/10/2017 Analyzed: 07/10/2017						
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	94.9	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	0.0008	92.8	62.2-130			
m,p-Xylene	0.183	0.004	"	0.200	0.001	90.7	46.5-137			
o-Xylene	0.093	0.002	"	0.100	0.0004	92.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G1001 - EPA 5030 (soil)

Matrix Spike Dup (B7G1001-MSD1)	Source: Y707078-13			Prepared: 07/10/2017 Analyzed: 07/10/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.5	71.8-126	4.60	11.3	
Toluene	0.092	0.002	"	0.100	0.001	90.9	65.1-130	4.20	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0008	88.3	62.2-130	4.90	19.6	
m,p-Xylene	0.176	0.004	"	0.200	0.001	87.1	46.5-137	4.01	19.2	
o-Xylene	0.090	0.002	"	0.100	0.0004	89.5	54.2-134	3.69	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B7G1002 - EPA 3550B

Blank (B7G1002-BLK1)

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	60		"	50.0		121	59-131			

LCS (B7G1002-BS1)

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	58-124			
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

Matrix Spike (B7G1002-MS1)

Source: Y707078-13

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125			
Residual Range Organics (C28-C40)	971	200	"	1000	24.2	94.7	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.0	59-131			

Matrix Spike Dup (B7G1002-MSD1)

Source: Y707078-13

Prepared: 07/10/2017 Analyzed: 07/10/2017

Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125	1.97	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	24.2	98.9	47-133	4.29	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS21	Y709209-01	Soil	September 15, 2017 10:13	09/15/2017 16:51
CS22	Y709209-02	Soil	September 15, 2017 10:18	09/15/2017 16:51
CS23	Y709209-03	Soil	September 15, 2017 10:21	09/15/2017 16:51
CS24	Y709209-04	Soil	September 15, 2017 10:24	09/15/2017 16:51
CS25	Y709209-05	Soil	September 15, 2017 10:26	09/15/2017 16:51
CS26	Y709209-06	Soil	September 15, 2017 10:30	09/15/2017 16:51
CS27	Y709209-07	Soil	September 15, 2017 10:33	09/15/2017 16:51
CS28	Y709209-08	Soil	September 15, 2017 10:37	09/15/2017 16:51
CS29	Y709209-09	Soil	September 15, 2017 11:06	09/15/2017 16:51
CS30	Y709209-10	Soil	September 15, 2017 11:10	09/15/2017 16:51
CS31	Y709209-11	Soil	September 15, 2017 11:14	09/15/2017 16:51
CS32	Y709209-12	Soil	September 15, 2017 11:19	09/15/2017 16:51
CS33	Y709209-13	Soil	September 15, 2017 11:22	09/15/2017 16:51
CS34	Y709209-14	Soil	September 15, 2017 11:26	09/15/2017 16:51

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS35	Y709209-15	Soil	September 15, 2017 11:30	09/15/2017 16:51
CS36	Y709209-16	Soil	September 15, 2017 11:33	09/15/2017 16:51
CS37	Y709209-17	Soil	September 15, 2017 11:36	09/15/2017 16:51
CS38	Y709209-18	Soil	September 15, 2017 11:40	09/15/2017 16:51
CS39	Y709209-19	Soil	September 15, 2017 11:44	09/15/2017 16:51

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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page 1 of 2



89334975

Client: APC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Line Release
 Project Number: 89334975
 Samples Collected By: ES

Address:
 Telephone Number:
 Email Address: rcornez@tasman-geo.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
CS21	9/15/17	10:13	2	X				X			CS21 Drolo 8260 G8TEX	
CS22		10:18	2	X				X				
CS23		10:21	2	X				X				
CS24		10:24	2	X				X				
CS25		10:26	2	X				X				
CS26		10:30	2	X				X				
CS27		10:33	2	X				X				
CS28		10:37	2	X				X				
CS29		11:06	2	X				X				
CS30		11:10	2	X				X				
Relinquished By: E. A. [Signature]	Date: 9/15/17	Time: 1651	Received By: [Signature]	Date: 9/15/17	Time: 1651	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Date Results Needed

Temp Received: 36

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y709209

Client: Tasman

Client Project ID: KMG - 16-80-40-4" Line Release

Checklist Completed by: Dm G

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

Date/time completed: 9-15-17 1750

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °C

Thermometer ID: R003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 [Signature] (Project Manager)

Date/Time Reviewed 9-15-17 1750

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS21
9/15/2017 10:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 126 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 96.9 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS22
9/15/2017 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.0 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS23
9/15/2017 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.8 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS24
9/15/2017 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 97.0 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS25
9/15/2017 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/17/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.006	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS26
9/15/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 102 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS27
9/15/2017 10:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 113 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 103 % 70-130 " " "

Surrogate: Toluene-d8 98.7 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS28
9/15/2017 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 99.9 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS29
9/15/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 106 % 70-130 " " "
Surrogate: Toluene-d8 99.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS30

9/15/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 107 % 70-130 " " "

Surrogate: Toluene-d8 99.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS31
9/15/2017 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS32
9/15/2017 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 101 % 70-130 " " "

Surrogate: Toluene-d8 97.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS33

9/15/2017 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 104 % 70-130 " " "
Surrogate: Toluene-d8 96.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS34

9/15/2017 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "

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

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS35
9/15/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 101 % 70-130 " " "
Surrogate: Toluene-d8 97.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS36
9/15/2017 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS37
9/15/2017 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/18/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 125 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 104 % 70-130 " " "
Surrogate: Toluene-d8 97.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS38

9/15/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 106 % 70-130 " " "

Surrogate: Toluene-d8 98.0 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)										
Blank (B711502-BLK1)										
					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)										
Blank (B711502-BLK2)										
Prepared: 09/15/2017 Analyzed: 09/15/2017										
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Blank (B711502-BLK3)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS1)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.4	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.6	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS2)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.092	0.002	mg/kg	0.100		92.5	77.1-124			
Toluene	0.094	0.002	"	0.100		94.3	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.8	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.1	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS3)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.093	0.002	mg/kg	0.100		92.7	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.9	66.4-127			
m,p-Xylene	0.171	0.004	"	0.200		85.5	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.5	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	90.6	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	0.0006	89.2	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126	4.00	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.8	65.1-130	5.72	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130	4.85	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.5	46.5-137	5.74	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.2	54.2-134	5.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.5	71.8-126	8.51	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.3	65.1-130	7.57	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130	11.1	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	10.5	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134	10.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.087	0.002	mg/kg	0.100	ND	86.8	71.8-126	4.26	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130	8.71	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0006	88.6	62.2-130	0.693	19.6	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137	2.22	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134	0.430	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711503 - EPA 3550B

Blank (B711503-BLK1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

Blank (B711503-BLK2)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

Blank (B711503-BLK3)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

LCS (B711503-BS1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

LCS (B711503-BS2)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	64-121			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	58-124			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711503 - EPA 3550B										
LCS (B711503-BS2)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Surrogate: o-Terphenyl	56		mg/kg	50.0		112	59-131			
LCS (B711503-BS3)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			
Matrix Spike (B711503-MS1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	14.4	107	53-125			
Residual Range Organics (C28-C40)	936	200	"	1000	50.7	88.6	47-133			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
Matrix Spike (B711503-MS2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	17.5	106	53-125			
Residual Range Organics (C28-C40)	888	200	"	1000	44.4	84.4	47-133			
Surrogate: o-Terphenyl	54		"	50.0		109	59-131			
Matrix Spike (B711503-MS3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	23.8	104	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	37.1	82.3	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B711503-MSD1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	14.4	112	53-125	4.07	20	
Residual Range Organics (C28-C40)	976	200	"	1000	50.7	92.5	47-133	4.35	20	
Surrogate: o-Terphenyl	58		"	50.0		115	59-131			
Matrix Spike Dup (B711503-MSD2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					

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.

September 18, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - 16-80-40-4" Line Release Project Number - 89334975

Attached are your analytical results for KMG - 16-80-40-4" Line Release received by Origins Laboratory, Inc. September 15, 2017. This project is associated with Origins project number Y709209-01.

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: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS40	Y709209-01	Soil	September 15, 2017 10:13	09/15/2017 16:51
CS22	Y709209-02	Soil	September 15, 2017 10:18	09/15/2017 16:51
CS23	Y709209-03	Soil	September 15, 2017 10:21	09/15/2017 16:51
CS24	Y709209-04	Soil	September 15, 2017 10:24	09/15/2017 16:51
CS25	Y709209-05	Soil	September 15, 2017 10:26	09/15/2017 16:51
CS26	Y709209-06	Soil	September 15, 2017 10:30	09/15/2017 16:51
CS27	Y709209-07	Soil	September 15, 2017 10:33	09/15/2017 16:51
CS28	Y709209-08	Soil	September 15, 2017 10:37	09/15/2017 16:51
CS29	Y709209-09	Soil	September 15, 2017 11:06	09/15/2017 16:51
CS30	Y709209-10	Soil	September 15, 2017 11:10	09/15/2017 16:51
CS31	Y709209-11	Soil	September 15, 2017 11:14	09/15/2017 16:51
CS32	Y709209-12	Soil	September 15, 2017 11:19	09/15/2017 16:51
CS33	Y709209-13	Soil	September 15, 2017 11:22	09/15/2017 16:51
CS34	Y709209-14	Soil	September 15, 2017 11:26	09/15/2017 16:51

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89334975
Project: KMG - 16-80-40-4" Line Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS35	Y709209-15	Soil	September 15, 2017 11:30	09/15/2017 16:51
CS36	Y709209-16	Soil	September 15, 2017 11:33	09/15/2017 16:51
CS37	Y709209-17	Soil	September 15, 2017 11:36	09/15/2017 16:51
CS38	Y709209-18	Soil	September 15, 2017 11:40	09/15/2017 16:51
CS39	Y709209-19	Soil	September 15, 2017 11:44	09/15/2017 16:51

Per the email from Eric on 9/18/17, sample ID CS21 has been changed to CS40.

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 page 1 of 2

ORIGINS
 LABORATORY, INC

Client: APC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Line Release
 Project Number: 89334975

Address:
 Telephone Number:
 Email Address: rcornez@tasman-geo.com

Samples Collected By: ES

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
CS21	9/15/17	10:13	2	X				X						
CS22		10:18	2	X				X						
CS23		10:21	2	X				X						
CS24		10:24	2	X				X						
CS25		10:26	2	X				X						
CS26		10:30	2	X				X						
CS27		10:33	2	X				X						
CS28		10:37	2	X				X						
CS29		11:06	2	X				X						
CS30		11:10	2	X				X						
Relinquished By: E. A. [Signature]	Date: 9/15/17	Time: 1651	Date: 9/15/17	Time: 1651	Received By: [Signature]	Date: 9/15/17	Time: 1651	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

1725 EIK Plcge | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Temp Received: 36
 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: 89334975
 Project: KMG - 16-80-40-4" Line Release

www.originslaboratory.com
 704209 page 2 of 2
ORIGINS LABORATORY, INC
 Client: APC
 Project Manager: Robert Cornez
 Project Name: 16-80-40-4" Line Release
 Project Number: 89334975
 Samples Collected By: E3
 Telephone Number:
 Email Address: rcornez@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #	Other	Date		Time			
CS31	9/15/17	11:14	2	X				X									
CS32		11:19	2	X				X									
CS33		11:22	2	X				X									
CS34		11:26	2	X				X									
CS35		11:30	2	X				X									
CS36		11:33	2	X				X									
CS37		11:36	2	X				X									
CS38		11:40	2	X				X									
CS39		11:44	2	X				X									
Relinquished By: E.A. Hill	Date: 9/15/17	Time: 1651															
Relinquished By:	Date: 9/15/17	Time: 1651															

Turnaround Time:
 Same Day 24 Hr
 48 Hr 72 Hr
 Standard
 Date Results Needed: 9/15/17 1651
 Temp Received: 36
 Date Results Needed

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y709209

Client: Tasman

Client Project ID: KMG-16-80-40-4" Line Release

Checklist Completed by: DmL

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

Date/time completed: 9-15-17 1750

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °C

Thermometer ID: R003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 [Signature] (Project Manager)

Date/Time Reviewed 9-15-17 1750

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: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS40
9/15/2017 10:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 126 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 96.9 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS22
9/15/2017 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.0 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS23
9/15/2017 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 98.8 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS24
9/15/2017 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 97.0 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS25
9/15/2017 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/17/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.006	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS26
9/15/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 102 % 70-130 " " "
Surrogate: Toluene-d8 98.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS27
9/15/2017 10:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 113 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 103 % 70-130 " " "

Surrogate: Toluene-d8 98.7 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS28
9/15/2017 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 99.9 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS29

9/15/2017 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 106 % 70-130 " " "

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

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS30

9/15/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS31
9/15/2017 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS32

9/15/2017 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 101 % 70-130 " " "

Surrogate: Toluene-d8 97.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS33
9/15/2017 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 104 % 70-130 " " "
Surrogate: Toluene-d8 96.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS34

9/15/2017 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/15/2017	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 105 % 70-130 " " "

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

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS35
9/15/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 101 % 70-130 " " "
Surrogate: Toluene-d8 97.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS36
9/15/2017 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS37
9/15/2017 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/18/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 125 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 104 % 70-130 " " "
Surrogate: Toluene-d8 97.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS38

9/15/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 106 % 70-130 " " "

Surrogate: Toluene-d8 98.0 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

CS39

9/15/2017 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709209-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B711503	09/15/2017	09/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B711502	09/15/2017	09/16/2017	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 107 % 70-130 " " "

Surrogate: Toluene-d8 96.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)										
Blank (B711502-BLK1)										
Prepared: 09/15/2017 Analyzed: 09/15/2017										
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)										
Blank (B711502-BLK2)										
					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)										
Blank (B711502-BLK3)										
					Prepared: 09/15/2017 Analyzed: 09/15/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS1)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		99.4	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.6	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS2)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.092	0.002	mg/kg	0.100		92.5	77.1-124			
Toluene	0.094	0.002	"	0.100		94.3	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		91.8	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.1	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

LCS (B711502-BS3)

Prepared: 09/15/2017 Analyzed: 09/15/2017

Benzene	0.093	0.002	mg/kg	0.100		92.7	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.9	66.4-127			
m,p-Xylene	0.171	0.004	"	0.200		85.5	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.5	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.6	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike (B711502-MS3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	90.6	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	0.0006	89.2	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD1)	Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126	4.00	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.8	65.1-130	5.72	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130	4.85	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.5	46.5-137	5.74	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.2	54.2-134	5.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD2)	Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.5	71.8-126	8.51	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.3	65.1-130	7.57	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130	11.1	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	10.5	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.4	54.2-134	10.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711502 - EPA 5030 (soil)

Matrix Spike Dup (B711502-MSD3)	Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/15/2017						
Benzene	0.087	0.002	mg/kg	0.100	ND	86.8	71.8-126	4.26	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130	8.71	15.4	
Ethylbenzene	0.089	0.002	"	0.100	0.0006	88.6	62.2-130	0.693	19.6	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	46.5-137	2.22	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134	0.430	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711503 - EPA 3550B

Blank (B711503-BLK1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

Blank (B711503-BLK2)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

Blank (B711503-BLK3)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

LCS (B711503-BS1)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121			
Residual Range Organics (C28-C40)	812	200	"	1000		81.2	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

LCS (B711503-BS2)

Prepared: 09/15/2017 Analyzed: 09/17/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	64-121			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	58-124			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711503 - EPA 3550B										
LCS (B711503-BS2)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Surrogate: o-Terphenyl	56		mg/kg	50.0		112	59-131			
LCS (B711503-BS3)					Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	58-124			
Surrogate: o-Terphenyl	60		"	50.0		119	59-131			
Matrix Spike (B711503-MS1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	14.4	107	53-125			
Residual Range Organics (C28-C40)	936	200	"	1000	50.7	88.6	47-133			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
Matrix Spike (B711503-MS2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	17.5	106	53-125			
Residual Range Organics (C28-C40)	888	200	"	1000	44.4	84.4	47-133			
Surrogate: o-Terphenyl	54		"	50.0		109	59-131			
Matrix Spike (B711503-MS3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	23.8	104	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	37.1	82.3	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B711503-MSD1)		Source: Y709181-01			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	14.4	112	53-125	4.07	20	
Residual Range Organics (C28-C40)	976	200	"	1000	50.7	92.5	47-133	4.35	20	
Surrogate: o-Terphenyl	58		"	50.0		115	59-131			
Matrix Spike Dup (B711503-MSD2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89334975
 Project: KMG - 16-80-40-4" Line Release

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 B711503 - EPA 3550B										
Matrix Spike Dup (B711503-MSD2)		Source: Y709181-02			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	958	50.0	mg/kg	1000	17.5	94.1	53-125	11.6	20	
Residual Range Organics (C28-C40)	801	200	"	1000	44.4	75.6	47-133	10.9	20	
Surrogate: o-Terphenyl	49		"	50.0		97.9	59-131			
Matrix Spike Dup (B711503-MSD3)		Source: Y709181-03			Prepared: 09/15/2017 Analyzed: 09/17/2017					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	23.8	103	53-125	0.780	20	
Residual Range Organics (C28-C40)	861	200	"	1000	37.1	82.4	47-133	0.125	20	
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President