

January 03, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Platte Valley Gas Plant

Project Number - [none]

Attached are your analytical results for KMG - Platte Valley Gas Plant received by Origins Laboratory, Inc. December 30, 2016. This project is associated with Origins project number X612331-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 @ 6"	X612331-01	Soil	December 30, 2016 9:30	12/30/2016 16:10
N02 @ 6"	X612331-02	Soil	December 30, 2016 9:32	12/30/2016 16:10
N03 @ 6"	X612331-03	Soil	December 30, 2016 9:34	12/30/2016 16:10
N04 @ 6"	X612331-04	Soil	December 30, 2016 9:36	12/30/2016 16:10
N05 @ 6"	X612331-05	Soil	December 30, 2016 9:38	12/30/2016 16:10
S01 @ 6"	X612331-06	Soil	December 30, 2016 9:40	12/30/2016 16:10
S02 @ 6"	X612331-07	Soil	December 30, 2016 9:42	12/30/2016 16:10
S03 @ 6"	X612331-08	Soil	December 30, 2016 9:44	12/30/2016 16:10
S04 @ 6"	X612331-09	Soil	December 30, 2016 9:46	12/30/2016 16:10
S05 @ 6"	X612331-10	Soil	December 30, 2016 9:48	12/30/2016 16:10
S06 @ 6"	X612331-11	Soil	December 30, 2016 9:50	12/30/2016 16:10
W01 @ 6"	X612331-12	Soil	December 30, 2016 9:52	12/30/2016 16:10
W02 @ 6"	X612331-13	Soil	December 30, 2016 9:54	12/30/2016 16:10
W03 @ 6"	X612331-14	Soil	December 30, 2016 9:56	12/30/2016 16:10

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platte Valley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W04 @ 6"	X612331-15	Soil	December 30, 2016 9:58	12/30/2016 16:10
W05 @ 6"	X612331-16	Soil	December 30, 2016 10:00	12/30/2016 16:10
E01 @ 6"	X612331-17	Soil	December 30, 2016 10:02	12/30/2016 16:10
E02 @ 6"	X612331-18	Soil	December 30, 2016 10:04	12/30/2016 16:10
E03 @ 6"	X612331-19	Soil	December 30, 2016 10:06	12/30/2016 16:10
B01 @ 1'	X612331-20	Soil	December 30, 2016 10:08	12/30/2016 16:10
B02 @ 1'	X612331-21	Soil	December 30, 2016 10:10	12/30/2016 16:10
B03 @ 1'	X612331-22	Soil	December 30, 2016 10:12	12/30/2016 16:10
B04 @ 1'	X612331-23	Soil	December 30, 2016 10:14	12/30/2016 16:10
B05 @ 1'	X612331-24	Soil	December 30, 2016 10:16	12/30/2016 16:10
B06 @ 1'	X612331-25	Soil	December 30, 2016 10:18	12/30/2016 16:10
B07 @ 1'	X612331-26	Soil	December 30, 2016 10:20	12/30/2016 16:10
B08 @ 1'	X612331-27	Soil	December 30, 2016 10:22	12/30/2016 16:10

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

www.originslaboratory.com

X1012331

page 2 of 3

ORIGINS
 LABORATORY, INC

Client: APL
 Address: _____
 Telephone Number: 303-881-6525
 Email Address: ec@noelldoylemathis.com

Project Manager: Robert Cornez
 Project Name: Platte Valley Gas Plant
 Project Number: Z. M. J. J.
 Samples Collected By: _____

Sample ID Description	Time Date Sampled	Date Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	TFH 8015	EC		PH
SOLE1"	950	12/30/16	2	X				X				X	X	X	
W0106"	952														
W0206"	954														
W0306"	956														
W0406"	958														
W0506"	1000														
E0106"	1002														
E0206"	1004														
E0306"	1006														
SOLE1"	1008														
Relinquished By: <u>[Signature]</u>	Date: <u>12/30/16</u>	Time: <u>610</u>													
Relinquished By: <u>[Signature]</u>	Date: <u>12/30/16</u>	Time: <u>1610</u>													

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

Temp Received: 10.8 Date Results Needed: _____

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X121331

Client: Tasman

Client Project ID: KMG-Platte Valley Gas Plant

Checklist Completed by: Jen Pellegrini

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

Date/time completed: 12/30/12

Airbill #: NA

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

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

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				
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 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 12/30/12

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

N01 @ 6"
12/30/2016 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1720	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 97.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 94.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.61		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.814		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

N02 @ 6"
12/30/2016 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 93.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.60		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0416		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

N03 @ 6"
12/30/2016 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0444		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

N04 @ 6"
12/30/2016 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 94.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.62		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0196		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

N05 @ 6"
12/30/2016 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 94.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.108		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S01 @ 6"
12/30/2016 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	72.9	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 93.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.14		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.189		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S02 @ 6"

12/30/2016 9:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	499	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 94.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.48		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.274		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S03 @ 6"
12/30/2016 9:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

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

Surrogate: Toluene-d8 93.5 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.42		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0147		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S04 @ 6"
12/30/2016 9:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	175	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 74.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	0.003	0.002	"	"	"	"	"	
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 93.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.54		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.150		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S05 @ 6"
12/30/2016 9:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 98.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 93.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.88		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0543		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

S06 @ 6"

12/30/2016 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	436	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 94.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 93.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.58		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.309		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

W01 @ 6"
12/30/2016 9:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1680	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 75.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	0.002	0.002	"	"	"	"	"	
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 93.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.42		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.18		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

W02 @ 6"
12/30/2016 9:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/30/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 92.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.62		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0222		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

W03 @ 6"
12/30/2016 9:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-14 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	917	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/30/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
Surrogate: Toluene-d8 93.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.53		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.402		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

W04 @ 6"
12/30/2016 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-15 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
Surrogate: Toluene-d8 92.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.18		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0879		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

W05 @ 6"
12/30/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-16 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	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	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 92.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.08		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0364		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

E01 @ 6"
12/30/2016 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-17 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	235	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 99.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 94.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.41		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.366		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

E02 @ 6"
12/30/2016 10:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-18 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 92.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.97		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.169		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

E03 @ 6"
12/30/2016 10:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-19 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 93.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.47		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0423		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B01 @ 1'
12/30/2016 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-20 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 93.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.91		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0532		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B02 @ 1'
12/30/2016 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-21 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 92.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.62		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0169		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B03 @ 1'
12/30/2016 10:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-22 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 90.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.54		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0140		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B04 @ 1'
12/30/2016 10:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-23 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 93.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.37		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0219		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B05 @ 1'
12/30/2016 10:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-24 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 92.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.76		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0261		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B06 @ 1'
12/30/2016 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-25 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 91.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	4.63		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0252		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B07 @ 1'
12/30/2016 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-26 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 91.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.18		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0102		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

B08 @ 1'
12/30/2016 10:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X612331-27 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L3005	12/30/2016	12/31/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6L3004	12/30/2016	12/31/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
Surrogate: Toluene-d8 93.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.21		pH Units	1	B6L3006	12/30/2016	12/30/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0130		mmhos/cm	"	B6L3007	12/30/2016	12/30/2016	
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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)										
Blank (B6L3004-BLK1)										
					Prepared: 12/30/2016 Analyzed: 12/30/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)										
Blank (B6L3004-BLK2)										
					Prepared: 12/30/2016 Analyzed: 12/30/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

LCS (B6L3004-BS1)

Prepared: 12/30/2016 Analyzed: 12/30/2016

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.095	0.002	"	0.100		94.9	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.5	66.4-127			
m,p-Xylene	0.197	0.004	"	0.200		98.4	76.6-124			
o-Xylene	0.095	0.002	"	0.100		95.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

LCS (B6L3004-BS2)

Prepared: 12/30/2016 Analyzed: 12/30/2016

Benzene	0.097	0.002	mg/kg	0.100		97.3	77.1-124			
Toluene	0.087	0.002	"	0.100		86.9	74.5-128			
Ethylbenzene	0.085	0.002	"	0.100		85.4	66.4-127			
m,p-Xylene	0.174	0.004	"	0.200		86.9	76.6-124			
o-Xylene	0.084	0.002	"	0.100		83.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.3	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

Matrix Spike (B6L3004-MS1)	Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	99.0	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	99.5	62.2-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	98.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		87.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

Matrix Spike (B6L3004-MS2)	Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/30/2016						
Benzene	0.100	0.002	mg/kg	0.100	ND	99.5	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	89.4	65.1-130			
Ethylbenzene	0.086	0.002	"	0.100	ND	86.1	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	87.8	46.5-137			
o-Xylene	0.084	0.002	"	0.100	ND	84.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	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: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

Matrix Spike Dup (B6L3004-MSD1)	Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	3.98	11.3	
Toluene	0.095	0.002	"	0.100	ND	94.8	65.1-130	4.33	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	97.1	62.2-130	2.46	19.6	
m,p-Xylene	0.198	0.004	"	0.200	ND	99.0	46.5-137	2.62	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.4	54.2-134	1.97	17.9	
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3004 - EPA 5030 (soil)

Matrix Spike Dup (B6L3004-MSD2)	Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/30/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	8.36	11.3	
Toluene	0.097	0.002	"	0.100	ND	97.2	65.1-130	8.36	15.4	
Ethylbenzene	0.096	0.002	"	0.100	ND	96.4	62.2-130	11.2	19.6	
m,p-Xylene	0.195	0.004	"	0.200	ND	97.3	46.5-137	10.3	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.3	54.2-134	9.95	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3005 - EPA 3580

Blank (B6L3005-BLK1)

Prepared: 12/30/2016 Analyzed: 12/30/2016

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 (B6L3005-BLK2)

Prepared: 12/30/2016 Analyzed: 12/30/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.8	59-131			

LCS (B6L3005-BS1)

Prepared: 12/30/2016 Analyzed: 12/30/2016

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

LCS (B6L3005-BS2)

Prepared: 12/30/2016 Analyzed: 12/30/2016

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	64-121			
Residual Range Organics (C28-C40)	998	200	"	1000		99.8	58-124			
Surrogate: o-Terphenyl	53		"	50.0		107	59-131			

Matrix Spike (B6L3005-MS1)

Source: X612331-01

Prepared: 12/30/2016 Analyzed: 12/30/2016

Diesel (C10-C28)	2530	50.0	mg/kg	1000	1720	80.9	53-125			
Residual Range Organics (C28-C40)	932	200	"	1000	ND	93.2	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

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 B6L3005 - EPA 3580										
Matrix Spike (B6L3005-MS1)		Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016					
Surrogate: o-Terphenyl	44		mg/kg	50.0		88.5	59-131			
Matrix Spike (B6L3005-MS2)		Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/31/2016					
Diesel (C10-C28)	999	50.0	mg/kg	1000	ND	99.9	53-125			
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	47-133			
Surrogate: o-Terphenyl	43		"	50.0		85.8	59-131			
Matrix Spike Dup (B6L3005-MSD1)		Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016					
Diesel (C10-C28)	2570	50.0	mg/kg	1000	1720	84.8	53-125	4.75	20	
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	47-133	2.73	20	
Surrogate: o-Terphenyl	45		"	50.0		89.3	59-131			
Matrix Spike Dup (B6L3005-MSD2)		Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/31/2016					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	53-125	5.44	20	
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	47-133	1.71	20	
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Platte Valley Gas Plant

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6L3006 - NO PREP										
Duplicate (B6L3006-DUP1)		Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016					
pH	9.56		pH Units		9.61			0.522	25	
Duplicate (B6L3006-DUP2)		Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/30/2016					
pH	7.69		pH Units		7.60			1.18	25	
Batch B6L3007 - NO PREP										
Blank (B6L3007-BLK1)					Prepared: 12/30/2016 Analyzed: 12/30/2016					
Specific Conductance (EC)	0.00280		mmhos/cm							
Blank (B6L3007-BLK2)					Prepared: 12/30/2016 Analyzed: 12/30/2016					
Specific Conductance (EC)	0.00280		mmhos/cm							
Duplicate (B6L3007-DUP1)		Source: X612331-01			Prepared: 12/30/2016 Analyzed: 12/30/2016					
Specific Conductance (EC)	0.779		mmhos/cm		0.814			4.39	25	
Duplicate (B6L3007-DUP2)		Source: X612331-02			Prepared: 12/30/2016 Analyzed: 12/30/2016					
Specific Conductance (EC)	0.0489		mmhos/cm		0.0416			16.1	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platte Valley Gas Plant

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

January 13, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Platte Valley Gas Plant

Project Number - 88722952

Attached are your analytical results for KMG - Platte Valley Gas Plant received by Origins Laboratory, Inc. January 12, 2017. This project is associated with Origins project number X701123-01.

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: 88722952
Project: KMG - Platte Valley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N06 @ 6"	X701123-01	Soil	January 12, 2017 10:30	01/12/2017 16:17
N07 @ 6"	X701123-02	Soil	January 12, 2017 10:35	01/12/2017 16:17
N08 @ 6"	X701123-03	Soil	January 12, 2017 10:40	01/12/2017 16:17
S06 @ 6"	X701123-04	Soil	January 12, 2017 10:45	01/12/2017 16:17
S07 @ 6"	X701123-05	Soil	January 12, 2017 10:50	01/12/2017 16:17
S08 @ 6"	X701123-06	Soil	January 12, 2017 10:55	01/12/2017 16:17
S09 @ 6"	X701123-07	Soil	January 12, 2017 11:00	01/12/2017 16:17
S10 @ 6"	X701123-08	Soil	January 12, 2017 11:05	01/12/2017 16:17
W06 @ 6"	X701123-09	Soil	January 12, 2017 11:10	01/12/2017 16:17
W07 @ 6"	X701123-10	Soil	January 12, 2017 11:15	01/12/2017 16:17
W08 @ 6"	X701123-11	Soil	January 12, 2017 11:20	01/12/2017 16:17
B09 @ 2'	X701123-12	Soil	January 12, 2017 11:25	01/12/2017 16:17
B10 @ 2'	X701123-13	Soil	January 12, 2017 11:30	01/12/2017 16:17

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: 88722952
 Project: KMG - Platte Valley Gas Plant

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X701123

Client: Tasman

Client Project ID: Platte Valley Gas Plant

Checklist Completed by: Jeff Smith

Shipped Via: HTA Pk Mail
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1-12-12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.1 °C 1 °C 1 °C 1 °C

Thermometer ID: 7003

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

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

Reviewed by (Project Manager) _____

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: 88722952
 Project: KMG - Platte Valley Gas Plant

N06 @ 6"
1/12/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	65.9	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/13/2017	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 97.5 % 70-130 " " "
 Surrogate: Toluene-d8 99.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.22		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.427		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

N07 @ 6"
1/12/2017 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 99.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	4.39		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0368		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

N08 @ 6"
1/12/2017 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 97.1 % 70-130 " " "
Surrogate: Toluene-d8 99.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.12		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0280		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

S06 @ 6"

1/12/2017 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	174	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 97.5 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.18		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.317		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

S07 @ 6"
1/12/2017 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	31.4	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 98.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.12		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.190		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

S08 @ 6"

1/12/2017 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	88.6	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 98.1 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.91		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.467		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

S09 @ 6"

1/12/2017 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	93.9	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.5 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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	98.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.01		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.313		mmhos/cm	"	B7A1207	"	01/12/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

S10 @ 6"
1/12/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	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 99.0 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.54		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113		mmhos/cm	"	B7A1207	"	01/12/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

W06 @ 6"

1/12/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	650	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/12/2017	U
Benzene	0.012	0.002	"	"	"	"	"	
Toluene	0.003	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.36		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.992		mmhos/cm	"	B7A1207	"	01/12/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

W07 @ 6"
1/12/2017 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	533	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	
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	B7A1204	"	01/12/2017	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 97.6 % 70-130 " " "
 Surrogate: Toluene-d8 99.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.51		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.457		mmhos/cm	"	B7A1207	"	01/12/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

W08 @ 6"
1/12/2017 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/13/2017	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 97.5 % 70-130 " " "
Surrogate: Toluene-d8 97.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.70		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0419		mmhos/cm	"	B7A1207	"	01/12/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

B09 @ 2'
1/12/2017 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-12 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/13/2017	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 97.2 % 70-130 " " "
Surrogate: Toluene-d8 97.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.13		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0432		mmhos/cm	"	B7A1207	"	01/12/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

B10 @ 2'
1/12/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701123-13 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A1203	01/12/2017	01/12/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7A1204	"	01/13/2017	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 100 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	4.64		pH Units	1	B7A1206	01/12/2017	01/12/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.171		mmhos/cm	"	B7A1207	"	01/12/2017	
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 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)										
Blank (B7A1204-BLK1)										
					Prepared: 01/12/2017 Analyzed: 01/12/2017					
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		99.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)										
Blank (B7A1204-BLK2)										
					Prepared: 01/12/2017 Analyzed: 01/12/2017					
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	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

LCS (B7A1204-BS1)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.112	0.002	"	0.100		112	66.4-127			
m,p-Xylene	0.227	0.004	"	0.200		114	76.6-124			
o-Xylene	0.114	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		87.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

LCS (B7A1204-BS2)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.115	0.002	"	0.100		115	74.5-128			
Ethylbenzene	0.115	0.002	"	0.100		115	66.4-127			
m,p-Xylene	0.233	0.004	"	0.200		116	76.6-124			
o-Xylene	0.118	0.002	"	0.100		118	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

Matrix Spike (B7A1204-MS1)	Source: X701118-01			Prepared: 01/12/2017 Analyzed: 01/12/2017						
Benzene	0.120	0.002	mg/kg	0.100	ND	120	71.8-126			
Toluene	0.129	0.002	"	0.100	ND	129	65.1-130			
Ethylbenzene	0.128	0.002	"	0.100	ND	128	62.2-130			
m,p-Xylene	0.260	0.004	"	0.200	ND	130	46.5-137			
o-Xylene	0.130	0.002	"	0.100	ND	130	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		80.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

Matrix Spike (B7A1204-MS2)	Source: X701118-02			Prepared: 01/12/2017 Analyzed: 01/12/2017						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126			
Toluene	0.114	0.002	"	0.100	ND	114	65.1-130			
Ethylbenzene	0.114	0.002	"	0.100	ND	114	62.2-130			
m,p-Xylene	0.232	0.004	"	0.200	ND	116	46.5-137			
o-Xylene	0.117	0.002	"	0.100	ND	117	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

Matrix Spike Dup (B7A1204-MSD1)	Source: X701118-01			Prepared: 01/12/2017 Analyzed: 01/12/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	14.3	11.3	QR-02
Toluene	0.111	0.002	"	0.100	ND	111	65.1-130	14.9	15.4	
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130	15.1	19.6	
m,p-Xylene	0.223	0.004	"	0.200	ND	111	46.5-137	15.4	19.2	
o-Xylene	0.113	0.002	"	0.100	ND	113	54.2-134	13.5	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1204 - EPA 5030 (soil)

Matrix Spike Dup (B7A1204-MSD2)	Source: X701118-02			Prepared: 01/12/2017 Analyzed: 01/12/2017						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126	7.50	11.3	
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130	6.89	15.4	
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130	7.50	19.6	
m,p-Xylene	0.211	0.004	"	0.200	ND	106	46.5-137	9.45	19.2	
o-Xylene	0.109	0.002	"	0.100	ND	109	54.2-134	7.69	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1203 - EPA 3580

Blank (B7A1203-BLK1)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		95.2	59-131			

Blank (B7A1203-BLK2)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

LCS (B7A1203-BS1)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Diesel (C10-C28)	891	50.0	mg/kg	1000		89.1	64-121			
Residual Range Organics (C28-C40)	698	200	"	1000		69.8	58-124			
Surrogate: o-Terphenyl	41		"	50.0		81.7	59-131			

LCS (B7A1203-BS2)

Prepared: 01/12/2017 Analyzed: 01/12/2017

Diesel (C10-C28)	894	50.0	mg/kg	1000		89.4	64-121			
Residual Range Organics (C28-C40)	757	200	"	1000		75.7	58-124			
Surrogate: o-Terphenyl	42		"	50.0		85.0	59-131			

Matrix Spike (B7A1203-MS1)

Source: X701098-01

Prepared: 01/12/2017 Analyzed: 01/12/2017

Diesel (C10-C28)	1160	50.0	mg/kg	1000	240	92.3	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A1203 - EPA 3580										
Matrix Spike (B7A1203-MS1)			Source: X701098-01		Prepared: 01/12/2017 Analyzed: 01/12/2017					
Surrogate: o-Terphenyl	44		mg/kg	50.0		88.9	59-131			
Matrix Spike (B7A1203-MS2)			Source: X701118-02		Prepared: 01/12/2017 Analyzed: 01/12/2017					
Diesel (C10-C28)	869	50.0	mg/kg	1000	16.6	85.2	53-125			
Residual Range Organics (C28-C40)	754	200	"	1000	ND	75.4	47-133			
Surrogate: o-Terphenyl	40		"	50.0		80.5	59-131			
Matrix Spike Dup (B7A1203-MSD1)			Source: X701098-01		Prepared: 01/12/2017 Analyzed: 01/12/2017					
Diesel (C10-C28)	1400	50.0	mg/kg	1000	240	116	53-125	22.6	20	QM-07
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	47-133	11.1	20	
Surrogate: o-Terphenyl	46		"	50.0		92.5	59-131			
Matrix Spike Dup (B7A1203-MSD2)			Source: X701118-02		Prepared: 01/12/2017 Analyzed: 01/12/2017					
Diesel (C10-C28)	866	50.0	mg/kg	1000	16.6	85.0	53-125	0.316	20	
Residual Range Organics (C28-C40)	755	200	"	1000	ND	75.5	47-133	0.111	20	
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 88722952
 Project: KMG - Platte Valley Gas Plant

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7A1206 - NO PREP										
Duplicate (B7A1206-DUP1)		Source: X701120-01			Prepared: 01/12/2017 Analyzed: 01/12/2017					
pH	6.74		pH Units		6.57			2.55	25	
Duplicate (B7A1206-DUP2)		Source: X701123-01			Prepared: 01/12/2017 Analyzed: 01/12/2017					
pH	9.15		pH Units		9.22			0.762	25	
Batch B7A1207 - NO PREP										
Blank (B7A1207-BLK1)		Prepared: 01/12/2017 Analyzed: 01/12/2017								
Specific Conductance (EC)	0.00280		mmhos/cm							
Duplicate (B7A1207-DUP1)		Source: X701120-01			Prepared: 01/12/2017 Analyzed: 01/12/2017					
Specific Conductance (EC)	0.0304		mmhos/cm		0.0284			6.80	25	
Duplicate (B7A1207-DUP2)		Source: X701123-01			Prepared: 01/12/2017 Analyzed: 01/12/2017					
Specific Conductance (EC)	0.484		mmhos/cm		0.427			12.5	25	

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88722952
Project: KMG - Platte Valley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Platte Valley Gas Plant

Project Number - WO#:88722952

Attached are your analytical results for KMG - Platte Valley Gas Plant received by Origins Laboratory, Inc. January 24, 2017. This project is associated with Origins project number X701265-01.

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: WO#:88722952
Project: KMG - Platte Valley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N09@6"	X701265-01	Soil	January 24, 2017 10:00	01/24/2017 17:00
N10@2'	X701265-02	Soil	January 24, 2017 10:05	01/24/2017 17:00
N11@1'	X701265-03	Soil	January 24, 2017 10:10	01/24/2017 17:00
S11@6"	X701265-04	Soil	January 24, 2017 10:15	01/24/2017 17:00
S12@6"	X701265-05	Soil	January 24, 2017 10:20	01/24/2017 17:00
S13@2'	X701265-06	Soil	January 24, 2017 10:25	01/24/2017 17:00
E04@2'	X701265-07	Soil	January 24, 2017 10:30	01/24/2017 17:00
W11@6"	X701265-08	Soil	January 24, 2017 10:35	01/24/2017 17:00
W09@6"	X701265-09	Soil	January 24, 2017 10:40	01/24/2017 17:00
W10@2'	X701265-10	Soil	January 24, 2017 10:45	01/24/2017 17:00
B11@3'	X701265-11	Soil	January 24, 2017 10:50	01/24/2017 17:00

Per the email from Zach on 1/25/17, sample ID N10@6" was changed to N10@2' and S13@6" was changed to S13@2'.

Per the phone call from Zach on 02/09/17 sample W08@6" was changed to W11@6".

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: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

www.originslaboratory.com

X701265

page 1 of 2

ORIGINS
 LABORATORY, INC

Client: APC
 Address: _____
 Telephone Number: 303-889-4525
 Email Address: pecon@originslab.com

Project Manager: Robert Cornez
 Project Name: Platte Valley Gas Plant (VGP)
 Project Number: WO#: 88722952
 Samples Collected By: Z. Mathis, R. Ervin

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	CBTEX	TPH-Droptail	RAIS		VH	LC
N0906"	1/24/17	1000	2	X				X					X	X	X		
N1006"		1005															
N1106"		1010															
S1106"		1015															
S1206"		1020															
S1306"		1025															
E0402'		1030															
W0806"		1035															
W0706"		1040															
W1002'		1045															
Relinquished by: <u>[Signature]</u>	Date: <u>1/24/17</u>	Time: <u>1700</u>															
Relinquished by: <u>[Signature]</u>	Date: <u>1/24/17</u>	Time: <u>1700</u>															

Temp Received- 5.1
 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: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X701265

Client: Tasman
 Client Project ID: KMG Platte Valley Gas Plant

Checklist Completed by: MS

Shipped Via: PL
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Date/time completed: 1/24/17

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

Cooler Number/Temperature: 15.1 °C 1 °C 1 °C 1 °C

Thermometer ID: TC05

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N10@6" on COC S13@6" on COC
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO3, HCl, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): Contact client 1/25 AM regarding sample discrepancy on samples N10@6" & S13@6"				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/24/17

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: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

N09@6"

1/24/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 95.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/24/2017	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 95.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.67		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0136		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

N10@2'
1/24/2017 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701265-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/24/2017	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 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.10		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0594		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

N11@1'
 1/24/2017 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	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	B7A2405	01/24/2017	01/24/2017	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 94.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.72		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0899		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

S11@6"

1/24/2017 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701265-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 118 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/24/2017	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 94.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.52		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0183		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

S12@6"

1/24/2017 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701265-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	251	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 99.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 95.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.20		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.280		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

S13@2'

1/24/2017 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701265-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 94.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.01		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0429		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

E04@2'

1/24/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 109 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 94.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.76		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.517		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

W11@6"

1/24/2017 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 96.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 95.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	6.99		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0258		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

W09@6"

1/24/2017 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 97.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 95.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

pH in Soil by EPA 9045D

pH	5.61		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0269		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

W10@2'
1/24/2017 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701265-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 95.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

pH in Soil by EPA 9045D

pH	4.50		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0864		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

B11@3'

1/24/2017 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X701265-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2406	01/24/2017	01/25/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2405	01/24/2017	01/25/2017	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 94.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.35		pH Units	1	B7A2407	01/24/2017	01/24/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.606		mmhos/cm	"	B7A2408	01/24/2017	01/24/2017	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)										
Blank (B7A2405-BLK1)										
					Prepared: 01/24/2017 Analyzed: 01/24/2017					
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		99.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)										
Blank (B7A2405-BLK2)										
					Prepared: 01/24/2017 Analyzed: 01/24/2017					
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	61		ug/kg	62.5		98.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)										
Blank (B7A2405-BLK3)										
					Prepared: 01/24/2017 Analyzed: 01/24/2017					
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		98.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

LCS (B7A2405-BS1)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		106	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

LCS (B7A2405-BS2)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.106	0.002	"	0.100		106	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	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		79.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

LCS (B7A2405-BS3)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.217	0.004	"	0.200		109	76.6-124			
o-Xylene	0.109	0.002	"	0.100		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike (B7A2405-MS1)	Source: X701259-01			Prepared: 01/24/2017 Analyzed: 01/24/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.096	0.002	"	0.100	0.015	80.5	65.1-130			
Ethylbenzene	0.123	0.002	"	0.100	0.013	110	62.2-130			
m,p-Xylene	0.485	0.004	"	0.200	0.284	100	46.5-137			
o-Xylene	0.195	0.002	"	0.100	0.068	127	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.7	70-130			
Surrogate: Toluene-d8	39		"	62.5		62.4	70-130			QM-07
Surrogate: 4-Bromofluorobenzene	91		"	62.5		145	70-130			QM-07

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike (B7A2405-MS2)	Source: X701259-02			Prepared: 01/24/2017 Analyzed: 01/25/2017						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	98.2	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	95.8	62.2-130			
m,p-Xylene	0.194	0.004	"	0.200	ND	96.8	46.5-137			
o-Xylene	0.097	0.002	"	0.100	ND	97.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike (B7A2405-MS3)	Source: X701259-03			Prepared: 01/24/2017 Analyzed: 01/25/2017						
Benzene	0.112	0.002	mg/kg	0.100	ND	112	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.105	0.002	"	0.100	0.002	103	62.2-130			
m,p-Xylene	0.213	0.004	"	0.200	0.005	104	46.5-137			
o-Xylene	0.107	0.002	"	0.100	0.0007	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike Dup (B7A2405-MSD1)	Source: X701259-01			Prepared: 01/24/2017 Analyzed: 01/24/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126	0.403	11.3	
Toluene	0.099	0.002	"	0.100	0.015	83.9	65.1-130	3.54	15.4	
Ethylbenzene	0.117	0.002	"	0.100	0.013	104	62.2-130	5.31	19.6	
m,p-Xylene	0.422	0.004	"	0.200	0.284	68.8	46.5-137	13.8	19.2	
o-Xylene	0.180	0.002	"	0.100	0.068	112	54.2-134	8.10	17.9	
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.9	70-130			
Surrogate: Toluene-d8	52		"	62.5		82.6	70-130			
Surrogate: 4-Bromofluorobenzene	81		"	62.5		130	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike Dup (B7A2405-MSD2)	Source: X701259-02			Prepared: 01/24/2017 Analyzed: 01/25/2017						
Benzene	0.100	0.002	mg/kg	0.100	ND	99.9	71.8-126	2.96	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.4	65.1-130	3.86	15.4	
Ethylbenzene	0.094	0.002	"	0.100	ND	94.5	62.2-130	1.39	19.6	
m,p-Xylene	0.189	0.004	"	0.200	ND	94.5	46.5-137	2.34	19.2	
o-Xylene	0.094	0.002	"	0.100	ND	94.3	54.2-134	2.88	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2405 - EPA 5030 (soil)

Matrix Spike Dup (B7A2405-MSD3)	Source: X701259-03			Prepared: 01/24/2017 Analyzed: 01/25/2017						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	1.55	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	1.01	15.4	
Ethylbenzene	0.103	0.002	"	0.100	0.002	101	62.2-130	2.21	19.6	
m,p-Xylene	0.207	0.004	"	0.200	0.005	101	46.5-137	2.59	19.2	
o-Xylene	0.105	0.002	"	0.100	0.0007	104	54.2-134	2.02	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2406 - EPA 3580

Blank (B7A2406-BLK1)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.7	59-131			

Blank (B7A2406-BLK2)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	39		"	50.0		77.6	59-131			

Blank (B7A2406-BLK3)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.3	59-131			

LCS (B7A2406-BS1)

Prepared: 01/24/2017 Analyzed: 01/24/2017

Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	935	50.0	"	1000		93.5	64-121			
Residual Range Organics (C28-C40)	970	200	"	1000		97.0	58-124			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

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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
Batch B7A2406 - EPA 3580										
LCS (B7A2406-BS2)					Prepared: 01/24/2017 Analyzed: 01/24/2017					
Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	937	50.0	"	1000		93.7	64-121			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	58-124			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			
LCS (B7A2406-BS3)					Prepared: 01/24/2017 Analyzed: 01/24/2017					
Dodecane (Surrogate)	ND	1.00	mg/kg				70-130			U
Diesel (C10-C28)	1020	50.0	"	1000		102	64-121			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	58-124			
Surrogate: o-Terphenyl	56		"	50.0		111	59-131			
Matrix Spike (B7A2406-MS1)					Source: X701259-01		Prepared: 01/24/2017 Analyzed: 01/24/2017			
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	958	50.0	"	1000	55.3	90.3	53-125			
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
Matrix Spike (B7A2406-MS2)					Source: X701259-02		Prepared: 01/24/2017 Analyzed: 01/24/2017			
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	1060	50.0	"	1000	ND	106	53-125			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	47-133			
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			
Matrix Spike (B7A2406-MS3)					Source: X701259-03		Prepared: 01/24/2017 Analyzed: 01/24/2017			
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	1010	50.0	"	1000	ND	101	53-125			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	47-133			

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Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

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 B7A2406 - EPA 3580										
Matrix Spike (B7A2406-MS3)			Source: X701259-03		Prepared: 01/24/2017 Analyzed: 01/24/2017					
Surrogate: o-Terphenyl	48		mg/kg	50.0		95.4	59-131			
Matrix Spike Dup (B7A2406-MSD1)			Source: X701259-01		Prepared: 01/24/2017 Analyzed: 01/24/2017					
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	802	50.0	"	1000	55.3	74.6	53-125	19.0	20	
Residual Range Organics (C28-C40)	746	200	"	1000	ND	74.6	47-133	25.7	20	QR-02
Surrogate: o-Terphenyl	40		"	50.0		79.4	59-131			
Matrix Spike Dup (B7A2406-MSD2)			Source: X701259-02		Prepared: 01/24/2017 Analyzed: 01/24/2017					
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	924	50.0	"	1000	ND	92.4	53-125	13.3	20	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	47-133	16.2	20	
Surrogate: o-Terphenyl	42		"	50.0		83.2	59-131			
Matrix Spike Dup (B7A2406-MSD3)			Source: X701259-03		Prepared: 01/24/2017 Analyzed: 01/24/2017					
Dodecane (Surrogate)	ND	1.00	mg/kg		ND		70-130			U
Diesel (C10-C28)	968	50.0	"	1000	ND	96.8	53-125	4.28	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	5.13	20	
Surrogate: o-Terphenyl	43		"	50.0		86.4	59-131			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: WO#:88722952
 Project: KMG - Platte Valley Gas Plant

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7A2407 - NO PREP										
Duplicate (B7A2407-DUP1)		Source: X701259-01			Prepared: 01/24/2017 Analyzed: 01/24/2017					
pH	8.49		pH Units		8.85			4.15	25	
Duplicate (B7A2407-DUP2)		Source: X701259-02			Prepared: 01/24/2017 Analyzed: 01/24/2017					
pH	8.80		pH Units		8.89			1.02	25	
Duplicate (B7A2407-DUP3)		Source: X701259-03			Prepared: 01/24/2017 Analyzed: 01/24/2017					
pH	8.54		pH Units		8.57			0.351	25	
Batch B7A2408 - NO PREP										
Blank (B7A2408-BLK1)					Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.00340		mmhos/cm							
Blank (B7A2408-BLK2)					Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.00340		mmhos/cm							
Blank (B7A2408-BLK3)					Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B7A2408-DUP1)		Source: X701259-01			Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.245		mmhos/cm		0.238			2.90	25	
Duplicate (B7A2408-DUP2)		Source: X701259-02			Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.209		mmhos/cm		0.217			3.76	25	
Duplicate (B7A2408-DUP3)		Source: X701259-03			Prepared: 01/24/2017 Analyzed: 01/24/2017					
Specific Conductance (EC)	0.231		mmhos/cm		0.233			0.862	25	

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Denver CO 80211

Bob Cornez
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Project: KMG - Platte Valley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President