

March 08, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Hicks Ruth Elizabeth #2

Project Number - 89249235

Attached are your analytical results for KMG - Hicks Ruth Elizabeth #2 received by Origins Laboratory, Inc. March 07, 2017. This project is associated with Origins project number Y703107-01.

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: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@12'	Y703107-01	Soil	March 7, 2017 14:30	03/07/2017 17:00
S01@10'	Y703107-02	Soil	March 7, 2017 14:45	03/07/2017 17:00

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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703107

Client: Tasman

Client Project ID: KMG - Hicks Ruth Elizabeth #2

Checklist Completed by: DKL

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

Date/time completed: 3-7-12 1715

Airbill #: WA

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

Cooler Number/Temperature: 1 / 17.2 °C 1 / °C 1 / °C (Describe) 1 / °C

Thermometer ID: 1003

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

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

Reviewed by (Project Manager) DKL

Date/Time Reviewed 3-7-12 1716

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

B01@12'
3/7/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703107-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0705	03/07/2017	03/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7C0704	03/07/2017	03/08/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

S01@10'
3/7/2017 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703107-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	28.8	25.0	mg/kg	1	B7C0705	03/07/2017	03/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	17.1	5.00	mg/kg	25	B7C0704	03/07/2017	03/08/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0704 - EPA 5030 (soil)										
Blank (B7C0704-BLK2)										
					Prepared: 03/07/2017 Analyzed: 03/07/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0704 - EPA 5030 (soil)

LCS (B7C0704-BS2)

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

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.108	0.002	"	0.100		108	66.4-127			
m,p-Xylene	0.222	0.004	"	0.200		111	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0704 - EPA 5030 (soil)

Matrix Spike (B7C0704-MS2)	Source: Y703011-03			Prepared: 03/07/2017 Analyzed: 03/07/2017						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	97.9	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.3	62.2-130			
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	91.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0704 - EPA 5030 (soil)

Matrix Spike Dup (B7C0704-MSD2)	Source: Y703011-03			Prepared: 03/07/2017 Analyzed: 03/07/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.968	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	4.03	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.2	62.2-130	9.37	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	9.20	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	8.80	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0705 - EPA 3580

Blank (B7C0705-BLK1)

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

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	54		"	50.0		107	59-131			

LCS (B7C0705-BS1)

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

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	58-124			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

Matrix Spike (B7C0705-MS1)

Source: Y703098-01

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

Diesel (C10-C28)	1490	50.0	mg/kg	1000	407	109	53-125			
Residual Range Organics (C28-C40)	1160	200	"	1000	70.5	109	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.9	59-131			

Matrix Spike Dup (B7C0705-MSD1)

Source: Y703098-01

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

Diesel (C10-C28)	1430	50.0	mg/kg	1000	407	102	53-125	6.44	20	
Residual Range Organics (C28-C40)	1130	200	"	1000	70.5	106	47-133	3.10	20	
Surrogate: o-Terphenyl	49		"	50.0		98.3	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

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

March 09, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Hicks Ruth Elizabeth #2

Project Number - 89249235

Attached are your analytical results for KMG - Hicks Ruth Elizabeth #2 received by Origins Laboratory, Inc. March 08, 2017. This project is associated with Origins project number Y703125-01.

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: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@10'	Y703125-01	Soil	March 8, 2017 13:30	03/08/2017 16:50
E01@10'	Y703125-02	Soil	March 8, 2017 13:35	03/08/2017 16:50
E02@10'	Y703125-03	Soil	March 8, 2017 13:40	03/08/2017 16:50
W01@10'	Y703125-04	Soil	March 8, 2017 13:45	03/08/2017 16:50
W02@10'	Y703125-05	Soil	March 8, 2017 13:50	03/08/2017 16:50
GW01	Y703125-06	Water	March 8, 2017 13:15	03/08/2017 16:50

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703125 Client: Tasman
 Client Project ID: KMG: Hicks Ruth Elizabeth #2
 Checklist Completed by: [Signature] Shipped Via: Hand Pick-up
 Date/time completed: 3-8-17 11:17 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 19.0 °C 1 / _____ °C 1 / _____ °C (Describe)
 Thermometer ID: 7603

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"/>		sampled same day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3-8-17 12:18

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

N01@10'
3/8/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1.50	0.200	mg/kg	1	B7C0802	03/08/2017	03/09/2017	
Benzene	0.016	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.023	0.002	"	"	"	"	"	
Xylenes, total	0.029	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 98.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

E01@10'
3/8/2017 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	738	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	133	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	140	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	0.052	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.534	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "
 Surrogate: Toluene-d8 128 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

E02@10'
3/8/2017 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	19.9	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.9 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

W01@10'
3/8/2017 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	153	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 62.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	140	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

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 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

W02@10'
3/8/2017 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	774	25.0	mg/kg	1	B7C0807	03/08/2017	03/09/2017	
Residual Range Organics (C28-C40)	125	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 100 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	51.1	5.00	mg/kg	25	B7C0802	03/08/2017	03/09/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.184	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 109 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

GW01
3/8/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703125-06 (Water)

BTEX by EPA 8260C

Benzene	88.3	4.00	ug/L	4	B7C0805	03/08/2017	03/09/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	59.5	4.00	"	"	"	"	"	
Xylenes, total	122	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	03/08/2017	
Surrogate: Toluene-d8	98.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	84-114			"	"	"	

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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Blank (B7C0802-BLK1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0802 - EPA 5030 (soil)										
Blank (B7C0802-BLK2)										
					Prepared: 03/08/2017 Analyzed: 03/08/2017					
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	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Blank (B7C0802-BLK3)

Prepared: 03/08/2017 Analyzed: 03/08/2017

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	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

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 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Blank (B7C0802-BLK4)

Prepared: 03/08/2017 Analyzed: 03/08/2017

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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

LCS (B7C0802-BS1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.115	0.002	mg/kg	0.100		115	77.1-124			
Toluene	0.114	0.002	"	0.100		114	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.229	0.004	"	0.200		114	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

LCS (B7C0802-BS2)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.229	0.004	"	0.200		114	76.6-124			
o-Xylene	0.112	0.002	"	0.100		112	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

LCS (B7C0802-BS3)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C0802 - EPA 5030 (soil)

LCS (B7C0802-BS4)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS1)	Source: Y703051-01			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	ND	107	46.5-137			
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS2)	Source: Y703051-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.229	0.004	"	0.200	ND	115	46.5-137			
o-Xylene	0.112	0.002	"	0.100	ND	112	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS3)	Source: Y703051-03			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Bob Cornez
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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike (B7C0802-MS4)	Source: Y703130-01			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.5	62.2-130			
m,p-Xylene	0.199	0.004	"	0.200	ND	99.7	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD1)	Source: Y703051-01			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126	6.92	11.3	
Toluene	0.114	0.002	"	0.100	ND	114	65.1-130	7.02	15.4	
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130	7.64	19.6	
m,p-Xylene	0.231	0.004	"	0.200	ND	116	46.5-137	7.67	19.2	
o-Xylene	0.115	0.002	"	0.100	ND	115	54.2-134	7.74	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD2)	Source: Y703051-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	9.69	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	7.31	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	9.38	19.6	
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137	11.0	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	10.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD3)	Source: Y703051-03			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.112	0.002	mg/kg	0.100	ND	112	71.8-126	7.32	11.3	
Toluene	0.111	0.002	"	0.100	ND	111	65.1-130	6.88	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	6.70	19.6	
m,p-Xylene	0.225	0.004	"	0.200	ND	112	46.5-137	8.83	19.2	
o-Xylene	0.111	0.002	"	0.100	ND	111	54.2-134	7.13	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		95.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0802 - EPA 5030 (soil)

Matrix Spike Dup (B7C0802-MSD4)	Source: Y703130-01			Prepared: 03/08/2017 Analyzed: 03/09/2017						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	2.04	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	0.960	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	95.3	62.2-130	1.29	19.6	
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	46.5-137	1.46	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	98.8	54.2-134	2.60	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0805 - EPA 5030B (Water)

Blank (B7C0805-BLK1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	106		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0805 - EPA 5030B (Water)

LCS (B7C0805-BS1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Benzene	52.5	1.00	ug/L	50.0		105	73.3-129			
Toluene	55.2	1.00	"	50.0		110	76.2-123			
Ethylbenzene	54.8	1.00	"	50.0		110	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	54.8	1.00	"	50.0		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0805 - EPA 5030B (Water)

Matrix Spike (B7C0805-MS1)	Source: Y703084-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	64.6	1.00	ug/L	50.0	ND	129	74-130			
Toluene	62.7	1.00	"	50.0	ND	125	73-131			
Ethylbenzene	66.5	1.00	"	50.0	0.220	132	76-132			
m,p-Xylene	130	2.00	"	100	ND	130	69-139			
o-Xylene	64.8	1.00	"	50.0	ND	130	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0805 - EPA 5030B (Water)

Matrix Spike Dup (B7C0805-MSD1)	Source: Y703084-02			Prepared: 03/08/2017 Analyzed: 03/08/2017						
Benzene	55.0	1.00	ug/L	50.0	ND	110	74-130	16.1	20	
Toluene	50.4	1.00	"	50.0	ND	101	73-131	21.9	20	QR-02
Ethylbenzene	52.8	1.00	"	50.0	0.220	105	76-132	22.8	20	QR-02
m,p-Xylene	104	2.00	"	100	ND	104	69-139	22.2	20	QR-02
o-Xylene	52.8	1.00	"	50.0	ND	106	74-131	20.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0807 - EPA 3550B

Blank (B7C0807-BLK1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

Blank (B7C0807-BLK2)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	49		"	50.0		98.9	59-131			

Blank (B7C0807-BLK3)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.0	59-131			

LCS (B7C0807-BS1)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	983	50.0	mg/kg	1000		98.3	64-121			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

LCS (B7C0807-BS2)

Prepared: 03/08/2017 Analyzed: 03/08/2017

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	64-121			
Residual Range Organics (C28-C40)	968	200	"	1000		96.8	58-124			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0807 - EPA 3550B										
LCS (B7C0807-BS2)					Prepared: 03/08/2017 Analyzed: 03/08/2017					
Surrogate: o-Terphenyl	49		mg/kg	50.0		97.9	59-131			
LCS (B7C0807-BS3)					Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	959	50.0	mg/kg	1000		95.9	64-121			
Residual Range Organics (C28-C40)	964	200	"	1000		96.4	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.7	59-131			
Matrix Spike (B7C0807-MS1)			Source: Y703121-01		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	925	50.0	mg/kg	1000	19.7	90.6	53-125			
Residual Range Organics (C28-C40)	991	200	"	1000	ND	99.1	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.7	59-131			
Matrix Spike (B7C0807-MS2)			Source: Y703121-02		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	943	50.0	mg/kg	1000	25.8	91.8	53-125			
Residual Range Organics (C28-C40)	988	200	"	1000	ND	98.8	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.2	59-131			
Matrix Spike (B7C0807-MS3)			Source: Y703121-03		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	920	50.0	mg/kg	1000	21.4	89.9	53-125			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	47-133			
Surrogate: o-Terphenyl	110		"	100		107	59-131			
Matrix Spike Dup (B7C0807-MSD1)			Source: Y703121-01		Prepared: 03/08/2017 Analyzed: 03/08/2017					
Diesel (C10-C28)	893	50.0	mg/kg	1000	19.7	87.4	53-125	3.59	20	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	47-133	4.64	20	
Surrogate: o-Terphenyl	48		"	50.0		96.3	59-131			
Matrix Spike Dup (B7C0807-MSD2)			Source: Y703121-02		Prepared: 03/08/2017 Analyzed: 03/08/2017					

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C0807 - EPA 3550B										
Matrix Spike Dup (B7C0807-MSD2)			Source: Y703121-02			Prepared: 03/08/2017 Analyzed: 03/08/2017				
Diesel (C10-C28)	941	50.0	mg/kg	1000	25.8	91.6	53-125	0.224	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133	2.04	20	
Surrogate: o-Terphenyl	47		"	50.0		93.7	59-131			
Matrix Spike Dup (B7C0807-MSD3)			Source: Y703121-03			Prepared: 03/08/2017 Analyzed: 03/08/2017				
Diesel (C10-C28)	879	50.0	mg/kg	1000	21.4	85.8	53-125	4.71	20	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	47-133	6.98	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

March 15, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Hicks Ruth Elizabeth #2

Project Number - 89249235

Attached are your analytical results for KMG - Hicks Ruth Elizabeth #2 received by Origins Laboratory, Inc. March 14, 2017. This project is associated with Origins project number Y703199-01.

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: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W03@10'	Y703199-01	Soil	March 14, 2017 16:07	03/14/2017 17:00

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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 703199

Client: Tasman

Client Project ID: KMG - Hicks Ruth Elizabeth #2

Checklist Completed by: D. W.

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

Date/time completed: 3-14-12 1716

Airbill #: HP

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

Cooler Number/Temperature: 1 / 2.0 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 3-14-12 1715

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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

W03@10'
3/14/2017 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703199-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C1403	03/14/2017	03/14/2017	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	B7C1402	03/14/2017	03/14/2017	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 110 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)										
Blank (B7C1402-BLK1)										
					Prepared: 03/14/2017 Analyzed: 03/14/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

Blank (B7C1402-BLK2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

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	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

LCS (B7C1402-BS1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.201	0.004	"	0.200		101	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

LCS (B7C1402-BS2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

Matrix Spike (B7C1402-MS1)	Source: Y703188-04			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

Matrix Spike (B7C1402-MS2)	Source: Y703188-05			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

Matrix Spike Dup (B7C1402-MSD1)	Source: Y703188-04			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126	4.05	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	7.73	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	8.77	19.6	
m,p-Xylene	0.200	0.004	"	0.200	ND	100	46.5-137	9.51	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	7.46	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1402 - EPA 5030 (soil)

Matrix Spike Dup (B7C1402-MSD2)	Source: Y703188-05			Prepared: 03/14/2017 Analyzed: 03/14/2017						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	2.33	11.3	
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130	2.67	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	1.62	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	2.33	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	2.73	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1403 - EPA 3550B

Blank (B7C1403-BLK1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.6	59-131			

Blank (B7C1403-BLK2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		89.8	59-131			

LCS (B7C1403-BS1)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	861	50.0	mg/kg	1000		86.1	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			

LCS (B7C1403-BS2)

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	842	50.0	mg/kg	1000		84.2	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	43		"	50.0		85.8	59-131			

Matrix Spike (B7C1403-MS1)

Source: Y703166-01

Prepared: 03/14/2017 Analyzed: 03/14/2017

Diesel (C10-C28)	2950	50.0	mg/kg	1000	1310	164	53-125			QM-07
Residual Range Organics (C28-C40)	2510	200	"	1000	365	214	47-133			QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1403 - EPA 3550B										
Matrix Spike (B7C1403-MS1)			Source: Y703166-01		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Surrogate: o-Terphenyl	51		mg/kg	50.0		102	59-131			
Matrix Spike (B7C1403-MS2)			Source: Y703168-04		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	3380	50.0	mg/kg	1000	3150	23.3	53-125			QM-07
Residual Range Organics (C28-C40)	2160	200	"	1000	1030	113	47-133			
Surrogate: o-Terphenyl	56		"	50.0		112	59-131			
Matrix Spike Dup (B7C1403-MSD1)			Source: Y703166-01		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	2790	50.0	mg/kg	1000	1310	148	53-125	10.2	20	QM-07
Residual Range Organics (C28-C40)	2280	200	"	1000	365	192	47-133	11.1	20	QM-07
Surrogate: o-Terphenyl	49		"	50.0		98.3	59-131			
Matrix Spike Dup (B7C1403-MSD2)			Source: Y703168-04		Prepared: 03/14/2017 Analyzed: 03/14/2017					
Diesel (C10-C28)	3230	50.0	mg/kg	1000	3150	8.22	53-125	95.8	20	QM-07, QR-03
Residual Range Organics (C28-C40)	1910	200	"	1000	1030	88.4	47-133	24.5	20	QR-03
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

March 16, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Hicks Ruth Elizabeth #2

Project Number - 89249235

Attached are your analytical results for KMG - Hicks Ruth Elizabeth #2 received by Origins Laboratory, Inc. March 15, 2017. This project is associated with Origins project number Y703214-01.

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: 89249235
Project: KMG - Hicks Ruth Elizabeth #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@10'	Y703214-01	Soil	March 15, 2017 14:14	03/15/2017 16:43
E03@10'	Y703214-02	Soil	March 15, 2017 14:22	03/15/2017 16:43

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y103214

Client: Tasman
 Client Project ID: KMG - Hicks Ruth Elizabeth #2

Checklist Completed by: D. Allen

Shipped Via: HL7
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 3-15-12 1739

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

Cooler Number/Temperature: 1 / 13.7 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

3-15-12 1730
 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: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

N02@10'
3/15/2017 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703214-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	113	25.0	mg/kg	1	B7C1503	03/15/2017	03/15/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 79.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	26.8	5.00	mg/kg	25	B7C1502	03/15/2017	03/15/2017	
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 94.4 % 70-130 " " "
 Surrogate: Toluene-d8 94.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 117 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

E03@10'
3/15/2017 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703214-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	60.7	25.0	mg/kg	1	B7C1503	03/15/2017	03/15/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

<i>Surrogate: o-Terphenyl</i>	89.5 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	14.1	5.00	mg/kg	25	B7C1502	03/15/2017	03/15/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	95.5 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	109 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1502 - EPA 5030 (soil)										
Blank (B7C1502-BLK1)										
					Prepared: 03/15/2017 Analyzed: 03/15/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	53		"	62.5		85.4	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1502 - EPA 5030 (soil)

LCS (B7C1502-BS1)

Prepared: 03/15/2017 Analyzed: 03/15/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		105	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89249235
 Project: KMG - Hicks Ruth Elizabeth #2

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 B7C1502 - EPA 5030 (soil)

Matrix Spike (B7C1502-MS1)	Source: Y703202-01			Prepared: 03/15/2017 Analyzed: 03/15/2017						
Benzene	2.74	0.050	mg/kg	2.50	ND	110	71.8-126			
Toluene	2.80	0.050	"	2.50	ND	112	65.1-130			
Ethylbenzene	2.73	0.050	"	2.50	ND	109	62.2-130			
m,p-Xylene	5.59	0.100	"	5.00	ND	112	46.5-137			
o-Xylene	2.71	0.050	"	2.50	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C1502 - EPA 5030 (soil)

Matrix Spike Dup (B7C1502-MSD1)	Source: Y703202-01			Prepared: 03/15/2017 Analyzed: 03/15/2017						
Benzene	2.76	0.050	mg/kg	2.50	ND	110	71.8-126	0.673	11.3	
Toluene	2.79	0.050	"	2.50	ND	112	65.1-130	0.125	15.4	
Ethylbenzene	2.81	0.050	"	2.50	ND	112	62.2-130	2.60	19.6	
m,p-Xylene	5.68	0.100	"	5.00	ND	114	46.5-137	1.44	19.2	
o-Xylene	2.76	0.050	"	2.50	ND	110	54.2-134	1.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7C1503 - EPA 3580

Blank (B7C1503-BLK1)

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		94.4	59-131			

LCS (B7C1503-BS1)

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	64-121			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	58-124			
Surrogate: o-Terphenyl	40		"	50.0		80.4	59-131			

Matrix Spike (B7C1503-MS1)

Source: Y703202-01

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	1030	50.0	mg/kg	1000	377	65.7	53-125			
Residual Range Organics (C28-C40)	917	200	"	1000	ND	91.7	47-133			
Surrogate: o-Terphenyl	47		"	50.0		94.2	59-131			

Matrix Spike Dup (B7C1503-MSD1)

Source: Y703202-01

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	999	50.0	mg/kg	1000	377	62.2	53-125	5.47	20	
Residual Range Organics (C28-C40)	803	200	"	1000	ND	80.3	47-133	13.3	20	
Surrogate: o-Terphenyl	42		"	50.0		83.7	59-131			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President