

February 25, 2015

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Dutcher Roy Unit #1

Project Number - [none]

API: 05-123-07739

Attached are your analytical results for KMG - Dutcher Roy Unit #1 received by Origins Laboratory, Inc. February 20, 2015. This project is associated with Origins project number X502255-01.

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 - Dutcher Roy Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DR-PW01	X502255-01	Water	February 20, 2015 10:30	02/20/2015 12:30
JS-PW01	X502255-02	Water	February 20, 2015 11:30	02/20/2015 12:30

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 - Dutcher Roy Unit #1

www.originslaboratory.com

page: 1 / 1

Client: Tasman Project Manager/Send Report to: Bob Cornez

Address: _____ Email Address: rlcornez@tasmangeo.com

Telephone Number: _____ Project Name/Number: Dutcher Roy Unit #1, Jacob Schuyt

_____ Samples Collected By: Kate Forsythe

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis/Method	Sample Instructions
				HCl	HNO ₃	Other	Groundwater			
DR-PW01	2/20/15	1030	1	X			Soil	Soil	1	
JS-PW01	2/20/15	1130	1	X			Soil	Soil	2	
									3	
									4	
									5	
									6	
									7	
									8	
									9	
									10	

Reinstated By: <u>[Signature]</u>	Date: <u>2/20/15</u>	Time: <u>1230</u>	Received By: <u>[Signature]</u>	Date: <u>2/20/15</u>	Time: <u>1230</u>
Reinstated By: _____	Date: _____	Time: _____	Received By: _____	Date: <u>2/20/15</u>	Time: <u>1230</u>

Turnaround Time: 72 Hr 48 Hr 72 Hr Standard 3.0

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Dutcher Roy Unit #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS02255

Client: Tasman

Client Project ID: Dutcher Roy Unit #1

Checklist Completed by: Jeff Smith

Shipped Via: HTD

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

Date/time completed: 2/20/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.8 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °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"/>			
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)

02:20:15
 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: [none]
Project: KMG - Dutcher Roy Unit #1

DR-PW01
2/20/2015 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

XENCO
X502255-01 (Water)

TDS by SM2540C

Total dissolved solids	5010	5	mg/L	1	962475	02/23/2015	02/23/2015	
------------------------	-------------	---	------	---	--------	------------	------------	--

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 - Dutcher Roy Unit #1

JS-PW01
2/20/2015 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

XENCO
X502255-02 (Water)

TDS by SM2540C

Total dissolved solids	6750	5	mg/L	1	962475	02/23/2015	02/23/2015	
------------------------	-------------	---	------	---	--------	------------	------------	--

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 - Dutcher Roy Unit #1

TDS by SM2540C - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 962475 - NONE										
LCS (962475-1-BKS)		Source: 962475-1-BKS			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	488	5	mg/L	500	<5.00	98	80-120		10	
BLANK (962475-1-BLK)		Source: 962475-1-BLK			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	ND	5	mg/L	1000			-		10	
LCSD (962475-1-BSD)		Source: 962475-1-BSD			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	486	5	mg/L	500	<5.00	97	80-120	0	10	

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 - Dutcher Roy Unit #1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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