



April 30, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Ludwig 17-5

Project Number - 90329145

Attached are your analytical results for KMG - Ludwig 17-5 received by Origins Laboratory, Inc. April 26, 2021. This project is associated with Origins project number Y104455-01.

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y104455-01	Soil	April 26, 2021 12:30	04/26/2021 17:42
WH-BG01@8'	Y104455-02	Soil	April 26, 2021 12:36	04/26/2021 17:42

Origins Laboratory, Inc.



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Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

ORIGINS
LABORATORY, INC

Client: Oxy/Tasman

Address: 6655 W 19th St
Bloomfield CO

Telephone Number: 303-507-8809

Email Address: myjohn@tasman-geo.com

Y104455

www.originslaboratory.com

page | of |

Project Manager: Mike John

Project Name: Ludwig 17-5

Project Number: 90329145

Samples Collected By: SL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis							Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ	Canister #	Other	FA *	SAR *	EC *	Boron *	As/Te/N	Pb/Cd/As					
WH-301081	4-26-21	1230	5	X					X							X	X	X	X	X	X	X	* saturated rocks
WH-301081	↓	1236	5	X					X							X	X	X	X	X	X	X	** not water
																							3
																							4
																							5
																							6
																							7
																							8
																							9
																							10
Relinquished By: <i>Julia Woyt</i>	Date: 4-26-21	Time: 17:12		Received By: <i>[Signature]</i>				Date: 4/26/21	Time: 1742	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>													
Relinquished By:	Date:	Time:		Received By:				Date:	Time:														

Date Results Needed

Temp Received. 5.1

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y104455

Client: Tasman

Client Project ID: Ludwig 17-5

Checklist Completed by: JS

Shipped Via: HD

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

Date/time completed: 4/26/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): K Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 5.1 °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"/>	<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 checked="" 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 type="checkbox"/>	<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)

4/26/21
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

WH-B01@8'

4/26/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc. Y104455-01 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]		04/28/2021	04/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1D2609	KDK	04/26/2021	04/26/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	65.0 %	50-150			"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1D2608	TEM	04/26/2021	04/26/2021	U
Benzene	ND	0.002	"	"	"	TEM	"	"	U
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.002	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.002	"	"	"	TEM	"	"	U
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130			"	"	"
Surrogate: Toluene-d8	88.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"

Metals (Saturated Paste Prep)

Calcium	2.74		me/L	1	[none]		04/28/2021	04/30/2021
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Project: KMG - Ludwig 17-5

WH-B01@8'

4/26/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y104455-01 (Soil)

Metals (Saturated Paste Prep)

Magnesium	0.83		me/L	1	[none]		04/28/2021	04/30/2021	
Sodium	2.77		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	8.09		pH Units	1	B1D2707	DJL	04/27/2021	04/27/2021	
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SAR by 20B Saturated Paste

SAR	2.07			1	[none]		04/28/2021	04/30/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.500	0.00500	mmhos/cm	1	B1D2708	DJL	04/27/2021	04/27/2021	
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6855 West 119th Avenue
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Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

WH-BG01@8'

4/26/2021 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y104455-02 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]		04/28/2021	04/30/2021	
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Metals (Saturated Paste Prep)

Calcium	2.46		me/L	1	[none]		"	04/30/2021	
Magnesium	1.09		"	"	"		"	"	
Sodium	6.55		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.67		pH Units	1	B1D2707	DJL	04/27/2021	04/27/2021	
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SAR by 20B Saturated Paste

SAR	4.92			1	[none]		04/28/2021	04/30/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B1D2708	DJL	04/27/2021	04/27/2021	
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6855 West 119th Avenue
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Mike Jahn
Project Number: 90329145
Project: KMG - Ludwig 17-5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2608 - EPA 5030 (soil)										
Blank (B1D2608-BLK1)					Prepared: 04/26/2021 Analyzed: 04/26/2021					
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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.4	70-130			
Surrogate: Toluene-d8	55		"	62.5		88.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.3	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2608 - EPA 5030 (soil)										
LCS (B1D2608-BS1)					Prepared: 04/26/2021 Analyzed: 04/26/2021					
Benzene	0.056	0.002	mg/kg	0.0500		112	70-130			
Toluene	0.047	0.002	"	0.0500		93.3	70-130			
Ethylbenzene	0.044	0.002	"	0.0500		88.2	70-130			
m,p-Xylene	0.089	0.004	"	0.100		89.3	70-130			
o-Xylene	0.046	0.002	"	0.0500		92.6	70-130			
Naphthalene	0.051	0.008	"	0.0500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.4	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2608 - EPA 5030 (soil)										
Matrix Spike (B1D2608-MS1)		Source: Y104428-01			Prepared: 04/26/2021 Analyzed: 04/26/2021					
Benzene	0.053	0.002	mg/kg	0.0500	ND	106	70-130			
Toluene	0.041	0.002	"	0.0500	ND	82.3	70-130			
Ethylbenzene	0.037	0.002	"	0.0500	ND	73.3	70-130			
m,p-Xylene	0.072	0.004	"	0.100	ND	72.3	70-130			
o-Xylene	0.039	0.002	"	0.0500	ND	77.4	70-130			
Naphthalene	0.033	0.008	"	0.0500	ND	65.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.3	70-130			
Surrogate: Toluene-d8	54		"	62.5		87.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2608 - EPA 5030 (soil)										
Matrix Spike Dup (B1D2608-MSD1)		Source: Y104428-01			Prepared: 04/26/2021 Analyzed: 04/26/2021					
Benzene	0.049	0.002	mg/kg	0.0500	ND	97.8	70-130	8.20	20	
Toluene	0.039	0.002	"	0.0500	ND	77.4	70-130	6.16	20	
Ethylbenzene	0.036	0.002	"	0.0500	ND	71.4	70-130	2.54	20	
m,p-Xylene	0.071	0.004	"	0.100	ND	70.6	70-130	2.35	20	
o-Xylene	0.038	0.002	"	0.0500	ND	75.8	70-130	2.04	20	
Naphthalene	0.031	0.008	"	0.0500	ND	61.2	70-130	6.64	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Mike Jahn
Project Number: 90329145
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2609 - EPA 3550B										
Blank (B1D2609-BLK1)					Prepared: 04/26/2021 Analyzed: 04/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		71.6	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B1D2609 - EPA 3550B

LCS (B1D2609-BS1)

Prepared: 04/26/2021 Analyzed: 04/26/2021

Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.3	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B1D2609 - EPA 3550B

Matrix Spike (B1D2609-MS1)		Source: Y104424-01			Prepared: 04/26/2021 Analyzed: 04/26/2021					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2609 - EPA 3550B										
Matrix Spike Dup (B1D2609-MSD1)		Source: Y104424-01			Prepared: 04/26/2021 Analyzed: 04/26/2021					
Diesel (C10-C28)	967	50.0	mg/kg	1000	ND	96.7	70-130	3.41	35	
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130	3.53	35	
Surrogate: o-Terphenyl	40		"	50.0		80.0	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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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Saturated Paste - 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 B1D2707 - NO PREP

Duplicate (B1D2707-DUP1)

Source: Y104428-01

Prepared: 04/27/2021 Analyzed: 04/27/2021

pH	7.11	pH Units	7.45	4.67	25
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Batch B1D2708 - NO PREP

Blank (B1D2708-BLK1)

Prepared: 04/27/2021 Analyzed: 04/27/2021

Specific Conductance (EC)	0.00270	0.00500	mmhos/cm
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Duplicate (B1D2708-DUP1)

Source: Y104428-01

Prepared: 04/27/2021 Analyzed: 04/27/2021

Specific Conductance (EC)	0.485	0.00500	mmhos/cm	0.391	21.5	25
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Notes and Definitions

U Sample is Non-Detect.

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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