

February 07, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Platteville - 63N66W
19SWSW****Project Number - 88838013**

Attached are your analytical results for KMG - Platteville - 63N66W 19SWSW received by Origins Laboratory, Inc. January 31, 2018. This project is associated with Origins project number Y802008-01.

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01-1/31/18	Y802008-01	Water	January 31, 2018 13:05	01/31/2018 17:00
BH02-1/31/18	Y802008-02	Water	January 31, 2018 12:55	01/31/2018 17:00
BH03-1/31/18	Y802008-03	Water	January 31, 2018 12:05	01/31/2018 17:00
BH04-1/31/18	Y802008-04	Water	January 31, 2018 12:50	01/31/2018 17:00
BH05-1/31/18	Y802008-05	Water	January 31, 2018 11:50	01/31/2018 17:00
BH06-1/31/18	Y802008-06	Water	January 31, 2018 12:40	01/31/2018 17:00
BH07-1/31/18	Y802008-07	Water	January 31, 2018 12:15	01/31/2018 17:00
BH08-1/31/18	Y802008-08	Water	January 31, 2018 11:40	01/31/2018 17:00
BH09R-1/31/18	Y802008-09	Water	January 31, 2018 12:45	01/31/2018 17:00
BH10-1/31/18	Y802008-10	Water	January 31, 2018 11:45	01/31/2018 17:00
BH11-1/31/18	Y802008-11	Water	January 31, 2018 11:55	01/31/2018 17:00
BH12-1/31/18	Y802008-12	Water	January 31, 2018 12:05	01/31/2018 17:00
BH13-1/31/18	Y802008-13	Water	January 31, 2018 12:25	01/31/2018 17:00
BH14-1/31/18	Y802008-14	Water	January 31, 2018 12:35	01/31/2018 17:00

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15-1/31/18	Y802008-15	Water	January 31, 2018 12:25	01/31/2018 17:00
BH16-1/31/18	Y802008-16	Water	January 31, 2018 12:15	01/31/2018 17:00

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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ORIGINS
LABORATORY, INC

Client: APC/TASMAN
Address: 6899 N Pecos St,
Denver CO 80221
Telephone Number: 9704816909

Project Manager/Send Report To: Bob Cornez
Email Address: Cornez@tasman-geo.com
Project Name/Number: Platteville 63N66W/88838013
Samples Collected By: Max Deligdis

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
BH01 - 1/31/18	1/31/18	1205	3	Unpreserved	Soil	RTX	1
BH02 - 1/31/18		1205		Unpreserved	Soil		2
BH03 - 1/31/18		1205		Unpreserved	Soil		3
BH04 - 1/31/18		1250		Unpreserved	Soil		4
BH05 - 1/31/18		1150		Unpreserved	Soil		5
BH06 - 1/31/18		1240		Unpreserved	Soil		6
BH07 - 1/31/18		1205		Unpreserved	Soil		7
BH08 - 1/31/18		1140		Unpreserved	Soil		8
BH09 - 1/31/18		1245		Unpreserved	Soil		9
BH10 - 1/31/18		1145		Unpreserved	Soil		10
Relinquished By: [Signature]	Date: 1/31/18	Time: 1700	Received By: [Signature]	Date: 1/31/18	Time: 1700	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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page 2 of 2

1902008

ORIGINS
LABORATORY, INC

Client: ARC / TASMAN Project Manager/Send Report To: _____
Address: _____ Email Address: _____
Project Name/Number: Platteville 63N66W / 88838013
Telephone Number: _____ Samples Collected By: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
BH11 - 1/31/18	1/31/18	1155	3	X				X		BTEX	1
BH12 - 1/31/18	1/31/18	1205									2
BH13 - 1/31/18	1/31/18	1225									3
BH14 - 1/31/18	1/31/18	1235									4
BH15 - 1/31/18	1/31/18	1225									5
BH16 - 1/31/18	1/31/18	1205									6
											7
											8
											9
											10
Relinquished By: <u>[Signature]</u>	Date: 1/31/18	Time: 1700	Received By: <u>[Signature]</u>	Date: 1/31/18	Time: 1700	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>					

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

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Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V902056

Client: Tasman

Client Project ID: 63N66W 19SWSW

Checklist Completed by: Dan Lee

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

Date/time completed: 2-2-18

Airbill #: 152

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

Cooler Number/Temperature: 1 4.7 °C 1 °C 1 °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with 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 2-2-18

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH01-1/31/18
1/31/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-01 (Water)

BTEX by EPA 8260C

Benzene	1710	50.0	ug/L	50	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	50.0	"	"	"	"	"	U
Ethylbenzene	327	50.0	"	"	"	"	"	
Xylenes, total	2190	50.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	89.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH02-1/31/18

1/31/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	1.87	1.00	"	"	"	"	"	
Xylenes, total	3.17	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH03-1/31/18

1/31/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	10.7	1.00	"	"	"	"	"	
Xylenes, total	1.39	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	107 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH04-1/31/18

1/31/2018 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-04 (Water)

BTEX by EPA 8260C

Benzene	41.0	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	169	4.00	"	"	"	"	"	
Xylenes, total	1380	4.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH05-1/31/18

1/31/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH06-1/31/18

1/31/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-06 (Water)

BTEX by EPA 8260C

Benzene	514	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	239	4.00	"	"	"	"	"	
Xylenes, total	1730	4.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	89.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH07-1/31/18

1/31/2018 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-07 (Water)

BTEX by EPA 8260C

Benzene	567	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	90.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH08-1/31/18

1/31/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH09R-1/31/18
1/31/2018 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-09 (Water)

BTEX by EPA 8260C

Benzene	164	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	305	4.00	"	"	"	"	"	
Xylenes, total	4450	20.0	"	20	"	"	02/07/2018	

Surrogate: 1,2-Dichloroethane-d4	91.5 %	84-121			"	"	02/02/2018	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH10-1/31/18

1/31/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-10 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH11-1/31/18

1/31/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-11 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH12-1/31/18

1/31/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-12 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH13-1/31/18

1/31/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-13 (Water)

BTEX by EPA 8260C

Benzene	7.44	4.00	ug/L	4	B8B0203	02/02/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	94.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH14-1/31/18

1/31/2018 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-14 (Water)

BTEX by EPA 8260C

Benzene	11.4	4.00	ug/L	4	B8B0203	02/02/2018	02/03/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	90.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"	

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH15-1/31/18

1/31/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-15 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8B0203	02/02/2018	02/03/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.0 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114	"	"	"

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH16-1/31/18

1/31/2018 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802008-16 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8B0203	02/02/2018	02/03/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8B0203 - EPA 5030B (Water)

Blank (B8B0203-BLK1)

Prepared: 02/02/2018 Analyzed: 02/02/2018

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	57		"	62.5	91.8		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.9		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.0		84-114			

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8B0203 - EPA 5030B (Water)

LCS (B8B0203-BS1)

Prepared: 02/02/2018 Analyzed: 02/02/2018

Benzene	59.1	1.00	ug/L	50.0	118	73.3-129
Toluene	54.4	1.00	"	50.0	109	76.2-123
Ethylbenzene	55.1	1.00	"	50.0	110	73.6-130
m,p-Xylene	112	2.00	"	100	112	76.1-126
o-Xylene	56.4	1.00	"	50.0	113	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.4	84-121
Surrogate: Toluene-d8	61		"	62.5	97.7	85-115
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109	84-114

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8B0203 - EPA 5030B (Water)

Matrix Spike (B8B0203-MS1)		Source: Y802008-02			Prepared: 02/02/2018 Analyzed: 02/07/2018					
Benzene	47.1	1.00	ug/L	50.0	ND	94.2	74-130			
Toluene	46.3	1.00	"	50.0	0.150	92.3	73-131			
Ethylbenzene	48.3	1.00	"	50.0	1.87	92.9	76-132			
m,p-Xylene	94.8	2.00	"	100	3.17	91.6	69-139			
o-Xylene	45.6	1.00	"	50.0	0.910	89.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	84-114			

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8B0203 - EPA 5030B (Water)

Matrix Spike Dup (B8B0203-MSD1)		Source: Y802008-02			Prepared: 02/02/2018 Analyzed: 02/07/2018					
Benzene	53.5	1.00	ug/L	50.0	ND	107	74-130	12.8	20	
Toluene	52.5	1.00	"	50.0	0.150	105	73-131	12.6	20	
Ethylbenzene	55.3	1.00	"	50.0	1.87	107	76-132	13.6	20	
m,p-Xylene	106	2.00	"	100	3.17	103	69-139	11.0	20	
o-Xylene	50.3	1.00	"	50.0	0.910	98.7	74-131	9.77	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	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: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

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.



April 13, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Platteville 1-19

Project Number - [none]

Attached are your analytical results for KMG - Platteville 1-19 received by Origins Laboratory, Inc. April 09, 2018. This project is associated with Origins project number Y804164-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01- 4/9/18	Y804164-01	Water	April 9, 2018 11:30	04/09/2018 17:09
BH02- 4/9/18	Y804164-02	Water	April 9, 2018 11:00	04/09/2018 17:09
BH03- 4/9/18	Y804164-03	Water	April 9, 2018 10:50	04/09/2018 17:09
BH04 - 4/9/18	Y804164-04	Water	April 9, 2018 10:10	04/09/2018 17:09
BH05 - 4/9/18	Y804164-05	Water	April 9, 2018 10:40	04/09/2018 17:09
BH08 - 4/9/18	Y804164-06	Water	April 9, 2018 11:20	04/09/2018 17:09
BH07 - 4/9/18	Y804164-07	Water	April 9, 2018 11:30	04/09/2018 17:09
BH09R - 4/9/18	Y804164-08	Water	April 9, 2018 11:15	04/09/2018 17:09
BH10 - 4/9/18	Y804164-09	Water	April 9, 2018 11:10	04/09/2018 17:09
BH11 - 4/9/18	Y804164-10	Water	April 9, 2018 10:55	04/09/2018 17:09
BH12 - 4/9/18	Y804164-11	Water	April 9, 2018 10:45	04/09/2018 17:09
BH13 - 4/9/18	Y804164-12	Water	April 9, 2018 10:35	04/09/2018 17:09
BH14 - 4/9/18	Y804164-13	Water	April 9, 2018 10:10	04/09/2018 17:09
BH15 - 4/9/18	Y804164-14	Water	April 9, 2018 10:25	04/09/2018 17:09

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 - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH16 - 4/9/18	Y804164-15	Water	April 9, 2018 10:25	04/09/2018 17:09

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

www.originslaboratory.com

page 1 of 2

784164

ORIGINS LABORATORY, INC

Client: APC/TASMAN

Project Manager/Send Report To: Bob Cornez

Address: 6899 N Pecos St




Email Address: Noelle2017@origins-lab.com

City/State/Zip: Denver/CO/80221

Project Name/Number: Platteville 1-19/888838013

Telephone Number: 9704816009

Samples Collected By: Max Dahlgren

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
B401 - 4/9/18	4/9/18	1130	3	X				X				BTEX	1
B402 - 4/9/18		1100											2
B403 - 4/9/18		1050											3
B404 - 4/9/18		1010											4
B405 - 4/9/18		1040											5
B406 - 4/9/18		1120											6
B407 - 4/9/18		1130	1										7
B408 - 4/9/18		1115	2										8
B410 - 4/9/18		1110	3										9
B411 - 4/9/18		1055	3										10
Relinquished By: 	Date: 4/9/18	Time: 1118		Received By: 	Date: 4-9-18	Time: 1709		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					
Relinquished By: 	Date:	Time:		Received By:	Date:	Time:							

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

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 - Platteville 1-19

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 2 of 2

1804164

Client: ARC/TASMAN Project Manager/Send Report To: _____

Address: _____ Email Address: _____

Project Name/Number: Platteville 1-19 / 888838013

Telephone Number: _____ Samples Collected By: _____

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
BH12 - 4/9/18	4/9/18	1045	3	X					X			BTEX	1
BH13 - 4/9/18		1035											2
BH14 - 4/9/18		1010											3
BH15 - 4/9/18		1025											4
BH16 - 4/9/18		1025											5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	4/9/18	1709	<i>[Signature]</i>	4-9-18	1709	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

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 - Platteville 1-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4804164

Client: Tasman

Client Project ID: KMG - Platteville 1-19

Checklist Completed by: SG

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

Date/time completed: 4/10/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.5 °C 1 / 1 °C 1 / 1 °C 1 / 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with 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) JP

Date/Time Reviewed 4/11/18

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 - Platteville 1-19

BH01- 4/9/18
4/9/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-01 (Water)

BTEX by EPA 8260C

Benzene	2280	20.0	ug/L	20	B8D1209	04/12/2018	04/13/2018	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	299	20.0	"	"	"	"	"	
Xylenes, total	2390	20.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"	

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 - Platteville 1-19

BH02- 4/9/18
4/9/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-02 (Water)

BTEX by EPA 8260C

Benzene	1.53	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	2.73	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

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 - Platteville 1-19

BH03- 4/9/18
4/9/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	6.35	1.00	"	"	"	"	"	
Xylenes, total	1.48	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH04 - 4/9/18
4/9/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-04 (Water)

BTEX by EPA 8260C

Benzene	130	4.00	ug/L	4	B8D1209	04/12/2018	04/13/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	302	4.00	"	"	"	"	"	
Xylenes, total	1110	50.0	"	50	"	"	04/13/2018	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH05 - 4/9/18
4/9/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH08 - 4/9/18
4/9/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH07 - 4/9/18
4/9/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-07 (Water)

BTEX by EPA 8260C

Benzene	188	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH09R - 4/9/18
4/9/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-08 (Water)

BTEX by EPA 8260C

Benzene	261	10.0	ug/L	10	B8D1209	04/12/2018	04/13/2018	
Toluene	ND	10.0	"	"	"	"	"	U
Ethylbenzene	68.4	10.0	"	"	"	"	"	
Xylenes, total	1480	10.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

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 - Platteville 1-19

BH10 - 4/9/18
4/9/2018 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH11 - 4/9/18
4/9/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH12 - 4/9/18
4/9/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH13 - 4/9/18
4/9/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"
Surrogate: Toluene-d8	98.2 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH14 - 4/9/18
4/9/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH15 - 4/9/18
4/9/2018 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH16 - 4/9/18
4/9/2018 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804164-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D1209	04/12/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B8D1209 - EPA 5030B (Water)										
Blank (B8D1209-BLK1)					Prepared: 04/12/2018 Analyzed: 04/12/2018					
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	64		"	62.5	103		84-121			
Surrogate: Toluene-d8	61		"	62.5	98.0		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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 - Platteville 1-19

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 B8D1209 - EPA 5030B (Water)

LCS (B8D1209-BS1)

Prepared: 04/12/2018 Analyzed: 04/12/2018

Benzene	59.3	1.00	ug/L	50.0	119	73.3-129
Toluene	57.8	1.00	"	50.0	116	76.2-123
Ethylbenzene	53.7	1.00	"	50.0	107	73.6-130
m,p-Xylene	119	2.00	"	100	119	76.1-126
o-Xylene	59.4	1.00	"	50.0	119	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.3	84-121
Surrogate: Toluene-d8	62		"	62.5	99.6	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.7	84-114

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B8D1209 - EPA 5030B (Water)

Matrix Spike (B8D1209-MS1)		Source: Y804164-02			Prepared: 04/12/2018 Analyzed: 04/13/2018					
Benzene	59.0	1.00	ug/L	50.0	1.53	115	74-130			
Toluene	54.8	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	47.8	1.00	"	50.0	0.490	94.5	76-132			
m,p-Xylene	110	2.00	"	100	0.500	109	69-139			
o-Xylene	60.3	1.00	"	50.0	2.73	115	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B8D1209 - EPA 5030B (Water)

Matrix Spike Dup (B8D1209-MSD1)		Source: Y804164-02			Prepared: 04/12/2018 Analyzed: 04/13/2018					
Benzene	57.5	1.00	ug/L	50.0	1.53	112	74-130	2.59	20	
Toluene	53.3	1.00	"	50.0	ND	107	73-131	2.70	20	
Ethylbenzene	43.8	1.00	"	50.0	0.490	86.6	76-132	8.65	20	
m,p-Xylene	107	2.00	"	100	0.500	106	69-139	2.49	20	
o-Xylene	58.3	1.00	"	50.0	2.73	111	74-131	3.42	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

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.



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Jen Pellegrini For Noelle Doyle Mathis, President