



November 19, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - HSR - Van Schaack 4-33**

**Project Number - GS-9608**

Attached are your analytical results for KMG - HSR - Van Schaack 4-33 received by Origins Laboratory, Inc. November 12, 2020. This project is associated with Origins project number Y011179-01.

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: GS-9608  
Project: KMG - HSR - Van Schaack 4-33

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01-11/12/20	Y011179-01	Water	November 12, 2020 10:00	11/12/2020 14:05
BH02-11/12/20	Y011179-02	Water	November 12, 2020 10:15	11/12/2020 14:05
BH03-11/12/20	Y011179-03	Water	November 12, 2020 10:20	11/12/2020 14:05
BH04-11/12/20	Y011179-04	Water	November 12, 2020 10:25	11/12/2020 14:05
BH05-11/12/20	Y011179-05	Water	November 12, 2020 10:30	11/12/2020 14:05

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page 1 of 1

**ORIGINS**  
LABORATORY, INC

Y01179

Client: GS H / Tasman  
Address: \_\_\_\_\_  
Project Manager: Mike Jahn  
Project Name: HSR - Van Schaack 4-33  
Project Number: GS-9608  
Samples Collected By: BL  
Telephone Number: \_\_\_\_\_  
Email Address: mjahn@tasmangeo.com

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	
BH01 - 11/12/20	11/12/20	1000	3	X				X				1
BH02 - 11/12/20		1015										2
BH03 - 11/12/20		1020										3
BH04 - 11/12/20		1025										4
BH05 - 11/12/20		1030										5
												6
												7
												8
												9
												10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	11/12/20		<u>[Signature]</u>	11/12/20	1405	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

Temp Received- 13.8

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[Signature]

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Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y011179

Client: Tasman  
Client Project ID: HSR- Van Schaack

Checklist Completed by: SGT KDK

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

Date/time completed: 11/12/20

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

Cooler Number/Temperature: 1, 13.8 °C 1 °C 1 °C 1 °C (Describe)

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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>		<u>TKDK</u>	
Are short holding time analytes or samples with HTS due within 48 hours present <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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) Jm

11-13-20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jm*

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Mike Jahn  
Project Number: GS-9608  
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BH01-11/12/20  
11/12/2020 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y011179-01 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0K1210	TEM	11/12/2020	11/14/2020	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

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BH02-11/12/20  
11/12/2020 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y011179-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0K1210	TEM	11/12/2020	11/14/2020	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

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BH03-11/12/20  
11/12/2020 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y011179-03 (Water)

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0K1210	TEM	11/12/2020	11/14/2020	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	8.03	1.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"

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BH04-11/12/20  
11/12/2020 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y011179-04 (Water)

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0K1210	TEM	11/12/2020	11/14/2020	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	13.7	1.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"

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BH05-11/12/20  
11/12/2020 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y011179-05 (Water)

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0K1302	TEM	11/13/2020	11/17/2020	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	2.38	1.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	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
<b>Batch B0K1210 - EPA 5030B (Water)</b>										
<b>Blank (B0K1210-BLK1)</b>					Prepared: 11/12/2020 Analyzed: 11/14/2020					
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	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.7	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
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**Batch B0K1210 - EPA 5030B (Water)**

**LCS (B0K1210-BS1)**

Prepared: 11/12/2020 Analyzed: 11/14/2020

Benzene	56.0	1.00	ug/L	50.0		112	70-130			
Toluene	57.0	1.00	"	50.0		114	70-130			
Ethylbenzene	57.3	1.00	"	50.0		115	70-130			
m,p-Xylene	117	2.00	"	100		117	70-130			
o-Xylene	59.4	1.00	"	50.0		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0K1210 - EPA 5030B (Water)**

Matrix Spike (B0K1210-MS1)		Source: Y011174-01			Prepared: 11/12/2020 Analyzed: 11/14/2020					
Benzene	62.8	1.00	ug/L	50.0	ND	126	70-130			
Toluene	63.9	1.00	"	50.0	ND	128	70-130			
Ethylbenzene	63.1	1.00	"	50.0	ND	126	70-130			
m,p-Xylene	128	2.00	"	100	ND	128	70-130			
o-Xylene	63.3	1.00	"	50.0	ND	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	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
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**Batch B0K1210 - EPA 5030B (Water)**

Matrix Spike Dup (B0K1210-MSD1)		Source: Y011174-01			Prepared: 11/12/2020 Analyzed: 11/14/2020					
Benzene	62.2	1.00	ug/L	50.0	ND	124	70-130	1.10	20	
Toluene	62.9	1.00	"	50.0	ND	126	70-130	1.62	20	
Ethylbenzene	61.7	1.00	"	50.0	ND	123	70-130	2.29	20	
m,p-Xylene	126	2.00	"	100	ND	126	70-130	1.54	20	
o-Xylene	62.1	1.00	"	50.0	ND	124	70-130	2.01	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	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
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**Batch B0K1302 - EPA 5030B (Water)**

**Blank (B0K1302-BLK1)**

Prepared: 11/13/2020 Analyzed: 11/17/2020

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	62		"	62.5	98.6	70-130				
Surrogate: Toluene-d8	62		"	62.5	98.5	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103	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
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**Batch B0K1302 - EPA 5030B (Water)**

**LCS (B0K1302-BS1)**

Prepared: 11/13/2020 Analyzed: 11/17/2020

Benzene	49.3	1.00	ug/L	50.0		98.6	70-130			
Toluene	48.8	1.00	"	50.0		97.7	70-130			
Ethylbenzene	50.3	1.00	"	50.0		101	70-130			
m,p-Xylene	99.8	2.00	"	100		99.8	70-130			
o-Xylene	50.2	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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
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**Batch B0K1302 - EPA 5030B (Water)**

Matrix Spike (B0K1302-MS1)		Source: Y011187-01			Prepared: 11/13/2020 Analyzed: 11/17/2020					
Benzene	47.0	1.00	ug/L	50.0	ND	94.0	70-130			
Toluene	46.8	1.00	"	50.0	ND	93.5	70-130			
Ethylbenzene	46.9	1.00	"	50.0	ND	93.9	70-130			
m,p-Xylene	94.6	2.00	"	100	ND	94.6	70-130			
o-Xylene	49.3	1.00	"	50.0	ND	98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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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 B0K1302 - EPA 5030B (Water)**

Matrix Spike Dup (B0K1302-MSD1)		Source: Y011187-01			Prepared: 11/13/2020 Analyzed: 11/17/2020					
Benzene	49.2	1.00	ug/L	50.0	ND	98.4	70-130	4.55	20	
Toluene	48.5	1.00	"	50.0	ND	96.9	70-130	3.57	20	
Ethylbenzene	49.2	1.00	"	50.0	ND	98.4	70-130	4.68	20	
m,p-Xylene	98.1	2.00	"	100	ND	98.1	70-130	3.67	20	
o-Xylene	51.7	1.00	"	50.0	ND	103	70-130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Project: KMG - HSR - Van Schaack 4-33

### 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.*