



June 27, 2018

Tasman Geosciences

Brandon Bruns

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - SRC - Stephens 7-11,12

Project Number - [none]

Attached are your analytical results for SRC - Stephens 7-11,12 received by Origins Laboratory, Inc. June 22, 2018. This project is associated with Origins project number Y806347-01.

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

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH07	Y806347-01	Water	June 22, 2018 10:45	06/22/2018 17:00
BH08	Y806347-02	Water	June 22, 2018 10:50	06/22/2018 17:00
BH09	Y806347-03	Water	June 22, 2018 10:55	06/22/2018 17:00
BH10	Y806347-04	Water	June 22, 2018 11:00	06/22/2018 17:00
BH11	Y806347-05	Water	June 22, 2018 11:05	06/22/2018 17:00
BH12	Y806347-06	Water	June 22, 2018 11:10	06/22/2018 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

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

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168347

ORIGINS
LABORATORY, INC

Client: SLC/Tasman Project Manager/Send Report To: _____
Address: _____ Email Address: bruns@tasmangeo.com
Telephone Number: 979-255-4235 Project Name/Number: Stephens 7-11,12
Samples Collected By: MB

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/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #		
BH07	6/22/18	1045	3	X				X			BTEX	1
BH08		1050	1									2
BH09		1055	1									3
BH10		1100	1									4
BH11		1105	1									5
BH12		1110	1									6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
MB	6/22/18	1700		6/22/18	1700	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed:

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1406347

Client: Tasman
Client Project ID: SRC-Stephens 7-11,12

Checklist Completed by: JG
Date/time completed: 6/25/2018

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

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

Cooler Number/Temperature: 1 5.8 °C / °C / °C / °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6-25-18

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH07

6/22/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F2509	06/25/2018	06/26/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH08

6/22/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-02 (Water)

BTEX by EPA 8260C

Benzene	4.06	1.00	ug/L	1	B8F2509	06/25/2018	06/26/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

109 %
99.8 %
96.3 %

84-121
85-115
84-114

"
"
"

"
"
"

"
"
"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH09

6/22/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-03 (Water)

BTEX by EPA 8260C

Benzene	3750	20.0	ug/L	20	B8F2509	06/25/2018	06/27/2018	
Toluene	ND	1.00	"	1	"	"	06/26/2018	U
Ethylbenzene	95.1	1.00	"	"	"	"	"	
Xylenes, total	1890	20.0	"	20	"	"	06/27/2018	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	06/26/2018	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH10

6/22/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-04 (Water)

BTEX by EPA 8260C

Benzene	1370	20.0	ug/L	20	B8F2509	06/25/2018	06/27/2018	
Toluene	ND	1.00	"	1	"	"	06/26/2018	U
Ethylbenzene	69.7	1.00	"	"	"	"	"	
Xylenes, total	8.14	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH11

6/22/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-05 (Water)

BTEX by EPA 8260C

Benzene	128	1.00	ug/L	1	B8F2509	06/25/2018	06/26/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	12.4	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	"
Surrogate: Toluene-d8	104 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.2 %	84-114			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH12

6/22/2018 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806347-06 (Water)

BTEX by EPA 8260C

Benzene	81.4	1.00	ug/L	1	B8F2509	06/25/2018	06/26/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	50.5	1.00	"	"	"	"	"	
Xylenes, total	339	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

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 B8F2509 - EPA 5030B (Water)

Blank (B8F2509-BLK1)

Prepared: 06/25/2018 Analyzed: 06/26/2018

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	102		84-121			
Surrogate: Toluene-d8	61		"	62.5	98.3		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

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 B8F2509 - EPA 5030B (Water)

LCS (B8F2509-BS1)

Prepared: 06/25/2018 Analyzed: 06/26/2018

Benzene	49.8	1.00	ug/L	50.0		99.6	73.3-129			
Toluene	47.8	1.00	"	50.0		95.6	76.2-123			
Ethylbenzene	48.2	1.00	"	50.0		96.4	73.6-130			
m,p-Xylene	99.2	2.00	"	100		99.2	76.1-126			
o-Xylene	54.1	1.00	"	50.0		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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Brandon Bruns
Project Number: [none]
Project: SRC - Stephens 7-11,12

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 B8F2509 - EPA 5030B (Water)

Matrix Spike (B8F2509-MS1)		Source: Y806323-02			Prepared: 06/25/2018 Analyzed: 06/26/2018					
Benzene	50.0	1.00	ug/L	50.0	ND	100	74-130			
Toluene	47.8	1.00	"	50.0	ND	95.6	73-131			
Ethylbenzene	47.3	1.00	"	50.0	ND	94.5	76-132			
m,p-Xylene	96.4	2.00	"	100	ND	96.4	69-139			
o-Xylene	53.1	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114			

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6899 Pecos Street, Unit C
Denver CO 80211

Brandon Brunns
Project Number: [none]
Project: SRC - Stephens 7-11,12

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 B8F2509 - EPA 5030B (Water)

Matrix Spike Dup (B8F2509-MSD1)		Source: Y806323-02			Prepared: 06/25/2018 Analyzed: 06/26/2018					
Benzene	48.4	1.00	ug/L	50.0	ND	96.9	74-130	3.11	20	
Toluene	47.0	1.00	"	50.0	ND	94.1	73-131	1.58	20	
Ethylbenzene	47.0	1.00	"	50.0	ND	94.0	76-132	0.552	20	
m,p-Xylene	96.3	2.00	"	100	ND	96.3	69-139	0.145	20	
o-Xylene	53.2	1.00	"	50.0	ND	106	74-131	0.282	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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6899 Pecos Street, Unit C

Denver CO 80211

Brandon Bruns

Project Number: [none]

Project: SRC - Stephens 7-11,12

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