

# **Groundwater Data Summary Stephens 7-11, 12**

COGCC SPILL TRACKING # 455029  
COGCC REMEDIATION # 11394

Prepared for:



5400 West 11th  
Street, Suite C  
Greeley, CO 80634

Prepared by:



6899 North Pecos Street,  
Unit C Denver, CO 80221

September 27, 2018

**TABLE 1**  
**GROUNDWATER ANALYTICAL DATA**  
**SRC ENERGY, INC. - STEPHENS 7-11, 12**

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Standard</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
BH01	06/07/18	<1.00	<1.00	<1.00	<1.00
BH01	09/13/18	<1.00	<1.00	<1.00	<1.00
BH02	06/07/18	<1.00	<1.00	<1.00	<1.00
BH02	09/13/18	<1.00	<1.00	<1.00	<1.00
BH03	06/07/18	<1.00	<1.00	<1.00	<1.00
BH03	09/13/18	32.7	<1.00	<1.00	<1.00
BH04	06/07/18	164	<1.00	15.0	45.8
BH04	09/13/18	458	<1.0	156	1450
BH05	06/07/18	<1.00	<1.00	<1.00	<1.00
BH05	09/13/18	<1.00	<1.00	<1.00	<1.00
BH06	06/07/18	40.2	<1.00	45.0	85.5
BH06	09/13/18	2.81	<1.0	2.56	<1.0
BH07	06/22/18	<1.00	<1.00	<1.00	<1.00
BH07	09/13/18	<1.00	<1.00	<1.00	<1.00
BH08	06/22/18	4.06	<1.00	<1.00	<1.00
BH08	09/13/18	<1.0	<1.0	<1.0	<1.0
BH09	06/22/18	3750	<1.00	95.1	1890
BH09	09/13/18	4270	<1.0	265	2480
BH10	06/22/18	1370	<1.00	69.7	8.14
BH10	09/13/18	2380	<4.0	156	<4.0
BH11	06/22/18	128	<1.00	12.4	<1.00
BH11	09/13/18	409	<1.0	21.8	<1.0
BH12	06/22/18	81.4	<1.00	50.5	339
BH12	09/13/18	7.51	<1.0	14.4	78.7
BH13	07/17/18	<1.00	<1.00	<1.00	<1.00
BH13	09/13/18	<1.0	<1.0	<1.0	<1.0
BH14	07/17/18	1.77	<1.00	39.7	130
BH14	09/13/18	<1.0	<1.0	6.06	2.04
BH15	07/17/18	159	<1.00	31.4	2.65
BH15	09/13/18	43.1	<1.0	5.21	<1.0
BH16	07/17/18	<1.00	<1.00	<1.00	<1.00
BH16	09/13/18	<1.0	<1.0	<1.0	<1.0
BH17	07/17/18	<1.00	<1.00	<1.00	<1.00
BH17	09/13/18	<1.0	<1.0	<1.0	<1.0
BH18	07/17/18	134	<1.00	39.5	108
BH18	09/13/18	58.6	<1.0	11.7	46.1
BH19	07/17/18	<1.00	<1.00	<1.00	<1.00
BH19	09/13/18	<1.0	<1.0	<1.0	<1.0
BH20	08/06/18	<4.00	<4.00	116	299
BH20	09/13/18	<1.0	<1.0	42.4	89.4
BH21	08/06/18	<1.00	<1.00	<1.00	<1.00
BH21	09/13/18	<1.0	<1.0	<1.0	<1.0

**TABLE 1**  
**GROUNDWATER ANALYTICAL DATA**  
**SRC ENERGY, INC. - STEPHENS 7-11, 12**

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Standard</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
BH22	08/06/18	<1.00	<1.00	<1.00	<1.00
BH22	09/13/18	<1.0	<1.0	<1.0	<1.0

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

< = Analytical result is less than the indicated laboratory reporting limit

Groundwater standards referenced from COGCC Table 910-1

**Highlighted results are equal to or exceed the COGCC Table 910-1 standard**

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**SRC ENERGY, INC. - STEPHENS 7-11, 12**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft. BTOC)	Depth to LNAPL (ft. BTOC)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	06/07/18	4831.08	14.72	10.09	ND	ND	4820.99
BH01	09/13/18	4831.08	13.73	7.96	ND	ND	4823.12
BH02	06/07/18	4830.83	11.61	9.86	ND	ND	4820.97
BH02	09/13/18	4830.83	11.63	7.63	ND	ND	4823.20
BH03	06/07/18	4830.44	11.29	9.64	ND	ND	4820.80
BH03	09/13/18	4830.44	11.24	6.83	ND	ND	4823.61
BH04	06/07/18	4829.80	12.38	9.07	ND	ND	4820.73
BH04	09/13/18	4829.80	12.47	5.93	ND	ND	4823.87
BH05	06/07/18	4831.71	14.19	10.80	ND	ND	4820.91
BH05	09/13/18	4831.71	14.45	8.17	ND	ND	4823.54
BH06	06/07/18	4831.36	18.76	12.92	ND	ND	4818.44
BH06	09/13/18	4831.36	18.69	7.70	ND	ND	4823.66
BH07	06/22/18	4831.58	14.76	10.06	ND	ND	4821.52
BH07	09/13/18	4831.58	14.88	7.80	ND	ND	4823.78
BH08	06/22/18	4828.80	14.94	7.19	ND	ND	4821.61
BH08	09/13/18	4828.80	14.90	4.77	ND	ND	4824.03
BH09	06/22/18	4830.21	13.76	8.78	ND	ND	4821.43
BH09	09/13/18	4830.21	13.72	6.24	ND	ND	4823.97
BH10	06/22/18	4827.84	10.99	6.33	ND	ND	4821.51
BH10	09/13/18	4827.84	10.94	3.73	ND	ND	4824.11
BH11	06/22/18	4828.04	9.92	6.67	ND	ND	4821.37
BH11	09/13/18	4828.04	9.88	4.09	ND	ND	4823.95
BH12	06/22/18	4827.38	10.99	5.60	ND	ND	4821.78
BH12	09/13/18	4827.38	10.99	3.17	ND	ND	4824.21
BH13	07/17/18	4830.58	13.42	6.75	ND	ND	4823.83
BH13	09/13/18	4830.58	13.60	6.41	ND	ND	4824.17
BH14	07/17/18	4827.32	9.92	3.02	ND	ND	4824.30
BH14	09/13/18	4827.32	10.71	2.88	ND	ND	4824.44
BH15	07/17/18	4830.72	13.01	6.84	ND	ND	4823.88
BH15	09/13/18	4830.72	12.78	6.40	ND	ND	4824.32
BH16	07/17/18	4830.50	12.66	7.21	ND	ND	4823.29
BH16	09/13/18	4830.50	12.68	6.37	ND	ND	4824.13
BH17	07/17/18	4830.91	13.47	8.34	ND	ND	4822.57
BH17	09/13/18	4830.91	13.56	7.03	ND	ND	4823.88
BH18	07/17/18	4830.46	12.35	6.18	ND	ND	4824.28
BH18	09/13/18	4830.46	11.90	6.00	ND	ND	4824.46
BH19	07/17/18	4827.52	9.39	2.84	ND	ND	4824.68
BH19	09/13/18	4827.52	9.74	2.90	ND	ND	4824.62
BH20	08/06/18	4827.44	8.93	2.43	ND	ND	4825.01
BH20	09/13/18	4827.44	8.98	2.74	ND	ND	4824.70
BH21	08/06/18	4830.84	13.17	6.09	ND	ND	4824.75

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
**SRC ENERGY, INC. - STEPHENS 7-11, 12**

<b>Monitoring Well ID</b>	<b>Date</b>	<b>Top of Casing Elevation (ft. AMSL)</b>	<b>Total Depth (ft. BTOC)</b>	<b>Depth to Water (ft. BTOC)</b>	<b>Depth to LNAPL (ft. BTOC)</b>	<b>LNAPL Thickness (ft.)</b>	<b>Groundwater Elevation* (ft. AMSL)</b>
BH21	09/13/18	4830.84	12.98	6.32	ND	ND	4824.52
BH22	08/06/18	4831.83	13.84	6.58	ND	ND	4825.25
BH22	09/13/18	4831.83	13.71	6.95	ND	ND	4824.88

Notes:

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

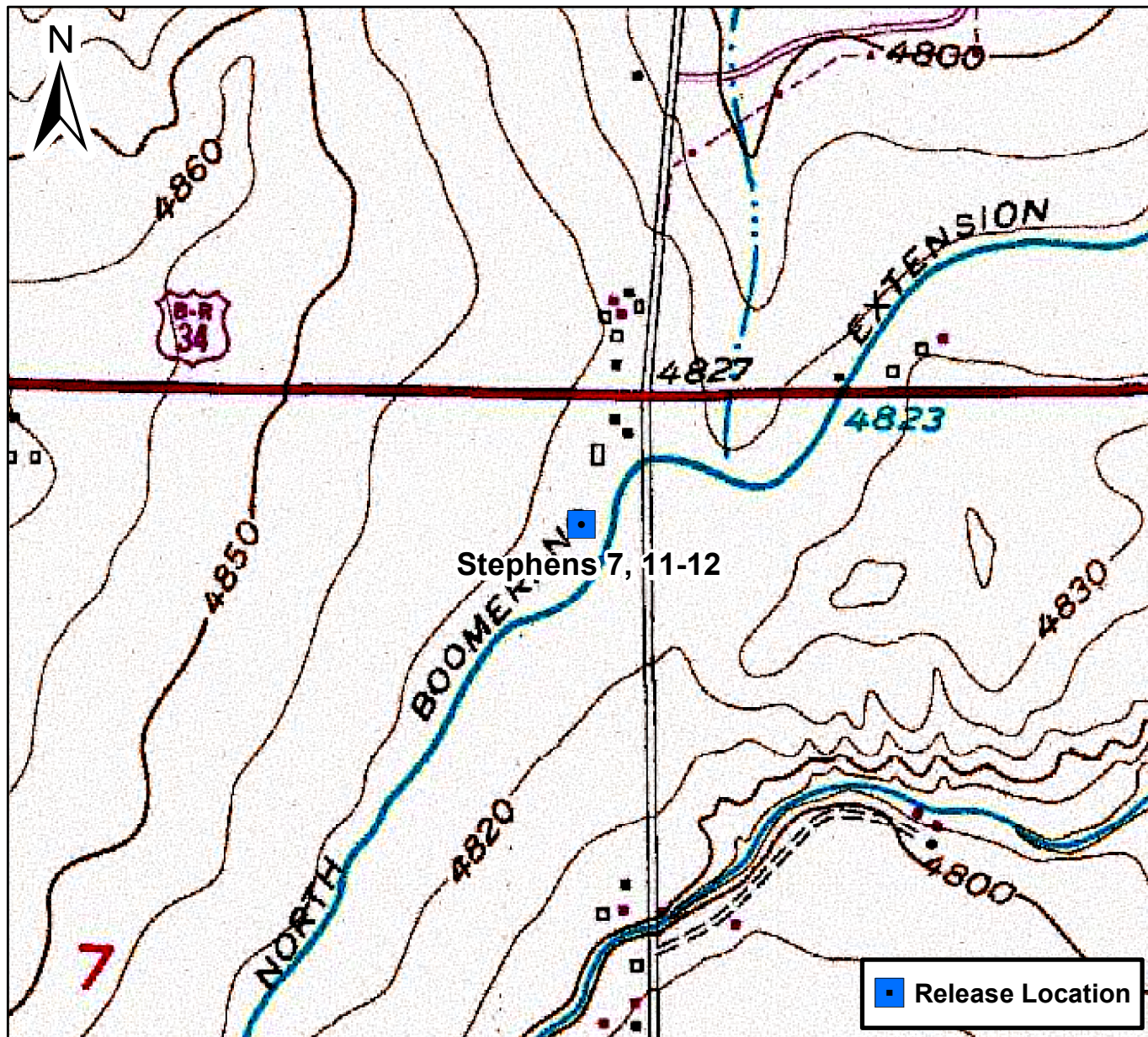
LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

\* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be approximately 0.75



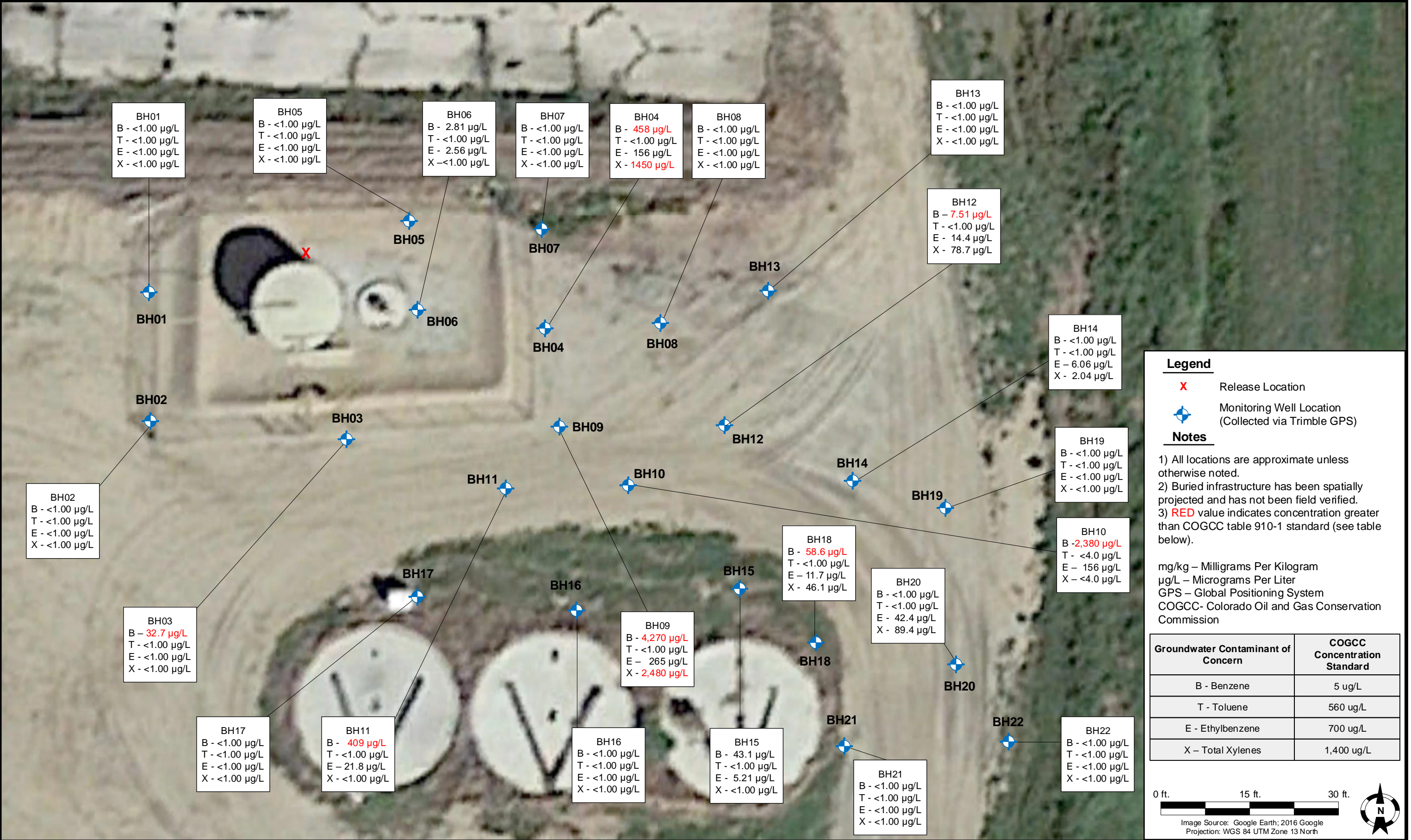
0 750 1,500 Feet

## Figure 1

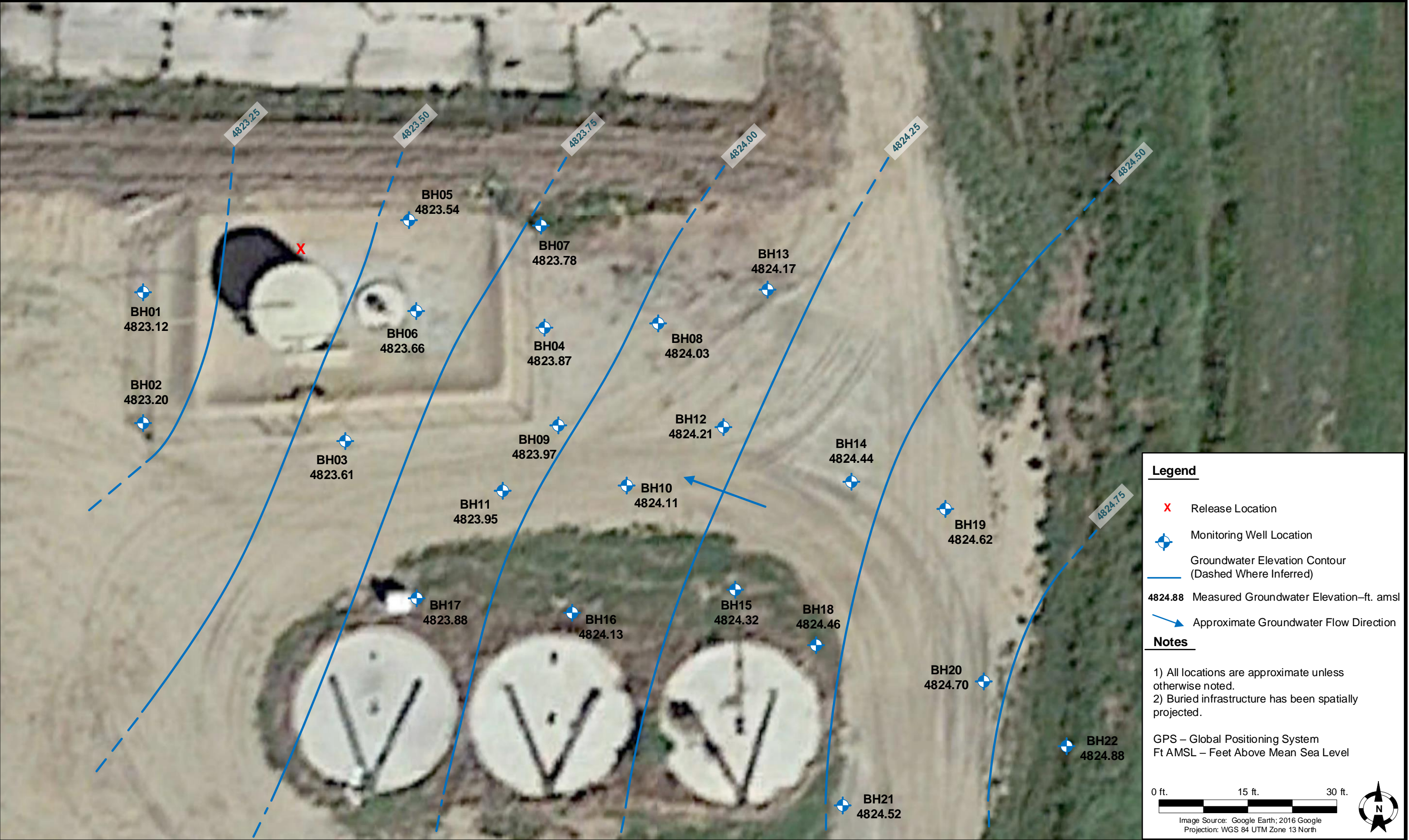
Site Location Map  
 Stephens 7, 11-12  
 NENE S7 T5N R66W  
 Weld County, Colorado













September 18, 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. September 13, 2018. This project is associated with Origins project number Y809179-01.

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

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

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	Y809179-01	Water	September 13, 2018 11:00	09/13/2018 17:20
BH02	Y809179-02	Water	September 13, 2018 11:14	09/13/2018 17:20
BH03	Y809179-03	Water	September 13, 2018 11:30	09/13/2018 17:20
BH04	Y809179-04	Water	September 13, 2018 13:05	09/13/2018 17:20
BH05	Y809179-05	Water	September 13, 2018 11:45	09/13/2018 17:20
BH06	Y809179-06	Water	September 13, 2018 12:43	09/13/2018 17:20
BH07	Y809179-07	Water	September 13, 2018 11:57	09/13/2018 17:20
BH08	Y809179-08	Water	September 13, 2018 12:14	09/13/2018 17:20
BH09	Y809179-09	Water	September 13, 2018 13:43	09/13/2018 17:20
BH10	Y809179-10	Water	September 13, 2018 13:45	09/13/2018 17:20
BH11	Y809179-11	Water	September 13, 2018 13:18	09/13/2018 17:20
BH12	Y809179-12	Water	September 13, 2018 13:14	09/13/2018 17:20
BH13	Y809179-13	Water	September 13, 2018 12:26	09/13/2018 17:20
BH14	Y809179-14	Water	September 13, 2018 12:12	09/13/2018 17:20

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

Brandon Bruns

Project Number: [none]

Project: SRC - Stephens 7-11,12

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15	Y809179-15	Water	September 13, 2018 13:30	09/13/2018 17:20
BH16	Y809179-16	Water	September 13, 2018 12:27	09/13/2018 17:20
BH17	Y809179-17	Water	September 13, 2018 12:39	09/13/2018 17:20
BH18	Y809179-18	Water	September 13, 2018 13:27	09/13/2018 17:20
BH19	Y809179-19	Water	September 13, 2018 11:54	09/13/2018 17:20
BH20	Y809179-20	Water	September 13, 2018 11:03	09/13/2018 17:20
BH21	Y809179-21	Water	September 13, 2018 11:18	09/13/2018 17:20
BH22	Y809179-22	Water	September 13, 2018 11:33	09/13/2018 17:20

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

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

www.originslaboratory.com page 1 of 3

**ORIGINS** LABORATORY, INC 1809179

Client: SAC / Tasman Project Manager/Send Report To: Brandon Bruns  
Address: 6899 N Pecos Email Address: Bbruns@tasman-geo.com  
Denver, CO 80221 Project Name/Number: Stephens 7-11,12  
Telephone Number: 815-979-8348 Samples Collected By: Alison Dahl/Brandon Bruns

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
BH01	9-13-2018	1100	3	X				X			BTX	1
BH02		1114	1	X								2
BH03		1130	1	X								3
BH04		1305	1	X								4
BH05		1145	1	X								5
BH06		1243	1	X								6
BH07		1157	1	X								7
BH08		1214	1	X								8
BH09		1343	1	X								9
BH10		1345	1	X								10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Alison Dahl	9-13-2018	1720		9-13-18	1720	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"/>

Date Results Needed:

Comments:

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

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

**ORIGINS**  
LABORATORY, INC

Client: SRC Tasman Project Manager/Send Report To: Brandon Bruns  
Address: \_\_\_\_\_ Email Address: brunsc@tasman-geo.com  
Telephone Number: 815-979-8348 Project Name/Number: Stephens 7-11,12  
Samples Collected By: Alison Dahl/Brin Gabel

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page 2 of 3

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
BH11	9-13-2018	1318	3		X				X		BTEX	1
BH12		1314			X							2
BH13		1226				X						3
BH14		1212			X							4
BH15		1330			X							5
BH16		1227			X							6
BH17		1239			X							7
BH18		1327			X							8
BH19		1154			X							9
BH20		1103			X							10
Relinquished By: <u>Alison Dahl</u>	Date: <u>9-13-2018</u>	Time: <u>1710</u>	Received By: _____	Date: _____	Time: _____	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						

Date Results Needed: 11-10

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

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

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**ORIGINS**  
LABORATORY, INC

1/809179

Client: SRC Tasman  
Address: \_\_\_\_\_  
Telephone Number: 815.979.8348  
Email Address: \_\_\_\_\_

Project Manager: Brandon Bruns  
Project Name: Stephens 7-11,12  
Project Number: \_\_\_\_\_  
Samples Collected By: Alison Dahl / Brian Gabel

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	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
BH21	9-13-2018	1118	3	X					X		STEX	1
BH22	9-13-2018	1133	1	X					T			2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Alison Dahl	9-13-2018	1720	[Signature]	9/13/18	1700	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard

Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brandon Brun  
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: 4309179

Client: SRC-Tasman

Client Project ID: Stephens 7-11,12

Checklist Completed by: JP

Shipped Via: HO

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

Date/time completed: 9/14/18

Airbill #: NA

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

Cooler Number/Temperature: 1 4.2 °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Hel</u>
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) JP

Date/Time Reviewed 9/17/18

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

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

BH01

9/13/2018 11:00:00AM

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

Origins Laboratory, Inc.  
Y809179-01 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.0 %	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

## BH02

9/13/2018 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	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

BH03

9/13/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-03 (Water)

## BTEX by EPA 8260C

Benzene	32.7	1.00	ug/L	1	B8I1708	KDK	09/17/2018	09/17/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	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 Brunns  
Project Number: [none]  
Project: SRC - Stephens 7-11,12

BH04

9/13/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y809179-04 (Water)

**BTEX by EPA 8260C**

Benzene	458	20.0	ug/L	20	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	1	"	KDK	"	09/17/2018	U
Ethylbenzene	156	1.00	"	"	"	KDK	"	"	
Xylenes, total	1450	20.0	"	20	"	KDK	"	09/18/2018	

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121	"	"	09/17/2018
Surrogate: Toluene-d8	96.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

BH05

9/13/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-05 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Denver CO 80211

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

BH06

9/13/2018 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-06 (Water)

## BTEX by EPA 8260C

Benzene	2.81	1.00	ug/L	1	B811708	KDK	09/17/2018	09/17/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.56	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	"
Surrogate: Toluene-d8	107 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

BH07

9/13/2018 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-07 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

BH08

9/13/2018 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-08 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %	84-121	"	"	"
Surrogate: Toluene-d8	108 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

BH09

9/13/2018 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y809179-09 (Water)

**BTEX by EPA 8260C**

Benzene	4270	100	ug/L	100	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	1	"	KDK	"	09/18/2018	U
Ethylbenzene	265	100	"	100	"	KDK	"	09/18/2018	
Xylenes, total	2480	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"		09/18/2018	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"		"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH10

9/13/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-10 (Water)

### BTEX by EPA 8260C

Benzene	2380	100	ug/L	100	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	4.00	"	4	"	KDK	"	09/18/2018	U
Ethylbenzene	156	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

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

100 % 84-121  
97.6 % 85-115  
96.7 % 84-114

" "  
" "  
" "

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH11

9/13/2018 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-11 (Water)

### BTEX by EPA 8260C

Benzene	409	50.0	ug/L	50	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	1	"	KDK	"	09/18/2018	U
Ethylbenzene	21.8	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH12

9/13/2018 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-12 (Water)

### BTEX by EPA 8260C

Benzene	7.51	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	14.4	1.00	"	"	"	KDK	"	"	
Xylenes, total	78.7	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	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

## BH13

9/13/2018 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-13 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121	"	"	"
Surrogate: Toluene-d8	97.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH14

9/13/2018 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-14 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.06	1.00	"	"	"	KDK	"	"	
Xylenes, total	2.04	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121	"	"	"
Surrogate: Toluene-d8	97.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH15

9/13/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-15 (Water)

### BTEX by EPA 8260C

Benzene	43.1	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.21	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	84-121			"	"	"
Surrogate: Toluene-d8	105 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	84-114			"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH16

9/13/2018 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-16 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	84-121	"	"	"
Surrogate: Toluene-d8	97.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	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

BH17

9/13/2018 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809179-17 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121	"	"	"
Surrogate: Toluene-d8	104 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	92.7 %	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

## BH18

9/13/2018 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-18 (Water)

### BTEX by EPA 8260C

Benzene	58.6	1.00	ug/L	1	B8I1708	KDK	09/17/2018	09/18/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	11.7	1.00	"	"	"	KDK	"	"	
Xylenes, total	46.1	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH19

9/13/2018 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-19 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	97.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH20

9/13/2018 11:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-20 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	42.4	1.00	"	"	"	KDK	"	"	
Xylenes, total	89.4	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121	"	"	"
Surrogate: Toluene-d8	108 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH21

9/13/2018 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-21 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C  
Denver CO 80211

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

## BH22

9/13/2018 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809179-22 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B811708	KDK	09/17/2018	09/18/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121	"	"	"
Surrogate: Toluene-d8	104 %	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

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
<b>Batch B8I1708 - EPA 5030B (Water)</b>										
<b>Blank (B8I1708-BLK1)</b>					Prepared: 09/17/2018 Analyzed: 09/17/2018					
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	60		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	84-114			

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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 B8I1708 - EPA 5030B (Water)**

**Blank (B8I1708-BLK2)**

Prepared: 09/17/2018 Analyzed: 09/17/2018

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	59		"	62.5	95.0	84-121				
Surrogate: Toluene-d8	64		"	62.5	102	85-115				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.8	84-114				

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Brandon Bruns  
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**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 B811708 - EPA 5030B (Water)**

**LCS (B811708-BS1)**

Prepared: 09/17/2018 Analyzed: 09/17/2018

Benzene	48.2	1.00	ug/L	50.0		96.3	73.3-129			
Toluene	47.5	1.00	"	50.0		95.0	76.2-123			
Ethylbenzene	46.9	1.00	"	50.0		93.8	73.6-130			
m,p-Xylene	96.2	2.00	"	100		96.2	76.1-126			
o-Xylene	48.2	1.00	"	50.0		96.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B811708 - EPA 5030B (Water)**

**LCS (B811708-BS2)**

Prepared: 09/17/2018 Analyzed: 09/17/2018

Benzene	40.8	1.00	ug/L	50.0		81.7	73.3-129			
Toluene	41.2	1.00	"	50.0		82.3	76.2-123			
Ethylbenzene	40.6	1.00	"	50.0		81.3	73.6-130			
m,p-Xylene	82.2	2.00	"	100		82.2	76.1-126			
o-Xylene	42.7	1.00	"	50.0		85.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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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 B8I1708 - EPA 5030B (Water)**

Matrix Spike (B8I1708-MS1)		Source: Y809179-01			Prepared: 09/17/2018 Analyzed: 09/17/2018					
Benzene	47.4	1.00	ug/L	50.0	ND	94.8	74-130			
Toluene	47.7	1.00	"	50.0	0.190	95.0	73-131			
Ethylbenzene	47.4	1.00	"	50.0	0.120	94.5	76-132			
m,p-Xylene	96.2	2.00	"	100	ND	96.2	69-139			
o-Xylene	47.0	1.00	"	50.0	0.090	93.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	84-114			

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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 B8I1708 - EPA 5030B (Water)**

Matrix Spike (B8I1708-MS2)		Source: Y809179-02			Prepared: 09/17/2018 Analyzed: 09/17/2018					
Benzene	50.4	1.00	ug/L	50.0	ND	101	74-130			
Toluene	49.3	1.00	"	50.0	0.150	98.4	73-131			
Ethylbenzene	50.0	1.00	"	50.0	0.110	99.8	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences  
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 B8I1708 - EPA 5030B (Water)**

Matrix Spike Dup (B8I1708-MSD1)		Source: Y809179-01			Prepared: 09/17/2018 Analyzed: 09/17/2018					
Benzene	49.7	1.00	ug/L	50.0	ND	99.3	74-130	4.66	20	
Toluene	48.1	1.00	"	50.0	0.190	95.9	73-131	0.939	20	
Ethylbenzene	51.9	1.00	"	50.0	0.120	104	76-132	9.21	20	
m,p-Xylene	105	2.00	"	100	ND	105	69-139	8.72	20	
o-Xylene	51.0	1.00	"	50.0	0.090	102	74-131	8.19	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	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 B811708 - EPA 5030B (Water)**

Matrix Spike Dup (B811708-MSD2)		Source: Y809179-02			Prepared: 09/17/2018 Analyzed: 09/17/2018					
Benzene	48.7	1.00	ug/L	50.0	ND	97.4	74-130	3.47	20	
Toluene	49.9	1.00	"	50.0	0.150	99.5	73-131	1.17	20	
Ethylbenzene	48.2	1.00	"	50.0	0.110	96.2	76-132	3.60	20	
m,p-Xylene	99.8	2.00	"	100	ND	99.8	69-139	1.95	20	
o-Xylene	48.0	1.00	"	50.0	ND	95.9	74-131	4.12	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

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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

### 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.

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