

January 21, 2019

Mr. David Castro
SRC Energy, Inc.
West 11th Street, Suite C
Greeley, CO 80634

Subject: **Fourth Quarter 2018 Site Monitoring and Remediation Summary Report**
 Stephens 7-11, 12
 Spill/Release Point ID #: 455029
 Remediation Project #: 11394
 NENE S7 T5N R66W
 Weld County, Colorado

Dear Mr. Castro:

Below please find a copy of the above referenced Fourth Quarter 2018 Site Monitoring and Remediation Summary Report (Report) for the Stephens 7-11, 12 site (Site) in Weld County, Colorado. The text below describes groundwater remediation and sampling activities conducted by Tasman Geosciences, Inc. (Tasman), on behalf of SRC Energy, Inc. (SRC), during the Fourth Quarter of 2018. Groundwater laboratory analytical data is summarized in Table 1 and illustrated on Figure 3 while groundwater elevation data is summarized in Table 2 and illustrated on Figure 4.

Introduction

This Fourth Quarter 2018 Report presents the results of groundwater sampling, as well as air sparge (AS) remediation activities performed at the Site. Field activities described in this Report were conducted by Tasman Geosciences, Inc. (Tasman) to further evaluate groundwater conditions and conduct remediation activities at the Site. The data collected were used to develop the analytical summary tables, groundwater elevation map, and analytical data map presented herein.

Fourth Quarter 2018 Groundwater Monitoring Activities

Fourth Quarter 2018 groundwater monitoring activities were performed at the Site on December 27, 2018. The activities included measurement of groundwater levels from all twenty-two Site monitoring well locations and collection of groundwater samples for laboratory analysis.

Groundwater Level Measurements

Groundwater and light non-aqueous phase liquid (LNAPL) levels were gauged in order to evaluate hydraulic characteristics and to provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. During the Fourth Quarter 2018 groundwater monitoring event, groundwater and LNAPL levels were gauged at all monitoring well locations in the Site monitoring network.

During the Fourth Quarter 2018 groundwater monitoring event, the groundwater elevation at the Site ranged from 4,818.66 ft. amsl in BH22 to 4,820.61 ft. amsl in BH01 (Table 1). The groundwater potentiometric surface at the site slopes to the southeast, with a hydraulic gradient of approximately 0.01 feet per foot between wells BH01 and BH22. During the Fourth Quarter 2018 groundwater monitoring event, BH18 was dry when gauged, and BH20 contained insufficient water to be sampled. Groundwater elevation contours and the inferred flow direction are illustrated on Figure 4 and groundwater and LNAPL elevation measurements are presented in Table 2. LNAPL was not measured in any of the Site monitoring wells during the Fourth Quarter 2018 monitoring event.

Groundwater Sampling Results

This section presents the results of the Fourth quarter 2018 groundwater sampling event. Groundwater laboratory analytical data is presented in Table 1 and illustrated on Figure 3. The laboratory analytical report is provided in Attachment A. A summary of the groundwater laboratory analytical data collected by Tasman is presented below:

- Benzene was detected above the COGCC Table 910-1 groundwater standard of 5 micrograms per liter ($\mu\text{g/L}$) in one of the 22 Site monitoring wells sampled. Benzene concentrations at BH04 were 36.5 $\mu\text{g/L}$.
- Toluene was not detected above the COGCC Table 910-1 groundwater standard of 560 $\mu\text{g/L}$ in any of the 22 Site monitoring wells sampled.
- Ethylbenzene was not detected above the COGCC Table 910-1 groundwater standard of 700 $\mu\text{g/L}$ in any of the 22 monitoring wells sampled.
- Total xylenes were not detected above the COGCC Table 910-1 groundwater standard of 1,400 $\mu\text{g/L}$ in any of the 22 monitoring wells sampled.

Remediation Activities

During the Fourth Quarter 2018 Tasman used monitoring wells BH04, BH09, BH10, BH11, BH12, BH15, and BH18 to complete air sparging (AS) to address dissolved phase petroleum hydrocarbons that have been detected historically at elevated concentrations. Six air sparging events were completed from October to December 2018, in the wells detailed above. During these events the wells were operated at an average combined flow of 15.4 cubic feet per minute (cfm) and at an average pressure of 20 pounds per square inch (psi). A summary of AS operational data is presented in Table 3. As summarized in Table 1, it appears that the AS events were successful at addressing the dissolved phase impacts. The reduction in petroleum hydrocarbon concentrations could also be attributed to the drop in groundwater elevation across the Site.

Upcoming Activities

Anticipated upcoming Site activities include the following:

- Continue quarterly monitoring of the Site groundwater well network;
- Determine the efficacy of future AS events.

TABLES

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

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
BH01	06/07/18	<1.00	<1.00	<1.00	<1.00
BH01	09/13/18	<1.00	<1.00	<1.00	<1.00
BH01	12/27/18	<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
BH02	12/27/18	<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
BH03	12/27/18	<1.00	<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
BH04	12/27/18	36.5	<1.0	2.61	<1.00
BH05	06/07/18	<1.00	<1.00	<1.00	<1.00
BH05	09/13/18	<1.00	<1.00	<1.00	<1.00
BH05	12/27/18	<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
BH06	12/27/18	<1.00	<1.00	<1.00	<1.00
BH07	06/22/18	<1.00	<1.00	<1.00	<1.00
BH07	09/13/18	<1.00	<1.00	<1.00	<1.00
BH07	12/27/18	<1.00	<1.00	<1.00	<1.00
BH08	06/22/18	4.06	<1.00	<1.00	<1.00
BH08	09/13/18	<1.00	<1.00	<1.00	<1.00
BH08	12/27/18	<1.00	<1.00	<1.00	<1.00
BH09	06/22/18	3750	<1.00	95.1	1890
BH09	09/13/18	4270	<1.00	265	2480
BH09	12/27/18	<1.00	<1.00	<1.00	<1.00
BH10	06/22/18	1370	<1.00	69.7	8.14
BH10	09/13/18	2380	<4.00	156	<4.00
BH10	12/27/18	<1.00	<1.00	<1.00	<1.00
BH11	06/22/18	128	<1.00	12.4	<1.00
BH11	09/13/18	409	<1.00	21.8	<1.00
BH11	12/27/18	<1.00	<1.00	<1.00	<1.00
BH12	06/22/18	81.4	<1.00	50.5	339
BH12	09/13/18	7.51	<1.00	14.4	78.7
BH12	12/27/18	<1.00	<1.00	<1.00	<1.00
BH13	07/17/18	<1.00	<1.00	<1.00	<1.00
BH13	09/13/18	<1.00	<1.00	<1.00	<1.00
BH13	12/27/18	<1.00	<1.00	<1.00	<1.00
BH14	07/17/18	1.77	<1.00	39.7	130
BH14	09/13/18	<1.00	<1.00	6.06	2.04
BH14	12/27/18	<1.00	<1.00	<1.00	<1.00

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

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
BH15	07/17/18	159	<1.00	31.4	2.65
BH15	09/13/18	43.1	<1.00	5.21	<1.00
BH15	12/27/18	<1.00	<1.00	<1.00	<1.00
BH16	07/17/18	<1.00	<1.00	<1.00	<1.00
BH16	09/13/18	<1.00	<1.00	<1.00	<1.00
BH16	12/27/18	<1.00	<1.00	<1.00	<1.00
BH17	07/17/18	<1.00	<1.00	<1.00	<1.00
BH17	09/13/18	<1.00	<1.00	<1.00	<1.00
BH17	12/27/18	<1.00	<1.00	<1.00	<1.00
BH18	07/17/18	134	<1.00	39.5	108
BH18	09/13/18	58.6	<1.0	11.7	46.1
BH18	12/27/18	Not Sampled- Dry			
BH19	07/17/18	<1.00	<1.00	<1.00	<1.00
BH19	09/13/18	<1.00	<1.00	<1.00	<1.00
BH19	12/27/18	<1.00	<1.00	<1.00	<1.00
BH20	08/06/18	<4.00	<4.00	116	299
BH20	09/13/18	<1.00	<1.00	42.4	89.4
BH20	12/27/18	Not Sampled- Insufficient Water			
BH21	08/06/18	<1.00	<1.00	<1.00	<1.00
BH21	09/13/18	<1.00	<1.00	<1.00	<1.00
BH21	12/27/18	<1.00	<1.00	<1.00	<1.00
BH22	08/06/18	<1.00	<1.00	<1.00	<1.00
BH22	09/13/18	<1.00	<1.00	<1.00	<1.00
BH22	12/27/18	<1.00	<1.00	<1.00	<1.00

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- 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
BH01	12/27/18	4831.08	13.83	10.47	ND	ND	4820.61
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
BH02	12/27/18	4830.83	11.77	10.26	ND	ND	4820.57
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
BH03	12/27/18	4830.44	11.55	10.12	ND	ND	4820.32
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
BH04	12/27/18	4829.80	12.44	9.90	ND	ND	4819.90
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
BH05	12/27/18	4831.71	14.26	11.46	ND	ND	4820.25
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
BH06	12/27/18	4831.36	18.74	11.11	ND	ND	4820.25
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
BH07	12/27/18	4831.58	14.00	11.57	ND	ND	4820.01
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
BH08	12/27/18	4828.80	15.00	9.02	ND	ND	4819.78
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
BH09	12/27/18	4830.21	13.78	10.37	ND	ND	4819.84
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
BH10	12/27/18	4827.84	10.61	8.03	ND	ND	4819.81
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
BH11	12/27/18	4828.04	9.85	8.10	ND	ND	4819.94
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
BH12	12/27/18	4827.38	10.90	7.84	ND	ND	4819.54
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
BH13	12/27/18	4830.58	13.59	10.99	ND	ND	4819.59
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
BH14	12/27/18	4827.32	10.70	7.97	ND	ND	4819.35

TABLE 2
GROUNDWATER ELEVATION DATA
SRC ENERGY- 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)
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
BH15	12/27/18	4830.72	12.00	11.27	ND	ND	4819.45
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
BH16	12/27/18	4830.50	12.80	10.69	ND	ND	4819.81
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
BH17	12/27/18	4830.91	13.58	10.79	ND	ND	4820.12
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
BH18	12/27/18	4830.46	11.00			DRY	
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
BH19	12/27/18	4827.52	9.30	8.40	ND	ND	4819.12
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
BH20	12/27/18	4827.44	8.90	8.55	ND	ND	4818.89
BH21	08/06/18	4830.84	13.17	6.09	ND	ND	4824.75
BH21	09/13/18	4830.84	12.98	6.32	ND	ND	4824.52
BH21	12/27/18	4830.84	12.71	11.71	ND	ND	4819.13
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
BH22	12/27/18	4831.83	14.33	13.17	ND	ND	4818.66

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

TABLE 3
EFR/AS OPERATIONAL SUMMARY TABLE
SRC ENERGY - STEPHENS 7-11, 12

Date	EFR Wells	Total AS/EFR Duration (hours)	Approximate Gallons Extracted	AS Wells	Air Injection Pressure (psi)	Average Air Flow Rate (cfm)
Fourth Quarter 2018						
10/19/2018	None	6	0	BH04, BH09, BH10, BH11, BH12, BH15, BH18	20	15.4
10/25/2018		6	0		20	16.4
11/1/2018		6	0		20	15.6
11/8/2018		6	0		20	15.3
12/6/2018		6	0		20	13.7
12/13/2018		6	0		20	15.7
Quarterly Totals		36	0			

Notes:

EFR = Enhanced fluid recovery

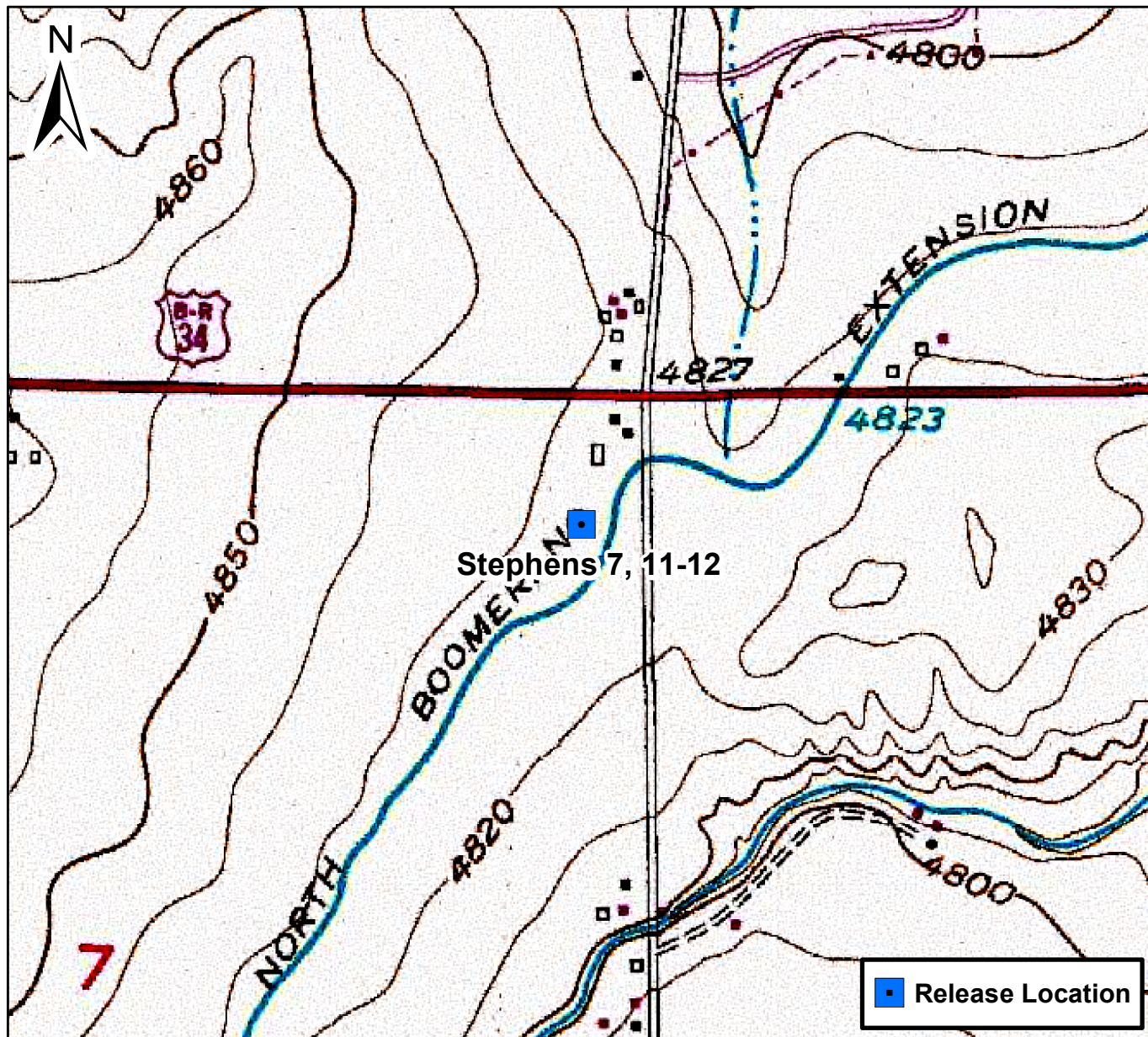
AS = Air sparge

psi = Pounds per square inch

cfm = cubic feet per minute

NR = Not recorded

FIGURES



0 750 1,500 Feet

Figure 1

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





DATE:	01/17/19
DESIGNED BY:	DA
DRAWN BY:	CO



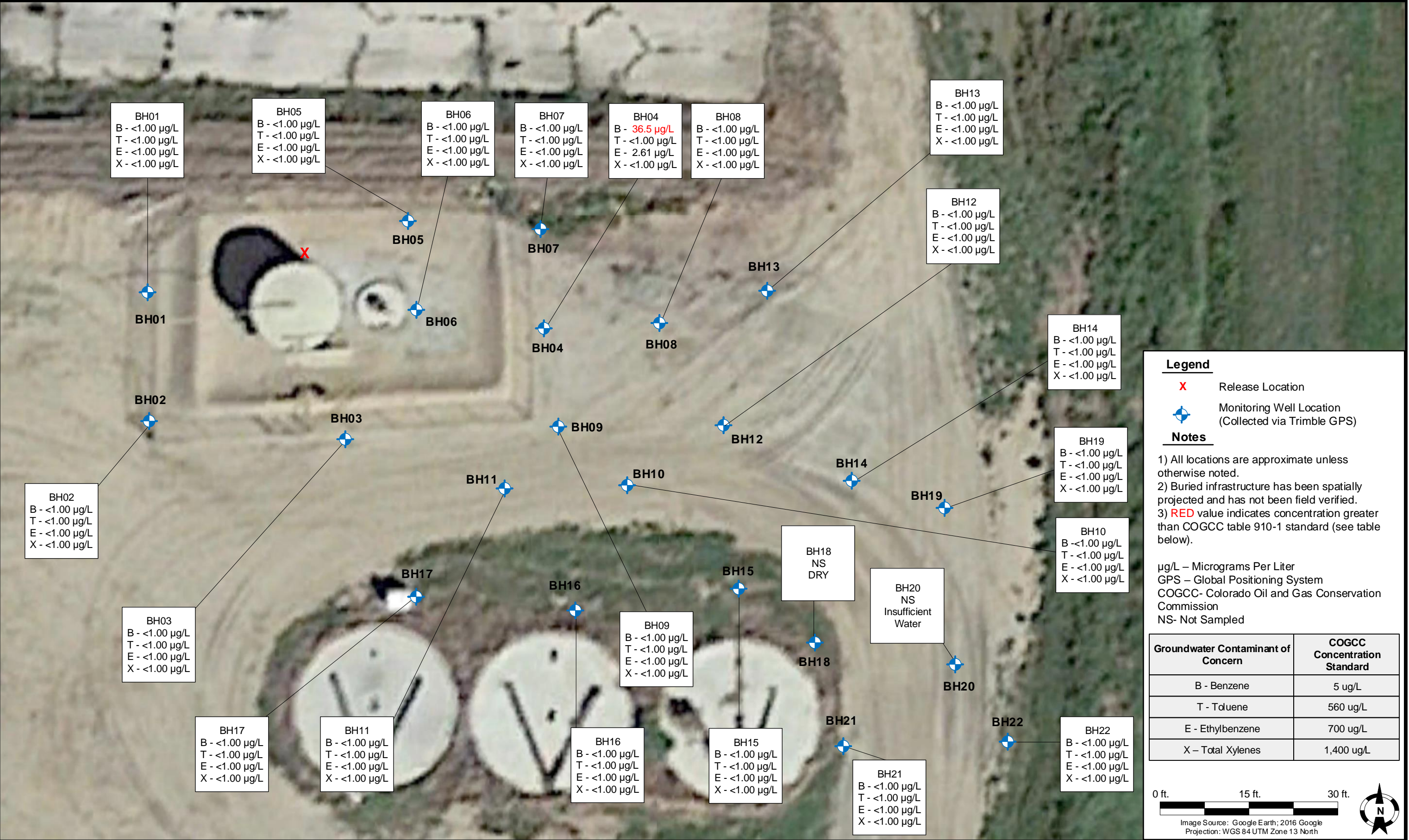
TASMAN
GEOSCIENCES

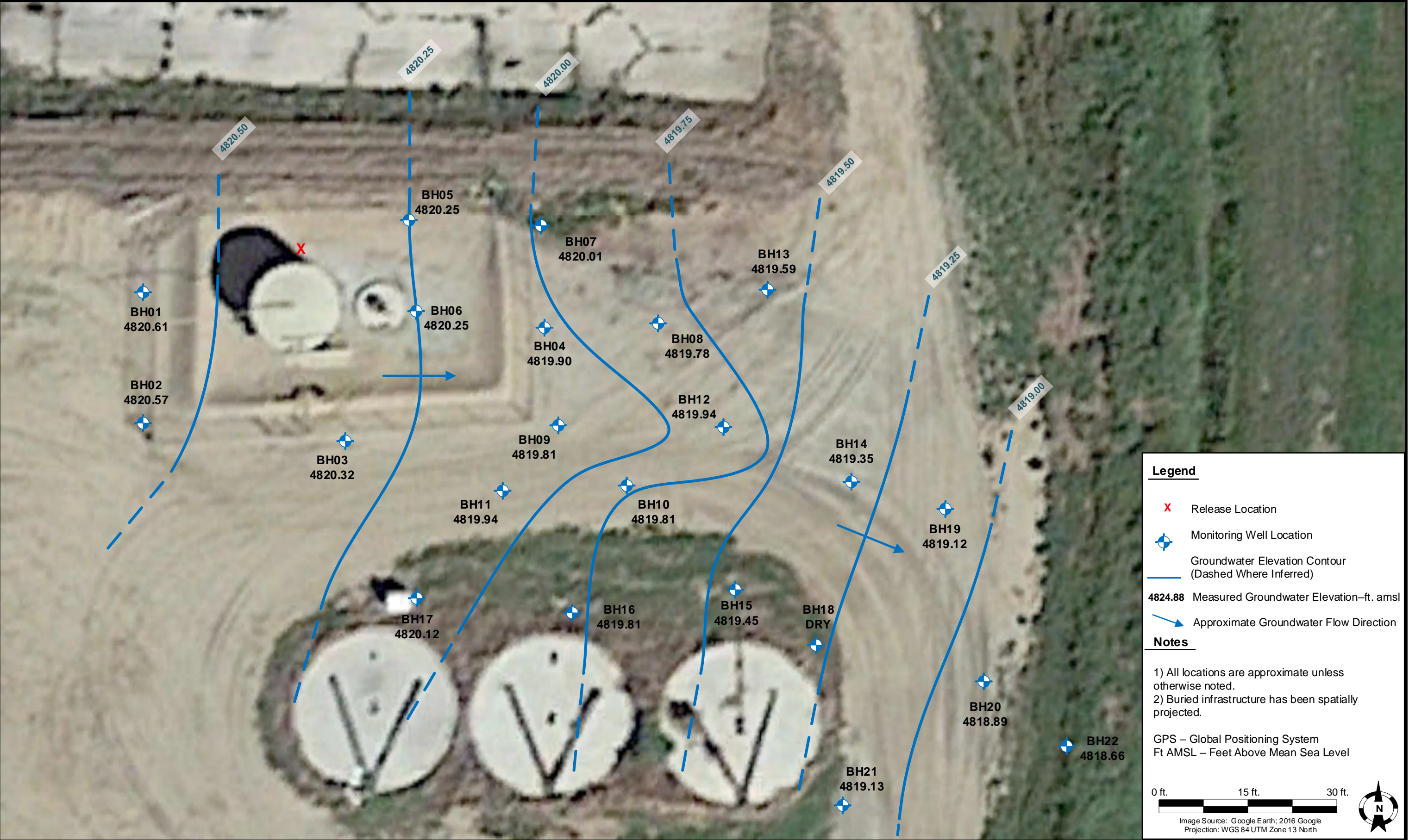
Tasman Geosciences, Inc.
6899 Pecos Street – Unit C
Denver, CO 80221

SRC Energy
Stephens 7-11, 12
NENE, Section 7, Township 5 North, Range 66 West
Weld County, Colorado

Site Overview Map

FIGURE
2





ATTACHMENT A
LABORATORY ANALYTICAL DATA REPORT

January 03, 2019

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. December 27, 2018. This project is associated with Origins project number Y812424-01.

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	Y812424-01	Water	December 27, 2018 11:15	12/27/2018 17:05
BH02	Y812424-02	Water	December 27, 2018 11:21	12/27/2018 17:05
BH03	Y812424-03	Water	December 27, 2018 12:00	12/27/2018 17:05
BH04	Y812424-04	Water	December 27, 2018 12:20	12/27/2018 17:05
BH05	Y812424-05	Water	December 27, 2018 11:40	12/27/2018 17:05
BH06	Y812424-06	Water	December 27, 2018 11:45	12/27/2018 17:05
BH07	Y812424-07	Water	December 27, 2018 11:55	12/27/2018 17:05
BH08	Y812424-08	Water	December 27, 2018 12:00	12/27/2018 17:05
BH09	Y812424-09	Water	December 27, 2018 12:32	12/27/2018 17:05
BH10	Y812424-10	Water	December 27, 2018 12:30	12/27/2018 17:05
BH11	Y812424-11	Water	December 27, 2018 12:10	12/27/2018 17:05
BH12	Y812424-12	Water	December 27, 2018 12:40	12/27/2018 17:05
BH13	Y812424-13	Water	December 27, 2018 11:50	12/27/2018 17:05
BH14	Y812424-14	Water	December 27, 2018 11:40	12/27/2018 17:05

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	Y812424-15	Water	December 27, 2018 11:15	12/27/2018 17:05
BH16	Y812424-16	Water	December 27, 2018 11:20	12/27/2018 17:05
BH17	Y812424-17	Water	December 27, 2018 11:25	12/27/2018 17:05
BH19	Y812424-18	Water	December 27, 2018 11:30	12/27/2018 17:05
BH21	Y812424-19	Water	December 27, 2018 11:05	12/27/2018 17:05
BH22	Y812424-20	Water	December 27, 2018 11:00	12/27/2018 17:05

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



Client: SRC Energy/Tasman Project Manager/Send Report To: Brandon Bruns

Address: _____ Email Address: bruns@tasman-geo.com

Telephone Number: 979-255-4235 Project Name/Number: Stephens 7-11,12

Samples Collected By: Max Garza

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 #	Other		
BH01	12/27/18	1115	3	X				X				BREX	1
BH02		1121	2					X					2
BH03		1200	3										3
BH04		1220	1										4
BH05		1140											5
BH06		1145											6
BH07		1155											7
BH08		1200											8
BH09		1232											9
BH10		1230											10
Relinquished By: Max L	Date: 12/27/18	Time: 1705		Received By: [Signature]	Date: 12/27/18	Time: 1705		Received By: [Signature]	Date: 12/27/18	Time: 1705		Turnaround Time: 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"/>	
Relinquished By:	Date:	Time:		Received By:	Date:	Time:		Received By:	Date:	Time:			

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

www.originslaboratory.com

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ORIGINS
LABORATORY, INC

Y412424

Client: SRC / Tasman
Address: _____
Telephone Number: 979-255-4235
Email Address: _____
Project Manager: _____
Project Name: Stephens 7-11,12
Project 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		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	
BH11	12/27/18	12:10	3	X					X			1
BH12		12:40										2
BH13		11:50										3
BH14		11:40										4
BH15		11:15	1									5
BH16		11:20	3									6
BH17		11:25										7
BH19		11:30	2									8
BH21		11:05	4									9
BH22		11:00	2									10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
MAN	12/27/18	1705	[Signature]	12/27/18	1705	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

Temp Received- 4.6

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: Y42424 Client: Tasman
Client Project ID: SRC-Stephens 7-11,12
Checklist Completed by: JG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12/28/2018 Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
(Describe)
Cooler Number/Temperature: 1 / 4.6 °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) [Signature] Date/Time Reviewed 12/31/18

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

12/27/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	91.3 %	84-121	"	"	"
Surrogate: Toluene-d8	95.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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

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

BH02

12/27/2018 11:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	90.8 %	84-121	"	"	"
Surrogate: Toluene-d8	95.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	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

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

BH03

12/27/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	91.4 %	84-121	"	"	"
Surrogate: Toluene-d8	94.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	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

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

BH04

12/27/2018 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-04 (Water)

BTEX by EPA 8260C

Benzene	36.5	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.61	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %	84-121			"	"	"
Surrogate: Toluene-d8	95.5 %	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

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

BH05

12/27/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	94.4 %	84-121	"	"	"
Surrogate: Toluene-d8	93.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	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

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

BH06

12/27/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	94.5 %	84-121	"	"	"
Surrogate: Toluene-d8	96.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	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

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

BH07

12/27/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	94.9 %	84-121	"	"	"
Surrogate: Toluene-d8	94.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	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

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

BH08

12/27/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	94.7 %	84-121	"	"	"
Surrogate: Toluene-d8	94.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	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

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

BH09

12/27/2018 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.9 %	84-121	"	"	"
Surrogate: Toluene-d8	95.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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

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

BH10

12/27/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.7 %	84-121	"	"	"
Surrogate: Toluene-d8	95.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	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

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

BH11

12/27/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.3 %	84-121	"	"	"
Surrogate: Toluene-d8	94.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	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

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

BH12

12/27/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	96.9 %	84-121	"	"	"
Surrogate: Toluene-d8	93.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	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

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

BH13

12/27/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	93.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	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

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

BH14

12/27/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	99.4 %	84-121	"	"	"
Surrogate: Toluene-d8	93.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	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

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

BH15

12/27/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	96.4 %	84-121	"	"	"
Surrogate: Toluene-d8	93.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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

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

BH16

12/27/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.1 %	84-121	"	"	"
Surrogate: Toluene-d8	93.2 %	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

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

BH17

12/27/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.6 %	84-121	"	"	"
Surrogate: Toluene-d8	93.9 %	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

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

BH19

12/27/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812424-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	95.1 %	84-121	"	"	"
Surrogate: Toluene-d8	93.8 %	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

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

BH21

12/27/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-19 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	93.6 %	84-121	"	"	"
Surrogate: Toluene-d8	94.1 %	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

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

BH22

12/27/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812424-20 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L2806	KDK	12/28/2018	12/31/2018	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	93.9 %	84-121	"	"	"
Surrogate: Toluene-d8	92.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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
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Batch B8L2806 - EPA 5030B (Water)

Blank (B8L2806-BLK1)

Prepared: 12/28/2018 Analyzed: 12/31/2018

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	58		"	62.5	93.0		84-121			
Surrogate: Toluene-d8	60		"	62.5	96.2		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.5		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

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 B8L2806 - EPA 5030B (Water)

LCS (B8L2806-BS1)

Prepared: 12/28/2018 Analyzed: 12/31/2018

Benzene	59.4	1.00	ug/L	50.0	119	73.3-129
Toluene	53.0	1.00	"	50.0	106	76.2-123
Ethylbenzene	56.0	1.00	"	50.0	112	73.6-130
m,p-Xylene	105	2.00	"	100	105	76.1-126
o-Xylene	54.5	1.00	"	50.0	109	76.6-124
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5	90.8	84-121
Surrogate: Toluene-d8	60		"	62.5	96.8	85-115
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101	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
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Batch B8L2806 - EPA 5030B (Water)

Matrix Spike (B8L2806-MS1)		Source: Y812424-01			Prepared: 12/28/2018 Analyzed: 12/31/2018					
Benzene	63.4	1.00	ug/L	50.0	ND	127	74-130			
Toluene	57.5	1.00	"	50.0	0.170	115	73-131			
Ethylbenzene	63.6	1.00	"	50.0	0.160	127	76-132			
m,p-Xylene	120	2.00	"	100	0.850	119	69-139			
o-Xylene	62.1	1.00	"	50.0	0.190	124	74-131			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.1	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.7	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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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
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Batch B8L2806 - EPA 5030B (Water)

Matrix Spike Dup (B8L2806-MSD1)		Source: Y812424-01			Prepared: 12/28/2018 Analyzed: 12/31/2018					
Benzene	66.0	1.00	ug/L	50.0	ND	132	74-130	4.05	20	QM-07
Toluene	59.2	1.00	"	50.0	0.170	118	73-131	2.86	20	
Ethylbenzene	64.0	1.00	"	50.0	0.160	128	76-132	0.533	20	
m,p-Xylene	120	2.00	"	100	0.850	119	69-139	0.00	20	
o-Xylene	62.3	1.00	"	50.0	0.190	124	74-131	0.434	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		87.1	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.1	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

Brandon Bruns

Project Number: [none]

Project: SRC - Stephens 7-11,12

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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