

Site Assessment Data Summary

Stephens 7-11, 12 Historic Release

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

August 27, 2018

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

Soil Sample ID	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Standard		0.17	85	100	175	500	
BH01@0-2'	9/8/2017	<0.0020	<0.0050	<0.0050	<0.010	<50	<50
BH02@4-5'	9/8/2017	<0.0020	<0.0050	<0.0050	<0.010	<50	<50
BH03@2-4'	9/8/2017	<0.0020	<0.0050	<0.0050	<0.010	<50	<50
BH04@0-2'	9/8/2017	0.010	0.012	<0.0050	<0.010	<50	<50
BH05@4-7'	06/07/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH07@4-6'	06/21/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH08@4-6'	06/21/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH09@4-6'	06/21/18	0.164	<0.050	0.612	8.7	180	277
BH10@6-8'	06/21/18	0.680	<0.498	0.510	<0.498	125	150
BH11@6-7'	06/21/18	0.027	<0.002	0.033	<0.002	8.58	<50
BH12@4-5'	06/21/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH13@0-2'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH14@2-3'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH15@0-4'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH16@0-4'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH17@0-4'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH18@0-4'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH19@1-3'	07/12/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH20@0-2'	08/03/18	<0.002	<0.002	0.002	<0.002	<0.200	<50
BH21@0-3'	08/03/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50
BH22@2-4'	08/03/18	<0.002	<0.002	<0.002	<0.002	<0.200	<50

Notes:

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

mg/kg = Milligrams per kilogram

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

The 2017 soil samples were analyzed for naphthalene, which was not detected above the laboratory reporting limit.

Analysis of naphthalene was discontinued in 2018.

Soil standards referenced from COGCC Table 910-1

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

TABLE 2
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)
COGCC Standard		5	560	700	1,400
BH01	06/07/18	<1.00	<1.00	<1.00	<1.00
BH02	06/07/18	<1.00	<1.00	<1.00	<1.00
BH03	06/07/18	<1.00	<1.00	<1.00	<1.00
BH04	06/07/18	164	<1.00	15.0	45.8
BH05	06/07/18	<1.00	<1.00	<1.00	<1.00
BH06	06/07/18	40.2	<1.00	45.0	85.5
BH07	06/22/18	<1.00	<1.00	<1.00	<1.00
BH08	06/22/18	4.06	<1.00	<1.00	<1.00
BH09	06/22/18	3750	<1.00	95.1	1890
BH10	06/22/18	1370	<1.00	69.7	8.14
BH11	06/22/18	128	<1.00	12.4	<1.00
BH12	06/22/18	81.4	<1.00	50.5	339
BH13	07/17/18	<1.00	<1.00	<1.00	<1.00
BH14	07/17/18	1.77	<1.00	39.7	130
BH15	07/17/18	159	<1.00	31.4	2.65
BH16	07/17/18	<1.00	<1.00	<1.00	<1.00
BH17	07/17/18	<1.00	<1.00	<1.00	<1.00
BH18	07/17/18	134	<1.00	39.5	108
BH19	07/17/18	<1.00	<1.00	<1.00	<1.00
BH20	08/06/18	<4.00	<4.00	116	299
BH21	08/06/18	<1.00	<1.00	<1.00	<1.00
BH22	08/06/18	<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 3
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)	Latitude	Longitude
BH01	06/07/18	4831.08	14.72	10.09	ND	ND	4820.99	40.41969373	-104.8146912
BH02	06/07/18	4830.83	11.61	9.86	ND	ND	4820.97	40.41963332	-104.8146913
BH03	06/07/18	4830.44	11.29	9.64	ND	ND	4820.80	40.4196245	-104.8145692
BH04	06/07/18	4829.80	12.38	9.07	ND	ND	4820.73	40.41967752	-104.8144472
BH05	06/07/18	4831.71	14.19	10.80	ND	ND	4820.91	40.41972752	-104.8145304
BH06	06/07/18	4831.36	18.76	12.92	ND	ND	4818.44	40.4196854	-104.8145268
BH07	06/22/18	4831.58	14.76	10.06	ND	ND	4821.52	40.41972444	-104.8144498
BH08	06/22/18	4828.80	14.94	7.19	ND	ND	4821.61	40.41967957	-104.8143764
BH09	06/22/18	4830.21	13.76	8.78	ND	ND	4821.43	40.4196313	-104.8144379
BH10	06/22/18	4827.84	10.99	6.33	ND	ND	4821.51	40.41960338	-104.8143966
BH11	06/22/18	4828.04	9.92	6.67	ND	ND	4821.37	40.41960151	-104.8144723
BH12	06/22/18	4827.38	10.99	5.60	ND	ND	4821.78	40.41963119	-104.8143373
BH13	07/17/18	4830.58	13.42	6.75	ND	ND	4823.83	40.41969482	-104.8143097
BH14	07/17/18	4827.32	9.92	3.02	ND	ND	4824.30	40.41960504	-104.8142582
BH15	07/17/18	4830.72	13.01	6.84	ND	ND	4823.88	40.41955443	-104.8143284
BH16	07/17/18	4830.50	12.66	7.21	ND	ND	4823.29	40.41954372	-104.8144285
BH17	07/17/18	4830.91	13.47	8.34	ND	ND	4822.57	40.41955044	-104.8145263
BH18	07/17/18	4830.46	12.35	6.18	ND	ND	4824.28	40.41952904	-104.8142811
BH19	07/17/18	4827.52	9.39	2.84	ND	ND	4824.68	40.41959207	-104.8142015
BH20	08/06/18	4827.44	8.93	2.43	ND	ND	4825.01	40.41951071	-104.8141788
BH21	08/06/18	4830.84	13.17	6.09	ND	ND	4824.75	40.41945322	-104.8142646
BH22	08/06/18	4831.83	13.84	6.58	ND	ND	4825.25	40.41947963	-104.8141269

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

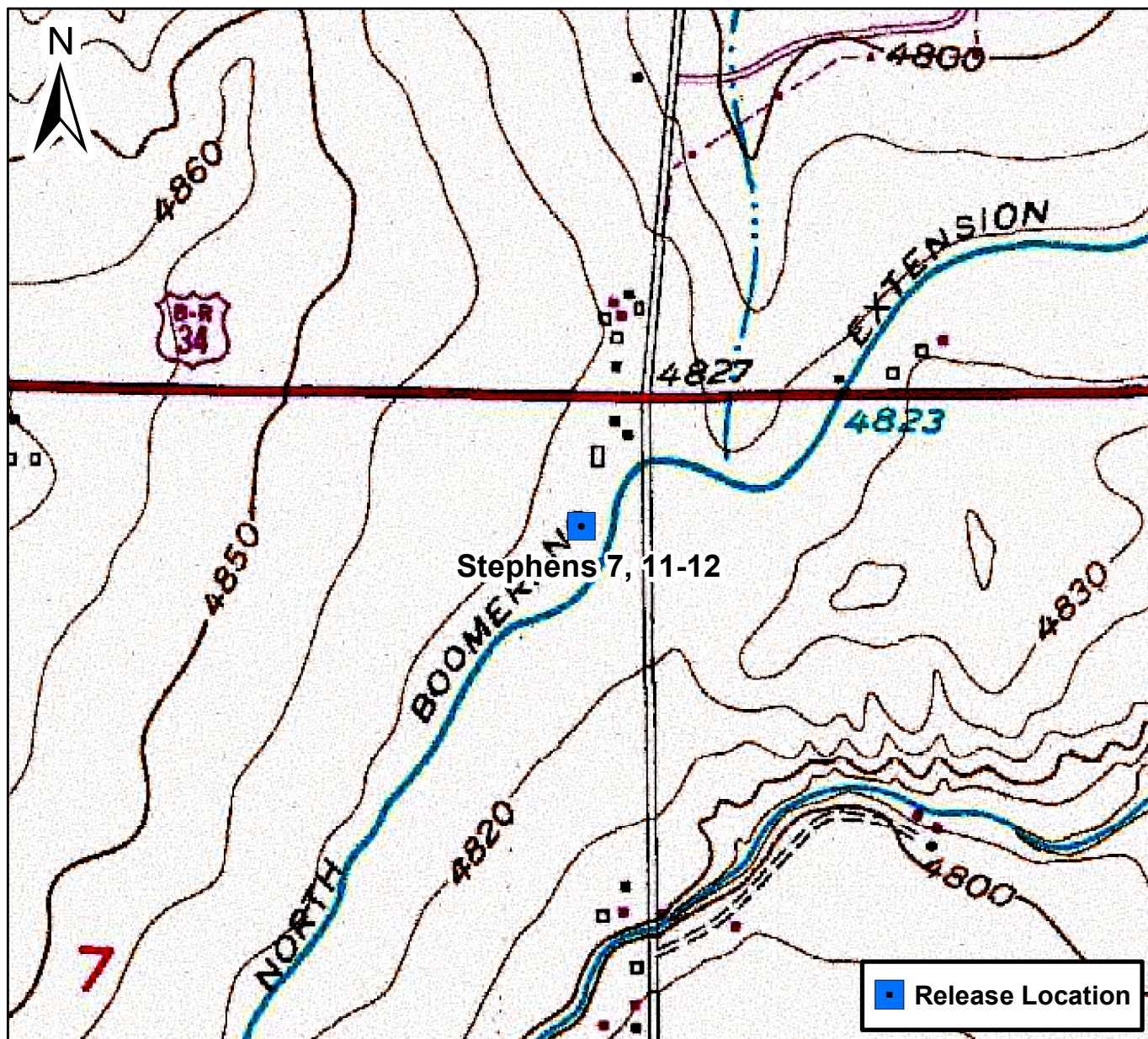
LNAPL = Light non-aqueous phase liquid

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

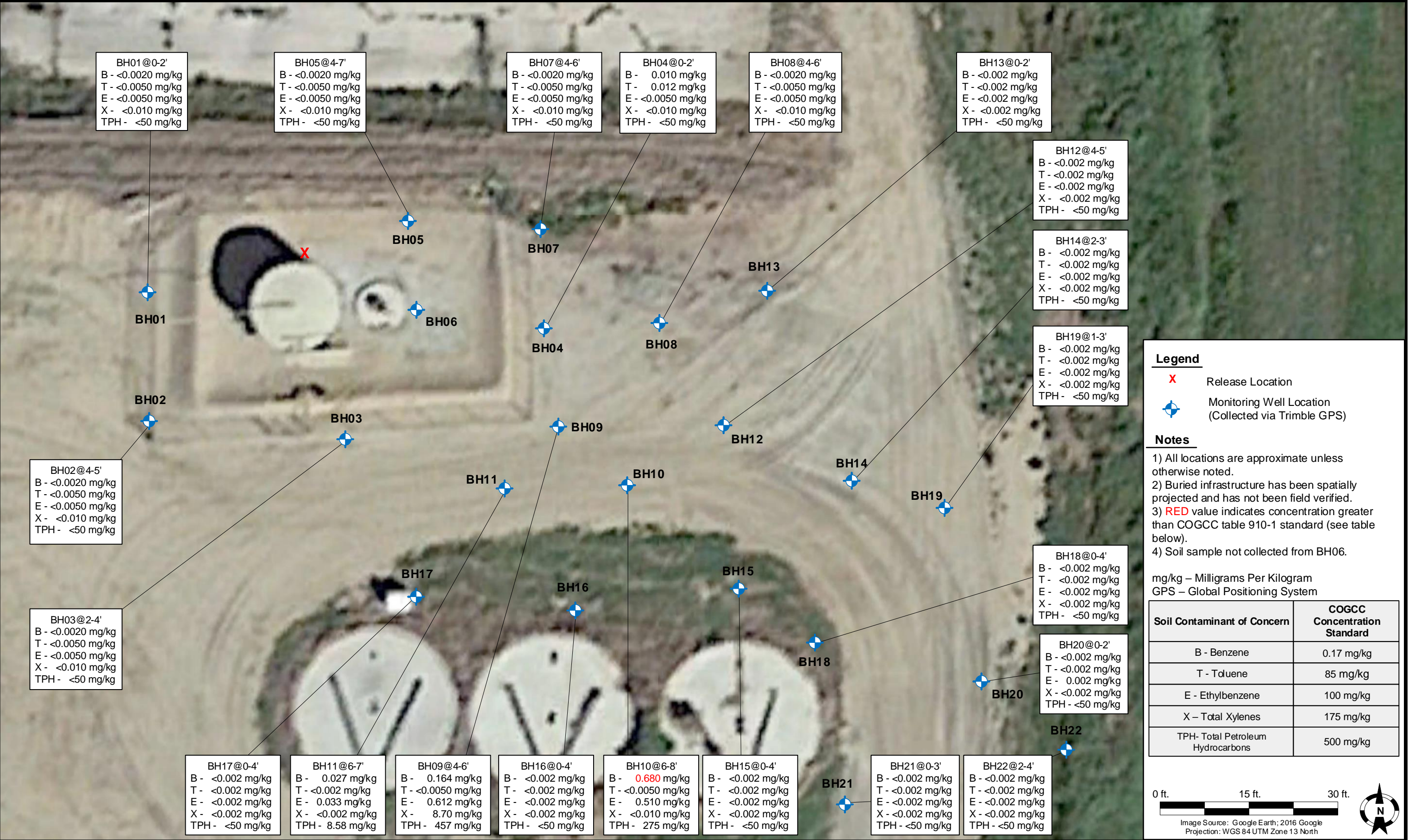


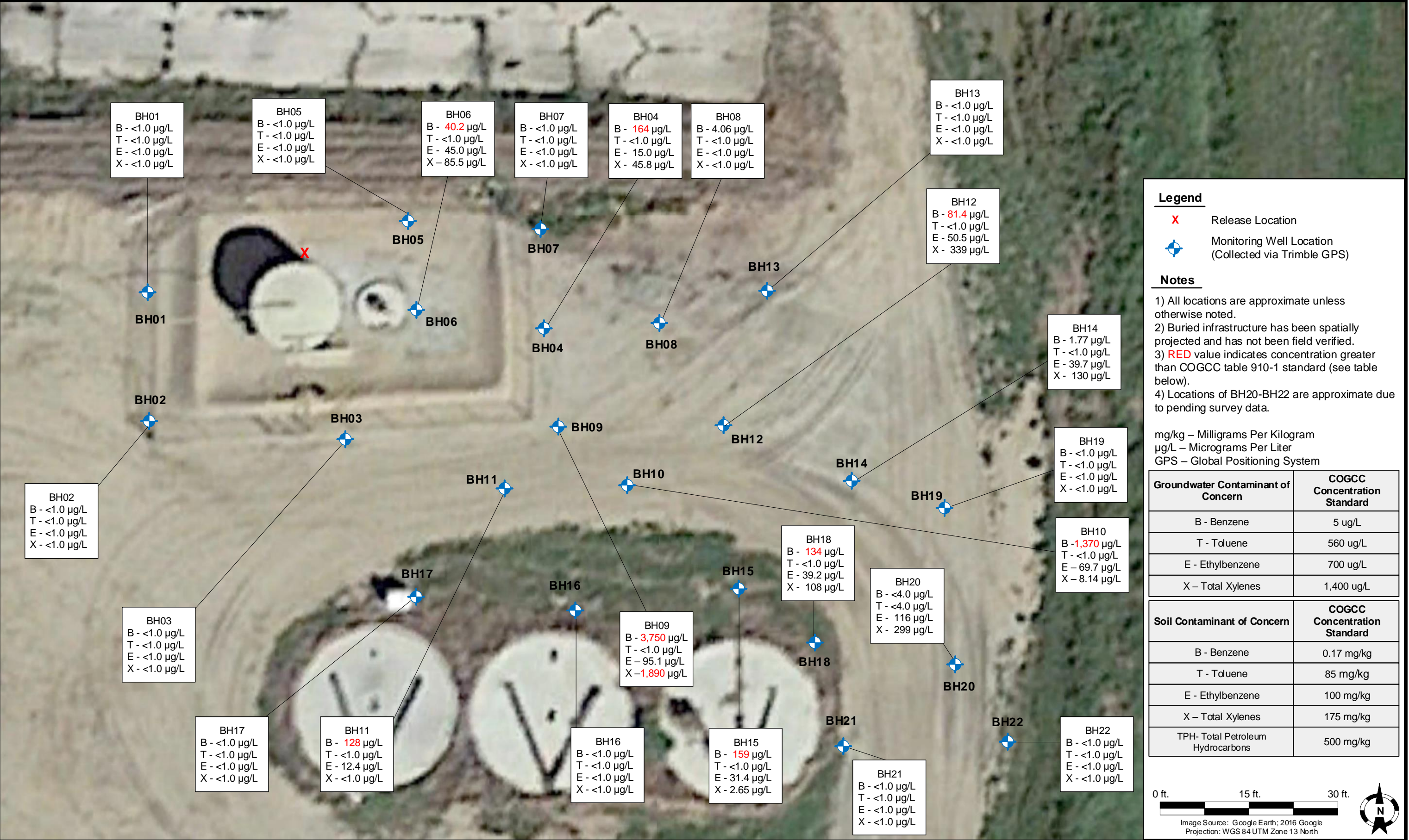
0 750 1,500 Feet

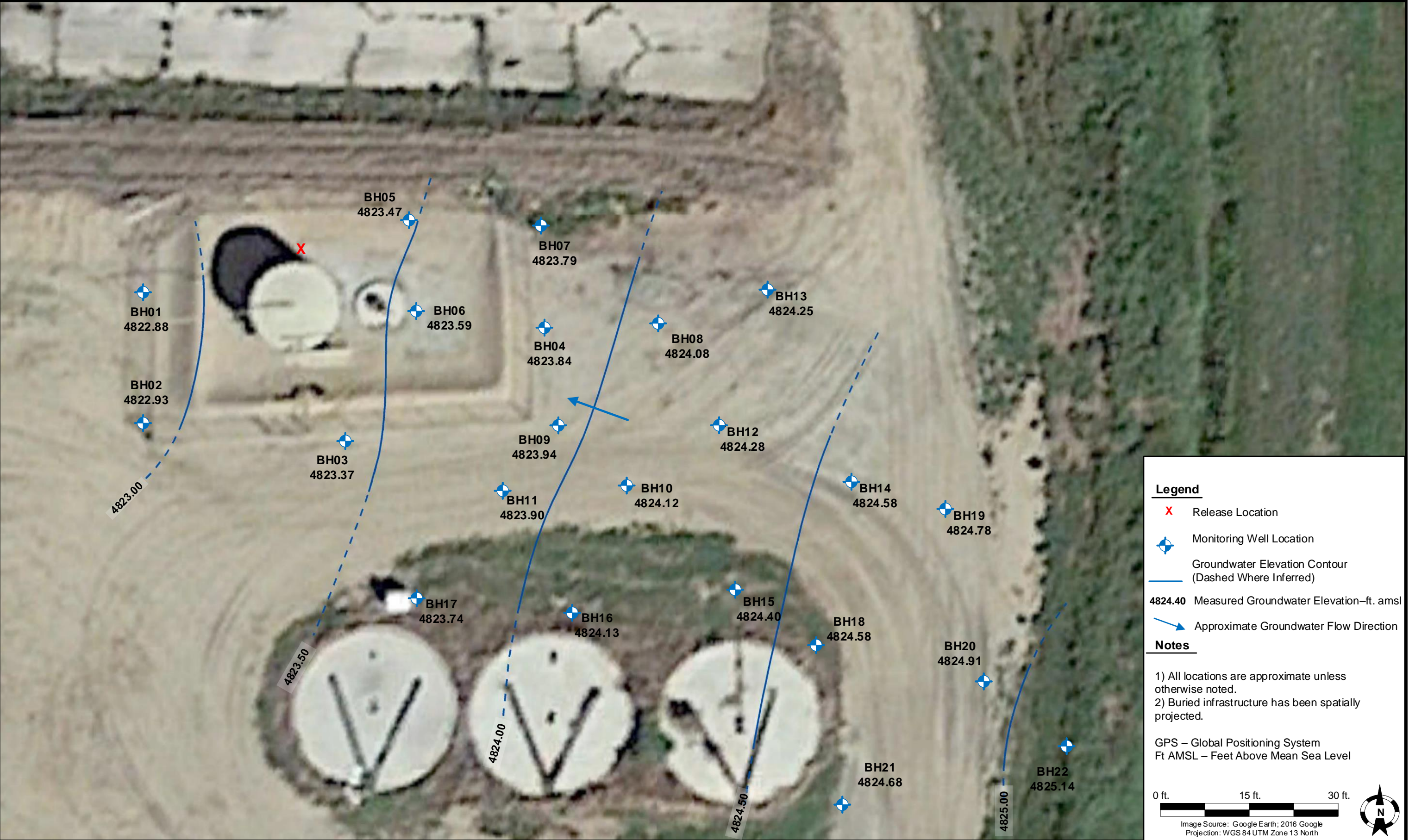
Figure 1


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









DATE:	08/21/2018	 TASMAN GEOSCIENCES	Tasman Geosciences, Inc. 6899 Pecos Street – Unit C Denver, CO 80221	SRC Energy Stephens 7-11, 12 NWNE, Section 7, Township 5 North, Range 66 West Weld County, Colorado	Groundwater Potentiometric Surface Contour Map (08/20/18)	FIGURE 4
DESIGNED BY:	DA					
DRAWN BY:	DA					

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 12, 2017

Brandon Bruns
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221

RE: Noble - Stephens 7-11, 12

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/17 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'Ben Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
Laboratory Manager



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - Stephens 7-11, 12

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/12/17 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@0-2'	1709059-01	Soil	09/08/17 13:45	09/08/17 17:00
BH02@4-5'	1709059-02	Soil	09/08/17 14:30	09/08/17 17:00
BH03@2-4'	1709059-03	Soil	09/08/17 14:52	09/08/17 17:00
BH04@0-2'	1709059-04	Soil	09/08/17 15:15	09/08/17 17:00

Summit Scientific

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1709059

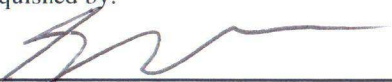
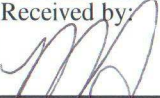
741 Corporate Circle Suite I ♦ Golden, Colorado 80401

303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Noble/Tasman
 Address: -
 City/State/Zip: -
 Phone: 303-487-1228 Fax: -
 Sampler Name: GB

Project Manager: Brandon Bruns, Invoice: Jacob Evans
 E-Mail: Bbruns@tasman-geo.com
 Project Name: Stephens 7-11, 12
 Project Number: -

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:								Special Instructions					
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR										
BH01@ 0-2'	9/8/17	1345	1			X			X					X	X										
BH02@ 4-5'	↓	1430	1			X			X					X	X										
BH03@ 2-4'	↓	1452	1			X			X					X	X										
BH04@ 0-2'	↓	1515	1			X			X					X	X										
Relinquished by: 				Date/Time: <u>9/8/17 1700</u>				Received by: 				Date/Time: <u>9/8/17 1700</u>				Turn Around Time (Check)								Notes: <u>on ice</u>	
Relinquished by:				Date/Time:				Received by:				Date/Time:				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>									
Relinquished by:				Date/Time:				Received in Lab by:				Date/Time:				Sample Integrity: Temperature Upon Receipt: <u>4.5°C</u> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

1709059

Sample Receipt Checklist

S2 Work Order: _____

Client: Noble Tasman Client Project ID: Stephens 7-11, 12Shipped Via: P/U Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)Matrix (check all that apply): Air ☒ Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	4.5				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			✓	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			✓	
Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.Nakita
Custodian Printed Name[Signature]
Signature or Initials of Custodian9/8/17 1745
Date/Time



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - Stephens 7-11, 12

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
09/12/17 16:35

BH01@0-2'
1709059-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/17 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709085	09/11/17	09/12/17	8015M	

Date Sampled: **09/08/17 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/17 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709083	09/11/17	09/12/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/17 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
09/12/17 16:35

BH02@4-5'
1709059-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/17 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709085	09/11/17	09/12/17	8015M	

Date Sampled: **09/08/17 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/17 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709083	09/11/17	09/12/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/17 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
09/12/17 16:35

BH03@2-4'
1709059-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/17 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709085	09/11/17	09/12/17	8015M	

Date Sampled: **09/08/17 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/17 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709083	09/11/17	09/12/17	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/17 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	21-167		"	"	"	"	

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
09/12/17 16:35

BH04@0-2'
1709059-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/17 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1709085	09/11/17	09/12/17	8015M	

Date Sampled: **09/08/17 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/17 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1709083	09/11/17	09/12/17	EPA 8260B	
Benzene	0.010	0.0020	"	"	"	"	"	"	
Toluene	0.012	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/17 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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
Denver CO, 80221

Project: Noble - Stephens 7-11, 12

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/12/17 16:35

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1709085 - EPA 5030 Soil GC

Blank (1709085-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 8.46 " 12.5 67.7 30-150

LCS (1709085-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

C10-C28 (DRO) 546 50 mg/kg 499 109 73-134

Surrogate: o-Terphenyl 14.1 " 12.5 113 30-150

Matrix Spike (1709085-MS1)

Source: 1709059-01

Prepared: 09/11/17 Analyzed: 09/12/17

C10-C28 (DRO) 463 50 mg/kg 499 25.4 87.6 50-148

Surrogate: o-Terphenyl 11.9 " 12.5 95.4 30-150

Matrix Spike Dup (1709085-MSD1)

Source: 1709059-01

Prepared: 09/11/17 Analyzed: 09/12/17

C10-C28 (DRO) 442 50 mg/kg 499 25.4 83.5 50-148 4.56 20

Surrogate: o-Terphenyl 11.8 " 12.5 94.2 30-150

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
09/12/17 16:35

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1709083 - EPA 5030 Soil MS

Blank (1709083-BLK1)

Prepared: 09/11/17 Analyzed: 09/12/17

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.2	23-173			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	21-167			

LCS (1709083-BS1)

Prepared: 09/11/17 Analyzed: 09/12/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0699	0.0020	"	0.100		69.9	58-130			
Toluene	0.0766	0.0050	"	0.100		76.6	61-134			
Ethylbenzene	0.0812	0.0050	"	0.0992		81.8	74-139			
m,p-Xylene	0.160	0.010	"	0.200		80.4	73-137			
o-Xylene	0.0830	0.0050	"	0.0980		84.6	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0373		"	0.0400		93.2	23-173			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

Matrix Spike (1709083-MS1)

Source: 1709059-01

Prepared: 09/11/17 Analyzed: 09/12/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0674	0.0020	"	0.100	ND	67.4	30-131			
Toluene	0.0763	0.0050	"	0.100	ND	76.3	30-134			
Ethylbenzene	0.0774	0.0050	"	0.0992	ND	78.0	22-153			
m,p-Xylene	0.152	0.010	"	0.200	ND	76.2	10-159			
o-Xylene	0.0787	0.0050	"	0.0980	ND	80.3	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	21-167			

Summit Scientific

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
Denver CO, 80221

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

Reported:
09/12/17 16:35

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1709083 - EPA 5030 Soil MS

Matrix Spike Dup (1709083-MSD1)			Source: 1709059-01		Prepared: 09/11/17 Analyzed: 09/12/17					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0741	0.0020	"	0.100	ND	74.1	30-131	9.41	34	
Toluene	0.0816	0.0050	"	0.100	ND	81.6	30-134	6.77	30	
Ethylbenzene	0.0805	0.0050	"	0.0992	ND	81.1	22-153	3.95	24	
m,p-Xylene	0.158	0.010	"	0.200	ND	79.1	10-159	3.66	68	
o-Xylene	0.0813	0.0050	"	0.0980	ND	82.9	31-151	3.23	38	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	21-167			

Summit Scientific

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
Denver CO, 80221

Project: Noble - Stephens 7-11, 12

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/12/17 16:35

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



June 13, 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 07, 2018. This project is associated with Origins project number Y806098-01.

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
BH05@4-7'	Y806098-01	Soil	June 7, 2018 9:54	06/07/2018 17:17
BH01	Y806098-02	Water	June 7, 2018 11:25	06/07/2018 17:17
BH02	Y806098-03	Water	June 7, 2018 11:35	06/07/2018 17:17
BH03	Y806098-04	Water	June 7, 2018 11:45	06/07/2018 17:17
BH04	Y806098-05	Water	June 7, 2018 11:55	06/07/2018 17:17
BH05	Y806098-06	Water	June 7, 2018 12:18	06/07/2018 17:17
BH06	Y806098-07	Water	June 7, 2018 12:28	06/07/2018 17:17

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

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 1 of 2

1806098

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

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

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

Samples Collected By: Max Garcia

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			Analyte/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
BH05@47	6/7/18	09:54	1	X				X		8260B 8215 DKO BTEX	1
BH01		11:25	3					X			2
BH02		11:35									3
BH03		11:45									4
BH04		11:55									5
BH05		12:18									6
BH06		12:28									7
											8
											9
											10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Max Garcia	6/7/18	1717	Brandon Bruns	6/7/18	1717	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
						48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/>

Paula Bassille Mandel

Comment:

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

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

Sample Receipt Checklist

Origins Work Order: Y806098 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: 6/8/2018 Airbill #: N/A
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: _____
(Describe)
Cooler Number/Temperature: 1 / 5.6 °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 6/11/18

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

BH05@4-7'
6/7/2018 9:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8F0805	06/08/2018	06/08/2018	U
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Surrogate: o-Terphenyl	79.8 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8F0804	"	06/08/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	79.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	89.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	

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

BH01
6/7/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	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
6/7/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	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
6/7/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.2 %	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 Brunns
Project Number: [none]
Project: SRC - Stephens 7-11,12

BH04

6/7/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-05 (Water)

BTEX by EPA 8260C

Benzene	164	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	15.0	1.00	"	"	"	"	"	
Xylenes, total	45.8	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	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
6/7/2018 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	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
6/7/2018 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806098-07 (Water)

BTEX by EPA 8260C

Benzene	40.2	1.00	ug/L	1	B8F0802	06/08/2018	06/09/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	45.0	1.00	"	"	"	"	"	
Xylenes, total	85.5	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.2 %	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

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 B8F0802 - EPA 5030B (Water)

Blank (B8F0802-BLK1)

Prepared: 06/08/2018 Analyzed: 06/08/2018

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	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	58		"	62.5		93.0	85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.1	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.

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
Batch B8F0802 - EPA 5030B (Water)										
LCS (B8F0802-BS1)					Prepared: 06/08/2018 Analyzed: 06/08/2018					
Benzene	55.4	1.00	ug/L	50.0		111	73.3-129			
Toluene	49.3	1.00	"	50.0		98.7	76.2-123			
Ethylbenzene	51.1	1.00	"	50.0		102	73.6-130			
m,p-Xylene	95.5	2.00	"	100		95.5	76.1-126			
o-Xylene	50.8	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.1	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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 B8F0802 - EPA 5030B (Water)

Matrix Spike (B8F0802-MS1)		Source: Y806045-01			Prepared: 06/08/2018 Analyzed: 06/09/2018					
Benzene	47.3	1.00	ug/L	50.0	ND	94.6	74-130			
Toluene	47.0	1.00	"	50.0	ND	93.9	73-131			
Ethylbenzene	45.6	1.00	"	50.0	0.170	90.9	76-132			
m,p-Xylene	92.2	2.00	"	100	ND	92.2	69-139			
o-Xylene	46.3	1.00	"	50.0	ND	92.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.2	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		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

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 B8F0802 - EPA 5030B (Water)

Matrix Spike Dup (B8F0802-MSD1)		Source: Y806045-01			Prepared: 06/08/2018 Analyzed: 06/09/2018					
Benzene	47.4	1.00	ug/L	50.0	ND	94.7	74-130	0.190	20	
Toluene	46.5	1.00	"	50.0	ND	93.0	73-131	1.03	20	
Ethylbenzene	44.8	1.00	"	50.0	0.170	89.2	76-132	1.95	20	
m,p-Xylene	90.2	2.00	"	100	ND	90.2	69-139	2.30	20	
o-Xylene	45.6	1.00	"	50.0	ND	91.1	74-131	1.63	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.6	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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
Batch B8F0804 - EPA 5030 (soil)										
Blank (B8F0804-BLK1)					Prepared: 06/08/2018 Analyzed: 06/08/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.3	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0804 - EPA 5030 (soil)										
Blank (B8F0804-BLK2)					Prepared: 06/08/2018 Analyzed: 06/08/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	70-130			

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 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
Batch B8F0804 - EPA 5030 (soil)										
LCS (B8F0804-BS1)					Prepared: 06/08/2018 Analyzed: 06/08/2018					
Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.095	0.002	"	0.100		94.9	74.5-128			
Ethylbenzene	0.092	0.002	"	0.100		92.1	66.4-127			
m,p-Xylene	0.179	0.004	"	0.200		89.4	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	75		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.2	70-130			

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

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 B8F0804 - EPA 5030 (soil)

LCS (B8F0804-BS2)

Prepared: 06/08/2018 Analyzed: 06/08/2018

Benzene	0.094	0.002	mg/kg	0.100		94.2	77.1-124			
Toluene	0.084	0.002	"	0.100		84.4	74.5-128			
Ethylbenzene	0.081	0.002	"	0.100		81.3	66.4-127			
m,p-Xylene	0.158	0.004	"	0.200		79.1	76.6-124			
o-Xylene	0.082	0.002	"	0.100		81.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.0	70-130			

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

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 B8F0804 - EPA 5030 (soil)

Matrix Spike (B8F0804-MS1)		Source: Y806098-01			Prepared: 06/08/2018 Analyzed: 06/08/2018					
Benzene	0.098	0.002	mg/kg	0.100	ND	98.3	71.8-126			
Toluene	0.084	0.002	"	0.100	ND	84.3	65.1-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	83.5	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	81.2	46.5-137			
o-Xylene	0.086	0.002	"	0.100	ND	85.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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 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 B8F0804 - EPA 5030 (soil)

Matrix Spike (B8F0804-MS2)		Source: Y806092-02			Prepared: 06/08/2018 Analyzed: 06/08/2018					
Benzene	0.100	0.002	mg/kg	0.100	ND	99.7	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.2	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	89.8	62.2-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	86.1	46.5-137			
o-Xylene	0.090	0.002	"	0.100	ND	90.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0804 - EPA 5030 (soil)										
Matrix Spike Dup (B8F0804-MSD1)										
					Source: Y806098-01					
					Prepared: 06/08/2018					Analyzed: 06/08/2018
Benzene	0.097	0.002	mg/kg	0.100	ND	96.6	71.8-126	1.70	11.3	
Toluene	0.084	0.002	"	0.100	ND	83.7	65.1-130	0.714	15.4	
Ethylbenzene	0.084	0.002	"	0.100	ND	83.8	62.2-130	0.263	19.6	
m,p-Xylene	0.162	0.004	"	0.200	ND	81.1	46.5-137	0.0739	19.2	
o-Xylene	0.085	0.002	"	0.100	ND	85.1	54.2-134	0.422	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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

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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Extractable Petroleum Hydrocarbons by 8015C - 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 B8F0805 - EPA 3550B

Blank (B8F0805-BLK1)				Prepared: 06/08/2018 Analyzed: 06/08/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.9	59-131			
Blank (B8F0805-BLK2)				Prepared: 06/08/2018 Analyzed: 06/08/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		92.8	59-131			
LCS (B8F0805-BS1)				Prepared: 06/08/2018 Analyzed: 06/08/2018						
Diesel (C10-C28)	833	50.0	mg/kg	1000		83.3	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.2	59-131			
LCS (B8F0805-BS2)				Prepared: 06/08/2018 Analyzed: 06/08/2018						
Diesel (C10-C28)	865	50.0	mg/kg	1000		86.5	64-121			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike (B8F0805-MS1)				Source: Y806098-01		Prepared: 06/08/2018 Analyzed: 06/08/2018				
Diesel (C10-C28)	834	50.0	mg/kg	1000	13.6	82.0	53-125			
Surrogate: o-Terphenyl	44		"	50.0		88.9	59-131			
Matrix Spike (B8F0805-MS2)				Source: Y806092-02		Prepared: 06/08/2018 Analyzed: 06/08/2018				
Diesel (C10-C28)	832	50.0	mg/kg	1000	ND	83.2	53-125			
Surrogate: o-Terphenyl	49		"	50.0		98.0	59-131			

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

Extractable Petroleum Hydrocarbons by 8015C - 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 B8F0805 - EPA 3550B

Matrix Spike Dup (B8F0805-MSD1)		Source: Y806098-01			Prepared: 06/08/2018 Analyzed: 06/08/2018					
Diesel (C10-C28)	805	50.0	mg/kg	1000	13.6	79.1	53-125	3.56	20	
Surrogate: o-Terphenyl	42		"	50.0		83.4	59-131			
Matrix Spike Dup (B8F0805-MSD2)		Source: Y806092-02			Prepared: 06/08/2018 Analyzed: 06/08/2018					
Diesel (C10-C28)	827	50.0	mg/kg	1000	ND	82.7	53-125	0.611	20	
Surrogate: o-Terphenyl	49		"	50.0		98.2	59-131			

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



June 26, 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 21, 2018. This project is associated with Origins project number Y806325-01.

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@4-6'	Y806325-01	Soil	June 21, 2018 10:15	06/21/2018 17:09
BH08@4-6'	Y806325-02	Soil	June 21, 2018 10:40	06/21/2018 17:09
BH09@4-6'	Y806325-03	Soil	June 21, 2018 11:15	06/21/2018 17:09
BH10@6-8'	Y806325-04	Soil	June 21, 2018 11:45	06/21/2018 17:09
BH11@6-7'	Y806325-05	Soil	June 21, 2018 12:30	06/21/2018 17:09
BH12@4-5'	Y806325-06	Soil	June 21, 2018 13:00	06/21/2018 17:09

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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page 2 of 2

ORIGINS
LABORATORY, INC

Y80325

Client: SRC/Tasman Project Manager/Send Report To: Brandon Brun
Address: _____ Email Address: bbuns@tasman-geo.com
Telephone Number: 979-255-4235 Project Name/Number: Stephens 7-11,12
Samples Collected By: ML

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister			Other
BH0704-6'	6/21/18	10 15	1	X					X			X	1
BH0804-6'		10 40	1						X			X	2
BH0904-6'		11 15	1										3
BH1006-8'		11 45	1										4
BH1106-7'		12 30	1										5
BH1204-5'		13 00	1										6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
ML	6/21/18	17:00	BB	6/21/18	17:00	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"/>

Comment:

Data Recruit Nardari

Origins Laboratory, Inc.

Jen 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

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

Sample Receipt Checklist

Origins Work Order: Y806325

Client: Tasman

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

Checklist Completed by: JD

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

Date/time completed: 6/21/18

Airbill #: NA

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

Cooler Number/Temperature: 1 / 1.2 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: TCB

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) _____

Date/Time Reviewed 6-26-18

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

BH07@4-6'

6/21/2018 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018	U
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Surrogate: o-Terphenyl	86.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8F2204	06/22/2018	06/23/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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@4-6'

6/21/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018	U
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Surrogate: o-Terphenyl	81.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8F2204	06/22/2018	06/23/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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

BH09@4-6'

6/21/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	277	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018
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Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	180	5.00	mg/kg	25	B8F2204	06/22/2018	06/23/2018
Benzene	0.164	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	" U
Ethylbenzene	0.612	0.050	"	"	"	"	"
Xylenes, total	8.70	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"
Surrogate: Toluene-d8	88.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

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

BH10@6-8'

6/21/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	150	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018
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Surrogate: o-Terphenyl	89.3 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	125	50.0	mg/kg	250	B8F2204	06/22/2018	06/23/2018
Benzene	0.680	0.498	"	"	"	"	"
Toluene	ND	0.498	"	"	"	"	" U
Ethylbenzene	0.510	0.498	"	"	"	"	"
Xylenes, total	ND	0.498	"	"	"	"	" U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

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@6-7'

6/21/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018	U
Surrogate: o-Terphenyl	83.1 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	8.58	0.200	mg/kg	1	B8F2204	06/22/2018	06/23/2018	
Benzene	0.027	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.033	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	85.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"	

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@4-5'
6/21/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806325-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8F2205	06/22/2018	06/23/2018	U
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Surrogate: o-Terphenyl	77.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8F2204	06/22/2018	06/25/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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
Batch B8F2204 - EPA 5030 (soil)										
Blank (B8F2204-BLK1)					Prepared: 06/22/2018 Analyzed: 06/22/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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
Batch B8F2204 - EPA 5030 (soil)										
Blank (B8F2204-BLK2)					Prepared: 06/22/2018 Analyzed: 06/22/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F2204 - EPA 5030 (soil)										
LCS (B8F2204-BS1)					Prepared: 06/22/2018 Analyzed: 06/22/2018					
Benzene	0.099	0.002	mg/kg	0.100		98.7	77.1-124			
Toluene	0.097	0.002	"	0.100		96.7	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		97.5	66.4-127			
m,p-Xylene	0.200	0.004	"	0.200		100	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 B8F2204 - EPA 5030 (soil)

LCS (B8F2204-BS2)

Prepared: 06/22/2018 Analyzed: 06/22/2018

Benzene	0.103	0.002	mg/kg				77.1-124			
Toluene	0.101	0.002	"				74.5-128			
Ethylbenzene	0.102	0.002	"				66.4-127			
m,p-Xylene	0.208	0.004	"				76.6-124			
o-Xylene	0.114	0.002	"				76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		95.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 B8F2204 - EPA 5030 (soil)

Matrix Spike (B8F2204-MS1)		Source: Y806315-03			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.7	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.0	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	95.7	62.2-130			
m,p-Xylene	0.195	0.004	"	0.200	ND	97.6	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 B8F2204 - EPA 5030 (soil)

Matrix Spike (B8F2204-MS2)		Source: Y806315-04			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Benzene	0.100	0.002	mg/kg		ND		71.8-126			
Toluene	0.097	0.002	"		ND		65.1-130			
Ethylbenzene	0.097	0.002	"		ND		62.2-130			
m,p-Xylene	0.199	0.004	"		ND		46.5-137			
o-Xylene	0.109	0.002	"		ND		54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 B8F2204 - EPA 5030 (soil)

Matrix Spike Dup (B8F2204-MSD1)		Source: Y806315-03			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Benzene	0.097	0.002	mg/kg	0.100	ND	97.0	71.8-126	1.74	11.3	
Toluene	0.095	0.002	"	0.100	ND	95.2	65.1-130	0.231	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	94.5	62.2-130	1.20	19.6	
m,p-Xylene	0.193	0.004	"	0.200	ND	96.6	46.5-137	1.10	19.2	
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134	1.27	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F2204 - EPA 5030 (soil)										
Matrix Spike Dup (B8F2204-MSD2)		Source: Y806315-04			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Benzene	0.102	0.002	mg/kg		ND		71.8-126	1.50	11.3	
Toluene	0.099	0.002	"		ND		65.1-130	1.67	15.4	
Ethylbenzene	0.099	0.002	"		ND		62.2-130	1.84	19.6	
m,p-Xylene	0.203	0.004	"		ND		46.5-137	1.91	19.2	
o-Xylene	0.111	0.002	"		ND		54.2-134	1.80	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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Extractable Petroleum Hydrocarbons by 8015C - 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 B8F2205 - EPA 3580

Blank (B8F2205-BLK1)

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

53	"	50.0	105	59-131
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Blank (B8F2205-BLK2)

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

53	"	50.0	105	59-131
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LCS (B8F2205-BS1)

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	1020	50.0	mg/kg	1000	102	64-121
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Surrogate: o-Terphenyl

54	"	50.0	109	59-131
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LCS (B8F2205-BS2)

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	953	50.0	mg/kg	1000	95.3	64-121
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Surrogate: o-Terphenyl

51	"	50.0	101	59-131
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Matrix Spike (B8F2205-MS1)

Source: Y806315-03

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	1020	50.0	mg/kg	1000	20.1	99.6	53-125
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Surrogate: o-Terphenyl

60	"	50.0	119	59-131
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Matrix Spike (B8F2205-MS2)

Source: Y806315-04

Prepared: 06/22/2018 Analyzed: 06/22/2018

Diesel (C10-C28)	887	50.0	mg/kg	1000	20.1	86.6	53-125
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Surrogate: o-Terphenyl

52	"	50.0	105	59-131
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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

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F2205 - EPA 3580										
Matrix Spike Dup (B8F2205-MSD1)		Source: Y806315-03			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Diesel (C10-C28)	907	50.0	mg/kg	1000	20.1	88.7	53-125	11.4	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B8F2205-MSD2)		Source: Y806315-04			Prepared: 06/22/2018 Analyzed: 06/22/2018					
Diesel (C10-C28)	858	50.0	mg/kg	1000	20.1	83.8	53-125	3.27	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

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

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



July 13, 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. July 12, 2018. This project is associated with Origins project number Y807157-01.

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
BH13@0-2'	Y807157-01	Soil	July 12, 2018 8:40	07/12/2018 16:36
BH14@2-3'	Y807157-02	Soil	July 12, 2018 9:00	07/12/2018 16:36
BH15@0-4'	Y807157-03	Soil	July 12, 2018 9:30	07/12/2018 16:36
BH16@0-4'	Y807157-04	Soil	July 12, 2018 9:54	07/12/2018 16:36
BH17@0-4'	Y807157-05	Soil	July 12, 2018 10:32	07/12/2018 16:36
BH18@0-4'	Y807157-06	Soil	July 12, 2018 11:15	07/12/2018 16:36
BH19@1-3'	Y807157-07	Soil	July 12, 2018 11:40	07/12/2018 16:36

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

Y407157

ORIGINS
LABORATORY, INC

Client: SRC / Tasman
Address: -
Telephone Number: 117-766-9608
Email Address: BBruns@tasman-geo.com

Project Manager: Brandon Bruns
Project Name: Stephens 7-11,12
Project Number: -
Samples Collected By: GB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
BH13 @ 0-2"	7/12/18	0840	1	X					X			X	1
BH14 @ 2-3"		0900	1	X					X			X	2
BH15 @ 0-4"		0930	1	X					X			X	3
BH16 @ 0-4"		0954	1	X					X			X	4
BH17 @ 0-4"		1032	1	X					X			X	5
BH18 @ 0-4"		1115	1	X					X			X	6
BH19 @ 1-3"		1140	1	X					X			X	7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	7/12/18		<i>[Signature]</i>	7/12/18	16:36	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

5.0

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

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

Sample Receipt Checklist

Origins Work Order: Y607157

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: 7/12/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.2 °C °C °C °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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 type="checkbox"/>	<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 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) JG

Date/Time Reviewed 7/13/18

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

BH13@0-2'
7/12/2018 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
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Surrogate: o-Terphenyl	80.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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@2-3'
7/12/2018 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	81.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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@0-4'
7/12/2018 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
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Surrogate: o-Terphenyl	83.1 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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@0-4'
7/12/2018 9:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	77.0 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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@0-4'

7/12/2018 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	79.8 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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

BH18@0-4'

7/12/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	80.9 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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

BH19@1-3'

7/12/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807157-07 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8G1202	07/12/2018	07/13/2018	U
------------------	----	------	-------	---	---------	------------	------------	---

Surrogate: o-Terphenyl	80.1 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8G1201	"	07/13/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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 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
Batch B8G1201 - EPA 5030 (soil)										
Blank (B8G1201-BLK1)					Prepared: 07/12/2018 Analyzed: 07/12/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G1201 - EPA 5030 (soil)										
Blank (B8G1201-BLK2)					Prepared: 07/12/2018 Analyzed: 07/12/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G1201 - EPA 5030 (soil)										
LCS (B8G1201-BS1)					Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.116	0.002	"	0.100		116	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 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
Batch B8G1201 - EPA 5030 (soil)										
LCS (B8G1201-BS2)					Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.090	0.002	mg/kg	0.100		89.6	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		98.7	66.4-127			
m,p-Xylene	0.173	0.004	"	0.200		86.6	76.6-124			
o-Xylene	0.094	0.002	"	0.100		94.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 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 B8G1201 - EPA 5030 (soil)

Matrix Spike (B8G1201-MS1)		Source: Y807140-02			Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.086	0.002	mg/kg	0.100	ND	85.9	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.4	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	92.8	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	81.2	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	88.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

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 B8G1201 - EPA 5030 (soil)

Matrix Spike (B8G1201-MS2)		Source: Y807144-03			Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	96.0	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.179	0.004	"	0.200	ND	89.6	46.5-137			
o-Xylene	0.099	0.002	"	0.100	ND	99.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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

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 B8G1201 - EPA 5030 (soil)

Matrix Spike Dup (B8G1201-MSD1)		Source: Y807140-02			Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.092	0.002	mg/kg	0.100	ND	92.2	71.8-126	7.07	11.3	
Toluene	0.093	0.002	"	0.100	ND	93.4	65.1-130	7.81	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	7.77	19.6	
m,p-Xylene	0.176	0.004	"	0.200	ND	87.8	46.5-137	7.89	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	97.2	54.2-134	8.92	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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

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 B8G1201 - EPA 5030 (soil)

Matrix Spike Dup (B8G1201-MSD2)		Source: Y807144-03			Prepared: 07/12/2018 Analyzed: 07/12/2018					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	0.829	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.0	65.1-130	2.11	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	98.6	62.2-130	2.68	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	86.8	46.5-137	3.15	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	97.2	54.2-134	1.79	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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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Extractable Petroleum Hydrocarbons by 8015C - 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 B8G1202 - EPA 3580

Blank (B8G1202-BLK1)				Prepared: 07/12/2018 Analyzed: 07/12/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		81.9	59-131			
Blank (B8G1202-BLK2)				Prepared: 07/12/2018 Analyzed: 07/12/2018						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.1	59-131			
LCS (B8G1202-BS1)				Prepared: 07/12/2018 Analyzed: 07/12/2018						
Diesel (C10-C28)	921	50.0	mg/kg	1000		92.1	64-121			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
LCS (B8G1202-BS2)				Prepared: 07/12/2018 Analyzed: 07/12/2018						
Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	64-121			
Surrogate: o-Terphenyl	48		"	50.0		96.6	59-131			
Matrix Spike (B8G1202-MS1)				Source: Y807140-02		Prepared: 07/12/2018 Analyzed: 07/12/2018				
Diesel (C10-C28)	876	50.0	mg/kg	1000	24.5	85.2	53-125			
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			
Matrix Spike (B8G1202-MS2)				Source: Y807152-01		Prepared: 07/12/2018 Analyzed: 07/12/2018				
Diesel (C10-C28)	857	50.0	mg/kg	1000	ND	85.7	53-125			
Surrogate: o-Terphenyl	49		"	50.0		97.2	59-131			

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

Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G1202 - EPA 3580										
Matrix Spike Dup (B8G1202-MSD1)			Source: Y807140-02		Prepared: 07/12/2018 Analyzed: 07/12/2018					
Diesel (C10-C28)	887	50.0	mg/kg	1000	24.5	86.2	53-125	1.22	20	
Surrogate: o-Terphenyl	48		"	50.0		96.5	59-131			
Matrix Spike Dup (B8G1202-MSD2)			Source: Y807152-01		Prepared: 07/12/2018 Analyzed: 07/12/2018					
Diesel (C10-C28)	855	50.0	mg/kg	1000	ND	85.5	53-125	0.203	20	
Surrogate: o-Terphenyl	49		"	50.0		98.8	59-131			

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

August 06, 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. August 03, 2018. This project is associated with Origins project number Y808049-01.

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
BH20@0-2'	Y808049-01	Soil	August 3, 2018 8:54	08/03/2018 16:20
BH21@0-3'	Y808049-02	Soil	August 3, 2018 9:18	08/03/2018 16:20
BH22@2-4'	Y808049-03	Soil	August 3, 2018 9:55	08/03/2018 16:20

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.

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

www.originslaboratory.com

Y408049

ORIGINS
LABORATORY, INC

Project Manager: Brandon Bruns
Project Name: Stephens 7-11,12
Project Number: -
Samples Collected By: GB

Client: SRC / Tasman
Address:
Telephone Number: 417-766-4608
Email Address: bbruns@tasman-geo.com

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 Canister #		
BH20@0-2'	8/3/18	0854	1	X				X			B260 B GBTEX	1
BH21@0-3'	↓	0918	1	X				X			X	2
BH22@2-4'	↓	0955	1	X				X			X	3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
	8/3/18	1620		8/3/18	1620	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

3.6

Origins Laboratory, Inc.

Jen 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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y808049

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: 8/3/2018

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 3.6 °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"/>	<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)

Date/Time Reviewed

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

BH20@0-2'

8/3/2018 8:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808049-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H0303	JMH	08/03/2018	08/03/2018	U
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Surrogate: o-Terphenyl	88.5 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H0302	ZZZ	08/03/2018	08/03/2018	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	0.002	0.002	"	"	"	ZZZ	"	"	
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"		
Surrogate: Toluene-d8	101 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"		

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@0-3'

8/3/2018 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808049-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H0303	JMH	08/03/2018	08/03/2018	U
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Surrogate: o-Terphenyl	72.2 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H0302	ZZZ	08/03/2018	08/03/2018	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"		
Surrogate: Toluene-d8	101 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"		

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@2-4'

8/3/2018 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808049-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8H0303	JMH	08/03/2018	08/03/2018	U
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Surrogate: o-Terphenyl	78.1 %	59-131			"	"	"		
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8H0302	ZZZ	08/03/2018	08/03/2018	U
Benzene	ND	0.002	"	"	"	ZZZ	"	"	U
Toluene	ND	0.002	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"		
Surrogate: Toluene-d8	102 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"		

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0302 - EPA 5030 (soil)										
Blank (B8H0302-BLK1)					Prepared: 08/03/2018 Analyzed: 08/03/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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
Batch B8H0302 - EPA 5030 (soil)										
LCS (B8H0302-BS1)					Prepared: 08/03/2018 Analyzed: 08/03/2018					
Benzene	0.095	0.002	mg/kg	0.100		95.0	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		106	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		88.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 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 B8H0302 - EPA 5030 (soil)

Matrix Spike (B8H0302-MS1)		Source: Y808034-01			Prepared: 08/03/2018 Analyzed: 08/03/2018					
Benzene	0.095	0.002	mg/kg	0.100	ND	94.6	71.8-126			
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130			
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130			
m,p-Xylene	0.211	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8H0302 - EPA 5030 (soil)										
Matrix Spike Dup (B8H0302-MSD1)					Source: Y808034-01					Prepared: 08/03/2018 Analyzed: 08/03/2018
Benzene	0.090	0.002	mg/kg	0.100	ND	90.1	71.8-126	4.94	11.3	
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130	9.40	15.4	
Ethylbenzene	0.094	0.002	"	0.100	ND	94.1	62.2-130	11.9	19.6	
m,p-Xylene	0.188	0.004	"	0.200	ND	94.2	46.5-137	11.3	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.0	54.2-134	11.5	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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Extractable Petroleum Hydrocarbons by 8015C - 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 B8H0303 - EPA 3580

Blank (B8H0303-BLK1)

Prepared: 08/03/2018 Analyzed: 08/03/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.4	59-131			

LCS (B8H0303-BS1)

Prepared: 08/03/2018 Analyzed: 08/03/2018

Diesel (C10-C28)	968	50.0	mg/kg	1000		96.8	64-121			
Surrogate: o-Terphenyl	49		"	50.0		97.9	59-131			

Matrix Spike (B8H0303-MS1)

Source: Y808034-01

Prepared: 08/03/2018 Analyzed: 08/03/2018

Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	53-125			
Surrogate: o-Terphenyl	47		"	50.0		94.1	59-131			

Matrix Spike Dup (B8H0303-MSD1)

Source: Y808034-01

Prepared: 08/03/2018 Analyzed: 08/03/2018

Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	53-125	5.60	20	
Surrogate: o-Terphenyl	44		"	50.0		87.2	59-131			

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



August 08, 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. August 06, 2018. This project is associated with Origins project number Y808073-01.

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
BH20	Y808073-01	Water	August 6, 2018 10:40	08/06/2018 17:12
BH21	Y808073-02	Water	August 6, 2018 10:50	08/06/2018 17:12
BH22	Y808073-03	Water	August 6, 2018 11:00	08/06/2018 17:12

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

ORIGINS LABORATORY, INC

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

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

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

Samples Collected By: MB

www.originslaboratory.com

page 1 of 1

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			Analysts/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
BH20	8/6/18	10:40	3	X			X			BTEX	1
BH21	8/6/18	10:50	1	X							2
BH22	8/6/18	11:00	1	X							3
											4
											5
											6
											7
											8
											9
											10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>MB</u>	8/6/18		<u>MB</u>	8/6/18	17:12	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"/>

Comment:

1/10

Printed: 8/6/18 11:11 AM

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y4808073

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: 8 / 7 / 2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.8 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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) JG

Date/Time Reviewed 8/8/18

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

BH20

8/6/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808073-01 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H0705	KDK	08/07/2018	08/08/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	116	4.00	"	"	"	KDK	"	"	
Xylenes, total	299	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.7 %	84-121	"	"	"
Surrogate: Toluene-d8	107 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	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

BH21

8/6/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808073-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0705	KDK	08/07/2018	08/08/2018	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	94.8 %	84-121	"	"	"
Surrogate: Toluene-d8	109 %	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

BH22

8/6/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808073-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0705	KDK	08/07/2018	08/08/2018	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	97.8 %	84-121	"	"	"
Surrogate: Toluene-d8	111 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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 B8H0705 - EPA 5030B (Water)

Blank (B8H0705-BLK1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

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	94.4	84-121				
Surrogate: Toluene-d8	66		"	62.5	105	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 B8H0705 - EPA 5030B (Water)

LCS (B8H0705-BS1)

Prepared: 08/07/2018 Analyzed: 08/07/2018

Benzene	52.0	1.00	ug/L	50.0	104	73.3-129
Toluene	57.2	1.00	"	50.0	114	76.2-123
Ethylbenzene	55.6	1.00	"	50.0	111	73.6-130
m,p-Xylene	110	2.00	"	100	110	76.1-126
o-Xylene	52.9	1.00	"	50.0	106	76.6-124
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5	89.6	84-121
Surrogate: Toluene-d8	72		"	62.5	116	85-115
Surrogate: 4-Bromofluorobenzene	70		"	62.5	112	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 B8H0705 - EPA 5030B (Water)

Matrix Spike (B8H0705-MS1)		Source: Y808071-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	55.2	1.00	ug/L	50.0	0.120	110	74-130			
Toluene	51.1	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	55.1	1.00	"	50.0	ND	110	76-132			
m,p-Xylene	112	2.00	"	100	0.210	111	69-139			
o-Xylene	53.3	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B8H0705 - EPA 5030B (Water)

Matrix Spike Dup (B8H0705-MSD1)		Source: Y808071-01			Prepared: 08/07/2018 Analyzed: 08/07/2018					
Benzene	52.8	1.00	ug/L	50.0	0.120	105	74-130	4.50	20	
Toluene	49.5	1.00	"	50.0	ND	99.0	73-131	3.16	20	
Ethylbenzene	52.5	1.00	"	50.0	ND	105	76-132	4.80	20	
m,p-Xylene	104	2.00	"	100	0.210	103	69-139	7.43	20	
o-Xylene	51.8	1.00	"	50.0	ND	104	74-131	2.81	20	
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President