

FREMONT ENVIRONMENTAL INC.

January 20, 2018

Mr. Phil Wright
Homestead Oil Inc.
16880 Wild Plum Circle
Morrison, CO 80465

Subject: **Ground Water Data and Closure Submittal**
 Stephens #1
 API # 05-123-11552
 SENW Sec 15, T4N, R66W
 Weld County, Colorado
 Fremont Project No. C014-027
 Facility #326987, Remediation #8307

Dear Mr. Wright:

Enclosed please find a copy of the above referenced Ground Water Data and Closure Submittal for the Stephens #1 site in Weld County, Colorado. The enclosed data describes the ground water quality at the site during the recent quarterly sampling and monitoring event.

Since four quarters of COGCC-compliant ground water concentrations have been observed at this site, Homestead Oil Inc. should request a No Further Action (NFA) determination be provided by COGCC for this release. Upon receipt of the NFA, the monitoring wells will be abandoned as required by the State Engineer's Office.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA
HOMESTEAD OIL INC.
STEPHENS #1, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C014-027

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	08/20/14	2616	3751	4182	96434	99.22	17.94	81.28	NP
	01/29/15	1728	114	455	8314		20.03	79.19	NP
	04/07/15	30	2.2	<1.0	8800		21.01	78.21	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		18.22	81.00	NP
	10/08/15	75	90	260	4700		NM	NM	NP
	12/07/15	<1.0	<1.0	<1.0	<1.0		NM	NM	NP
	01/20/16	42	6.9	120	1500		20.07	79.15	NP
	04/11/16	40	9.2	81	1200		NM	NM	NP
	08/01/16	<1.0	<1.0	<1.0	1.1		18.28	80.94	NP
	11/30/16	40	130	240	4100		17.76	81.46	NP
	01/19/17	28	35	30	3000		20.48	NM	NP
	04/30/17	<1.0	<1.0	<1.0	<1.0		17.05	82.17	NP
	07/26/17	<1.0	<1.0	<1.0	<1.0		17.01	82.21	NP
	10/23/17	<1.0	<1.0	<1.0	<1.0		15.75	83.47	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		18.91	80.31	NP
MW-2	08/20/14	<1.0	<1.0	<1.0	<1.0	99.43	18.11	81.32	NP
	01/29/15	<1.0	<1.0	<1.0	<1.0		20.27	79.16	NP
	04/07/15	<1.0	<1.0	<1.0	11		21.52	77.91	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		18.89	80.54	NP
	10/08/15	<1.0	<1.0	<1.0	<1.0		17.09	82.34	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		20.32	79.11	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		18.44	80.99	NP
	04/30/17	NA	NA	NA	NA		17.73	81.70	NP
	07/26/17	NA	NA	NA	NA		NM	NM	NM
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.01	83.42	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.15	80.28	NP
MW-3	08/20/14	8.1	<1.0	<1.0	<1.0	99.81	18.39	81.42	NP
	01/29/15	<1.0	<1.0	<1.0	<1.0		20.56	79.25	NP
	04/07/15	<1.0	<1.0	<1.0	<1.0		21.82	77.99	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		19.16	80.65	NP

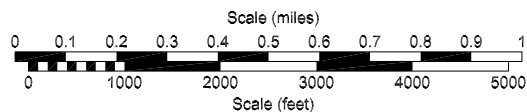
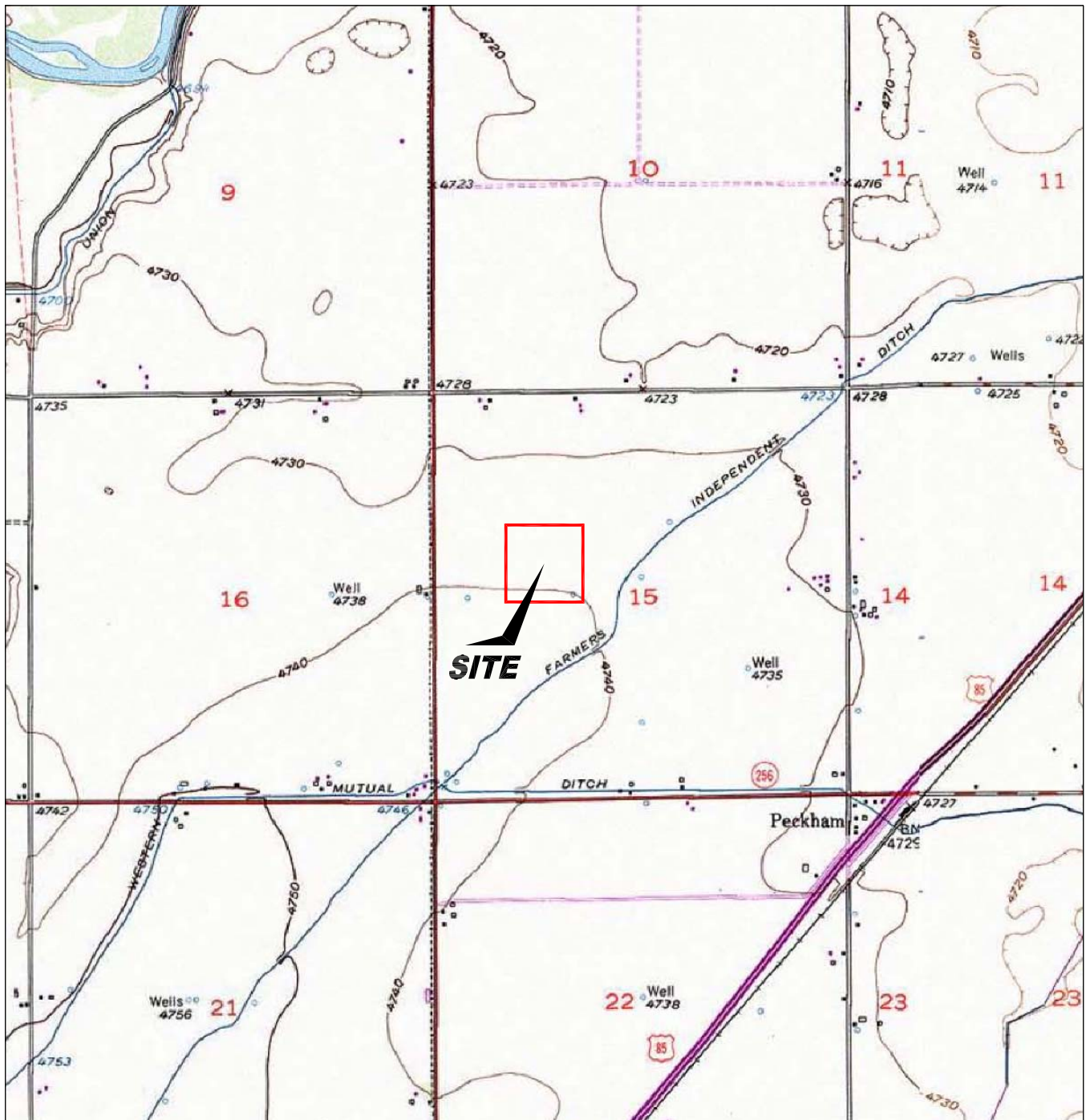
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-3	10/08/15	<1.0	<1.0	<1.0	<1.0		17.34	82.47	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		20.60	79.21	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		18.71	81.10	NP
	04/30/17	NA	NA	NA	NA		18.01	81.80	NP
	07/26/17	NA	NA	NA	NA		NM	NM	NM
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.29	83.52	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.45	80.36	NP
MW-4	08/20/14	<1.0	<1.0	<1.0	<1.0	99.89	18.63	81.26	NP
	01/29/15	<1.0	<1.0	<1.0	<1.0		20.72	79.17	NP
	04/07/15	<1.0	<1.0	<1.0	<1.0		21.95	77.94	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		18.99	80.90	NP
	10/08/15	<1.0	<1.0	<1.0	<1.0		17.53	82.36	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		20.75	79.14	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		18.54	81.35	NP
	04/30/17	NA	NA	NA	NA		17.82	82.07	NP
	07/26/17	NA	NA	NA	NA		NM	NM	NM
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.49	83.40	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.62	80.27	NP
MW-5	08/20/14	1755	3134	454	10854	99.68	18.55	81.13	NP
	01/29/15	727	2206	298	2476		20.64	79.04	NP
	04/07/15	31	<1.0	6.3	560		21.92	77.76	NP
	07/07/15	<1.0	<1.0	<1.0	4.4		19.29	80.39	NP
	08/18/15	3.2	<1.0	57	170		NM	NM	NP
	10/08/15	4.8	<1.0	69	24		17.46	82.22	NP
	01/20/16	4.9	5.4	160	14		20.67	79.01	NP
	04/11/16	<1.0	<1.0	<1.0	<1.0		NM	NM	NP
	08/01/16	<1.0	<1.0	<1.0	<1.0		18.93	80.75	NP
	11/30/16	7.4	<1.0	240	180		18.84	80.84	NP
	01/19/17	60	<1.0	200	750		21.56	NM	NP
	04/30/17	<1.0	<1.0	<1.0	<1.0		18.14	81.54	NP
	07/26/17	<1.0	<1.0	<1.0	<1.0		18.10	81.58	NP
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.37	83.31	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.50	80.18	NP
MW-6	08/20/14	<1.0	<1.0	<1.0	<1.0	99.51	18.3	81.21	NP
	01/29/15	<1.0	<1.0	<1.0	<1.0		20.43	79.08	NP
	04/07/15	<1.0	<1.0	<1.0	<1.0		21.69	77.82	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-6	07/07/15	<1.0	<1.0	<1.0	<1.0		19.07	80.44	NP
	10/08/15	<1.0	<1.0	<1.0	<1.0		17.26	82.25	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		20.48	79.03	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		18.63	80.88	NP
	04/30/17	NA	NA	NA	NA		17.93	81.58	NP
	07/26/17	NA	NA	NA	NA		NM	NM	NM
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.18	83.33	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.32	80.19	NP
MW-7	08/20/14	<1.0	<1.0	<1.0	<1.0	100.00	19.00	81.00	NP
	01/29/15	1.1	<1.0	<1.0	3.1		21.07	78.93	NP
	04/07/15	<1.0	<1.0	<1.0	<1.0		21.37	78.63	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		19.73	80.27	NP
	10/08/15	<1.0	<1.0	<1.0	<1.0		17.91	82.09	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		21.12	78.88	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		19.27	80.73	NP
	04/30/17	NA	NA	NA	NA		18.56	81.44	NP
	07/26/17	NA	NA	NA	NA		NM	NM	NM
	10/23/17	<1.0	<1.0	<1.0	<1.0		16.84	83.16	NP
	01/12/18	<1.0	<1.0	<1.0	<1.0		19.96	80.04	NP
MW-8	08/20/14	<1.0	<1.0	<1.0	<1.0	99.29	18.33	80.96	NP
	01/29/15	1.0	<1.0	<1.0	<1.0		20.37	78.92	NP
	04/07/15	<1.0	<1.0	<1.0	<1.0		21.63	77.66	NP
	07/07/15	<1.0	<1.0	<1.0	<1.0		19.05	80.24	NP
	10/08/15	<1.0	<1.0	<1.0	<1.0		17.22	82.07	NP
	01/20/16	<1.0	<1.0	<1.0	<1.0		20.42	78.87	NP
	11/30/16	<1.0	<1.0	<1.0	<1.0		18.60	80.69	NP
	04/30/17	NA	NA	NA	NA		17.91	81.38	NP
	07/26/17	Destroyed	Destroyed	Destroyed	Destroyed		Destroyed	Destroyed	Destroyed
Table 910-1 Limits		5	560	700	1,400				

NM - Not Measured

Bold face values exceed the COGCC limits

NP - No Free Product



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Homestead Oil - Stephens 1
SW NW Section 15, T4N, R66W
Weld County, Colorado

Project No.
C014-027

Prepared by

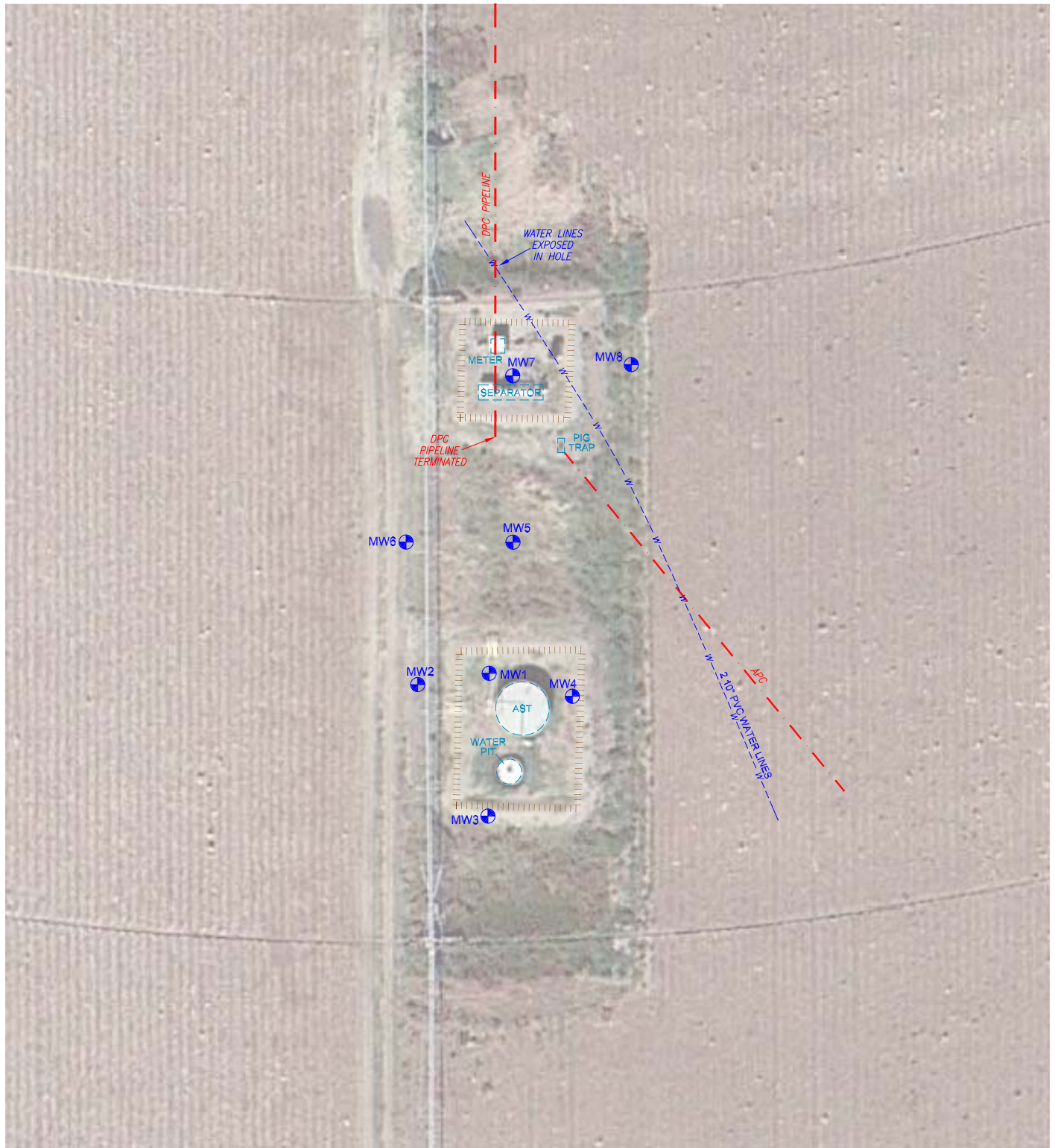
Drawn by
JMA

Date
8/22/14

Reviewed by

Filename
14027T





LEGEND

	MONITORING WELL
	CONTAINMENT
	FORMER FACILITY
	PIPELINE
	WATER LINE (buried)

Figure 2
SITE MAP

Homestead Oil - Stephens 1
SW NW Section 15, T4N, R66W
Weld County, Colorado

Project No. C014-027	Prepared by JMA	Drawn by JMA
Date 8/27/14	Reviewed by	Filename 14027Q





LEGEND

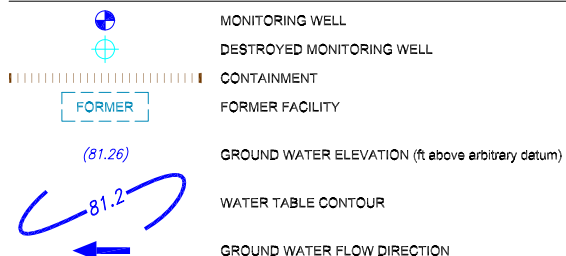


Figure 3
INFERRED GROUNDWATER CONTOUR
JANUARY 12, 2018

Homestead Oil - Stephens 1
 SW NW Section 15, T4N, R66W
 Weld County, Colorado

Project No.
C014-027

Prepared by

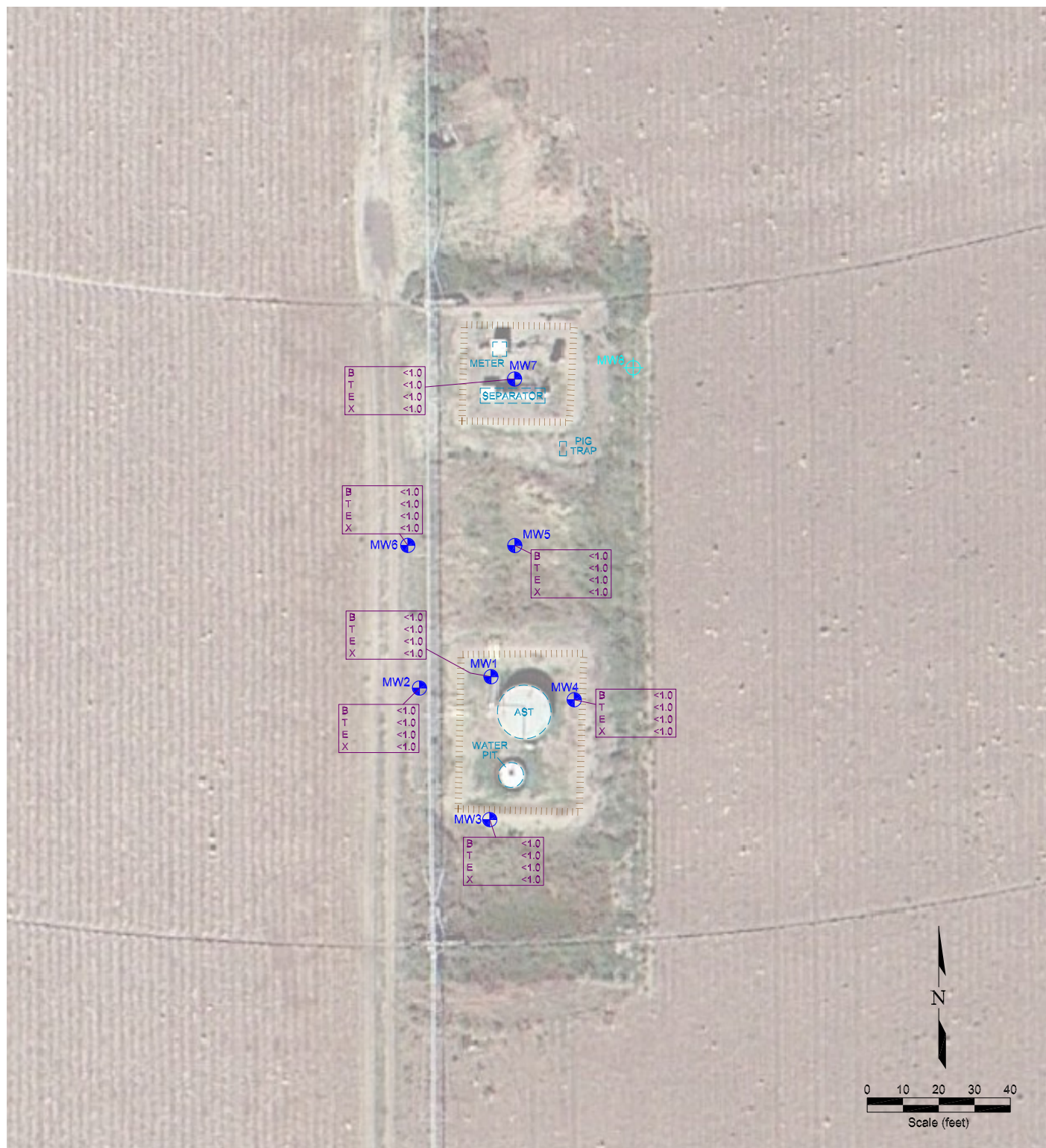
Drawn by
JMA

Date
1/18/18

Reviewed by

Filename
14027Q





LEGEND

	MONITORING WELL								
	DESTROYED MONITORING WELL								
	CONTAINMENT								
	FORMER FACILITY								
<table border="1"> <tr><td>B</td><td><1.0</td></tr> <tr><td>T</td><td><1.0</td></tr> <tr><td>E</td><td><1.0</td></tr> <tr><td>X</td><td><1.0</td></tr> </table>	B	<1.0	T	<1.0	E	<1.0	X	<1.0	BENZENE (ug/L) TOLUENE (ug/L) ETHYLBENZENE (ug/L) TOTAL XYLENES (ug/L)
B	<1.0								
T	<1.0								
E	<1.0								
X	<1.0								
NS	NOT SAMPLED								

Figure 4
GROUND WATER CHEMISTRY MAP
JANUARY 12, 2018

Homestead Oil - Stephens 1
SW NW Section 15, T4N, R66W
Weld County, Colorado

Project No.
C014-027

Prepared by

Drawn by
JMA

Date
1/18/18

Reviewed by

Filename
14027Q



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 17, 2018

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Homestead Oil Stephens 1

Enclosed are the results of analyses for samples received by Summit Scientific on 01/12/18 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1
Project Number: C014-027
Project Manager: Paul Henehan

Reported:
01/17/18 08:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1801144-01	Water	01/12/18 00:00	01/12/18 16:15
MW-2	1801144-02	Water	01/12/18 00:00	01/12/18 16:15
MW-3	1801144-03	Water	01/12/18 00:00	01/12/18 16:15
MW-4	1801144-04	Water	01/12/18 00:00	01/12/18 16:15
MW-5	1801144-05	Water	01/12/18 00:00	01/12/18 16:15
MW-6	1801144-06	Water	01/12/18 00:00	01/12/18 16:15
MW-7	1801144-07	Water	01/12/18 00:00	01/12/18 16:15

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.

Summit Scientific

1801144

S₂

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401

303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

BILL TO:

Address: P.O. Box 1289

E-Mail: paulh@fremontenv.com

City/State/Zip: PO Box 1829 Wellington, CO 80549

Phone: 303-956-8714

Fax:

Project Name: HOMESTEAD OIL - STEPHEN'S #1

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Napthalene	SAR	EC	ph		
1	MW-1	1/12/18		2			✓		✓					✓						
2	MW-2																			
3	MW-3																			
4	MW-4																			
5	MW-5																			
6	MW-6																			
7	MW-7																			
8																				
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ <u>Standard</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>18.3°C</u> Intact: <u>(Yes)</u> No _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

1801144

Sample Receipt Checklist

S2 Work Order: _____

Client: Fremont Env. Client Project ID: Homestead Oil - Stephens #1Shipped Via: Hand
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☒ Water ☐ Other: _____
(Describe)

Cooler ID					
Temp (°C)	18.3				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?		✓		
NOTE: If samples are delivered the same day of sampling, this requirement is waived 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.

Nakota
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

1/2/18 1620
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1
Project Number: C014-027
Project Manager: Paul Henehan

Reported:
01/17/18 08:52

MW-1
1801144-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.8 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	45-146		"	"	"	"	

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.



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1
Project Number: C014-027
Project Manager: Paul Henehan

Reported:
01/17/18 08:52

MW-2
1801144-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.9 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1
Project Number: C014-027
Project Manager: Paul Henehan

Reported:
01/17/18 08:52

MW-3
1801144-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.3 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	45-146		"	"	"	"	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1
Project Number: C014-027
Project Manager: Paul Henehan

Reported:
01/17/18 08:52

MW-4
1801144-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	45-146		"	"	"	"	

Summit Scientific

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Reported:
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MW-5
1801144-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.3 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	45-146		"	"	"	"	

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Reported:
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MW-6
1801144-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	45-146		"	"	"	"	

Summit Scientific

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Reported:
01/17/18 08:52

MW-7
1801144-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1801140	01/16/18	01/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **01/12/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.0 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	45-146		"	"	"	"	

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Reported:
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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 1801140 - EPA 5030 Water MS

Blank (1801140-BLK1)

Prepared & Analyzed: 01/16/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.4	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	45-146			

LCS (1801140-BS1)

Prepared & Analyzed: 01/16/18

Benzene	37.2	1.0	ug/l	33.3		112	51-132			
Toluene	36.6	1.0	"	33.3		110	51-138			
Ethylbenzene	40.5	1.0	"	33.1		122	58-146			
m,p-Xylene	76.3	2.0	"	66.5		115	57-144			
o-Xylene	38.5	1.0	"	32.7		118	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.2	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	45-146			

Matrix Spike (1801140-MS1)

Source: 1801144-01

Prepared & Analyzed: 01/16/18

Benzene	37.4	1.0	ug/l	33.3	ND	112	34-141			
Toluene	36.7	1.0	"	33.3	ND	110	27-151			
Ethylbenzene	41.0	1.0	"	33.1	ND	124	29-160			
m,p-Xylene	77.1	2.0	"	66.5	ND	116	20-166			
o-Xylene	39.1	1.0	"	32.7	ND	120	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.0	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.3	45-146			

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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 1801140 - EPA 5030 Water MS

Matrix Spike Dup (1801140-MSD1)	Source: 1801144-01			Prepared & Analyzed: 01/16/18						
Benzene	38.1	1.0	ug/l	33.3	ND	114	34-141	1.72	32	
Toluene	37.2	1.0	"	33.3	ND	112	27-151	1.24	25	
Ethylbenzene	41.3	1.0	"	33.1	ND	125	29-160	0.777	50	
m,p-Xylene	78.1	2.0	"	66.5	ND	117	20-166	1.29	36	
o-Xylene	39.0	1.0	"	32.7	ND	119	33-159	0.230	26	
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.1	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.1	45-149			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.3	45-146			

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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