

FREMONT ENVIRONMENTAL INC.

December 21, 2016

received 12/21/2016
REM 8307
Document 2527485

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

Subject: **Ground Water Data Submittal**
 Stephens #1
 API # 05-123-11552
 SENW Sec 15, T4N, R66W
 Weld County, Colorado
 Fremont Project No. C014-027
 Facility #243760, Remediation # 8307

Dear Mr. Wright:

Enclosed please find a copy of the above referenced Ground Water Data Submittal for the Stephens #1 site in Weld County, Colorado. The enclosed report describes monitoring and sampling efforts to assess ground water quality at the site. A rebound in benzene concentrations occurred in MW-1 and MW-5 during this quarter's sampling event with concentrations of 40 and 7.4 ug/L, respectively.

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. Henahan, P.E.
Senior Consultant

Enclosure

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

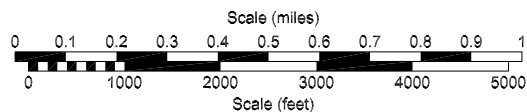
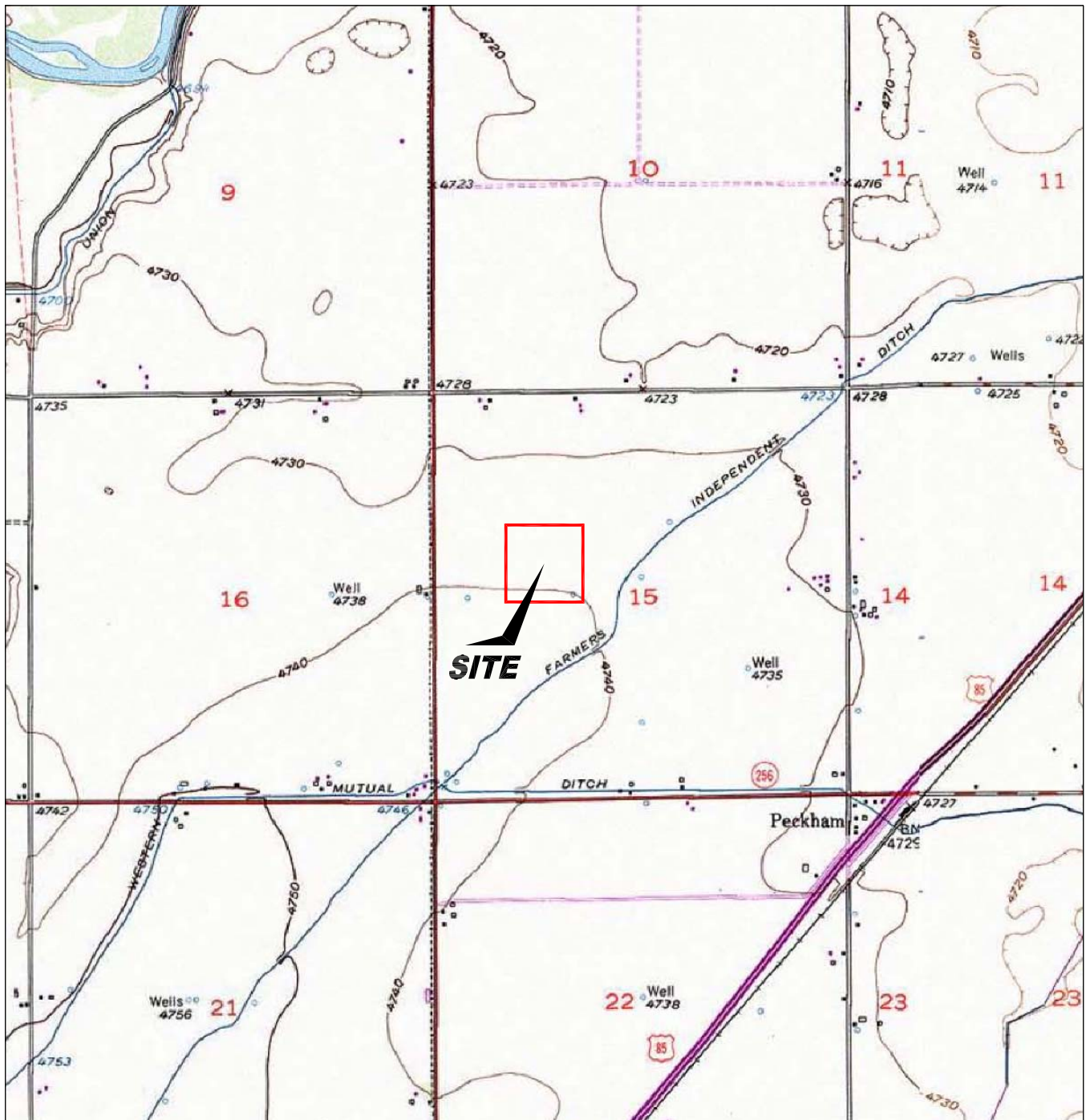
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	08/20/14	2616	3751	4182	96434	99.22	17.94	81.28	NP
	01/29/15	1728	114	455	8314		20.03	79.19	NP
	04/07/15	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
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
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
	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

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-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
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
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
	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
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

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-7	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
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
Table 910-1 Limits		5	560	700	1,400				

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

	CONTAINMENT
	FORMER FACILITY

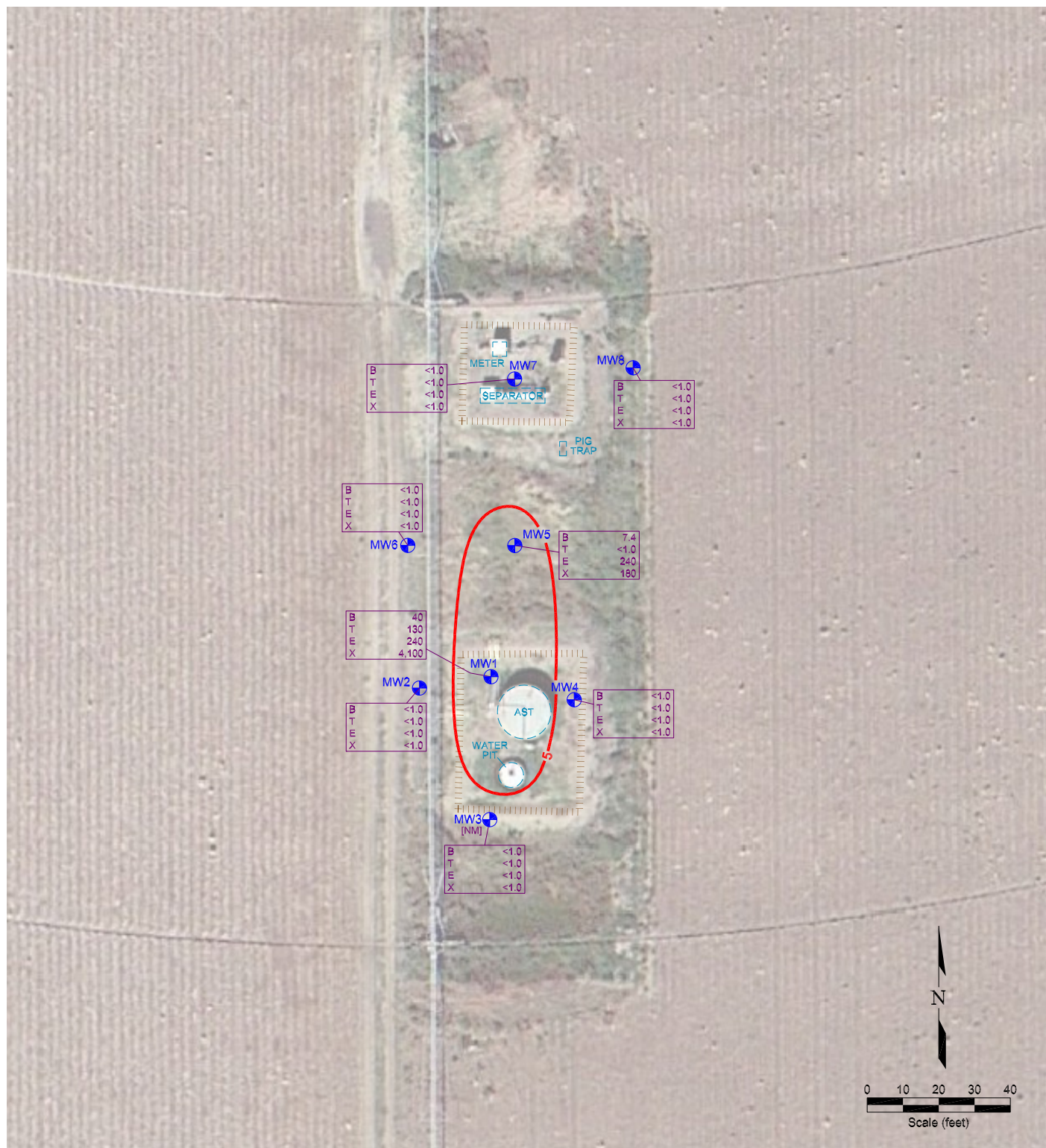
**Figure 2
SITE MAP**

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 14027Q







LEGEND



B	<1.0
T	<1.0
E	<1.0
X	<1.0

NM

BENZENE (ug/L)
TOLUENE (ug/L)
ETHYLBENZENE (ug/L)
TOTAL XYLENES (ug/L)

NOT MEASURED

Figure 4
GROUND WATER CHEMISTRY MAP
NOVEMBER 30, 2016

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

Project No.
C014-027

Prepared by

Drawn by
JMA

Date
12/20/16

Reviewed by

Filename
14027Q



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 05, 2016

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 11/30/16 16:00. 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
President



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Homestead Oil Stephens 1

Project Number: C014-027
Project Manager: Paul Henehan

Reported:
12/05/16 13:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	1611251-01	Water	11/30/16 00:00	11/30/16 16:00
MW2	1611251-02	Water	11/30/16 00:00	11/30/16 16:00
MW3	1611251-03	Water	11/30/16 00:00	11/30/16 16:00
MW4	1611251-04	Water	11/30/16 00:00	11/30/16 16:00
MW5	1611251-05	Water	11/30/16 00:00	11/30/16 16:00
MW6	1611251-06	Water	11/30/16 00:00	11/30/16 16:00
MW7	1611251-07	Water	11/30/16 00:00	11/30/16 16:00
MW8	1611251-08	Water	11/30/16 00:00	11/30/16 16:00

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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:
12/05/16 13:02

Summit Scientific

1611251

S:

741 Corporate Circle, Suite J • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Client: Fremont Env. Project Manager: Paul H Page 1 of 1
Address: _____ E-Mail: _____
City/State/Zip: _____
Phone: _____ Fax: _____ Project Name: Homestead Oil - Stephens 1
Sampler Name: Mark T Project Number: C014-027

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested				Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)			
1	MW	11/30/16													
2															
3															
4															
5															
6															
7															
8															
9															
10															

Relinquished by: <u>Mark T</u>	Date/Time: <u>11/30/16 1600</u>	Received by: <u>MB</u>	Date/Time: <u>11/30/16 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>MB</u>	Date/Time: <u>11/30/16 1820</u>	Received by: _____	Date/Time: _____	Same Day _____ 72 hours _____	on ice
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	24 hours _____ Standard <input checked="" type="checkbox"/>	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	48 hours _____	
Sample Integrity:				Temperature Upon Receipt: <u>10.9°C</u>	
Intact: <u>Yes</u> No _____					

www.s2scientific.com

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:
12/05/16 13:02

Sample Receipt Checklist

S2 Work Order: 1611251

Client: Fremont Environmental Client Project ID: Homestead oil - stephens 1

Shipped Via: Hand delivered Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	<u>10.9</u>				

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⁾ ?	<input checked="" type="checkbox"/>			
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⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
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⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
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 Custodian

11/30/16 1826
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

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

Reported:
12/05/16 13:02

MW1
1611251-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	40	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	130	1.0	"	"	"	"	"	"	
Ethylbenzene	240	1.0	"	"	"	"	"	"	
Xylenes (total)	4100	25	"	25	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW2
1611251-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW3
1611251-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW4
1611251-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW5
1611251-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	7.4	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	240	1.0	"	"	"	"	"	"	
Xylenes (total)	180	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW6
1611251-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146		"	"	"	"	

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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:
12/05/16 13:02

MW7
1611251-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146		"	"	"	"	

Summit Scientific

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Reported:
12/05/16 13:02

MW8
1611251-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1611321	12/02/16	12/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	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 1611321 - EPA 5030 Water MS

Blank (1611321-BLK1)

Prepared & Analyzed: 12/01/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	105	37-154				
Surrogate: Toluene-d8	13.5		"	13.3	101	45-149				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	101	45-146				

LCS (1611321-BS1)

Prepared & Analyzed: 12/01/16

Benzene	28.1	1.0	ug/l	33.3	84.3	51-132				
Toluene	26.6	1.0	"	33.3	80.0	51-138				
Ethylbenzene	24.4	1.0	"	33.1	73.7	58-146				
m,p-Xylene	44.8	2.0	"	66.5	67.4	57-144				
o-Xylene	24.2	1.0	"	32.7	74.0	53-146				
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3	95.7	37-154				
Surrogate: Toluene-d8	18.0		"	13.3	135	45-149				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3	105	45-146				

Matrix Spike (1611321-MS1)

Source: 1611223-01

Prepared & Analyzed: 12/01/16

Benzene	33.5	1.0	ug/l	33.3	ND	101	34-141			
Toluene	31.4	1.0	"	33.3	ND	94.3	27-151			
Ethylbenzene	31.5	1.0	"	33.1	ND	95.3	29-160			
m,p-Xylene	57.1	2.0	"	66.5	ND	85.8	20-166			
o-Xylene	30.4	1.0	"	32.7	ND	93.1	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	37-154				
Surrogate: Toluene-d8	16.3		"	13.3	122	45-149				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3	102	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 1611321 - EPA 5030 Water MS

Matrix Spike Dup (1611321-MSD1)	Source: 1611223-01			Prepared & Analyzed: 12/01/16						
Benzene	38.2	1.0	ug/l	33.3	ND	115	34-141	13.1	32	
Toluene	35.4	1.0	"	33.3	ND	106	27-151	11.9	25	
Ethylbenzene	39.7	1.0	"	33.1	ND	120	29-160	23.1	50	
m,p-Xylene	71.4	2.0	"	66.5	ND	107	20-166	22.3	36	
o-Xylene	38.6	1.0	"	32.7	ND	118	33-159	23.6	26	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	37-154			
Surrogate: Toluene-d8	14.8		"	13.3		111	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	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