

FREMONT ENVIRONMENTAL INC.

Doc #1313053

June 9, 2020

Mr. Kris Neidel
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

Subject: **Site Investigation Report**
Margaret Spaulding #2
API #05-057-06011
SW ¼ NE ¼ Sec 28, T9N, R81W
Jackson County, Colorado
Fremont Project No. C020-035

Dear Mr. Neidel:

Enclosed please find a copy of the above referenced Site Investigation Report for the Margaret Spaulding #2 site in Jackson County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil impacts at the site.

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

SITE INVESTIGATION REPORT
COLORADO OIL AND GAS CONSERVATION COMMISSION
MARGARET SPAULDING #2
JACKSON COUNTY, COLORADO
API# 05-057-06011, FACILITY# 324599
FREMONT PROJECT NO. C020-035

Prepared by:

Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714

June 9, 2020

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SITE INVESTIGATION REPORT
COLORADO OIL AND GAS CONSERVATION COMMISSION
MARGARET SPAULDING #2
JACKSON COUNTY, COLORADO
FREMONT PROJECT NO. C020-035

1.0 INTRODUCTION

The purpose of this document is to present soil chemistry data collected during an investigation of the Margaret Spaulding #2 wellhead site in Jackson County, Colorado. Impacted soil was identified at the former facility during facility abandonment. Twelve soil borings were advanced in May 2020 to delineate the magnitude and extent of subsurface impacts.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Margaret Spaulding #2 site is located approximately 20 miles west of Walden, Colorado in Jackson County as shown on Figure 1. The site is located in a rural area approximately one mile southwest of the intersection of County Road 16 and County Road 12. The location is further described as the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28, Township 9N, Range 81W.

2.2 Site History

The site consists of the former wellhead for the Margaret Spaulding #2 oil well. The Margaret Spaulding #2 well was drilled in 1972 to a depth of 2,620 feet. Soil impacts were identified at the former wellhead during permanent abandonment of the facility.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings

A site investigation was conducted at the former well location on May 18, 2020. In order to determine the extent of soil impacts at the site, twelve soil borings were advanced utilizing a Geoprobe rig. Their locations are shown on Figure 2. The borings were abandoned by backfilling with bentonite pellets after soil sampling was completed.

As shown on the logs of the borings presented in Appendix A, the subsurface consists generally at least 16 feet of clayey silt which is underlain by sand to the maximum depth explored of 21 feet. That maximum depth was reached at boring B-1, which was placed near the former oil well location. Groundwater was not encountered in any of the borings.

Soil borings B-2, B-3 and B-4 were used to determine if residual soil contamination remained on site due to a vacuum truck spill. The maximum depth of these three borings was four feet. The other borings were intended to delineate the extent of soil impacts adjacent to the former wellhead.

Soil samples from each of the Geoprobe borings were evaluated in the field using a photoionization detector (PID). The results are shown on the logs of the borings in Appendix A.

Soil samples were collected from each of the Geoprobe borings and sent to Summit Scientific, Inc. in Golden, Colorado for the analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons-gasoline range organics (TPH-GRO), and TPH-diesel range organics (TPH-DRO).

Although elevated PID readings were observed and detectable petroleum hydrocarbon concentrations were present from soil samples taken from boring B-1, the laboratory data indicated that all concentrations were within their respective COGCC Table 910-1 limits. Further, soil impacts were not observed in any of the twelve Geoprobe borings above the COGCC's Table 910-1 limits for petroleum constituents. The soil chemistry is presented on Figure 3 and summarized on Table 1. The laboratory report is shown in Appendix B.

4.0 DISCUSSION

A site investigation was conducted at the Margaret Spaulding #2 location during May 2020 as a result of historical releases from the facility's former wellhead as well as a vacuum truck spill on the location. Twelve soil borings were advanced at the site to delineate the magnitude and extent of soil impacts.

Soil impacts above the COGCC Table 910-1 limits were not observed in any of the borings though elevated concentrations were noted in soil boring B-1. An excavation to remove the COGCC-compliant, but still contaminated soil, could be conducted by the COGCC. An excavation over an approximate area of 30' x 40' and 8' deep should be adequate to remove the affected soil.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



6/9/20

Date_____

Paul V. Henehan, P.E.

Senior Consultant

Reviewed by:



6/9/20

Date_____

Michael R. Gerstner, P.G.

Senior Geologist

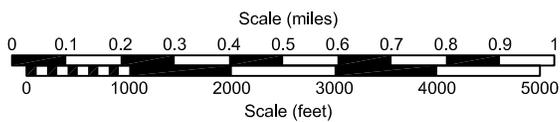
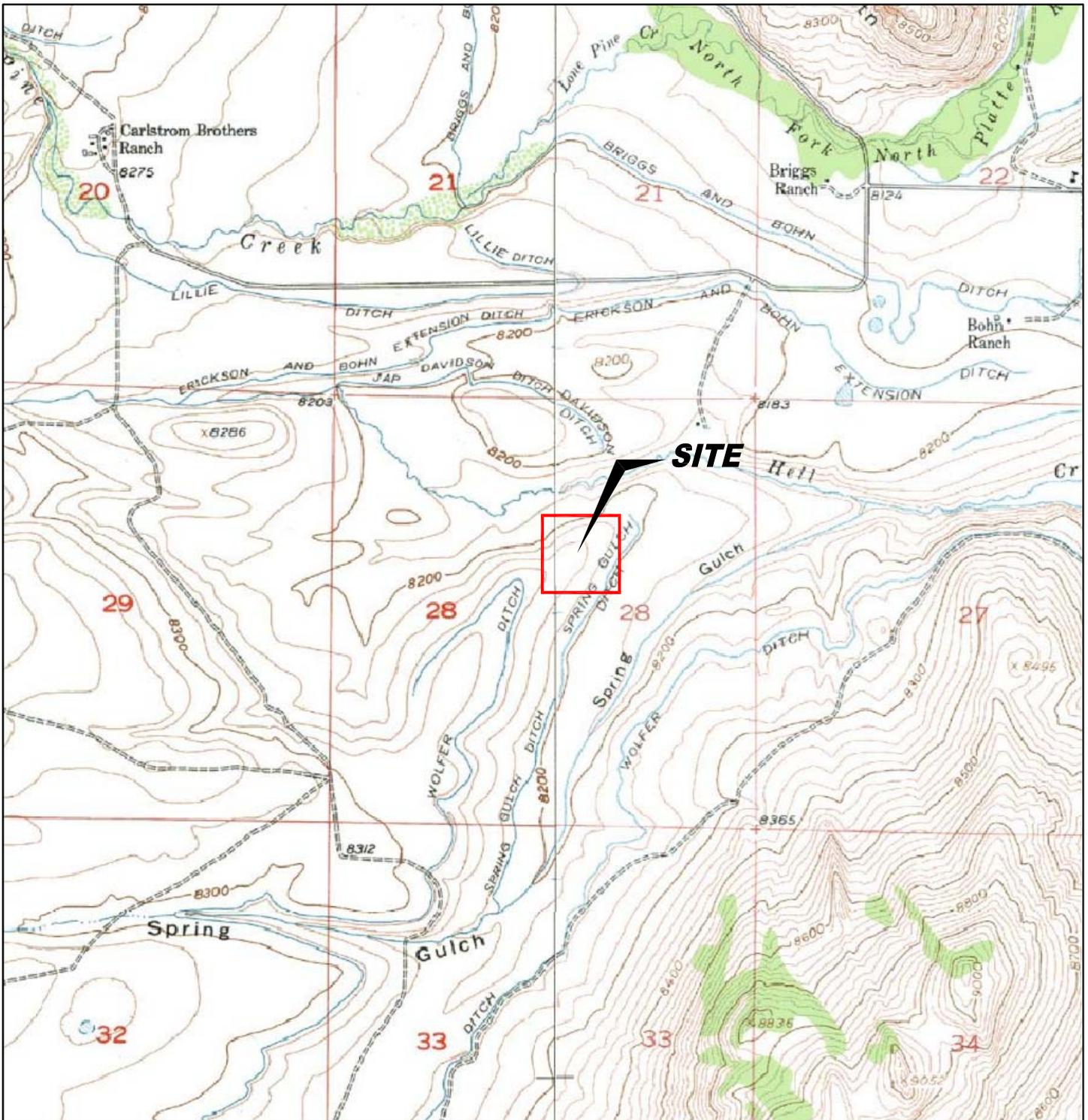
TABLE

TABLE 1
SUMMARY OF SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
MARGARET SPAULING #2, JACKSON COUNTY, COLORADO
FREMONT PROJECT C020-035

Sample	Depth (ft)	Date Sampled	PID ppm	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
B-1-4 Ft	4	5/18/2020		0.022	<0.005	0.34	5.7	310	<50
B-1-11 Ft	11	5/18/2020		<0.002	<0.005	0.091	0.15	54	<50
B-1-21 Ft	21	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-2-3 Ft	3	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-3-2 Ft	2	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-4-2 Ft	2	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-5-10 Ft	10	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-5-15 Ft	15	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-6-7 Ft	7	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-6-16 Ft	16	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-7-4 Ft	4	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-7-16 Ft	16	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-8-4 Ft	4	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-8-16 Ft	16	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-9-7 Ft	7	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-9-15 Ft	15	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-10-2 Ft	2	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-10-15 Ft	15	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-11-7 Ft	7	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-11-16 Ft	16	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
B-12-17 Ft	17	5/18/2020		<0.002	<0.005	<0.005	<0.10	<0.50	<50
COGCC Table 910 Limits				0.17	85	100	175	500	500

Bold faced values exceed the COGCC Table 910-1 concentrations

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Colorado Oil and Gas Conservation Commission
Margaret Spaulding #2
SWNE Sec. 28, T9N, R81W
Jackson County, Colorado

Project No. C020-035	Prepared by	Drawn by TA	
Date 6/15/20	Reviewed by MG	Filename 20035T	



LEGEND

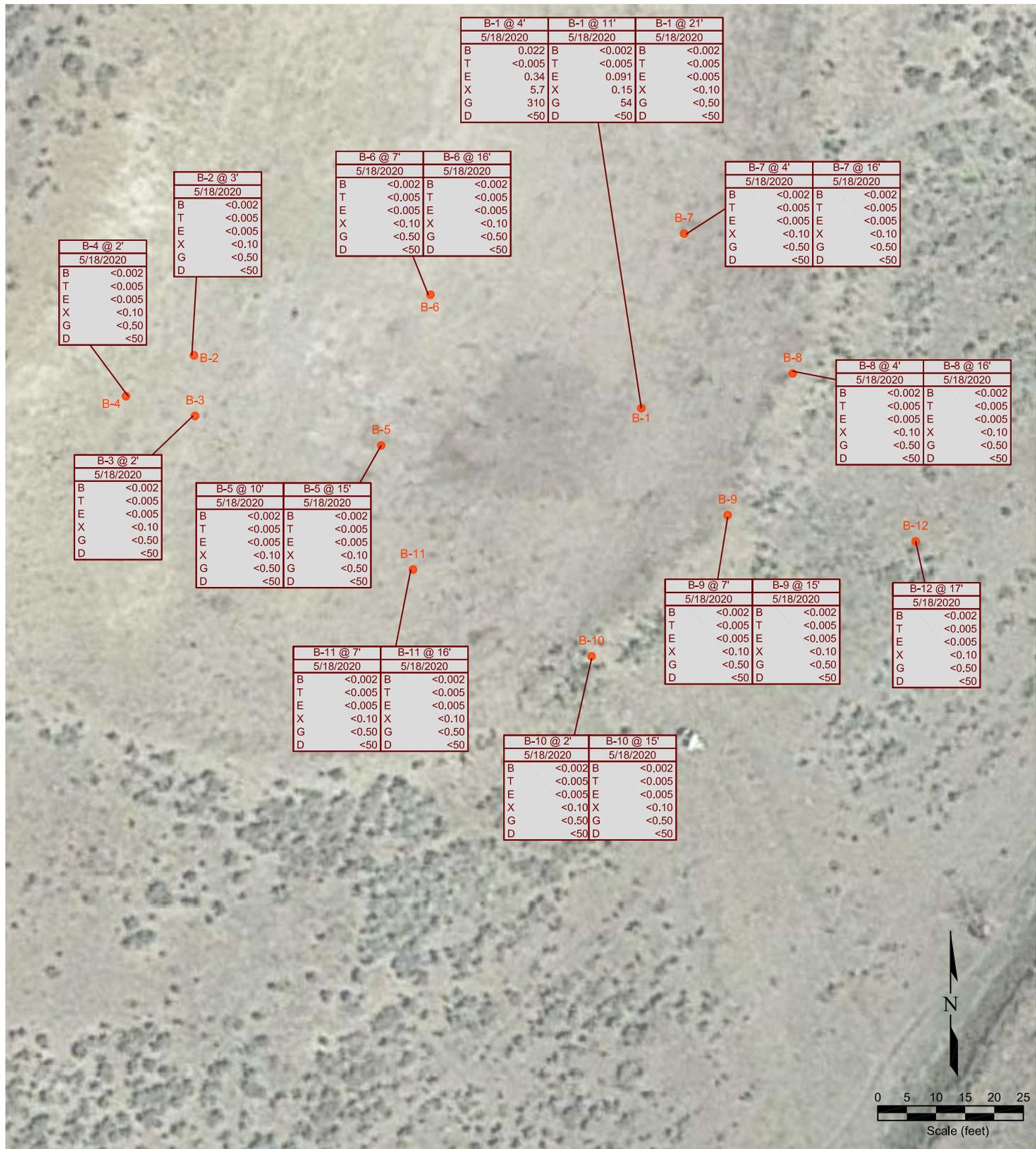
● SOIL BORING

**Figure 2
SITE MAP**

**Colorado Oil and Gas Conservation Commission
Margaret Spaulding #2
SWNE Sec. 28, T9N, R81W
Jackson County, Colorado**

Project No. C020-035	Prepared by	Drawn by TA
Date 6/15/20	Reviewed by MG	Filename 20035Qsb





LEGEND

● SOIL BORING

B-1 @ 4'		SAMPLE ID & DEPTH
5/18/2020		DATE SAMPLED
B	0.022	BENZENE (mg/kg)
T	<0.005	TOLUENE (mg/kg)
E	0.34	ETHYLBENZENE (mg/kg)
X	5.7	TOTAL XYLENES (mg/kg)
G	310	TPH-GRO (mg/kg)
D	<50	TPH-DRO (mg/kg)

Figure 3

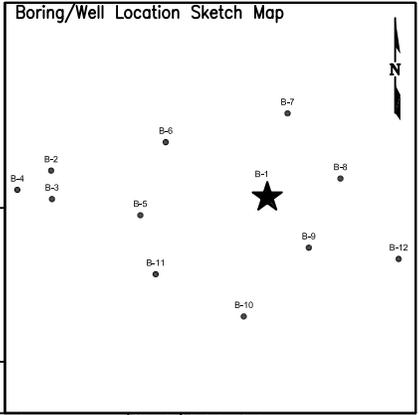
**SOIL CHEMISTRY MAP
May 18, 2020**

**Colorado Oil and Gas Conservation Commission
Margaret Spaulding #2
SWNE Sec. 28, T9N, R81W
Jackson County, Colorado**

Project No. C020-035	Prepared by	Drawn by TA	
Date 6/15/20	Reviewed by MG	Filename 20035Qsb	

APPENDIX A
BORING LOGS

BORING/WELL CONSTRUCTION LOG



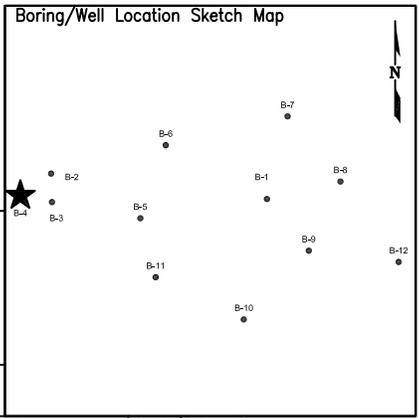
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Boring/Well No. B-1		Total Depth 20'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe				Size/Type of Bit .		Sampling Method direct push	Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5				MH-SC	Silty with clay and sand very moist				730
				ML-SC	Silty with minor clay, stiff, gray at 10', strong odor			163	
15				SP-SC	Silt with sand and minor clay, reddish brown, soft				697
				GP	Sand with gravel, reddish brown, moist			7	
20								31	
									26

TD 20'
refusal @ 21'

BORING/WELL CONSTRUCTION LOG

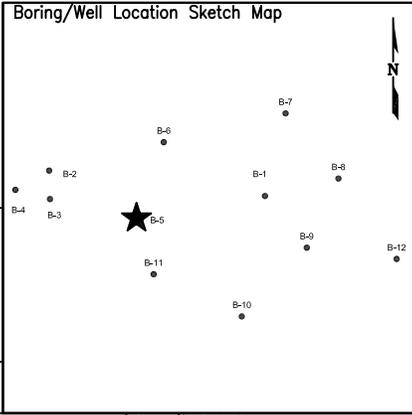


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Boring/Well No. B-4		Total Depth 4'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe				Size/Type of Bit .		Sampling Method direct push	Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5				CH-MH	Silty with clay, minor sand				
10									
15									
20									
					TD 4'				0

BORING/WELL CONSTRUCTION LOG

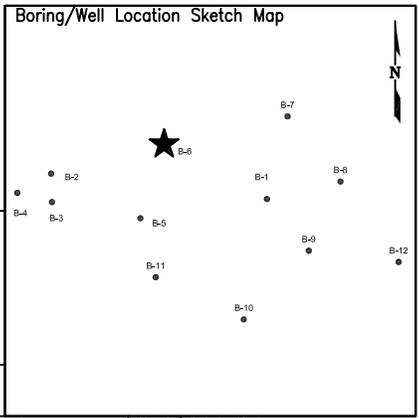


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Boring/Well No. B-5		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe				Size/Type of Bit .		Sampling Method direct push	Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5					MH-SC	Silty with clay and sand				0
10					ML-SC	Silty with minor clay, stiff, brown, moist				0
15										1
20						TD 16'				1

BORING/WELL CONSTRUCTION LOG

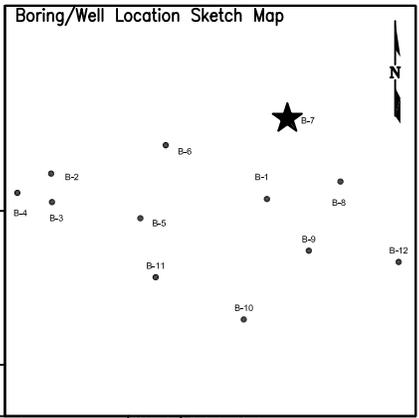


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Boring/Well No. B-6		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Drilling Contractor/Driller DrillPro/Terron			
Geologist/Office Mike Gerstner/Fremont Environmental, Inc.				Approved By			
Drilling Equipment/Method Geoprobe			Size/Type of Bit		Sampling Method direct push		Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type .		Mtrl. .	
				Length .		Dia. .	
				Slot Size .			
Elevation of: (ft. above datum)		Ground Surface		Top of Well Casing		Top of Screen	
						Bottom of Screen	
						Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5				MH-SC	Silty with clay and sand, fill(?), brown				0
				CH-MH	Silt with clay, brown, moderate stiff, slightly moist				
10				MH	Silt, brown, slightly moist, soft				1
				MH-SC	Silt with clay, medium stiff, brown				
15				MH-SC	Silt with clay, medium stiff, brown				0
				TD 16'					
20									0

BORING/WELL CONSTRUCTION LOG

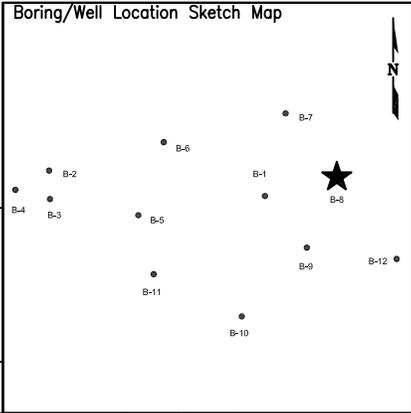


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Boring/Well No. B-7		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe		Size/Type of Bit		Sampling Method direct push		Start/Finish Date 5/18/2020	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.		Screen: Type		Mtrl. Length Dia. Slot Size	
Elevation of: (ft. above datum)		Ground Surface		Top of Well Casing		Top of Screen	
						Bottom of Screen	
						Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
				MH-SC	Silty clay and sand, gray, medium soft, slightly moist, possible odor					
5				CH-MH	Silt with clay, brown, slightly moist				6	
10				MH-SC	Silt with clay and sand, soft				1	
15				CH-MH	Silt with clay, very moist, brown, soft				1	
20					TD 16'				0	

BORING/WELL CONSTRUCTION LOG

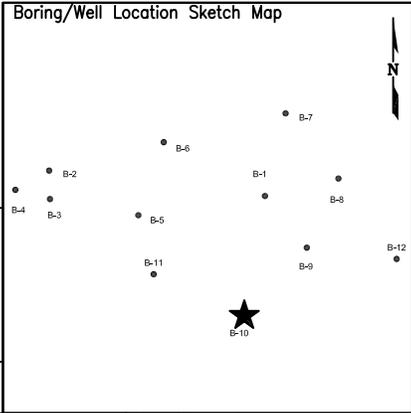


Page 1 of 1

Boring/Well No. B-8		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Drilling Contractor/Driller DrillPro/Terron			
Geologist/Office Mike Gerstner/Fremont Environmental, Inc.				Approved By			
Drilling Equipment/Method Geoprobe			Size/Type of Bit		Sampling Method direct push		Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type .		Mtrl. .	
				Length .		Dia. .	
				Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
				GP 	Silt with sand and gravel, fill				
5				CH-MH 	Silt with clay, dark brown, very moist, stiff				41
10				MH-CL 	Silt with minor clay, brown, moist, medium stiff				0
15									0
20					TD 16'				0

BORING/WELL CONSTRUCTION LOG

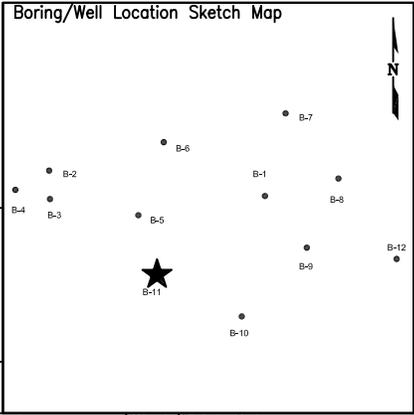


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Boring/Well No. B-10		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe				Size/Type of Bit		Sampling Method direct push	Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5					MH-SC	Silt with clay and sand, fill, brown, soft				26
					MH-CL	Silt with clay, light brown, stiff, slightly moist				
10					MH	Silt with minor clay, soft, moist, brown				2
					MH	Silt with minor clay, soft, moist, brown				
15					MH	Silt with minor clay, soft, moist, brown				0
					MH	Silt with minor clay, soft, moist, brown				
20					MH	Silt with minor clay, soft, moist, brown				0
					MH	Silt with minor clay, soft, moist, brown				
						TD 16'				

BORING/WELL CONSTRUCTION LOG

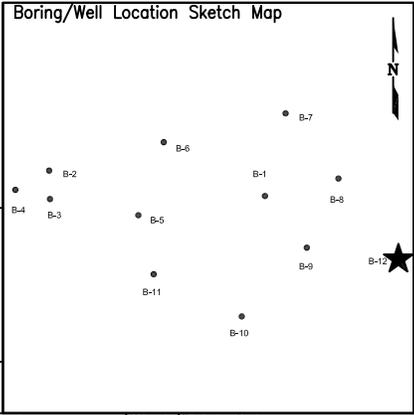


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Boring/Well No. B-11		Total Depth 16'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Drilling Contractor/Driller DrillPro/Terron			
Geologist/Office Mike Gerstner/Fremont Environmental, Inc.				Approved By			
Drilling Equipment/Method Geoprobe			Size/Type of Bit		Sampling Method direct push		Start/Finish Date 5/18/2020
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type .		Mtrl. .	
				Length .		Dia. .	
				Slot Size .			
Elevation of: (ft. above datum)		Ground Surface		Top of Well Casing		Top of Screen	
						Bottom of Screen	
						Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5					MH-CH	Silt with clay, stiff, dense, slightly moist, brown				0
10					MH	Silt with minor clay, soft, brown, moist				0
15										0
20						TD 16'				0

BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. B-12		Total Depth 17'		Location COGCC Margaret Spaulding #2 SWNE Sec 28, T9N, R81W Jackson County, Colorado			
Project No./Name C020-035/COGCC Margaret Spaulding 2				Approved By			
Drilling Contractor/Driller DrillPro/Terron				Geologist/Office Mike Gerstner/Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe		Size/Type of Bit		Sampling Method direct push		Start/Finish Date 5/18/2020	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .		Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface		Top of Well Casing		Top of Screen	
						Bottom of Screen	
						Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5				MH-CH	Silt with clay, dry, brown, soft				0	
10									0	
15				SP	Sand with minor gravel and silt, dry to slightly moist				0	
20					Refusal at 17' TD 17'				0	

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 26, 2020

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Margaret Spaulding #2
Work Order #2005200

Enclosed are the results of analyses for samples received by Summit Scientific on 05/19/20 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-4 FT	2005200-01	Soil	05/18/20 00:00	05/19/20 17:20
B-1-11 FT	2005200-02	Soil	05/18/20 00:00	05/19/20 17:20
B-1-21 FT	2005200-03	Soil	05/18/20 00:00	05/19/20 17:20
B-2-3 FT	2005200-04	Soil	05/18/20 00:00	05/19/20 17:20
B-3-2 FT	2005200-05	Soil	05/18/20 00:00	05/19/20 17:20
B-4-2 FT	2005200-06	Soil	05/18/20 00:00	05/19/20 17:20
B-5-10 FT	2005200-07	Soil	05/18/20 00:00	05/19/20 17:20
B-5-15 FT	2005200-08	Soil	05/18/20 00:00	05/19/20 17:20
B-6-7 FT	2005200-09	Soil	05/18/20 00:00	05/19/20 17:20
B-6-16 FT	2005200-10	Soil	05/18/20 00:00	05/19/20 17:20
B-7-4 FT	2005200-11	Soil	05/18/20 00:00	05/19/20 17:20
B-7-16 FT	2005200-12	Soil	05/18/20 00:00	05/19/20 17:20
B-8-4 FT	2005200-13	Soil	05/18/20 00:00	05/19/20 17:20
B-8-16 FT	2005200-14	Soil	05/18/20 00:00	05/19/20 17:20
B-9-7 FT	2005200-15	Soil	05/18/20 00:00	05/19/20 17:20
B-9-15 FT	2005200-16	Soil	05/18/20 00:00	05/19/20 17:20
B-10-2 FT	2005200-17	Soil	05/18/20 00:00	05/19/20 17:20
B-10-15 FT	2005200-18	Soil	05/18/20 00:00	05/19/20 17:20
B-11-7 FT	2005200-19	Soil	05/18/20 00:00	05/19/20 17:20
B-11-16 FT	2005200-20	Soil	05/18/20 00:00	05/19/20 17:20
B-12-17 FT	2005200-21	Soil	05/18/20 00:00	05/19/20 17:20

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

2005200.1

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 3

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: PAUL

Phone: 303-956-8714

Project Name: MARGARET SPAULDING #2

Sampler Name: GERSTNER

Project Number: CO20-035

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH			
1	B-1-4 FT	5/18/20		1			✓			✓				✓		✓						
2	B-1-11 FT																					
3	B-1-21 FT																					
4	B-2-3 FT																					
5	B-3-2 FT																					
6	B-4-2 FT																					
7	B-5-10 FT																					
8	B-5-15 FT																					
9	B-6-7 FT																					
10	B-6-16 FT																					
Relinquished by: JA/FE		Date/Time: 5/19/20 1720		Received by: [Signature]		Date/Time: 05/19/2020 1720		Turn Around Time (Check)							Notes:							
								Same Day _____ 72 hours														
								24 hours _____ Standard <input checked="" type="checkbox"/>														
								48 hours _____														
								Sample Integrity:														
								Temperature Upon Receipt: 2.8														
								Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														

Summit Scientific

S₂

2005200.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 3

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: PAUL

Phone: 303-956-8714

Project Name: MARGARET SPAULDING #2

Sampler Name: GERSTNER

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC		pH	
1	B-7-4 FT	5/18/20		1			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
2	B-7-16 FT																				
3	B-8-4 FT																				
4	B-8-16 FT																				
5	B-9-7 FT																				
6	B-9-15 FT																				
7	B-10-2 FT																				
8	B-10-15 FT																				
9	B-11-7 FT																				
10	B-11-16 FT																				
Relinquished by: <u>PAH/EE</u>		Date/Time: <u>5/19/20 1700</u>		Received by: <u>[Signature]</u>		Date/Time: <u>05/19/20 1700</u>		Turn Around Time (Check)						Notes:							
								Same Day <input type="checkbox"/> 72 hours													
								24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>													
								48 hours <input type="checkbox"/>													
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:													
								Temperature Upon Receipt: <u>2.8</u>													
								Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													

Summit Scientific

2005200.3

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 3 of 3

Client: FREMONT
Address: _____
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: GERSTNER

Project Manager: HENEHAN
E-Mail: _____
Project Name: MARGARET SPAULDING #2
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)	BTEX	GRO/DRO	NAPHTHALENE	SAR	EC		pH
B-12-17	5/18/20		1			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
Relinquished by: <u>JAH/FE</u> Date/Time: <u>5/19/20 1720</u>				Received by: <u>[Signature]</u> Date/Time: <u>05/19/2020 1720</u>				Turn Around Time (Check)						Notes:				
Relinquished by:				Received by:				Same Day <input type="checkbox"/>							72 Hours <input type="checkbox"/>			
Relinquished by:				Received by:				24 Hours <input type="checkbox"/>								Standard <input checked="" type="checkbox"/>		
Relinquished by:				Received in Lab by:				48 Hours <input type="checkbox"/>						Sample Integrity:				
Relinquished by:				Received in Lab by:				Temperature Upon Receipt: <u>2.8</u>							Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

Sample Receipt Checklist

S2 Work Order 2005200

Client: Pratt Environmental Client Project ID: MARGARET Spaulding #2

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

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

Temp (°C) 2.8

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.	<input checked="" type="checkbox"/>	<input 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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

TEB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

05/19/2020
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-1-4 FT
2005200-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.022	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.34	0.0050	"	"	"	"	"	"	
Xylenes (total)	5.7	1.0	"	100	"	"	05/22/20	"	
Gasoline Range Hydrocarbons	310	0.50	"	1	"	"	05/23/20	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		224 %	23-173	"	"	"	"	"	S-02
Surrogate: Toluene-d8		99.8 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		611 %	21-167	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.5 %	30-150	"	"	"	"	"	

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
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-1-11 FT
2005200-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.091	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.15	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	54	0.50		"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		75.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		329 %		21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.1 %		30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-1-21 FT
2005200-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		64.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		90.9 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-2-3 FT
2005200-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		60.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.8 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-3-2 FT
2005200-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		71.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.6 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-4-2 FT
2005200-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.3 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-5-10 FT
2005200-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		81.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

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

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
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-5-15 FT
2005200-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		76.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-6-7 FT
2005200-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-6-16 FT
2005200-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		72.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-7-4 FT
2005200-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		70.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.9 %	30-150		"	"	"	"	

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Fremont Environmental
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Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-7-16 FT
2005200-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-8-4 FT
2005200-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		72.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		91.5 %	30-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-8-16 FT
2005200-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		70.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		96.2 %	30-150		"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-9-7 FT
2005200-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		72.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-9-15 FT
2005200-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		77.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.6 %	30-150		"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-10-2 FT
2005200-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		69.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.9 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
 Project Manager: Paul Henchan

Reported:
 05/26/20 16:38

B-10-15 FT
2005200-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		64.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

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
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-11-7 FT
2005200-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		58.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		96.6 %		30-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-11-16 FT
2005200-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005288	05/22/20	05/23/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		68.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005287	05/22/20	05/23/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Margaret Spaulding #2

Project Number: C020-035
Project Manager: Paul Henchan

Reported:
05/26/20 16:38

B-12-17 FT
2005200-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005248	05/20/20	05/20/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		70.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		121 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005247	05/20/20	05/20/20	EPA 8015M	

Date Sampled: **05/18/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch 2005248 - EPA 5030 Soil MS

Blank (2005248-BLK1)

Prepared & Analyzed: 05/20/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0261		"	0.0400		65.3	23-173			
Surrogate: Toluene-d8	0.0462		"	0.0400		115	20-170			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	21-167			

LCS (2005248-BS1)

Prepared & Analyzed: 05/20/20

Benzene	0.0943	0.0020	mg/kg	0.100		94.3	70-130			
Toluene	0.102	0.0050	"	0.100		102	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.192	0.010	"	0.200		95.9	70-130			
o-Xylene	0.0951	0.0050	"	0.100		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0215		"	0.0400		53.7	23-173			
Surrogate: Toluene-d8	0.0477		"	0.0400		119	20-170			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	21-167			

Matrix Spike (2005248-MS1)

Source: 2005199-01

Prepared & Analyzed: 05/20/20

Benzene	0.0989	0.0020	mg/kg	0.100	ND	98.9	70-130			
Toluene	0.110	0.0050	"	0.100	ND	110	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	0.0234	87.9	70-130			
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130			
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0220		"	0.0400		55.0	23-173			
Surrogate: Toluene-d8	0.0470		"	0.0400		118	20-170			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0400		113	21-167			

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

Batch 2005248 - EPA 5030 Soil MS

Matrix Spike Dup (2005248-MSD1)

Source: 2005199-01

Prepared & Analyzed: 05/20/20

Benzene	0.0970	0.0020	mg/kg	0.100	ND	97.0	70-130	1.90	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	4.47	30	
Ethylbenzene	0.104	0.0050	"	0.100	0.0234	81.1	70-130	6.29	30	
m,p-Xylene	0.200	0.010	"	0.200	ND	100	70-130	5.85	30	
o-Xylene	0.0994	0.0050	"	0.100	ND	99.4	70-130	5.37	30	
Surrogate: 1,2-Dichloroethane-d4	0.0236		"	0.0400		58.9	23-173			
Surrogate: Toluene-d8	0.0478		"	0.0400		120	20-170			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	21-167			

Batch 2005288 - EPA 5030 Soil MS

Blank (2005288-BLK1)

Prepared & Analyzed: 05/22/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0267		"	0.0400		66.7	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

LCS (2005288-BS1)

Prepared & Analyzed: 05/22/20

Benzene	0.0872	0.0020	mg/kg	0.100		87.2	70-130			
Toluene	0.0969	0.0050	"	0.100		96.9	70-130			
Ethylbenzene	0.0854	0.0050	"	0.100		85.4	70-130			
m,p-Xylene	0.162	0.010	"	0.200		81.0	70-130			
o-Xylene	0.0822	0.0050	"	0.100		82.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0223		"	0.0400		55.7	23-173			
Surrogate: Toluene-d8	0.0481		"	0.0400		120	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2005288 - EPA 5030 Soil MS

Matrix Spike (2005288-MS1)	Source: 2005200-03			Prepared & Analyzed: 05/22/20						
Benzene	0.0930	0.0020	mg/kg	0.100	ND	93.0	70-130			
Toluene	0.0943	0.0050	"	0.100	ND	94.3	70-130			
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
m,p-Xylene	0.164	0.010	"	0.200	ND	82.0	70-130			
o-Xylene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0239		"	0.0400		59.8	23-173			
Surrogate: Toluene-d8	0.0458		"	0.0400		114	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	21-167			

Matrix Spike Dup (2005288-MSD1)	Source: 2005200-03			Prepared & Analyzed: 05/22/20						
Benzene	0.0930	0.0020	mg/kg	0.100	ND	93.0	70-130	0.00	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	6.79	30	
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	0.553	30	
m,p-Xylene	0.166	0.010	"	0.200	ND	82.8	70-130	0.892	30	
o-Xylene	0.0851	0.0050	"	0.100	ND	85.1	70-130	2.57	30	
Surrogate: 1,2-Dichloroethane-d4	0.0270		"	0.0400		67.4	23-173			
Surrogate: Toluene-d8	0.0471		"	0.0400		118	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.5	21-167			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2005247 - EPA 3550A

Blank (2005247-BLK1)											Prepared & Analyzed: 05/20/20	
C10-C28 (DRO)	ND	50	mg/kg									
LCS (2005247-BS1)											Prepared & Analyzed: 05/20/20	
C10-C28 (DRO)	438	50	mg/kg	500		87.6	70-130					
Matrix Spike (2005247-MS1)											Source: 2005199-01 Prepared & Analyzed: 05/20/20	QM-07
C10-C28 (DRO)	426	50	mg/kg	500	2540	NR	70-130					
Matrix Spike Dup (2005247-MSD1)											Source: 2005199-01 Prepared & Analyzed: 05/20/20	QM-07
C10-C28 (DRO)	438	50	mg/kg	500	2540	NR	70-130	2.73	20			

Batch 2005287 - EPA 3550A

Blank (2005287-BLK1)											Prepared: 05/22/20 Analyzed: 05/23/20
C10-C28 (DRO)	ND	50	mg/kg								
LCS (2005287-BS1)											Prepared: 05/22/20 Analyzed: 05/23/20
C10-C28 (DRO)	446	50	mg/kg	500		89.2	70-130				
Matrix Spike (2005287-MS1)											Source: 2005200-01 Prepared: 05/22/20 Analyzed: 05/23/20
C10-C28 (DRO)	411	50	mg/kg	500	9.80	80.2	70-130				
Matrix Spike Dup (2005287-MSD1)											Source: 2005200-01 Prepared: 05/22/20 Analyzed: 05/23/20
C10-C28 (DRO)	425	50	mg/kg	500	9.80	83.1	70-130	3.43	20		

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Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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