

FREMONT ENVIRONMENTAL INC.

November 12, 2016

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Ground Water Data Submittal**
Romero Angelina 1,2
SW ¼ NW ¼ Sec. 3 T4N R65W
API # 05-123-12728, Facility #323216
La Salle, Colorado
Fremont Project No. C010-009

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Ground Water Data Submittal for the Romero Angelina 1,2 site in Weld County, Colorado. The enclosed data describes the ground water quality at the site during the recent quarterly sampling and monitoring event.

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
NOBLE ENERGY INC.
ROMERO ANGELINO 1,2, LA SALLE, COLORADO
FREMONT PROJECT NO. C010-009

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	9/1/2010	9430	2010	532	7610	99.33	3.74	95.59	0
	6/20/2011	WD	WD	WD	WD	WD	WD	WD	WD
MW-2	9/1/2010	<1.0	<1.0	<1.0	5.43	99.13	3.62	95.51	0
	6/20/2011	NS	NS	NS	NS		4.27	94.86	0
	9/23/2011	NS	NS	NS	NS		3.21	95.92	0
	12/19/2011	<1.0	<1.0	<1.0	<1.0		3.87	95.26	0
	3/5/2013	NS	NS	NS	NS		4.85	94.28	0
	6/26/2013	NS	NS	NS	NS		4.28	94.85	0
	9/9/2013	NS	NS	NS	NS		2.38	96.75	0
	12/13/2013	NS	NS	NS	NS		4.32	94.81	0
	3/31/2014	<1.0	<1.0	<1.0	<1.0		10.31	88.82	0
	6/13/2014	NS	NS	NS	NS		2.91	96.22	0
	9/2/2014	NS	NS	NS	NS		2.42	96.71	0
	12/9/2014	NS	NS	NS	NS		3.65	95.48	0
	3/12/2015	<1.0	<1.0	<1.0	<1.0		4.62	94.51	0
	6/9/2015	<1.0	<1.0	<1.0	<1.0		2.77	96.36	0
	9/28/2015	NS	NS	NS	NS		2.30	96.83	0
	12/3/2015	NS	NS	NS	NS		3.23	95.90	0
	1/27/2016	NS	NS	NS	NS		3.89	95.24	0
	4/28/2016	NS	NS	NS	NS		3.19	95.94	0
	7/27/2016	NS	NS	NS	NS		2.02	97.11	0
	10/19/2016	NS	NS	NS	NS		2.53	96.60	0
MW-3	9/1/2010	<1.0	<1.0	<1.0	<2.0	100.00	3.62	96.38	0
	12/27/2010	<1.0	<1.0	<1.0	<1.0		4.96	95.04	0
	3/9/2011	<1.0	<1.0	<1.0	<3.0		5.54	94.46	0
	6/20/2011	<1.0	<1.0	<1.0	<3.0		4.54	95.46	0
	9/23/2011	<1.0	<1.0	<1.0	<3.0		3.71	96.29	0
	12/19/2011	<1.0	<1.0	<1.0	<1.0		4.23	95.77	0
	3/8/2012	<1.0	<1.0	<1.0	<1.0		4.95	95.05	0
	6/4/2012	<1.0	<1.0	<1.0	<1.0		4.96	95.04	0
	9/29/2012	<1.0	<1.0	<1.0	<1.0		5.34	94.66	0
	12/13/2012	<1.0	<1.0	<1.0	<1.0		4.73	95.27	0
	3/5/2013	<1.0	<1.0	<1.0	<1.0		5.20	94.80	0
	6/26/2013	<1.0	<1.0	<1.0	<1.0		4.41	95.59	0
	9/9/2013	<1.0	<1.0	<1.0	<1.0		3.72	96.28	0
	12/13/2013	<1.0	<1.0	<1.0	<1.0		4.71	95.29	0
	3/31/2014	<1.0	<1.0	<1.0	<1.0		7.42	92.58	0
	6/13/2014	<1.0	<1.0	<1.0	<1.0		2.88	97.12	0
	9/2/2014	<1.0	<1.0	<1.0	<1.0		2.78	97.22	0
	12/9/2014	<1.0	<1.0	<1.0	<1.0		4.01	95.99	0
	3/12/2015	NF	NF	NF	NF		NF	NF	NF
	6/9/2015	<1.0	<1.0	<1.0	<1.0		2.96	97.04	0
	9/28/2015	<1.0	<1.0	<1.0	<1.0		2.53	97.47	0
	12/3/2015	<1.0	<1.0	<1.0	<1.0		3.53	96.47	0
	1/27/2016	<1.0	<1.0	<1.0	<1.0		4.08	95.92	0
	4/28/2016	<1.0	<1.0	<1.0	<1.0		3.39	96.61	0
	7/27/2016	<1.0	<1.0	<1.0	<1.0		2.15	97.85	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		2.67	97.33	0
MW-4	9/1/2010	10.4	<10	998	276	99.38	3.55	95.83	0
	6/20/2011	WD	WD	WD	WD	WD	WD	WD	WD
MW-5	9/1/2010	4.98	<10	<10	2.41	97.03	1.74	95.29	0
	6/20/2011	<1.0	<1.0	<1.0	<3.0		2.44	94.59	0
	7/27/2011	<1.0	<1.0	<1.0	<3.0		2.19	94.84	0
	9/23/2011	2.3	<1.0	<1.0	<3.0		1.25	95.78	0
	12/19/2011	12.4	13.8	<1.0	<1.0		2.01	95.02	0
	3/8/2012	<1.0	<1.0	<1.0	<1.0		2.93	94.10	0
	6/4/2012	879	<1.0	<1.0	<1.0		2.76	94.27	0
	9/29/2012	<1.0	<1.0	<1.0	<1.0		NM	NM	0
	12/13/2012	<1.0	<1.0	<1.0	<1.0		2.73	94.30	0
	3/5/2013	<1.0	<1.0	<1.0	<1.0		3.22	93.81	0

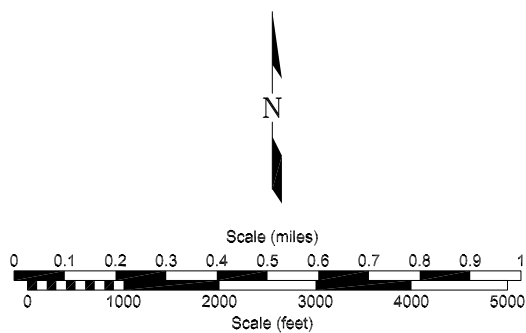
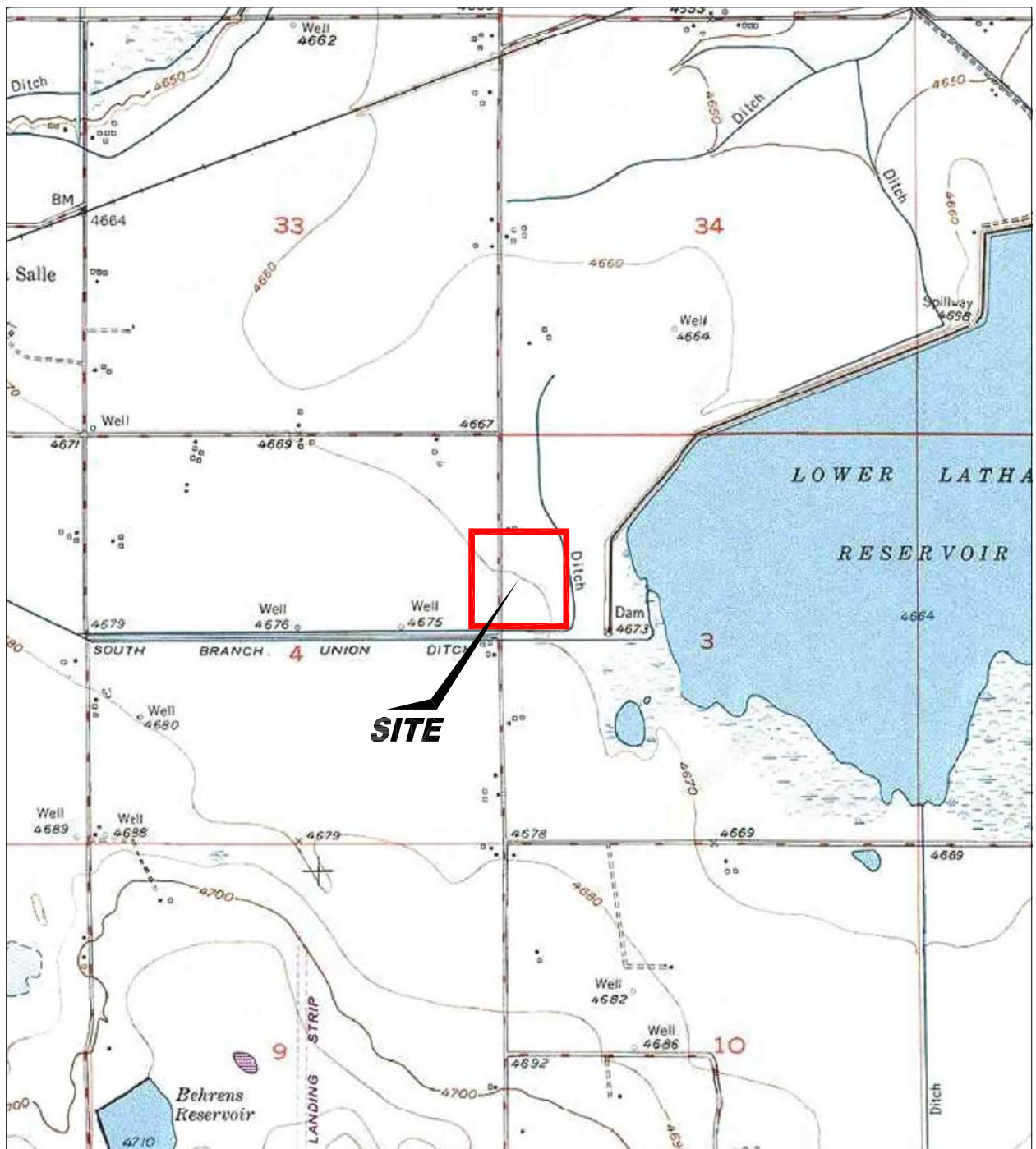
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-5	6/26/2013	<1.0	<1.0	<1.0	<1.0		2.69	94.34	0
	9/9/2013	<1.0	<1.0	<1.0	<1.0		1.61	95.42	0
	12/13/2013	<1.0	<1.0	<1.0	<1.0		2.53	94.50	0
	3/31/2014	<1.0	<1.0	<1.0	<1.0		3.29	93.74	0
	6/13/2014	480	<1.0	<1.0	<1.0		1.31	95.72	0
	9/2/2014	<1.0	<1.0	<1.0	<1.0		0.87	96.16	0
	12/9/2014	<1.0	<1.0	<1.0	<1.0		1.79	95.24	0
	3/12/2015	<1.0	<1.0	<1.0	<1.0		2.89	94.14	0
	6/9/2015	<1.0	<1.0	<1.0	<1.0		1.05	95.98	0
	9/28/2015	3.3	<1.0	<1.0	<1.0		too shallow	NM	0
	12/3/2015	<1.0	<1.0	<1.0	<1.0		1.48	95.55	0
	1/27/2016	<1.0	<1.0	<1.0	<1.0		2.18	94.85	0
	4/28/2016	23	<1.0	1.7	<1.0		1.49	95.54	0
	6/2/2016	130	<1.0	32	8.4		2.23	94.80	0
	7/27/2016	<1.0	<1.0	<1.0	<1.0		too shallow	NM	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		1.39	95.64	0
MW-6	9/1/2010	<1.0	<1.0	<1.0	2.69	97.17	1.89	95.28	0
	6/20/2011	20.9	<1.0	<1.0	<3.0		2.56	94.61	0
	7/27/2011	<1.0	<1.0	<1.0	<3.0		2.29	94.88	0
	9/23/2011	<1.0	<1.0	<1.0	<3.0		1.39	95.78	0
	12/19/2011	<1.0	<1.0	<1.0	<1.0		2.12	95.05	0
	3/8/2012	383	<1.0	<1.0	<1.0		3.02	94.15	0
	6/4/2012	1,052	<1.0	18.4	<1.0		2.91	94.26	0
	9/29/2012	445	1.5	<1.0	<1.0		2.91	94.26	0
	12/13/2012	<1.0	<1.0	<1.0	<1.0		2.93	94.24	0
	3/5/2013	<1.0	<1.0	<1.0	<1.0		3.26	93.91	0
	6/26/2013	7.7	<1.0	<1.0	<1.0		2.79	94.38	0
	7/3/2013	<1.0	<1.0	<1.0	<1.0		NM	NM	0
	9/9/2013	7.3	<1.0	<1.0	<1.0		1.78	95.39	0
	12/13/2013	<1.0	<1.0	<1.0	<1.0		2.63	94.54	0
	3/31/2014	1167	<1.0	<1.0	9		3.36	93.81	0
	6/13/2014	2558	<1.0	5.4	5.7		1.36	95.81	0
	9/2/2014	1445	2.4	12.9	15.1		0.82	96.35	0
	12/9/2014	<1.0	<1.0	<1.0	<1.0		1.88	95.29	0
	3/12/2015	1300	<1.0	2.6	<1.0		2.96	94.21	0
	6/9/2015	<1.0	<1.0	<1.0	24		1.14	96.03	0
	9/28/2015	<1.0	<1.0	<1.0	<1.0		too shallow	NM	0
	12/3/2015	<1.0	<1.0	<1.0	<1.0		1.57	95.60	0
	1/27/2016	<1.0	<1.0	<1.0	<1.0		2.26	94.91	0
	4/28/2016	150	<1.0	3.0	<1.0		1.56	95.61	0
	6/2/2016	620	<1.0	16	19		2.31	94.86	0
	7/27/2016	1200	<1.0	28	4.1		too shallow	NM	0
	10/19/2016	34	<1.0	<1.0	<1.0		1.38	95.79	0
MW-7	9/1/2010	<1.0	<1.0	<1.0	<2.0	97.18	1.71	95.47	0
	12/27/2010	<1.0	<1.0	<1.0	<1.0		2.79	94.39	0
	3/9/2011	367	<1.0	4.5	21.7		3.22	93.96	0
	3/24/2011	528	<1.0	16.6	67.7		NM	NM	0
	6/20/2011	5540	1.9	216	98.4		2.43	94.75	0
	7/27/2011	4830	1.2	279	91.1		2.18	95.00	0
	9/23/2011	4330	<1.0	248	5		1.32	95.86	0
	12/19/2011	6	<1.0	<1.0	<1.0		2.01	95.17	0
	3/8/2012	1673	<1.0	18.4	189		2.91	94.27	0
	6/4/2012	542	<1.0	12.3	<1.0		2.80	94.38	0
	9/29/2012	<1.0	<1.0	<1.0	<1.0		2.94	94.24	0
	12/13/2012	<1.0	<1.0	<1.0	<1.0		3.40	93.78	0
	3/5/2013	<1.0	<1.0	<1.0	<1.0		3.19	93.99	0
	6/26/2013	342	<1.0	<1.0	33.2		2.44	94.74	0
	7/3/2013	2.6	<1.0	<1.0	35.9		NM	NM	0
	9/9/2013	<1.0	<1.0	<1.0	<1.0		1.61	95.57	0
	12/13/2013	<1.0	<1.0	<1.0	<1.0		2.52	94.66	0
	3/31/2014	148	<1.0	94.4	169		3.21	93.97	0
	6/13/2014	818	<1.0	159	154		1.17	96.01	0
	9/2/2014	311	<1.0	15.3	23.4		0.74	96.44	0
	12/9/2014	<1.0	<1.0	<1.0	<1.0		1.78	95.40	0
	3/12/2015	1.0	<1.0	<1.0	<1.0		2.86	94.32	0

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-7	6/9/2015	<1.0	<1.0	<1.0	<1.0		1.10	96.08	0
	9/28/2015	21	<1.0	29	340		too shallow	NM	0
	12/3/2015	<1.0	<1.0	<1.0	20		1.44	95.74	0
	1/27/2016	5.2	<1.0	<1.0	38		2.21	94.97	0
	4/28/2016	1.6	<1.0	5.1	<1.0		1.51	95.67	0
	6/2/2016	<1.0	<1.0	<1.0	<1.0		2.25	94.93	0
	7/27/2016	<1.0	<1.0	<1.0	1.4		too shallow	NM	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		1.41	95.77	0
MW-8	9/1/2010	<1.0	<1.0	<1.0	<2.0	97.00	1.58	95.42	0
	12/27/2010	<1.0	<1.0	<1.0	<1.0		2.60	94.40	0
	3/9/2011	<1.0	<1.0	<1.0	<3.0		3.49	93.51	0
	6/20/2011	<1.0	<1.0	<1.0	<3.0		2.27	94.73	0
	7/27/2011	<1.0	<1.0	<1.0	<3.0		1.99	95.01	0
	9/23/2011	<1.0	<1.0	<1.0	<3.0		1.16	95.84	0
	12/19/2011	<1.0	<1.0	<1.0	<1.0		1.82	95.18	0
	3/8/2012	<1.0	<1.0	<1.0	<1.0		2.70	94.30	0
	6/4/2012	<1.0	<1.0	<1.0	<1.0		2.62	94.38	0
	9/29/2012	1.5	<1.0	<1.0	<1.0		2.66	94.34	0
	12/13/2012	<1.0	<1.0	<1.0	<1.0		2.45	94.55	0
	3/5/2013	<1.0	<1.0	<1.0	<1.0		2.92	94.08	0
	6/26/2013	12.8	<1.0	<1.0	1.6		2.41	94.59	0
	7/3/2013	30.4	<1.0	<1.0	3.6		NM	NM	0
	9/9/2013	<1.0	<1.0	<1.0	<1.0		1.47	95.53	0
	12/13/2013	<1.0	<1.0	<1.0	<1.0		2.34	94.66	0
	3/31/2014	<1.0	<1.0	<1.0	<1.0		3.23	93.77	0
	6/13/2014	<1.0	<1.0	<1.0	<1.0		0.98	96.02	0
	9/2/2014	<1.0	<1.0	<1.0	<1.0		0.54	96.46	0
	12/9/2014	<1.0	<1.0	<1.0	<1.0		1.56	95.44	0
	3/12/2015	<1.0	<1.0	<1.0	<1.0		2.65	94.35	0
	6/9/2015	<1.0	<1.0	<1.0	<1.0		< probe	NM	0
	9/28/2015	<1.0	<1.0	<1.0	<1.0		too shallow	NM	0
	12/3/2015	<1.0	<1.0	<1.0	<1.0		1.27	95.73	0
	1/27/2016	<1.0	<1.0	<1.0	<1.0		1.98	95.02	0
	4/28/2016	<1.0	<1.0	<1.0	<1.0		1.29	95.71	0
	6/2/2016	<1.0	<1.0	<1.0	<1.0		2.02	94.98	0
	7/27/2016	<1.0	<1.0	<1.0	<1.0		too shallow	NM	0
	10/19/2016	1.6	<1.0	<1.0	2.6		1.37	95.63	0
MW-9	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.57	2.35	97.22	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		2.87	96.70	0
MW-10	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.57	2.29	97.28	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		2.81	96.76	0
MW-11	7/27/2016	10	<1.0	<1.0	140	99.57	1.93	97.64	0
	10/19/2016	22	<1.0	12	110		2.44	97.13	0
MW-12	7/27/2016	<1.0	<1.0	<1.0	92	99.57	2.06	97.51	0
	10/19/2016	34	<1.0	50	520		2.57	97.00	0
MW-13	7/27/2016	<1.0	<1.0	<1.0	52	99.57	2.19	97.38	0
	10/19/2016	1.3	<1.0	<1.0	7.4		2.70	96.87	0
MW-14	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.57	2.53	97.04	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		3.04	96.53	0
MW-15	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.57	2.26	97.31	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		2.78	96.79	0
COGCC Table 910-1 Limits		5	560	700	1,400				

Values in bold exceed the COGCC concentrations

WD - Well Destroyed

NS - Not Sampled



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy
Romero Angelino 1,2
La Salle, Colorado

Project No.
C010-009

Prepared by

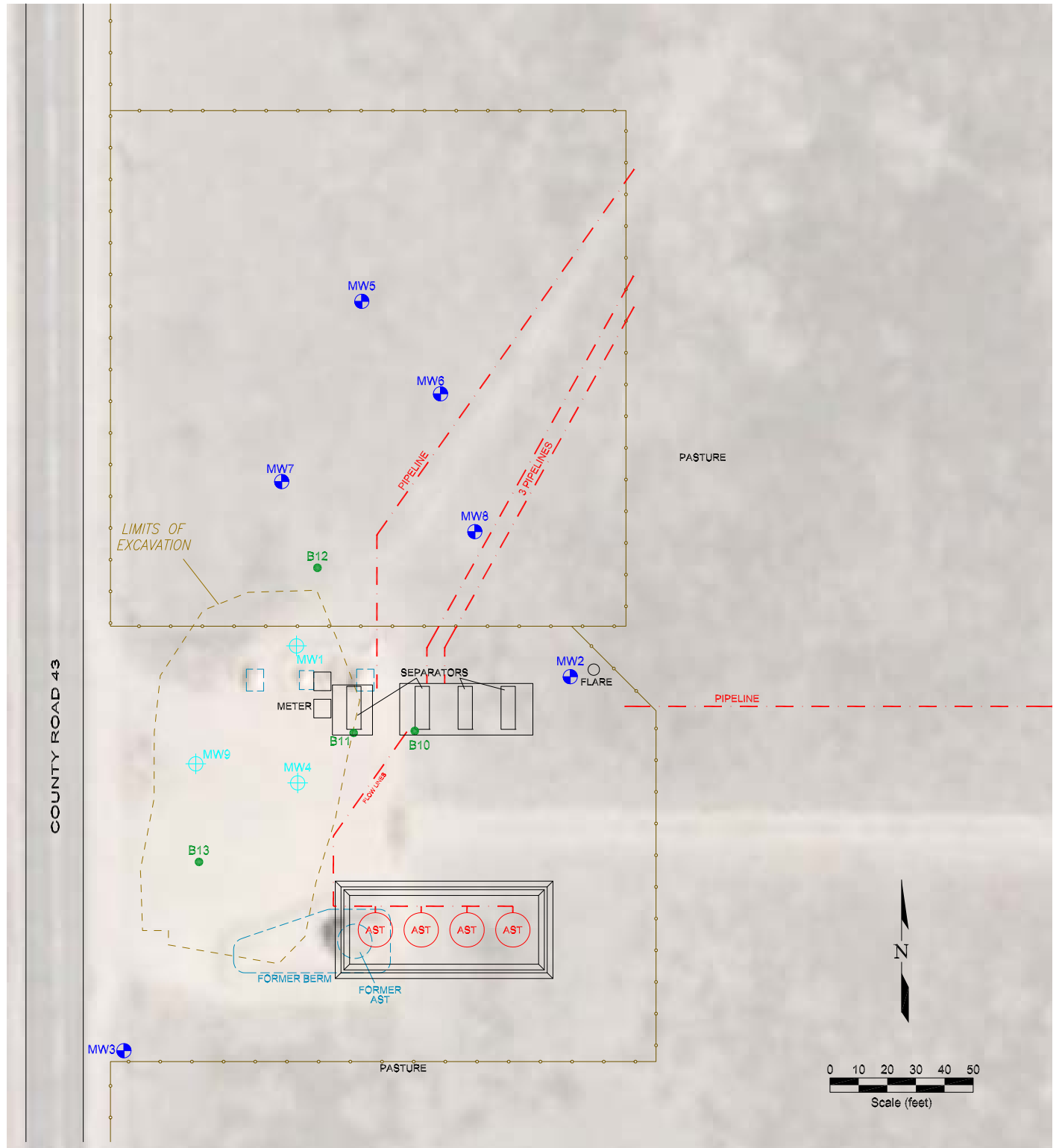
Drawn by
JMA

Date
9/15/10

Reviewed by

Filename
10009T





LEGEND








-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  SOIL BORING
-  FENCE LINE
-  PIPELINE
-  FORMER FACILITY
-  ABOVE GROUND STORAGE TANK

Figure 2 SITE MAP

Noble Energy
Romero Angelino 1,2
La Salle, Colorado

Project No.
C010-009

Prepared by

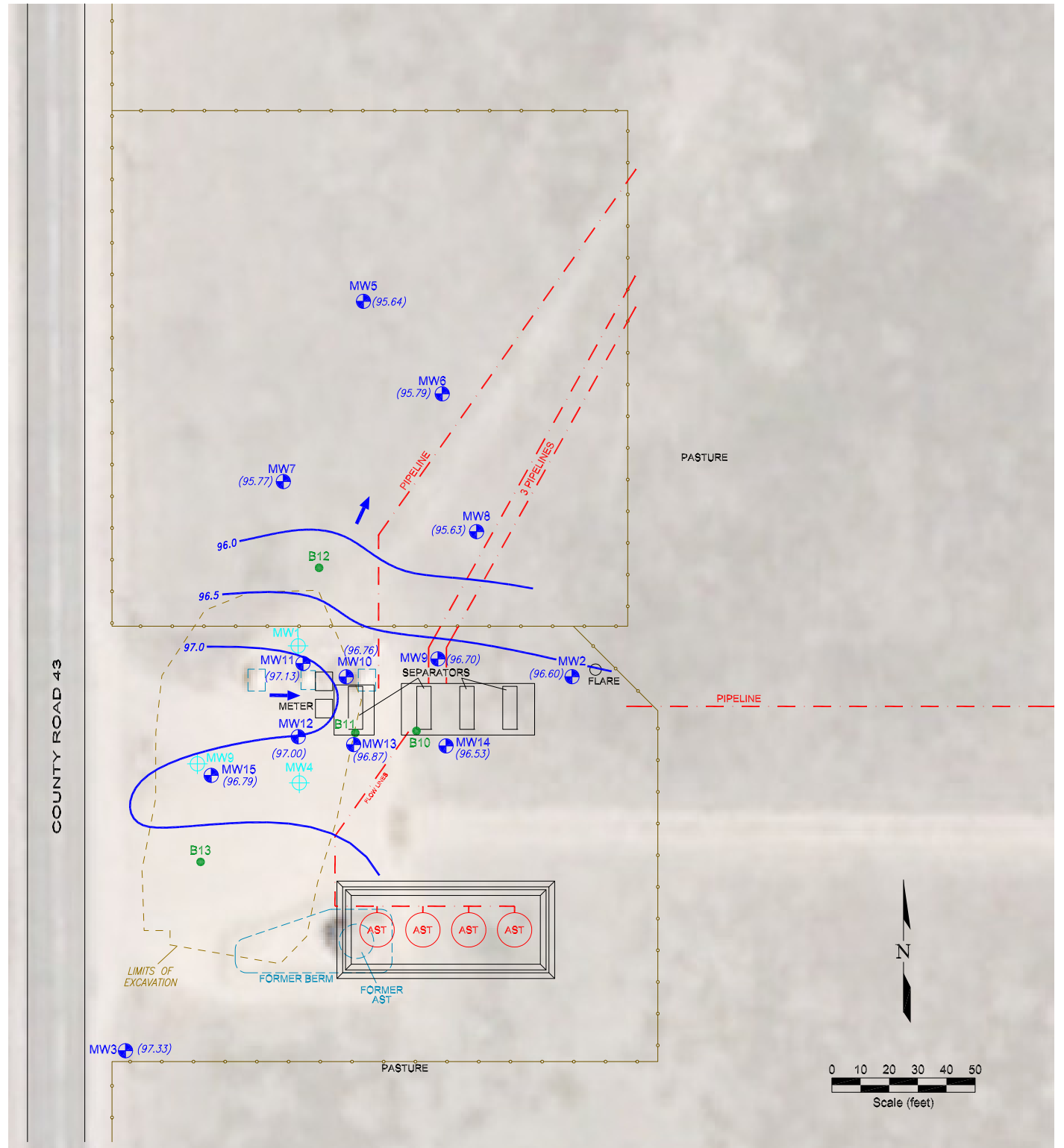
Drawn by
JMA

Date
12/19/13

Reviewed by

Filename
10009R





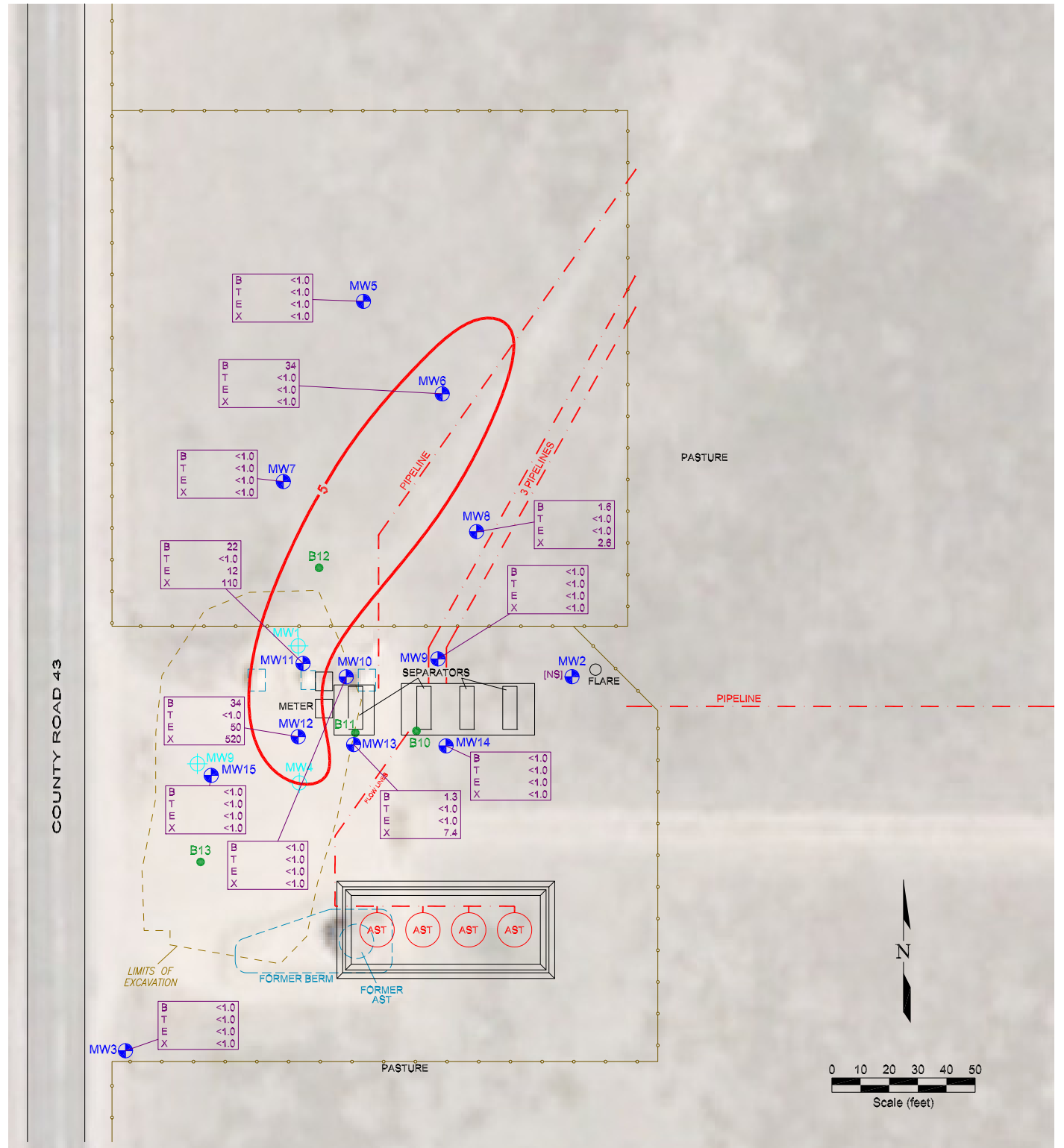
LEGEND

	MONITORING WELL	(95.42)	GROUND WATER ELEVATION (ft above arbitrary datum)
	DESTROYED MONITORING WELL	NW	NOT MEASURED
	SOIL BORING	94.5	WATER TABLE CONTOUR
	FENCE LINE		GROUND WATER FLOW DIRECTION
	PIPELINE		
	FORMER FACILITY		
	ABOVE GROUND STORAGE TANK		

Figure 3
INFERRED GROUNDWATER CONTOUR
OCTOBER 19, 2016

Noble Energy
Romero Angelino 1,2
La Salle, Colorado

Project No. C010-009	Prepared by JMA	Drawn by JMA	
Date 11/8/16	Reviewed by	Filename 10009R	



LEGEND

	MONITORING WELL	B	<1.0	BENZENE (ug/L)
	DESTROYED MONITORING WELL	T	<1.0	TOLUENE (ug/L)
	SOIL BORING	E	<1.0	ETHYLBENZENE (ug/L)
		X	<1.0	TOTAL XYLENES (ug/L)
		NF		NOT FOUND
		NS		NOT SAMPLED
	FENCE LINE			BENZENE ISOCONCENTRATION (ug/L)
	PIPELINE			
	FORMER FACILITY			
	ABOVE GROUND STORAGE TANK			

Figure 4
GROUND WATER CHEMISTRY MAP
OCTOBER 19, 2016

Noble Energy
Romero Angelino 1,2
La Salle, Colorado

Project No.
C010-009

Prepared by
JMA

Drawn by
JMA

Date
11/9/16

Reviewed by

Filename
10009R



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 26, 2016

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Romero

Enclosed are the results of analyses for samples received by Summit Scientific on 10/19/16 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: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW3	1610158-01	Water	10/19/16 00:00	10/19/16 16:00
MW5	1610158-02	Water	10/19/16 00:00	10/19/16 16:00
MW6	1610158-03	Water	10/19/16 00:00	10/19/16 16:00
MW7	1610158-04	Water	10/19/16 00:00	10/19/16 16:00
MW8	1610158-05	Water	10/19/16 00:00	10/19/16 16:00
MW9	1610158-06	Water	10/19/16 00:00	10/19/16 16:00
MW10	1610158-07	Water	10/19/16 00:00	10/19/16 16:00
MW11	1610158-08	Water	10/19/16 00:00	10/19/16 16:00
MW12	1610158-09	Water	10/19/16 00:00	10/19/16 16:00
MW13	1610158-10	Water	10/19/16 00:00	10/19/16 16:00
MW14	1610158-11	Water	10/19/16 00:00	10/19/16 16:00
MW15	1610158-12	Water	10/19/16 00:00	10/19/16 16:00

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Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

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741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9531 Fax

1610158.1

Client: Fremont Environmental *noble* Page 1 of 2
Address: 1630 S College Ave Project Manager: Paul Henehan
City/State/Zip: Fort Collins, CO 80525 E-Mail: paulh@fremontenv.com
Phone: (303) 956-8714 Fax: Project Name: *Noble - C010-009 (Jacob)*
Sampler Name: *MT* 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)	DRO	MBTEX	Table 910-1 Metals	pH / EC	SAR	PAH SIM		As Total
<i>mw3</i>	<i>10/19/16</i>		<i>2</i>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>							
<i>10-19-16 16:00</i>																			
<i>10-19-16 17:35</i>																			
Relinquished by: <i>[Signature]</i>	Date/Time: <i>10/19/16 16:00</i>	Received by: <i>[Signature]</i>		Date/Time: <i>10-19-16 16:00</i>		Turn Around Time (Check)		Notes:											
Relinquished by: <i>[Signature]</i>	Date/Time: <i>10-19-16 17:35</i>	Received by:		Date/Time:		Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>													
Relinquished by:	Date/Time:	Received in Lab by:		Date/Time:		24 Hours <input type="checkbox"/> Standard <input type="checkbox"/>													
						48 Hours <input type="checkbox"/>													
						Sample Integrity:													
						Temperature Upon Receipt: <i>20.5</i>													
						Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

Sample Receipt Checklist

S2 Work Order: 1610158

Client: Fremont - Noble Client Project ID: C015-009 (Jacob)

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

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

Cooler ID					
Temp (°C)	<u>20.5</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⁾ ?			X	
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⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	X			HCL
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⁾ ?			X	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

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

Muri P.
Custodian Printed Name

PA 10-19-16
Signature or Initials of Custodian

17:40
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW3
1610158-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610222	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		106 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	45-146		"	"	"	"	

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Project: Noble - Romero
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Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW5
1610158-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610222	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	45-146		"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Romero
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Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW6
1610158-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	34	1.0	ug/l	1	1610222	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>127 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>115 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW7
1610158-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	45-146		"	"	"	"	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW8
1610158-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.6	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	2.6	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

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1759 Redwing Lane
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Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW9
1610158-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

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Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW10
1610158-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146		"	"	"	"	

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Project: Noble - Romero
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Reported:
10/26/16 16:19

MW11
1610158-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	22	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	12	1.0	"	"	"	"	"	"	
Xylenes (total)	110	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	45-146		"	"	"	"	

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Reported:
10/26/16 16:19

MW12
1610158-09 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	34	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	50	1.0	"	"	"	"	"	"	
Xylenes (total)	520	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		104 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	45-146		"	"	"	"	

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Fremont Environmental
1759 Redwing Lane
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Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW13
1610158-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.3	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	7.4	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	45-146		"	"	"	"	

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Project: Noble - Romero
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Reported:
10/26/16 16:19

MW14
1610158-11 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

MW15
1610158-12 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1610223	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/19/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	45-146		"	"	"	"	

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1759 Redwing Lane
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Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

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 1610222 - EPA 5030 Water MS

Blank (1610222-BLK1)

Prepared & Analyzed: 10/21/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3	116	37-154				
Surrogate: Toluene-d8	14.2		"	13.3	107	45-149				
Surrogate: 4-Bromofluorobenzene	15.0		"	13.3	112	45-146				

LCS (1610222-BS1)

Prepared & Analyzed: 10/21/16

Benzene	28.6	1.0	ug/l	33.3	85.9	51-132				
Toluene	29.4	1.0	"	33.3	88.3	51-138				
Ethylbenzene	35.2	1.0	"	33.1	106	58-146				
m,p-Xylene	64.3	2.0	"	66.5	96.6	57-144				
o-Xylene	34.0	1.0	"	32.7	104	53-146				
Surrogate: 1,2-Dichloroethane-d4	16.5		"	13.3	124	37-154				
Surrogate: Toluene-d8	13.8		"	13.3	103	45-149				
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3	107	45-146				

Matrix Spike (1610222-MS1)

Source: 1610152-03

Prepared & Analyzed: 10/21/16

Benzene	28.2	1.0	ug/l	33.3	ND	84.6	34-141			
Toluene	29.1	1.0	"	33.3	ND	87.3	27-151			
Ethylbenzene	35.0	1.0	"	33.1	ND	106	29-160			
m,p-Xylene	63.8	2.0	"	66.5	ND	95.9	20-166			
o-Xylene	33.4	1.0	"	32.7	ND	102	33-159			
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3	123	37-154				
Surrogate: Toluene-d8	13.7		"	13.3	102	45-149				
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3	106	45-146				

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Romero
Project Number: C010-009
Project Manager: Paul Henehan

Reported:
10/26/16 16:19

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 1610222 - EPA 5030 Water MS

Matrix Spike Dup (1610222-MSD1)				Source: 1610152-03		Prepared & Analyzed: 10/21/16				
Benzene	28.3	1.0	ug/l	33.3	ND	84.9	34-141	0.354	32	
Toluene	28.7	1.0	"	33.3	ND	86.0	27-151	1.52	25	
Ethylbenzene	36.6	1.0	"	33.1	ND	111	29-160	4.44	50	
m,p-Xylene	66.1	2.0	"	66.5	ND	99.4	20-166	3.60	36	
o-Xylene	34.1	1.0	"	32.7	ND	104	33-159	1.93	26	
Surrogate: 1,2-Dichloroethane-d4	17.9		"	13.3		135	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		110	45-146			

Batch 1610223 - EPA 5030 Water MS

Blank (1610223-BLK1)				Prepared & Analyzed: 10/21/16						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		108	37-154			
Surrogate: Toluene-d8	12.5		"	13.3		94.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	45-146			

LCS (1610223-BS1)				Prepared & Analyzed: 10/21/16						
Benzene	36.0	1.0	ug/l	33.3		108	51-132			
Toluene	36.5	1.0	"	33.3		110	51-138			
Ethylbenzene	39.6	1.0	"	33.1		120	58-146			
m,p-Xylene	69.9	2.0	"	66.5		105	57-144			
o-Xylene	37.2	1.0	"	32.7		114	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	45-146			

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10/26/16 16:19

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 1610223 - EPA 5030 Water MS

Matrix Spike (1610223-MS1)		Source: 1610158-04			Prepared & Analyzed: 10/21/16					
Benzene	37.4	1.0	ug/l	33.3	ND	112	34-141			
Toluene	37.9	1.0	"	33.3	ND	114	27-151			
Ethylbenzene	41.6	1.0	"	33.1	ND	126	29-160			
m,p-Xylene	73.9	2.0	"	66.5	ND	111	20-166			
o-Xylene	39.1	1.0	"	32.7	ND	120	33-159			
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			
Matrix Spike Dup (1610223-MSD1)		Source: 1610158-04			Prepared & Analyzed: 10/21/16					
Benzene	38.0	1.0	ug/l	33.3	ND	114	34-141	1.75	32	
Toluene	38.4	1.0	"	33.3	ND	115	27-151	1.21	25	
Ethylbenzene	43.1	1.0	"	33.1	ND	130	29-160	3.49	50	
m,p-Xylene	76.4	2.0	"	66.5	ND	115	20-166	3.32	36	
o-Xylene	40.0	1.0	"	32.7	ND	122	33-159	2.12	26	
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.1	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