

# **FREMONT ENVIRONMENTAL INC.**

October 19, 2018

Mr. Jacob Evans  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:     **Ground Water Data Submittal**  
                Romero Angelina 1,2  
                SWNW Sec. 3 T4N R65W  
                API # 05-123-12728,  
                Facility #323216, Remediation # 5350  
                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 6/20/2011	9430 WD	2010 WD	532 WD	7610 WD	99.33 WD	3.74 WD	95.59 WD	0 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
	1/18/2017	NS	NS	NS	NS		4.63	94.50	0
	4/5/2017	NS	NS	NS	NS		4.67	94.46	0
	4/26/2017	NS	NS	NS	NS		3.08	96.05	0
	10/13/2017	NS	NS	NS	NS		2.92	96.21	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.29	94.84	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		4.90	94.23	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		3.85	95.28	0
	10/4/2018	NS	NS	NS	NS		3.38	95.75	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

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-3	3/5/2013	<1.0	<1.0	<1.0	<1.0	100.00	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
	1/18/2017	<1.0	<1.0	<1.0	<1.0		4.77	95.23	0
	4/5/2017	<1.0	<1.0	<1.0	<1.0		4.80	95.20	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		3.19	96.81	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		3.01	96.99	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.60	95.40	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		5.20	94.80	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		4.15	95.85	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		3.73	96.27	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
	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

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	6/9/2015	<1.0	<1.0	<1.0	<1.0	97.03	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
	1/18/2017	<1.0	<1.0	<1.0	<1.0		3.50	93.53	0
	4/5/2017	<1.0	<1.0	<1.0	<1.0		3.53	93.50	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		1.91	95.12	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		1.71	95.32	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		2.48	94.55	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		3.19	93.84	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		2.10	94.93	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		1.58	95.45	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
	1/18/2017	<1.0	<1.0	<1.0	100		3.49	93.68	0
	4/5/2017	1000	<1.0	79	220		3.53	93.64	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		1.90	95.27	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		1.71	95.46	0

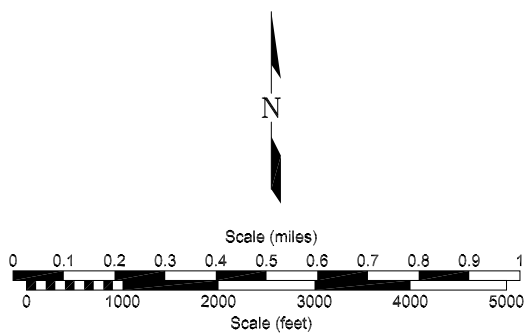
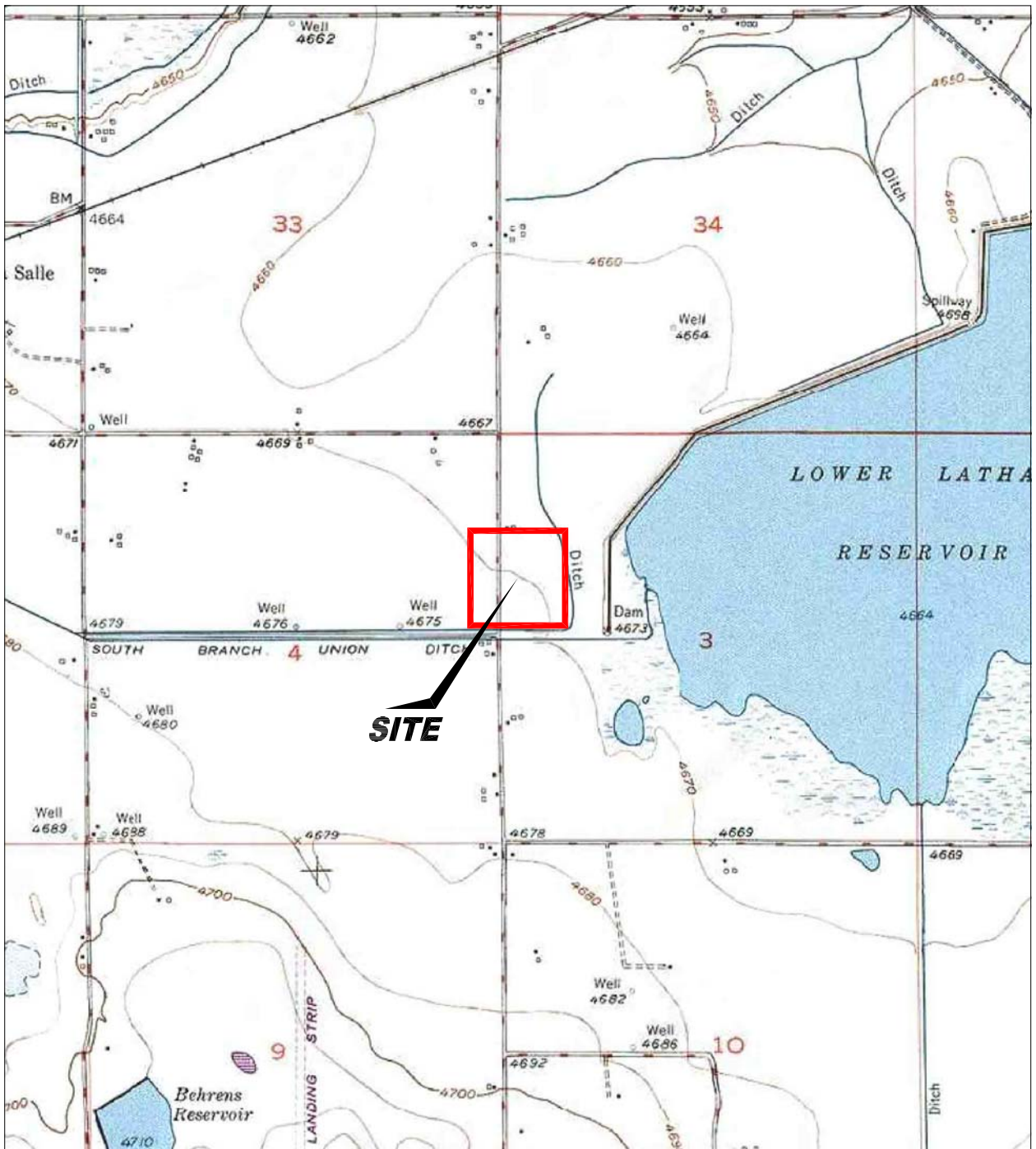
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-6	1/12/2018	<1.0	<1.0	<1.0	<1.0	97.17	2.56	94.61	0
	4/25/2018	160	<1.0	<1.0	<2.0		3.25	93.92	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		2.20	94.97	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		1.68	95.49	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
	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	<2.0		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
	1/18/2017	11	<1.0	<1.0	<1.0		3.51	93.67	0
	4/5/2017	2.1	<1.0	<1.0	<1.0		3.55	93.63	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		1.95	95.23	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		1.75	95.43	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		2.47	94.71	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		3.16	94.02	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		2.05	95.13	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		1.57	95.61	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

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-8	7/27/2011	<1.0	<1.0	<1.0	<3.0	97.00	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
	1/18/2017	<1.0	<1.0	<1.0	<1.0		3.46	93.54	0
	4/5/2017	<1.0	<1.0	<1.0	<1.0		3.49	93.51	0
	7/26/2017	<1.0	<1.0	<1.0	2.3		1.81	95.19	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		1.65	95.35	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		2.29	94.71	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		2.92	94.08	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		1.87	95.13	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		1.40	95.60	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
	1/18/2017	24	<1.0	6.4	61		4.97	94.60	0
	4/5/2017	<1.0	<1.0	33	110		5.02	94.55	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		3.40	96.17	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		3.24	96.33	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.60	94.97	0
	4/25/2018	<1.0	<1.0	4.0	<2.0		5.26	94.31	0
	7/13/2018	<1.0	<1.0	4.0	<2.0		5.26	94.31	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		3.70	95.87	0
MW-10	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.58	2.29	97.29	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		2.81	96.77	0
	1/18/2017	<1.0	<1.0	<1.0	<1.0		4.92	94.66	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-10	4/5/2017	1.7	<1.0	<1.0	<1.0	99.58	4.97	94.61	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		3.34	96.24	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		3.19	96.39	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.55	95.03	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		5.20	94.38	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		4.11	95.47	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		3.62	95.96	0
MW-11	7/27/2016	10	<1.0	<1.0	140	99.33	1.93	97.40	0
	10/19/2016	22	<1.0	12	110		2.44	96.89	0
	1/18/2017	<1.0	<1.0	<1.0	<1.0		4.54	94.79	0
	4/5/2017	22	<1.0	1.0	35		4.58	94.75	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		2.95	96.38	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		2.77	96.56	0
	1/12/2018	4.6	<1.0	<1.0	910		4.22	95.11	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		4.90	94.43	0
	7/13/2018	2.3	<1.0	18	880		3.76	95.57	0
	10/4/2018	8.7	<1.0	180	380		3.29	96.04	0
MW-12	7/27/2016	<1.0	<1.0	<1.0	92	99.37	2.06	97.31	0
	10/19/2016	34	<1.0	50	520		2.57	96.80	0
	1/18/2017	4.5	<1.0	24	240		4.68	94.69	0
	4/5/2017	<1.0	<1.0	<1.0	<1.0		4.72	94.65	0
	7/26/2017	14	<1.0	13	61		3.08	96.29	0
	10/13/2017	1.5	<1.0	<1.0	7.3		2.91	96.46	0
	1/12/2018	1.0	<1.0	32	330		4.34	95.03	0
	4/25/2018	11	<1.0	66	220		5.00	94.37	0
	7/13/2018	1.1	<1.0	<1.0	<2.0		3.89	95.48	0
	10/4/2018	5.4	<1.0	36	240		3.39	95.98	0
MW-13	7/27/2016	<1.0	<1.0	<1.0	52	99.56	2.19	97.37	0
	10/19/2016	1.3	<1.0	<1.0	7.4		2.70	96.86	0
	1/18/2017	<1.0	<1.0	<1.0	<1.0		4.82	94.74	0
	4/5/2017	<1.0	<1.0	3.0	2.3		4.87	94.69	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		3.21	96.35	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		3.03	96.53	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.46	95.10	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		5.10	94.46	0
	7/13/2018	<1.0	<1.0	<1.0	<2.0		4.03	95.53	0
	10/4/2018	<1.0	<1.0	<1.0	<2.0		3.54	96.02	0
MW-14	7/27/2016	<1.0	<1.0	<1.0	<1.0	99.74	2.53	97.21	0
	10/19/2016	<1.0	<1.0	<1.0	<1.0		3.04	96.70	0
	1/18/2017	<1.0	<1.0	<1.0	<1.0		5.15	94.59	0
	4/5/2017	<1.0	<1.0	<1.0	<1.0		5.19	94.55	0
	7/26/2017	<1.0	<1.0	<1.0	<1.0		3.55	96.19	0
	10/13/2017	<1.0	<1.0	<1.0	<1.0		3.38	96.36	0
	1/12/2018	<1.0	<1.0	<1.0	<1.0		4.79	94.95	0
	4/25/2018	<1.0	<1.0	<1.0	<2.0		5.41	94.33	0

[illegible]





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

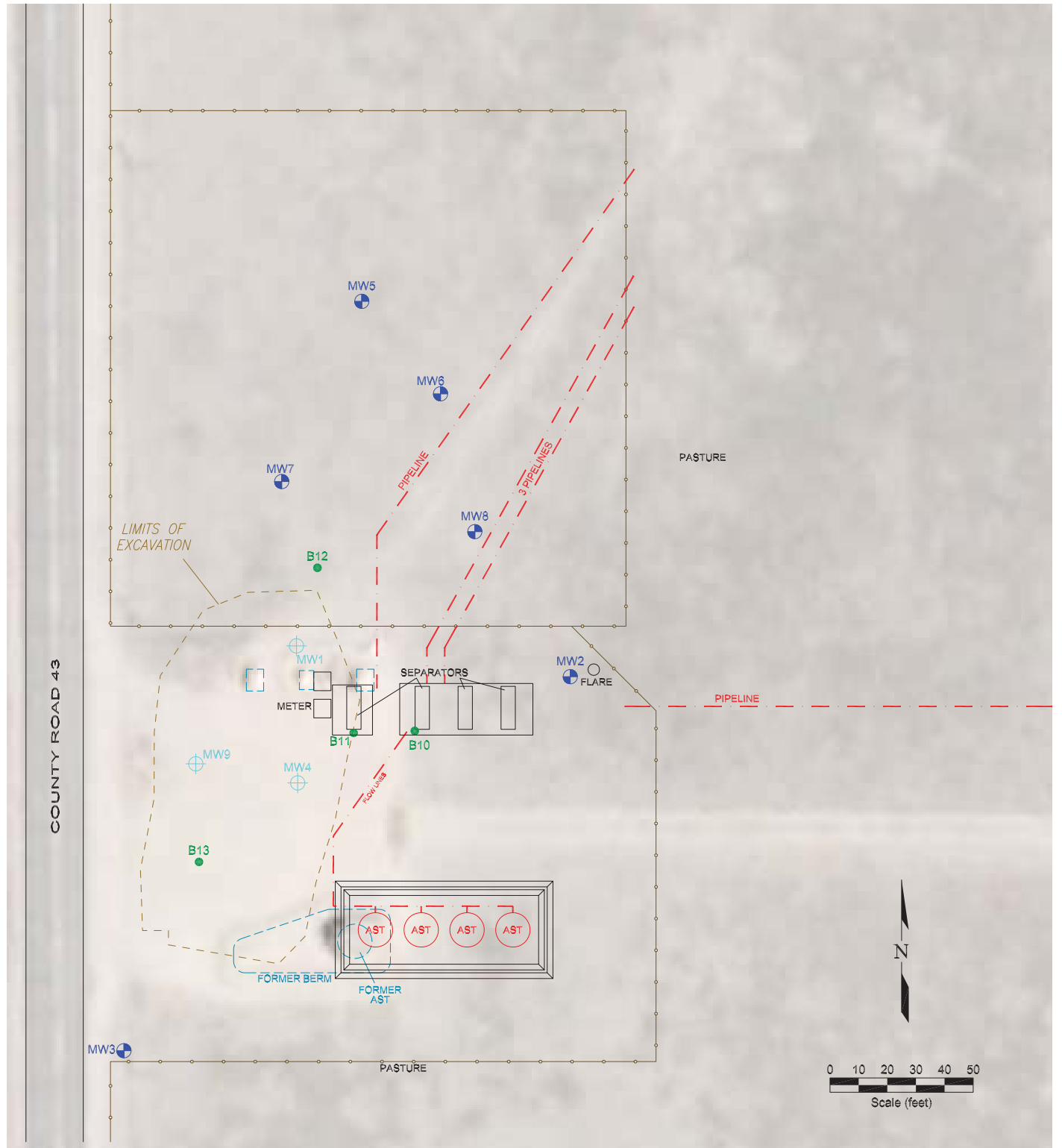
Drawn by  
JMA

Date  
9/15/10








Reviewed by

Filename  
10009T






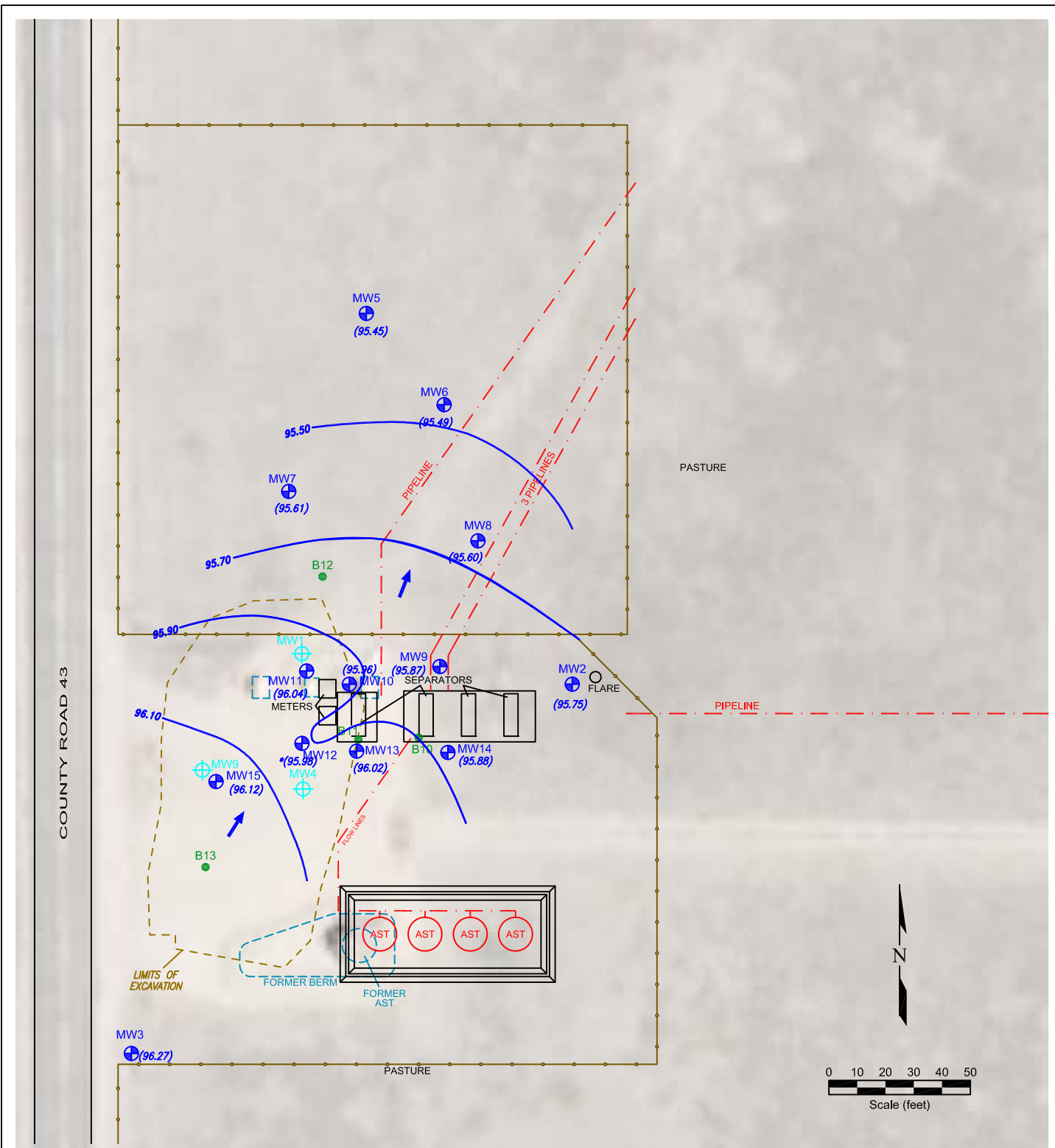
#### LEGEND

-  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. <b>C010-009</b>	Prepared by <b>JMA</b>	Drawn by <b>JMA</b>	
Date <b>12/19/13</b>	Reviewed by	Filename <b>10009R</b>	



#### LEGEND

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

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 October 4, 2018

**Noble Energy**  
 Romero Angelino 1,2  
 La Salle, Colorado

Project No.  
**C010-009**

Prepared by  
**TDA**

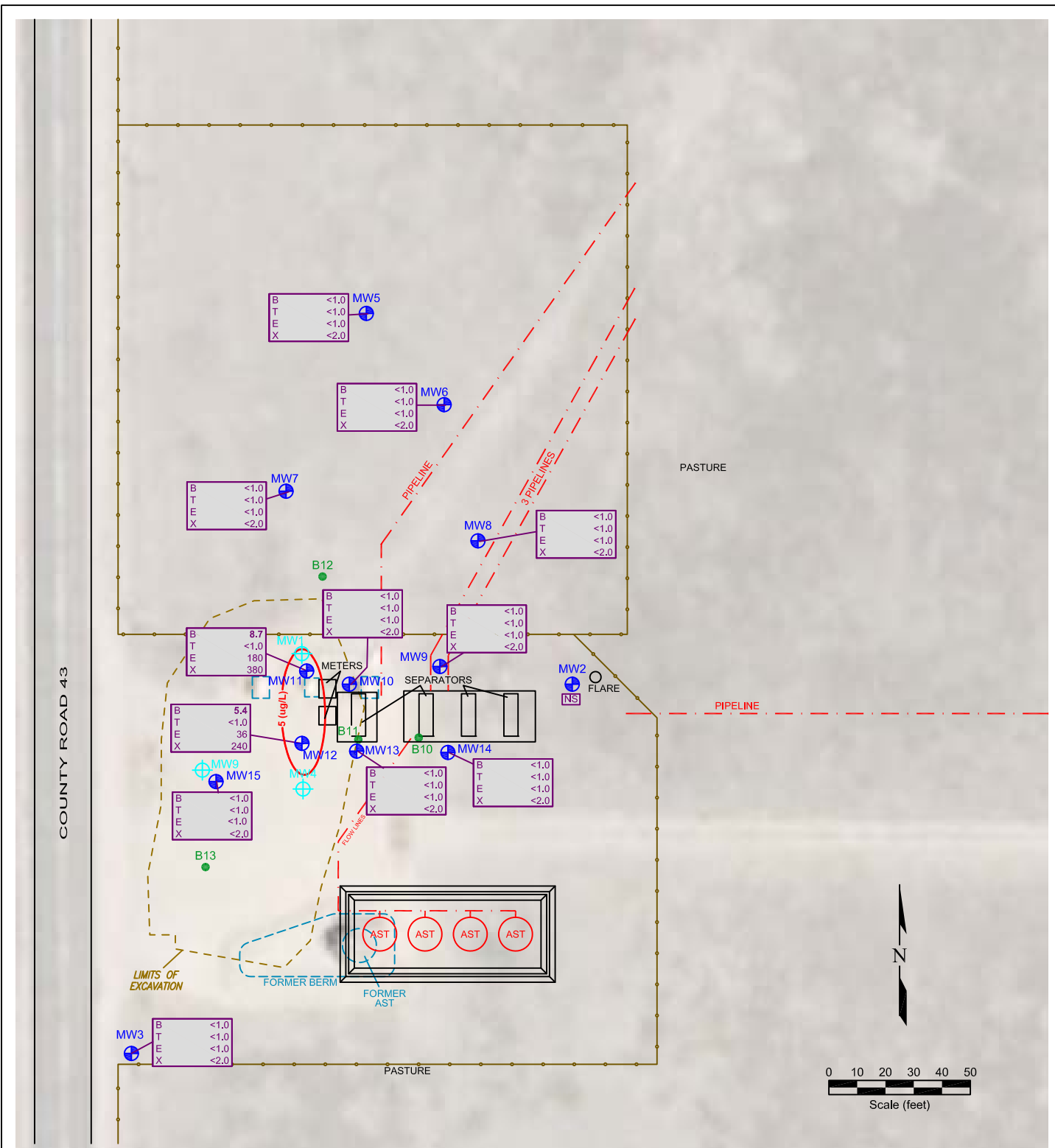
Drawn by  
**JMA**

Date  
**10/18/18**

Reviewed by  
**EB**

Filename  
**10009R**





#### LEGEND










	MONITORING WELL	<table><tr><td>B</td><td>&lt;1.0</td></tr><tr><td>T</td><td>&lt;1.0</td></tr><tr><td>E</td><td>&lt;1.0</td></tr><tr><td>X</td><td>&lt;1.0</td></tr></table>	B	<1.0	T	<1.0	E	<1.0	X	<1.0	BENZENE (ug/L) TOLUENE (ug/L) ETHYLBENZENE (ug/L) TOTAL XYLENES (ug/L)
B	<1.0										
T	<1.0										
E	<1.0										
X	<1.0										
	DESTROYED MONITORING WELL										
	SOIL BORING										
			NOT SAMPLED								
			BENZENE ISOCONCENTRATION (ug/L)								
	FENCE LINE										
	PIPELINE										
	FORMER FACILITY										
	ABOVE GROUND STORAGE TANK										

Figure 4  
**GROUND WATER CHEMISTRY &  
 BENZENE ISOCONCENTRATION MAP**  
 October 4, 2018  
 Noble Energy  
 Romero Angelino 1,2  
 La Salle, Colorado

Project No.  
**C010-009**

Prepared by  
**TDA**

Drawn by  
**JMA**

Date  
**10/18/18**

Reviewed by  
**EB**

Filename  
**10009R**



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 09, 2018

Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Romero #1

Enclosed are the results of analyses for samples received by Summit Scientific on 10/04/18 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury  
Laboratory Manager



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3	1810081-01	Water	10/04/18 00:00	10/04/18 16:50
5	1810081-02	Water	10/04/18 00:00	10/04/18 16:50
6	1810081-03	Water	10/04/18 00:00	10/04/18 16:50
7	1810081-04	Water	10/04/18 00:00	10/04/18 16:50
8	1810081-05	Water	10/04/18 00:00	10/04/18 16:50
9	1810081-06	Water	10/04/18 00:00	10/04/18 16:50
10	1810081-07	Water	10/04/18 00:00	10/04/18 16:50
11	1810081-08	Water	10/04/18 00:00	10/04/18 16:50
12	1810081-09	Water	10/04/18 00:00	10/04/18 16:50
13	1810081-10	Water	10/04/18 00:00	10/04/18 16:50
14	1810081-11	Water	10/04/18 00:00	10/04/18 16:50
15	1810081-12	Water	10/04/18 00:00	10/04/18 16:50

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.*

1810081.1

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: Noble Jacob

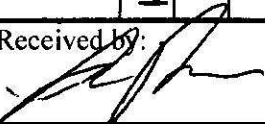
Phone: 303-956-8714

Project Name: Noble - Romero #1

Sampler Name: Ethan Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GNBTEX	DRO	pH, EC	SAR	BTEX			
1	3	10/4/18		2			X		X								X			
2	5																			
3	6																			
4	7																			
5	8																			
6	9																			
7	10																			
8	11																			
9	12																			
10	13																			

Relinquished by: Ethan Black	Date/Time: 10/4/18 1650	Received by: 	Date/Time: 10.4.18 1650	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 19.6° Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

1810081.2

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

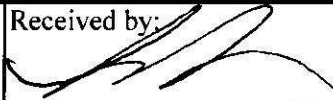
Phone: 303-956-8714

Project Name: Noble - Romero #1

Sampler Name: Ethan Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GNBTEX	DRO	pH, EC	SAR	BTEX		
1	14	10/4/18		2			X		X										
2	15	1		1			1		1										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: Ethan Black	Date/Time: 10/4/18 1650	Received by: 	Date/Time: 10.4.18 1650	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 19.6° Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		



10.4.18 1815  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**3**

**1810081-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		122 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

5

1810081-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

6

1810081-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

7

**1810081-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**8**

**1810081-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

9

1810081-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: 10/04/18 00:00

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**10**  
**1810081-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	21-167		"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**11**  
**1810081-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>8.7</b>	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>180</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>380</b>	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	21-167		"	"	"	"	

Summit Scientific

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Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**12**  
**1810081-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>5.4</b>	1.0		ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>36</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>240</b>	2.0		"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		136 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %		21-167		"	"	"	"	

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Project: Noble - Romero #1

Project Number: C010-009

Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**13**  
**1810081-10 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %	21-167		"	"	"	"	

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Project: Noble - Romero #1

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Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**14**  
**1810081-11 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**15**  
**1810081-12 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810093	10/05/18	10/07/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/04/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Summit Scientific

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Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

## 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 1810093 - EPA 5030 Water MS

##### Blank (1810093-BLK1)

Prepared: 10/05/18 Analyzed: 10/07/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.2		113	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

##### LCS (1810093-BS1)

Prepared: 10/05/18 Analyzed: 10/07/18

Benzene	26.9	1.0	ug/l	33.3		80.7	70-130			
Toluene	28.0	1.0	"	33.3		84.2	70-130			
Ethylbenzene	36.0	1.0	"	33.3		108	70-130			
m,p-Xylene	68.0	2.0	"	66.7		102	70-130			
o-Xylene	30.6	1.0	"	33.3		91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.2		118	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	21-167			

##### Matrix Spike (1810093-MS1)

Source: 1810081-01

Prepared: 10/05/18 Analyzed: 10/07/18

Benzene	27.6	1.0	ug/l	33.3	ND	83.0	70-130			
Toluene	29.0	1.0	"	33.3	ND	86.9	70-130			
Ethylbenzene	36.4	1.0	"	33.3	ND	109	70-130			
m,p-Xylene	69.4	2.0	"	66.7	ND	104	70-130			
o-Xylene	30.6	1.0	"	33.3	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.9		"	13.2		121	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

Summit Scientific

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Project: Noble - Romero #1

Project Number: C010-009  
Project Manager: Paul Henehan

**Reported:**  
10/09/18 07:50

**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 1810093 - EPA 5030 Water MS**

Matrix Spike Dup (1810093-MSD1)		Source: 1810081-01			Prepared: 10/05/18 Analyzed: 10/07/18					
Benzene	26.8	1.0	ug/l	33.3	ND	80.3	70-130	3.20	30	
Toluene	27.7	1.0	"	33.3	ND	83.2	70-130	4.37	30	
Ethylbenzene	35.5	1.0	"	33.3	ND	107	70-130	2.31	30	
m,p-Xylene	66.7	2.0	"	66.7	ND	100	70-130	4.03	30	
o-Xylene	30.3	1.0	"	33.3	ND	90.8	70-130	1.08	30	
Surrogate: 1,2-Dichloroethane-d4	16.9		"	13.2		128	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3		107	21-167			

Summit Scientific

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**Reported:**  
10/09/18 07:50

### 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