



July 9, 2009

Mr. Mike Cox
Environmental Coordinator
Noble Energy, Inc.
804 Grand Avenue
Platteville, Colorado 80651

**RE: Second Quarter 2009 Remediation and Monitoring Report
Frick 18 – 2 & 8 Natural Gas Wellhead Site
Weld County, Colorado**

Dear Mr. Cox:

LT Environmental, Inc. (LTE) was retained by Noble Energy, Inc. (Noble) to conduct corrective actions at the Frick 18 – 2 & 8 natural gas wellhead site (Site) located approximately 0.4 miles north of the intersection of Weld County Road (WCR) 44 and WCR 51 in Weld County, Colorado (Figure 1). LTE, on behalf of Noble, has completed remediation system design, installation, startup, and operation and maintenance (O&M) of the air sparging/soil vapor extraction (AS/SVE) system. LTE is continuing to conduct groundwater monitoring at the Site to evaluate the performance of the remediation system in mitigating groundwater impact. This correspondence is provided as the Second Quarter 2009 Remediation and Monitoring Report, and summarizes activities conducted at the Site from April 1, 2009 through June 30, 2009. Activities conducted during the reporting period included operations and maintenance of the remediation system and a quarterly groundwater monitoring event.

Remediation System Description

The AS system is designed to introduce ambient air into the subsurface water column for dissolved hydrocarbon volatilization and to promote aerobic microbial decomposition of petroleum constituents. The SVE system is designed to volatilize petroleum constituents adsorbed onto soil particles and to remove petroleum vapors released from the groundwater by the AS process. AS and SVE wells are connected to a remediation equipment trailer housing the equipment for the AS/SVE system. The remediation system installation was described in the previously submitted report, *Remediation System Installation and Startup, and Pre-System Groundwater Sampling Results*, dated September 11, 2008. The remediation system began operation at the Site on August 8, 2008. The system layout is illustrated on Figures 2 and 3.



Remediation System Operation and Maintenance

O&M activities conducted in the reporting period included:

- Completion of routine, weekly, monthly, and quarterly O&M checks to monitor and adjust system performance;
- Installation of generator timer for run time control;
- Generator maintenance, which included changing the oil and oil filters; and
- System transport to another Noble facility (Becky 2-6 wellhead and tank battery) on June 10, 2009.

The remediation program for this Site includes continued intermittent operation of the AS/SVE system. The system runs intermittently, and on a pulsing/cycling schedule, to maximize remediation efforts. Operation of the remediation system is conducted continuously for an approximate three month period, followed by a three month static evaluation with the remediation system inactive. This program will allow for focused removal of hydrocarbon impact along with static evaluations to determine which areas of the Site may require continued operational adjustments. The SVE system was not utilized during the operating period due to high water table conditions, excess water recovery, and potential for freezing in the above ground recovery lines. The generator timer was added to the remediation system following the landowner request, to allow system operation only during daylight hours.

Groundwater Sampling Procedures

On May 26 and 28, 2009, 11 groundwater monitoring wells were sampled to determine the current plume extent following three months of active site remediation. Monitoring well SB16 was not sampled as the ground was saturated with surface water in that area. Prior to sampling, depth to groundwater in each monitoring well was measured and recorded for calculating purge volumes (Table 1). Each well was purged of three casing volumes and then groundwater samples were collected from the well points by advancing disposable 3/16-inch diameter polyethylene tubing inside 1-inch diameter polyvinyl chloride (PVC) casing and extending the 3/16-inch diameter tubing below the water table. A peristaltic pump was utilized to bring the groundwater to the surface for collection with laboratory prepared sample bottles. Groundwater samples were collected in 40-milliliter vials, placed on ice, and delivered under chain-of-custody (COC) protocol to Origins Laboratory located in Denver, Colorado. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B.



Hydrogeology

During the May 26 and 28, 2009 sampling event, the depth to static groundwater ranged from 0.10 feet below top of casing (btoc) in SB09 to 3.00 feet btoc in SB20 (Table 1). The groundwater flow direction was to the east with an average hydraulic gradient of approximately 0.011 feet per foot (ft/ft).

Groundwater Analytical Results

The Colorado Department of Public Health and Environmental (CDPHE) Water Quality Control Commission (WQCC) has established Regulation 41 - The Basic Standards for Groundwater (Regulation 41) for BTEX of 5.0 micrograms per liter (ug/L), 560 ug/L, 700 ug/L, and 1,400 ug/L, respectively. Table 2 summarizes groundwater analytical results for samples collected during all monitoring events. The laboratory analytical report, laboratory quality assurance/quality control data, and COC documentation are presented in Attachment 1.

Eleven groundwater samples were collected and submitted to Origins Laboratory for BTEX analysis during the May 26 and 28, 2009 sampling event (MW01, MW02, SB02R, SB03, SB07, SB09, SB10R, SB15, SB18R, SB20, and SB27). Groundwater analytical results indicate that benzene was detected above the Regulation 41 standard for benzene in monitoring wells MW01, MW02, SB02R, SB10R, and SB27 at concentrations ranging from 11.1 ug/L at SB27 to 9,680 ug/L at MW01. BTEX compounds were not detected above the Regulation 41 standards in the remaining samples. Groundwater analytical results for the May 2009 sampling event are summarized in Table 2 and illustrated on Figure 4.

Summary and Conclusions

Since system startup, benzene concentrations in monitoring wells SB07, SB09, SB18/18R, and SB20 have successfully decreased into compliance with the Regulation 41 standard. These data indicate that cleanup objectives have been attained for these areas. In addition, BTEX concentrations are exhibiting a stable and decreasing trend site-wide. Flow controls installed in March 2009 have allowed for a more focused and efficient remedial effort onsite. Remaining areas of the Site exhibiting benzene groundwater concentrations above cleanup goals are in the vicinity of MW01, MW02, SB02R, SB10R, SB16, and SB27. In order to achieve cleanup goals, continued remediation system operation is recommended with concentrated efforts in areas of the Site in which elevated concentrations of benzene are still present (Table 2).

The next groundwater sampling event will be conducted in August 2009. The remediation system has been mobilized to another Noble site to allow static evaluation at the Site from June to August 2009. Groundwater monitoring will continue to be conducted at the Site on a quarterly basis until site closure status is received from the Colorado Oil and Gas Conservation Commission (COGCC).



LTE appreciates the opportunity to provide environmental services to Noble. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads "Rob Rebel".

Rob Rebel, E.I.T.
Project Manager

A handwritten signature in black ink that reads "Steve Kahn".

Steve Kahn, P.E.
Senior Engineer

Attachments

Figure 1: Site Map

Figure 2: AS System Layout

Figure 3: SVE System Layout

Figure 4: Groundwater Analytical Results – May 26 and 28, 2009

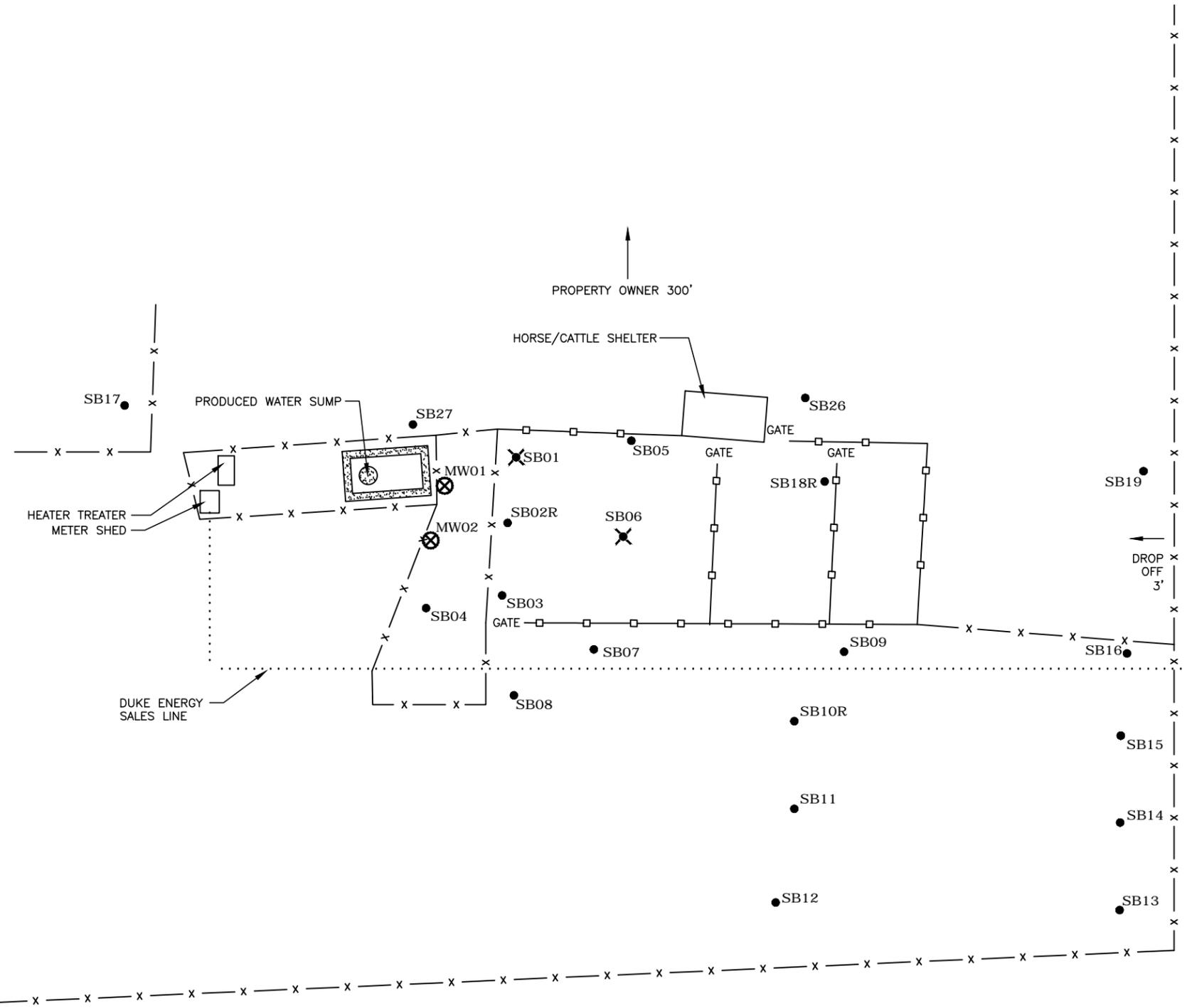
Table 1: Groundwater Elevation Summary

Table 2: Groundwater Analytical Results – Volatile Organic Compounds

Attachment 1: Laboratory Analytical Report

FIGURES





LEGEND

- MW01 MONITORING WELL LOCATION
- SB03 SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- METAL PIPE FENCE
- BARBED WIRE FENCE
- BERM

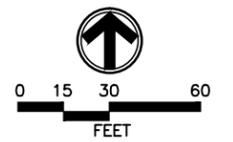
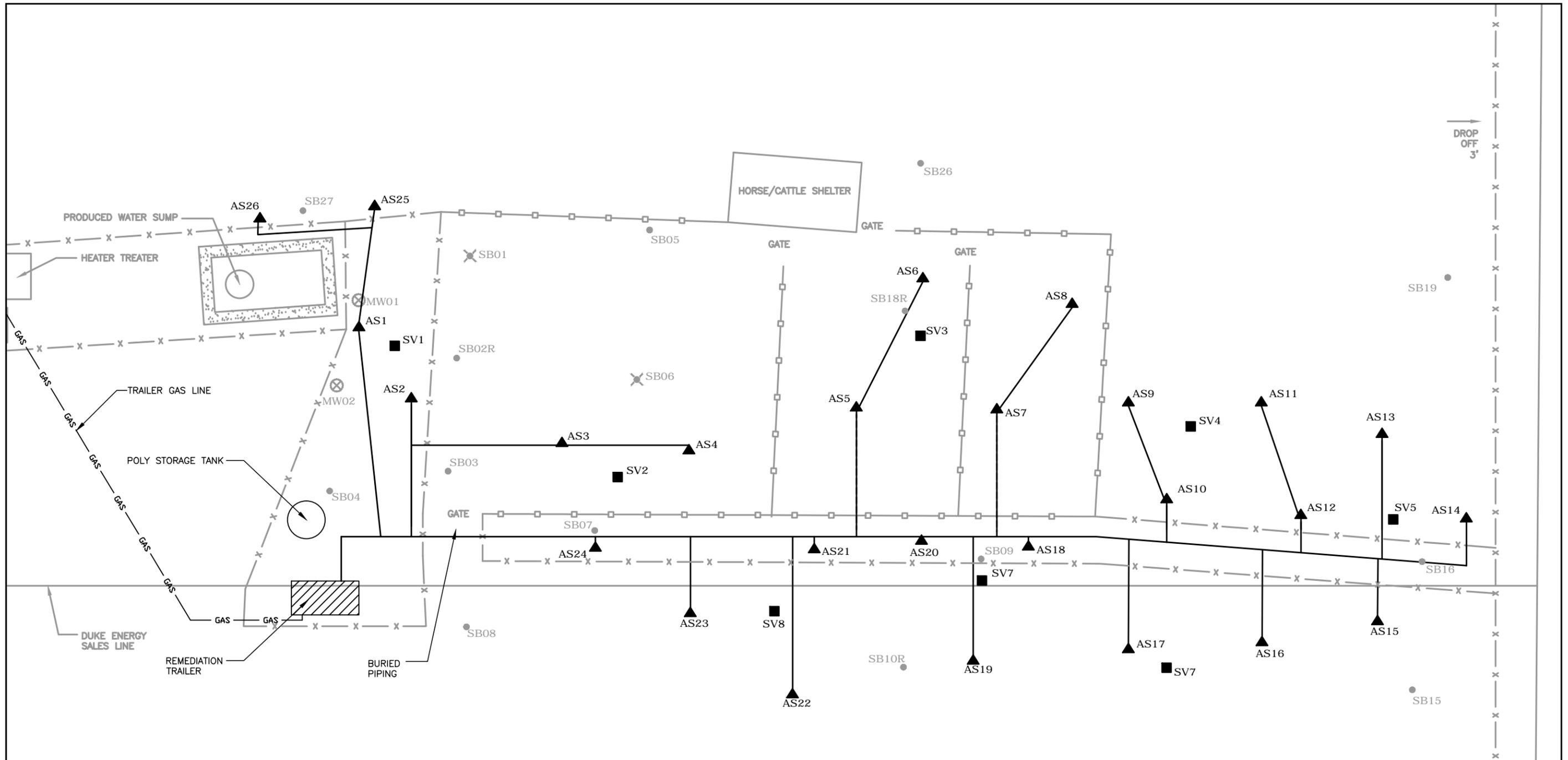


FIGURE 1
SITE MAP
FRICK 18-2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.





LEGEND

- MW01 MONITORING WELL LOCATION
- SB03 SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- METAL PIPE FENCE
- BERM
- BARBED WIRE FENCE
- AS1 AIR SPARGING WELL LOCATION
- SV1 SOIL VAPOR EXTRACTION WELL LOCATION
- PIPING

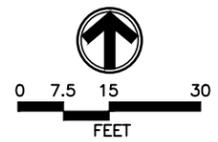
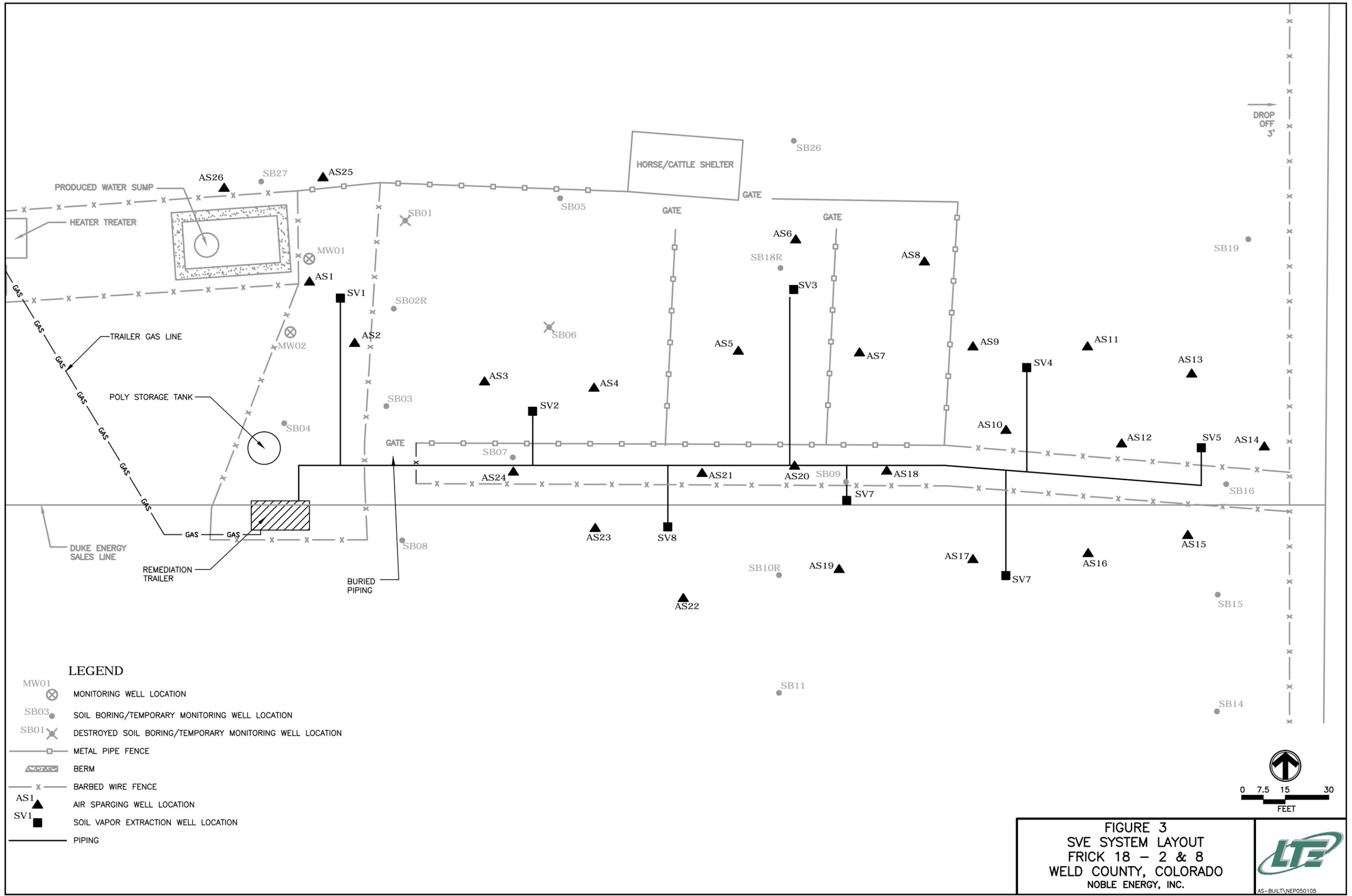


FIGURE 2
AS SYSTEM LAYOUT
FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



AS-BUILT\NEP050104



HORSE/CATTLE SHELTER

DROP OFF 3'

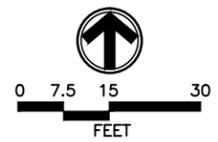
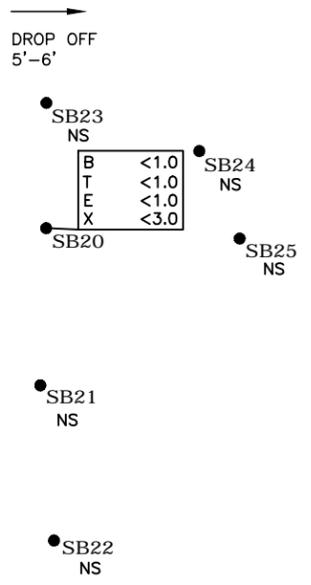
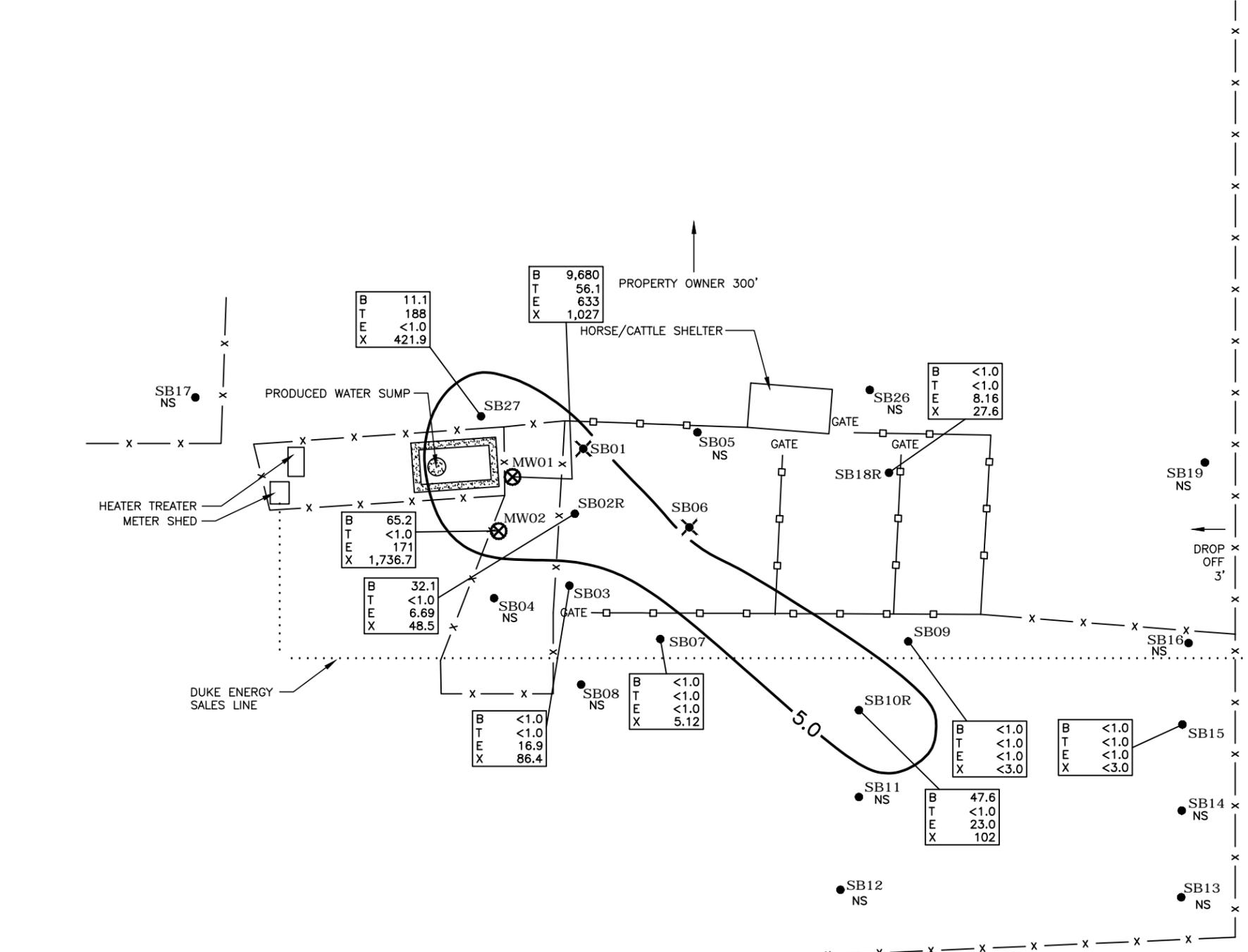


FIGURE 3
SVE SYSTEM LAYOUT
FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



AS-BUILT_NEP050105



- LEGEND**
- MW01 MONITORING WELL LOCATION
 - SB02R SOIL BORING/TEMPORARY MONITORING WELL LOCATION
 - SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
 - METAL PIPE FENCE
 - BARBED WIRE FENCE
 - BERM

5.0 µg/L — BENZENE ISOCONCENTRATION LINE

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)

NS NOT SAMPLED

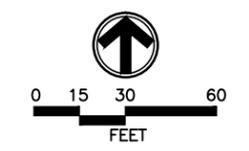


FIGURE 4
GROUNDWATER ANALYTICAL RESULTS
 MAY 26 AND 28, 2009
 FRICK 18-2 & 8
 WELD COUNTY, COLORADO
 NOBLE ENERGY, INC.



AS-BUILT\NEP050103 12/08

TABLES



**TABLE 1
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Well ID	Date	Total Depth (ft)	Depth to Water (ft)	TOC Elevation (ft)	Groundwater Elevation (relative ft)
MW01	10/11/05	17.78	8.80	96.33	87.53
	01/20/06	17.78	8.23	96.33	88.10
	03/28/07	17.78	7.63	96.33	88.70
	08/05/08	17.78	6.27	96.33	90.06
	11/14/08	17.78	4.32	96.33	92.01
	11/24/08	17.78	3.49	96.33	92.84
	02/24/09	17.78	3.31	97.33	94.02
	05/26/09	17.78	0.70	97.33	96.63
MW02	10/11/05	18.39	9.68	96.83	87.15
	01/20/06	18.39	8.78	96.83	88.05
	03/28/07	18.39	7.95	96.83	88.88
	08/05/08	18.39	6.51	96.83	90.32
	11/24/08	18.39	3.78	96.83	93.05
	02/24/09	18.39	3.31	97.83	94.52
	05/26/09	18.34	1.00	97.83	96.83
SB01	10/11/05	14.98	8.72	95.82	87.10
SB02	10/11/05	12.68	9.24	96.06	86.82
	01/20/06	12.68	8.35	96.06	87.71
	03/28/07	12.68	7.62	96.06	88.44
SB02R	02/24/09	12.72	3.15	NM	NM
	05/26/09	12.72	0.75	96.06	95.31
SB03	10/11/05	15.01	9.50	96.06	86.56
	01/20/06	15.01	8.45	96.06	87.61
	03/28/07	15.01	7.64	96.06	88.42
	08/05/08	15.01	6.34	96.06	89.72
	11/24/08	15.01	3.44	96.06	92.62
	02/24/09	15.01	3.05	96.06	93.01
	05/26/09	15.01	0.85	96.06	95.21
SB04	10/11/05	12.86	10.04	97.26	87.22
SB05	10/11/05	12.09	8.18	94.48	86.30
SB06	10/11/05	12.27	8.56	94.71	86.15
	01/20/06	12.27	7.60	94.71	87.11
	03/28/07	12.27	6.94	94.71	87.77
SB07	10/11/05	12.30	8.86	94.98	86.12
	01/20/06	12.30	7.85	94.98	87.13
	03/28/07	12.30	7.18	94.98	87.80
	02/24/09	12.30	2.63	94.98	92.35
	05/26/09	12.30	0.55	94.98	94.43
SB08	01/20/06	12.18	7.79	NM	NM



**TABLE 1 (CONTINUED)
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Well ID	Date	Total Depth (ft)	Depth to Water (ft)	TOC Elevation (ft)	Groundwater Elevation (relative ft)
SB09	05/28/09	15.04	0.10	NM	NM
SB10R	05/28/09	13.68	0.30	NM	NM
SB11	10/11/05	11.95	7.80	92.87	85.07
	01/20/06	11.95	6.66	92.87	86.21
	03/28/07	11.95	6.06	92.87	86.81
	08/05/08	11.95	4.75	92.87	88.12
	11/24/08	11.95	1.89	92.87	90.98
SB12	10/11/05	11.68	8.23	93.04	84.81
	01/20/06	11.68	6.86	93.04	86.18
	03/28/07	11.68	6.13	93.04	86.91
SB13	10/11/05	11.79	10.23	92.27	82.04
	01/20/06	11.79	9.35	92.27	82.92
	03/28/07	11.79	8.59	92.27	83.86
SB14	10/11/05	12.11	9.95	92.63	82.68
	01/20/06	12.11	9.01	92.63	83.62
	03/28/07	12.11	8.83	92.63	83.80
	08/05/08	12.11	6.07	92.63	86.56
SB15	10/11/05	12.01	10.05	92.80	82.75
	01/20/06	12.01	9.11	92.80	83.69
	03/28/07	12.01	8.95	92.80	83.85
	08/05/08	12.01	7.51	92.80	85.29
	11/24/08	12.01	5.29	92.80	87.51
	02/24/09	12.01	4.41	93.80	89.39
SB16	05/26/09	12.01	0.90	93.80	92.90
	10/11/05	12.06	9.27	92.21	82.94
	01/20/06	12.06	8.38	92.21	83.83
	03/28/07	12.06	8.26	92.21	83.95
	08/05/08	12.06	6.96	92.21	85.25
	11/14/08	12.06	5.62	92.21	86.59
	11/24/08	12.06	4.81	92.21	87.40
02/24/09	12.06	3.92	92.21	88.29	
SB17	10/11/05	14.56	11.02	101.25	90.23
SB18	10/11/05	12.00	8.66	93.63	84.97
	01/20/06	12.00	7.72	93.63	85.91
SB18R	02/24/09	12.86	3.22	NM	NM
	05/28/09	12.86	0.74	NM	NM
SB19	10/11/05	12.08	9.23	92.37	83.14
	01/20/06	12.08	8.39	92.37	83.98
	03/28/07	12.08	8.27	92.37	84.10



**TABLE 1 (CONTINUED)
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Well ID	Date	Total Depth (ft)	Depth to Water (ft)	TOC Elevation (ft)	Groundwater Elevation (relative ft)
SB20	10/11/05	13.27	11.54	93.31	81.77
	01/20/06	13.27	8.65	93.31	84.66
	03/28/07	13.27	10.37	93.31	82.94
	08/05/08	13.27	9.38	93.31	83.93
	11/24/08	13.27	7.18	93.31	86.13
	02/24/09	13.30	6.26	93.31	87.05
	05/26/09	13.30	3.00	93.31	90.31
SB21	10/11/05	13.90	9.91	91.36	81.45
	01/20/06	13.90	7.89	91.36	83.47
	03/28/07	13.90	9.60	91.36	81.76
	11/24/08	13.90	5.13	92.36	87.23
SB22	10/11/05	13.93	9.31	90.57	81.26
SB23	10/11/05	13.70	8.40	89.98	81.58
	01/20/06	13.70	7.15	89.98	82.83
	03/28/07	13.70	8.88	89.98	81.10
	11/24/08	13.70	4.19	89.98	85.79
SB24	10/11/05	13.69	8.00	88.90	80.90
	01/20/06	13.69	6.65	88.90	82.25
	03/28/07	13.69	8.58	88.90	80.32
	11/24/08	13.69	3.72	88.90	85.18
SB25	10/11/05	13.77	7.90	88.48	80.58
	11/24/08	13.77	3.58	89.48	85.90
SB26	10/11/05	11.94	8.91	93.85	84.94
SB27	02/24/09	13.35	3..81	NM	NM
	05/26/09	13.35	1.53	NM	NM

Notes:

ft - feet

NM - Not measured

All depths measured from the north side of the top of the casing (TOC).



TABLE 2
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC

Sample ID	Sample Date	Volatile Organic Compounds (ug/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW01	10/11/2005	1,200	4.2	150	562
	1/20/2006	1,700	<20	39	337
	3/28/2007	1,200	<20.0	27	260
	8/5/2008	7,770	111	97.6	812.2
	11/14/2008	9,450	129	272	2,858
	11/24/2008	9,210	56.8	50.1	2,573
	2/24/2009	6,130	23.9	65.7	571.7
	5/26/2009	9,680	56.1	633	1,027
MW02	10/11/2005	390	<1.0	15	285
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	1.5	<2.0	<2.0	7.2
	8/5/2008	53.8	<1.0	66.7	381.7
	11/24/2008	2.15	<1.0	<1.0	8.1
	2/24/2009	88.5	<1.0	100	655.6
	5/26/2009	65.2	<1.0	171	1,736.7
	SB01	6/16/2005	< 1.0	< 1.0	< 1.0
SB02	6/16/2005	48	39.8	508	7,160
	10/11/2005	3.6	<1.0	170	7,078
	1/20/2006	<1.0	<1.0	190	586
	3/28/2007	1.2	<2.0	49	38
SB02R	2/24/2009	30.4	1.91	48.9	266.54
	5/26/2009	32.1	<1.0	6.69	48.5
SB03	6/16/2005	630	892	182	2,070
	10/11/2005	4,800	280	280	2,150
	1/20/2006	2,400	38	170	960
	3/28/2007	350	<20.0	230	1,300
	8/5/2008	< 1.0	< 1.0	< 1.0	3.41
	11/24/2008	<1.0	<1.0	<1.0	<3.0
	2/24/2009	<1.0	<1.0	26.6	178
	5/26/2009	<1.0	<1.0	16.9	86.4
SB04	6/16/2005	4.8	31.7	46.0	62.6
SB05	6/16/2005	< 1.0	2.9	3.5	41.8
SB06	6/16/2005	9.1	80.3	106	881
	10/11/2005	2.9	<1.0	47	221
	1/20/2006	<1.0	<1.0	16	61.5
	3/28/2007	<1.0	<2.0	<2.0	<6.0
SB07	6/16/2005	7,120	3,090	433	4,610
	10/11/2005	6,400	200	510	1,000
	1/20/2006	3,300	1.2	230	1,698
	3/28/2007	2,100	<100.0	210	1,800
	2/24/2009	<1.0	<1.0	10.4	76.7
	5/26/2009	<1.0	<1.0	<1.0	5.12
SB08	6/16/2005	69.0	80.4	15.5	175
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0



TABLE 2 (CONTINUED)
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC

Sample ID	Sample Date	Volatile Organic Compounds (ug/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
SB09	6/16/2005	11.1	7.1	2.4	27.8
	1/20/2006	1,800	<1.0	130	1,016
	3/28/2007	68	<2.0	25	200
	2/24/2009	59	<1.0	<1.0	<3.0
	5/28/2009	<1.0	<1.0	<1.0	<3.0
SB10	6/16/2005	3,260	1,180	211	2,910
	10/11/2005	1,900	450	230	2,030
	1/20/2006	1,900	150	170	1,350
	3/28/2007	1,600	<20.0	190	1,756
	8/5/2008	40.6	<1.0	33.0	68.1
SB10R	2/24/2009	213	<1.0	124	662
	5/28/2009	47.6	<1.0	23.0	102
SB11	6/17/2005	17.6	57.4	185	590
	10/14/2005	1.8	<1.0	92	240
	1/20/2006	<1.0	<1.0	15	34
	3/28/2007	<1.0	<2.0	7.9	12
	8/5/2008	<1.0	<1.0	<1.0	<3.0
	11/24/2008	<1.0	<1.0	<1.0	<3.0
SB12	6/17/2005	15.1	28.7	10.2	103
	10/11/2005	1.1	<1.0	<1.0	2.1
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
SB13	6/17/2005	9.2	17.3	6.1	65.4
	10/11/2005	2.4	<1.0	<1.0	4.6
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
SB14	6/17/2005	7.5	15.4	7.0	66.3
	10/11/2005	17	<1.0	54	150
	1/20/2006	1.0	<1.0	5.3	5.6
	3/28/2007	<1.0	<2.0	<2.0	<6.0
	8/5/2008	<1.0	<1.0	<1.0	<3.0
SB15	6/17/2005	21.4	19.0	35.0	812
	10/11/2005	14	<1.0	15	110
	1/20/2006	<1.0	<1.0	5.4	<3.0
	3/28/2007	2.9	<2.0	61.0	101.7
	8/5/2008	<1.0	<1.0	<1.0	<3.0
	11/24/2008	<1.0	<1.0	<1.0	<3.0
	2/24/2009	<1.0	<1.0	2.15	2.73
	5/26/2009	<1.0	<1.0	<1.0	<3.0
SB16	6/17/2005	7,630	8,210	463	6,770
	10/11/2005	5,400	4,600	470	5,280
	1/20/2006	4,300	4,300	290	3,530
	3/28/2007	2,600	4,400	400	5,860
	8/5/2008	933	86.7	395	3,831
	11/14/2008	<1.0	<1.0	3.31	4.75
	11/24/2008	727	45.9	562	6,906
	2/24/2009	196	13.4	453	5,093



TABLE 2 (CONTINUED)
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS

FRICK 18 - 2 & 8
WELD COUNTY, COLORADO
NOBLE ENERGY, INC

Sample ID	Sample Date	Volatile Organic Compounds (ug/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
SB17	6/27/2005	< 1.0	< 1.0	< 1.0	< 3.0
SB18	6/17/2005	1,060	190	6.2	870
	10/11/2005	1,000	18	290	2,778
	1/20/2006	41	50	35	700
SB18R	2/24/2009	<1.0	<1.0	103	428.05
	5/28/2009	<1.0	<1.0	8.16	27.6
SB19	6/17/2005	29.9	51.3	9.6	109
	10/11/2005	<1.0	<1.0	<1.0	<3.0
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
SB20	7/18/2005	5,640	< 10	321	4,780
	10/11/2005	2,800	2.0	260	2,500
	1/20/2006	<50	<50	<1.0	2.8
	3/28/2007	140	<2.0	21	130
	8/5/2008	25.3	<1.0	28.9	200.46
	11/24/2008	2.74	<1.0	<1.0	7.98
	2/24/2009	1.12	<1.0	4.26	20.0
5/26/2009	<1.0	<1.0	<1.0	<3.0	
SB21	7/18/2005	209	< 1.0	1.9	22.3
	10/11/2005	11	< 1.0	<1.0	<3.0
	1/20/2006	<1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
	11/24/2008	<1.0	<1.0	11.8	49.5
SB22	7/18/2005	< 1.0	< 1.0	< 1.0	3.2
SB23	7/18/2005	13.2	< 1.0	1.5	22.8
	10/11/2005	<1.0	< 1.0	<1.0	<3.0
	1/20/2006	1.0	<1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
	11/24/2008	<1.0	<1.0	<1.0	<3.0
SB24	7/18/2005	21.0	< 1.0	2.7	38.9
	10/11/2005	<1.0	<1.0	<1.0	<3.0
	1/20/2006	<1.0	< 1.0	<1.0	<3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
	11/24/2008	<1.0	<1.0	<1.0	<3.0
SB25	7/18/2005	< 1.0	< 1.0	< 1.0	7
	11/24/2008	<1.0	<1.0	<1.0	<3.0
SB26	7/18/2005	1.8	4.7	51.4	648
SB27	2/24/2009	24.7	494	91.9	1,077
	5/26/2009	11.1	188	<1.0	421.9
Water Well	6/17/2005	< 1.0	< 1.0	< 1.0	< 3.0
	10/11/2005	< 1.0	< 1.0	< 1.0	< 3.0
	1/20/2006	< 1.0	< 1.0	< 1.0	< 3.0
	3/28/2007	<1.0	<2.0	<2.0	<6.0
CDPHE-WQCC Regulation 41 Groundwater Standards		5.0	560	700	1,400

Notes:

ug/L - micrograms per liter

CDPHE-WQCC - Colorado Department of Public Health and Environment Water Quality Control Commission

Bold indicates concentration exceeds CDPHE-WQCC Regulation 41 Groundwater Standards

Analysis by Environmental Protection Agency Method 8260B.

< indicates analytical result is less than the laboratory detection limit



ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS





4640 Pecos Street | Unit C | Denver, Colorado 80211
303.433.1322 Phone 303.265.9645 Fax

May 29, 2009

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Dodek
Project Number: NEP0505.01
Project: Noble - Frick 18-2&8

Attached are the analytical results for Noble - Frick 18-2&8 received by Origins Laboratory, Inc. 5/26/2009 3:01:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Noelle E Doyle
Laboratory Manager

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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303.433.1322 | Laboratory
303.265.9645 | Fax



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Dodek
Project Number: NEP0505.01
Project: Noble - Frick 18-2&8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
MW01	X905110-01	Water	5/26/2009 11:10:00AM	05/26/2009 15:01
MW02	X905110-02	Water	5/26/2009 11:20:00AM	05/26/2009 15:01
SB02R	X905110-03	Water	5/26/2009 12:00:00PM	05/26/2009 15:01
SB03	X905110-04	Water	5/26/2009 11:30:00AM	05/26/2009 15:01
SB07	X905110-05	Water	5/26/2009 11:40:00AM	05/26/2009 15:01
SB15	X905110-06	Water	5/26/2009 11:50:00AM	05/26/2009 15:01
SB20	X905110-07	Water	5/26/2009 12:10:00PM	05/26/2009 15:01
SB27	X905110-08	Water	5/26/2009 11:00:00AM	05/26/2009 15:01

Origins Laboratory, Inc.

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.

Noelle E Doyle, Laboratory Manager

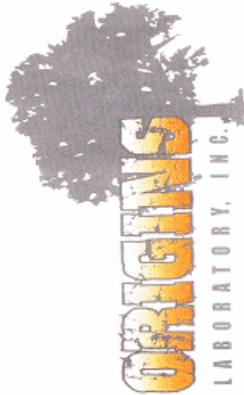


LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble - Frick 18-2&8

X905110

page ____ of ____



originslaboratory.com

Client: LT Environmental
 Address: 4600 W 60th Ave
Arvada, CO 80003
 Telephone Number: 303-433-9788
 E-Mail Address: rebel@ltenvi.com

Project Manager: Rob Rebel
 Project Name: Frick
 Project Number: NEP0505
 Samples Collected by: Mark Deert

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air - Summa Canister #			Other
MLJ01	5-26-09	1110	3	X	X			X					
MLJ02		1120											
SB02R		1200											
SB03		1130 AM											
SB07		1140											
SB15		1150											
SB20		1210											
SB27		1100											

Relinquished by: [Signature] Date: _____ Time: _____
 Received by: [Signature] Date: 5-26-09 Time: 1501
 Temperature Upon Receipt: 28
 Sum Around Time: 24-hr 48-hr 72-hr

4640 North Pecos Street | Unit C | Denver, Colorado 80211 | Laboratory - 303.433.1322 | Fax - 303.265.9645

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

MW01
X905110-01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	9.68	0.100	mg/L	100	9E28004	05/28/2009	05/28/2009
Toluene	0.0561	0.00100	"	1	"	"	05/29/2009
Ethylbenzene	0.633	0.100	"	100	"	"	05/28/2009
o-Xylene	0.156	0.00100	"	1	"	"	05/29/2009
m,p-Xylene	0.871	0.200	"	100	"	"	05/28/2009

Surrogate: 1,2-Dichloroethane-d4	111 %	70.3-128			"	"	"
Surrogate: Toluene-d8	83.2 %	78.8-125			"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	75.5-131			"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



LT Environmental, Inc.
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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

MW02
X905110–02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0652	0.00100	mg/L	1	9E28004	05/28/2009	05/28/2009
Toluene	ND	0.00100	"	"	"	"	05/29/2009
Ethylbenzene	0.171	0.00100	"	"	"	"	05/28/2009
o-Xylene	0.0167	0.00100	"	"	"	"	"
m,p-Xylene	1.72	0.100	"	50	"	"	05/29/2009

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>94.4 %</i>	<i>85.7–134</i>			<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>	<i>96.6 %</i>	<i>81.4–121</i>			<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.5 %</i>	<i>74.7–127</i>			<i>"</i>	<i>"</i>	<i>"</i>

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB02R
X905110–03 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0321	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	0.00669	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	0.0485	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.2 %	85.7–134			"	"	"	
Surrogate: Toluene-d8	111 %	81.4–121			"	"	"	
Surrogate: 4-Bromofluorobenzene	68.7 %	74.7–127			"	"	"	S-GC

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Brian Dodek
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 Project: Noble – Frick 18–2&8

SB03
X905110–04 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	0.0169	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	0.0864	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.6 %	85.7–134			"	"	"	
Surrogate: Toluene-d8	108 %	81.4–121			"	"	"	
Surrogate: 4-Bromofluorobenzene	67.0 %	74.7–127			"	"	"	S-GC

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB07
X905110–05 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	0.00512	0.00200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	85.7–134			"	"	"	
<i>Surrogate: Toluene-d8</i>	109 %	81.4–121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	58.6 %	74.7–127			"	"	"	S-GC

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB15
X905110–06 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>112 %</i>	<i>85.7–134</i>			"	"	"
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>	<i>81.4–121</i>			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.7 %</i>	<i>74.7–127</i>			"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB20
X905110–07 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>119 %</i>	<i>85.7–134</i>			<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>	<i>87.7 %</i>	<i>81.4–121</i>			<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.4 %</i>	<i>74.7–127</i>			<i>"</i>	<i>"</i>	<i>"</i>

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Noelle E Doyle, Laboratory Manager



LT Environmental, Inc.
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 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB27
X905110–08 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0111	0.00100	mg/L	1	9E28004	05/28/2009	05/29/2009
Toluene	0.188	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
o-Xylene	0.0669	0.00100	"	"	"	"	"
m,p-Xylene	0.355	0.00200	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>94.8 %</i>	<i>85.7–134</i>			"	"	"
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>81.4–121</i>			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.9 %</i>	<i>74.7–127</i>			"	"	"

Origins Laboratory, Inc.

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LT Environmental, Inc.
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 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9E28004 – EPA 5030B

Blank (9E28004–BLK1)

Prepared: 05/28/2009 Analyzed: 05/28/2009

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	70.6		ug/L	62.5		113	70.3–128			
<i>Surrogate: Toluene-d8</i>	49.0		"	62.5		78.3	78.8–125			S–GC
<i>Surrogate: 4-Bromofluorobenzene</i>	70.4		"	62.5		113	75.5–131			

Blank (9E28004–BLK2)

Prepared: 05/28/2009 Analyzed: 05/28/2009

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	69.0		ug/L	62.5		110	70.3–128			
<i>Surrogate: Toluene-d8</i>	49.3		"	62.5		78.9	78.8–125			
<i>Surrogate: 4-Bromofluorobenzene</i>	68.4		"	62.5		109	75.5–131			

LCS (9E28004–BS1)

Prepared: 05/28/2009 Analyzed: 05/28/2009

Benzene	0.05	0.001	mg/L	0.0500		106	74.9–126			
Toluene	0.04	0.001	"	0.0500		73.7	73.3–128			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	68.5		ug/L	62.5		110	70.3–128			
<i>Surrogate: Toluene-d8</i>	47.3		"	62.5		75.7	78.8–125			S–GC
<i>Surrogate: 4-Bromofluorobenzene</i>	69.5		"	62.5		111	75.5–131			

LCS (9E28004–BS2)

Prepared: 05/28/2009 Analyzed: 05/28/2009

Benzene	0.06	0.001	mg/L	0.0500		114	74.9–126			
Toluene	0.04	0.001	"	0.0500		85.0	73.3–128			

Origins Laboratory, Inc.

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9E28004 – EPA 5030B										
LCS (9E28004–BS2)					Prepared: 05/28/2009 Analyzed: 05/28/2009					
Surrogate: 1,2–Dichloroethane–d4	67.0		ug/L	62.5		107	70.3–128			
Surrogate: Toluene–d8	47.6		"	62.5		76.1	78.8–125			S–GC
Surrogate: 4–Bromofluorobenzene	67.9		"	62.5		109	75.5–131			
Matrix Spike (9E28004–MS1)					Source: X905098–10			Prepared: 05/28/2009 Analyzed: 05/28/2009		
Benzene	0.06	0.001	mg/L	0.0500	ND	113	78.1–132			
Toluene	0.04	0.001	"	0.0500	ND	82.4	71.7–124			
Surrogate: 1,2–Dichloroethane–d4	67.9		ug/L	62.5		109	70.3–128			
Surrogate: Toluene–d8	48.6		"	62.5		77.7	78.8–125			S–GC
Surrogate: 4–Bromofluorobenzene	68.6		"	62.5		110	75.5–131			
Matrix Spike (9E28004–MS2)					Source: X905098–12			Prepared: 05/28/2009 Analyzed: 05/28/2009		
Benzene	0.05	0.001	mg/L	0.0500	ND	108	78.1–132			
Toluene	0.04	0.001	"	0.0500	ND	76.2	71.7–124			
Surrogate: 1,2–Dichloroethane–d4	64.8		ug/L	62.5		104	70.3–128			
Surrogate: Toluene–d8	48.3		"	62.5		77.3	78.8–125			S–GC
Surrogate: 4–Bromofluorobenzene	68.0		"	62.5		109	75.5–131			
Matrix Spike Dup (9E28004–MSD1)					Source: X905098–10			Prepared: 05/28/2009 Analyzed: 05/28/2009		
Benzene	0.06	0.001	mg/L	0.0500	ND	111	78.1–132	1.69	24.8	
Toluene	0.04	0.001	"	0.0500	ND	77.9	71.7–124	5.59	25	
Surrogate: 1,2–Dichloroethane–d4	67.1		ug/L	62.5		107	70.3–128			
Surrogate: Toluene–d8	46.9		"	62.5		75.1	78.8–125			S–GC
Surrogate: 4–Bromofluorobenzene	67.5		"	62.5		108	75.5–131			
Matrix Spike Dup (9E28004–MSD2)					Source: X905098–12			Prepared: 05/28/2009 Analyzed: 05/28/2009		
Benzene	0.05	0.001	mg/L	0.0500	ND	108	78.1–132	0.482	24.8	
Toluene	0.04	0.001	"	0.0500	ND	74.6	71.7–124	2.15	25	
Surrogate: 1,2–Dichloroethane–d4	66.5		ug/L	62.5		106	70.3–128			

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LT Environmental, Inc.
 4600 West 60th Avenue
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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9E28004 – EPA 5030B

Matrix Spike Dup (9E28004–MSD2)

Source: X905098–12

Prepared: 05/28/2009 Analyzed: 05/28/2009

Surrogate: Toluene-d8	48.4		ug/L	62.5		77.5	78.8–125			S–GC
Surrogate: 4–Bromofluorobenzene	68.7		"	62.5		110	75.5–131			

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Noelle E Doyle, Laboratory Manager



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Brian Dodek
Project Number: NEP0505.01
Project: Noble – Frick 18–2&8

Notes and Definitions

- S–GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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Noelle E Doyle, Laboratory Manager



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June 01, 2009

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Dodek
Project Number: NEP0505.01
Project: Noble - Frick 18-2&8

Attached are the analytical results for Noble - Frick 18-2&8 received by Origins Laboratory, Inc. 5/28/2009 4:38:00PM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle".

Noelle E Doyle
Laboratory Manager

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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Brian Dodek
Project Number: NEP0505.01
Project: Noble - Frick 18-2&8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
SB09	X905121-01	Water	5/28/2009 1:00:00PM	05/28/2009 16:38
SB10R	X905121-02	Water	5/28/2009 1:15:00PM	05/28/2009 16:38
SB18R	X905121-03	Water	5/28/2009 1:30:00PM	05/28/2009 16:38

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Noelle E Doyle, Laboratory Manager



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 Arvada CO 80003

Brian Dodek
 Project Number: NEP0505.01
 Project: Noble - Frick 18-2&8

X905121



originslaboratory.com

Client: LT Environmental
 Address: 4600 W 60th Ave
 Telephone Number: 303-433-9788
 E-Mail Address: rebel@ltenv.com

Project Manager: Rob Rebel
 Project Name: Frick 18-2
 Project Number: NEP0505
 Samples Collected by: Lindsay Voss

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers				Matrix	Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other			
5809	5-28-09	1300	3				Soil		1
5810R	5-28-09	1315	3				Groundwater		2
5818R	5-28-09	1330	3				Other		3
							Air - Summa Canister #		4
									5
									6
									7
									8
									9
									10

Handwritten notes in table:
 - Matrix: BTEX - Bako
 - Date: 5/28/09
 - Time: 16:38
 - Turn Around Time: 24-hr (checked), 48-hr, 72-hr

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB09
X905121–01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E29003	05/29/2009	05/31/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>85.7–134</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>99.1 %</i>	<i>81.4–121</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>74.7–127</i>			<i>"</i>	<i>"</i>	<i>"</i>	

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB10R
X905121–02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0476	0.00100	mg/L	1	9E29003	05/29/2009	05/31/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	0.0230	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	0.102	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	85.7–134			"	"	"
Surrogate: Toluene-d8	99.6 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	74.7–127			"	"	"

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Brian Dodek
 Project Number: NEP0505.01
 Project: Noble – Frick 18–2&8

SB18R
X905121–03 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9E29003	05/29/2009	05/31/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	0.00816	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	0.0276	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.1 %	85.7–134			"	"	"
Surrogate: Toluene-d8	101 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	74.7–127			"	"	"

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Noelle E Doyle, Laboratory Manager



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Brian Dodek
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 Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9E29003 – EPA 5030B

Blank (9E29003–BLK1)

Prepared: 05/29/2009 Analyzed: 05/30/2009

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60.7</i>		<i>ug/L</i>	<i>62.5</i>		<i>97.1</i>	<i>85.7-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>63.2</i>		<i>"</i>	<i>62.5</i>		<i>101</i>	<i>81.4-121</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65.8</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>74.7-127</i>			

Blank (9E29003–BLK2)

Prepared: 05/29/2009 Analyzed: 05/30/2009

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61.4</i>		<i>ug/L</i>	<i>62.5</i>		<i>98.3</i>	<i>85.7-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>63.2</i>		<i>"</i>	<i>62.5</i>		<i>101</i>	<i>81.4-121</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64.6</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>74.7-127</i>			

LCS (9E29003–BS1)

Prepared: 05/29/2009 Analyzed: 05/30/2009

Benzene	0.04	0.001	mg/L	0.0500		78.4	74.9-126			
Toluene	0.04	0.001	"	0.0500		86.6	73.3-128			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60.6</i>		<i>ug/L</i>	<i>62.5</i>		<i>96.9</i>	<i>85.7-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>62.8</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>81.4-121</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65.3</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>74.7-127</i>			

LCS (9E29003–BS2)

Prepared: 05/29/2009 Analyzed: 05/30/2009

Benzene	0.04	0.001	mg/L	0.0500		78.3	74.9-126			
Toluene	0.04	0.001	"	0.0500		84.5	73.3-128			

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Brian Dodek
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 Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9E29003 – EPA 5030B										
LCS (9E29003–BS2)					Prepared: 05/29/2009 Analyzed: 05/30/2009					
Surrogate: 1,2–Dichloroethane–d4	61.2		ug/L	62.5		98.0	85.7–134			
Surrogate: Toluene–d8	62.6		"	62.5		100	81.4–121			
Surrogate: 4–Bromofluorobenzene	64.5		"	62.5		103	74.7–127			
Matrix Spike (9E29003–MS1)		Source: X905114–01			Prepared: 05/29/2009 Analyzed: 05/30/2009					
Benzene	0.04	0.001	mg/L	0.0500	0.0008	79.9	78.1–132			
Toluene	0.05	0.001	"	0.0500	ND	91.3	71.7–124			
Surrogate: 1,2–Dichloroethane–d4	61.2		ug/L	62.5		97.8	85.7–134			
Surrogate: Toluene–d8	63.2		"	62.5		101	81.4–121			
Surrogate: 4–Bromofluorobenzene	64.8		"	62.5		104	74.7–127			
Matrix Spike (9E29003–MS2)		Source: X905114–02			Prepared: 05/29/2009 Analyzed: 05/30/2009					
Benzene	0.04	0.001	mg/L	0.0500	0.002	78.0	78.1–132			QM-07
Toluene	0.04	0.001	"	0.0500	ND	82.5	71.7–124			
Surrogate: 1,2–Dichloroethane–d4	61.4		ug/L	62.5		98.2	85.7–134			
Surrogate: Toluene–d8	63.1		"	62.5		101	81.4–121			
Surrogate: 4–Bromofluorobenzene	64.6		"	62.5		103	74.7–127			
Matrix Spike Dup (9E29003–MSD1)		Source: X905114–01			Prepared: 05/29/2009 Analyzed: 05/30/2009					
Benzene	0.04	0.001	mg/L	0.0500	0.0008	80.5	78.1–132	0.685	24.8	
Toluene	0.04	0.001	"	0.0500	ND	87.6	71.7–124	4.09	25	
Surrogate: 1,2–Dichloroethane–d4	60.9		ug/L	62.5		97.4	85.7–134			
Surrogate: Toluene–d8	62.9		"	62.5		101	81.4–121			
Surrogate: 4–Bromofluorobenzene	64.6		"	62.5		103	74.7–127			
Matrix Spike Dup (9E29003–MSD2)		Source: X905114–02			Prepared: 05/29/2009 Analyzed: 05/30/2009					
Benzene	0.04	0.001	mg/L	0.0500	0.002	83.6	78.1–132	6.63	24.8	
Toluene	0.04	0.001	"	0.0500	ND	86.0	71.7–124	4.13	25	
Surrogate: 1,2–Dichloroethane–d4	63.7		ug/L	62.5		102	85.7–134			

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Brian Dodek
Project Number: NEP0505.01
Project: Noble – Frick 18–2&8

Volatile Organic Compounds by EPA Method 8260B – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9E29003 – EPA 5030B

Matrix Spike Dup (9E29003–MSD2)

Source: X905114–02

Prepared: 05/29/2009 Analyzed: 05/30/2009

Surrogate: Toluene-d8	62.9		ug/L	62.5		101	81.4–121			
Surrogate: 4–Bromofluorobenzene	65.4		"	62.5		105	74.7–127			

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Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0505.01
Project: Noble – Frick 18–2&8

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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A handwritten signature in black ink, appearing to read "Noelle E Doyle".

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Noelle E Doyle, Laboratory Manager