



October 1, 2009

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

Mr. Bill Farmer
Foundation Energy Company
444 South 2nd Street
La Salle, Colorado 80645

**RE: Third Quarter 2009 Remediation and Monitoring Report
Becky #2-6 Natural Gas Wellhead Site
Weld County, Colorado**

Dear Mr. Cox and Mr. Farmer:

LT Environmental, Inc. (LTE) was retained by Noble Energy, Inc. (Noble) and Foundation Energy Company (Foundation) to conduct corrective actions at the Becky #2-6 natural gas wellhead site (Site) located approximately 3.5 miles west of the intersection of Interstate 25 and Weld County Road (WCR) 52 in Weld County, Colorado. A Site Map is provided as Figure 1.

LTE, on behalf of Noble and Foundation, has completed system design, installation, and startup of the air sparging/soil vapor extraction (AS/SVE) remediation system. LTE is continuing to conduct groundwater monitoring at the Site to evaluate previously documented groundwater impact. This correspondence is provided as the third quarter 2009 remediation and monitoring report, and summarizes activities conducted at the Site from July 1, 2009 through September 30, 2009. Activities conducted during the reporting period and summarized in this report include operation and maintenance (O&M) of the remediation system and quarterly groundwater sampling event conducted September 1, 2009.

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 (Figure 2). 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 (Figure 3). AS and SVE wells are connected to a remediation equipment trailer housing the equipment for the AS/SVE systems. The distribution and spacing of these wells are based on site-specific soil analytical data, groundwater quality data, contamination profiles, geological characteristics, experience with similar systems, and the location and influence area of remediation



wells (Figure 4). Additional details of the remediation system design and installation were presented in the previously submitted report titled *Remediation System Installation, Startup, and Groundwater Sampling Results* dated January 9, 2009. The remediation system began operation at the Site on November 17, 2008.

Remediation System Operation and Maintenance

Following system startup, the AS/SVE remediation system has operated continuously throughout the reporting period with occasional shutdowns due to loss of gas pressure from the separator, the generator overheating, and routine maintenance activities.

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;
- Field screening the exhaust for air emissions;
- Collecting an air sample for emissions analysis;
- Replacement of the SVE filter;
- Replacement of the generator thermostat;
- Installation of a cooling fan in the generator room to facilitate air circulation;
- Cleaning the generator radiator with a pressure washer and flushing the cooling system;
- AS and SVE system maintenance, which included changing oil;
- Generator maintenance, which included changing oil and oil filters; and
- System shutdown and transport to another Noble facility (Frick 18 – 2 & 8 natural gas wellhead site) on September 2, 2009. The system is expected to be returned to this Site in November 2009.

Operation of the remediation system will continue to alternate between continuous operation for an approximate three month period and a three month static evaluation with no remediation system operation occurring. This program will allow for continued removal of hydrocarbon impact along with static evaluations to determine which areas of the Site require continued operations.

Groundwater Sampling Procedures

Twenty-two groundwater monitoring wells were sampled at the Site on September 1, 2009 to determine the current plume extent following three months of remediation system operation. Prior



to sampling each well, the groundwater was evaluated for the presence of free-phase hydrocarbons, the down well dissolved oxygen (DO) concentration was collected, and the depth to groundwater was measured and recorded for calculating purge volumes (Table 1). DO data were collected to evaluate the influence of the remediation system.

Each well was purged of three casing volumes prior to collection of groundwater samples. Groundwater samples were collected from the well points by advancing disposable 3/16-inch diameter polyethylene tubing inside the 1-inch diameter polyvinyl chloride (PVC) well casing and extending the tubing to below the groundwater table. A peristaltic pump was utilized to collect the groundwater samples prior to placement into 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 Method 8260B.

Hydrogeology / Field Measurements

During the September 2009 sampling event, the depths to static groundwater level ranged from 5.61 feet below top of casing (TOC) in MW-9 to 10.05 feet below TOC in MW-18 (Table 1). The groundwater flow direction was to the north with an average hydraulic gradient of approximately 0.0044 feet per foot, which is similar to historical values.

The DO data indicate that the site is conducive to biological degradation and that the remediation system is influencing the impacted area.

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 for BTEX of 5.0 micrograms per liter (ug/L), 560 ug/L, 700 ug/L, and 1,400 ug/L, respectively. Table 1 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 attached.

Twenty-two groundwater samples were collected and submitted to Origins Laboratory for BTEX analysis during the September 1, 2009 sampling event. Free-phase petroleum hydrocarbons were not identified in any of the monitoring wells. Groundwater analytical results indicated that benzene was detected above the CDPHE-WQCC Regulation 41 standards in monitoring wells MW-9, MW-10, and MW-13, at concentrations ranging from 176 ug/L at MW-10 to 329 ug/L at MW-13. BTEX compounds were not detected above the laboratory method detection limits in the remaining samples. Groundwater analytical results for the September 2009 sampling event are summarized in Table 1 and illustrated on Figure 5.



Summary and Conclusions

As seen in Figure 6 and Table 1, the effectiveness of the AS/SVE system is evident by the 75% reduction in the hydrocarbon impacted area from June 2008 (site investigation) to September 2009. All of the monitoring wells that previously contained benzene concentrations below groundwater standards remained below groundwater standards. This includes the five monitoring wells where remediation system operation previously decreased the benzene concentrations to below the groundwater standards (MW-3, MW-16, MW-23, MW-26, and MW-34), indicating cleanup has been achieved in those areas.

The decrease in benzene concentrations from May 2009 to September 2009 suggests that the remediation system continues to positively influence the groundwater impact at the Site. Current data indicates the remediation system has successfully decreased benzene concentrations in monitoring wells MW-7 and MW-25 into compliance with groundwater standards. Analytical data indicate that MW-9, MW-10, and MW-13 remained above groundwater standards. System operation will be focused in this area if November 2009 data do not indicate increasing trends in other areas of the plume (during the static evaluation).

Free product was not present in any of the monitoring wells as previously observed (MW-10 and MW-16), indicating remediation progress and free-phase product removal. Figure 6 provides benzene isocontours for the most recent sampling events (May and September 2009) as well as for conditions encountered during the initial site investigation (June 2008). As shown in the attached Table 1, benzene is still present at the Site and continued remediation system operation is recommended to achieve cleanup goals.

The next groundwater sampling event will be conducted in November 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. Active remediation will be re-initiated at the site in November 2009.

LTE appreciates the opportunity to provide environmental services to Noble and Foundation. 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, appearing to read 'Matthew R. Vielhaber'.

Matthew R. Vielhaber, P.E.
Project Manager

A handwritten signature in black ink, appearing to read 'Steve D. Kahn'.

Steve D. Kahn, P.E.
Senior Engineer



Attachments

Table 1: Groundwater Quality Data

Figure 1: Site Map

Figure 2: Air Sparging System Layout

Figure 3: Soil Vapor Extraction System Layout

Figure 4: Radius of Influence Map

Figure 5: Groundwater Analytical Results – September 1, 2009

Figure 6: Groundwater Analytical Summary

Attachment: Laboratory Analytical Reports

TABLE



TABLE 1

GROUNDWATER QUALITY DATA
 BECKY #2-6
 WELD COUNTY, COLORADO
 NOBLE ENERGY, INC.

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	DO (mg/L)	PID (ppm)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW-1	6/24/2008		7.92				3.52	<1.00	55.05	25.16
	11/10/2008		7.66		2.74	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.46		1.42		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.74		0.78	48.6	<1.00	<1.00	<1.00	<3.00
	9/1/2009		7.78		4.35	274	<1.00	<1.00	<1.00	<3.00
MW-2	6/24/2008		8.01				<1.00	<1.00	<1.00	<3.00
MW-3	6/24/2008		8.09				6.43	<1.00	<1.00	5.15
	11/10/2008		7.83		0.28	0.0	1.26	<1.00	<1.00	<3.00
	2/23/2009		7.68		0.18		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.98		0.78	89.8	2.31	<1.00	<1.00	<3.00
	9/1/2009		8.03		3.64	62.4	<1.00	<1.00	<1.00	<3.00
MW-4	6/24/2008		7.88				<1.00	<1.00	<1.00	<3.00
	11/10/2008		7.73		1.20	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.59		1.38		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.82		3.72	11.7	<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.07		6.69	526	<1.00	<1.00	<1.00	<3.00
MW-5	6/24/2008		8.08				<1.00	<1.00	<1.00	<3.00
MW-6	6/24/2008		7.85				<1.00	<1.00	<1.00	<3.00



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MW-7	6/24/2008		8.10				358.40	1.02	277.60	3,120.29
	11/10/2008		7.98		0.17	325	725	<1.00	493	6,008.8
	2/23/1009		7.36		0.07		5.03	<1.00	9.04	141
	5/27/2009		7.09		0.31	112.2	10.4	1.16	362	498.2
	9/1/2009		8.14		4.13	587	<1.00	<1.00	<1.00	438
MW-8	6/24/2008		7.60				<1.00	<1.00	<1.00	<3.00
	11/10/2008		7.59		0.36	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.34		0.18		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.59		0.45	0.4	<1.00	<1.00	<1.00	<3.00
	9/1/2009		7.64		2.69	1.8	<1.00	<1.00	<1.00	<3.00
MW-9	6/24/2008		8.45				430.20	<1.00	35.57	396.80
	11/10/2008		8.32		1.13	94.5	175	<1.00	24.7	77.90
	2/23/2009		8.29		0.10		12.8	<1.00	1.56	3.70
	5/27/2009		7.46		0.40	0.5	99.4	<1.00	15.0	77.3
	9/1/2009		5.61		NM	331	243	<1.00	15.8	38.0
MW-10	6/24/2008		8.26				1,254.2	1.84	223.60	2,373.80
	11/10/2008	8.13	8.63	0.50	NM	305	NA	NA	NA	NA
	11/13/2008	8.21	8.44	0.23	NM		NA	NA	NA	NA
	2/23/2009	8.09	8.01	0.08	NM		NA	NA	NA	NA
	5/27/2009		7.30	0.00	0.51	91.4	145	<1.00	86.6	1,145.8
	9/1/2009		8.38	0.00	1.64	858	176	<1.00	<1.00	542



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MW-11	6/24/2008		7.52				<1.00	<1.00	1.35	14.70
	11/10/2008		7.48		0.78	0.0	<1.00	<1.00	<1.00	5.00
	2/23/2009		7.25		1.71		<1.00	<1.00	<1.00	<3.00
	5/28/2009		6.60		0.71	0.2	<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.62		2.25	348	<1.00	<1.00	<1.00	<3.00
MW-12	6/24/2008		7.70				<1.00	<1.00	<1.00	<3.00
MW-13	6/24/2008		8.68				1,616.2	<1.00	249.20	3,551.0
	11/10/2008		8.85		0.46	0.0	684	<1.00	84.0	152.11
	2/23/2009		8.72		3.34		390	<1.00	26.7	86.5
	5/28/2009		8.75		1.22	0.3	500	<1.00	69.8	120
	9/1/2009		8.90		1.43	0.0	329	<1.00	21.8	1.05
MW-14	6/24/2008		9.35				3.66	1.26	1.69	21.65
	11/10/2008		9.56		0.34	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.48		0.62		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.65		0.29	0.9	<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.84		1.46	80.5	<1.00	<1.00	<1.00	<3.00
MW-15	6/24/2008		9.34				<1.00	<1.00	<1.00	4.31
	11/10/2008		9.89		2.16	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.66		1.32		<1.00	<1.00	<1.00	<3.00
	5/28/2009		8.89		0.61	0.5	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.83		1.48	9.9	<1.00	<1.00	<1.00	<3.00



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MW-16	6/24/2008		9.19				6.28	<1.00	170.65	1,998.36
	11/10/2008	9.83	9.84	0.01	NM	634	NA	NA	NA	NA
	11/13/2008		9.88	0.00			<1.00	<1.00	<1.00	220.86
	2/23/2009		9.62	0.00	0.39		<1.00	<1.00	9.12	89.0
	5/27/2009		8.81	0.00	0.42	559.2	<1.00	<1.00	14.3	152
	9/1/2009		9.78	0.00	2.81	443	<1.00	<1.00	<1.00	88.9
MW-17	6/24/2008		9.16				<1.00	<1.00	<1.00	13.46
	11/10/2008		10.27		4.11	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.98		4.18		<1.00	<1.00	<1.00	<3.00
	5/27/2009		10.95			0.1	WELL DRY			
	9/1/2009		9.87		1.51	8.8	<1.00	<1.00	<1.00	<3.00
MW-18	6/24/2008		9.37				<1.00	<1.00	<1.00	3.24
	11/10/2008		10.13		0.36	0.0	<1.00	<1.00	<1.00	3.36
	2/23/2009		9.92		2.97		<1.00	<1.00	<1.00	<3.00
	5/28/2009		9.14		0.37	0.2	<1.00	<1.00	<1.00	<3.00
	9/1/2009		10.05		1.50	0.0	<1.00	<1.00	<1.00	<3.00
MW-19	6/24/2008		8.73				<1.00	<1.00	<1.00	3.53
MW-20	6/24/2008		8.52				<1.00	<1.00	<1.00	<3.00
MW-21	6/24/2008		8.20				<1.00	<1.00	<1.00	<3.00
MW-22	6/24/2008		8.66				<1.00	<1.00	<1.00	<3.00
MW-23	6/24/2008		9.14				83.13	1.43	164.46	1,283
	11/10/2008		8.95		4.12	1.8	1.46	<1.00	1.54	<3.00
	2/23/2009						WELL DRY			
	9/1/2009					1724	WELL DRY			



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MW-24	6/24/2008		9.00				<1.00	<1.00	<1.00	<3.00
	11/10/2008		8.85		4.31	0.0	<1.00	<1.00	<1.00	6.27
	2/23/2009		8.84		2.35		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.00			6.9	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.09		2.54	958	<1.00	<1.00	<1.00	<3.00
MW-25	6/24/2008		8.86				120.95	<1.00	17.52	602.10
	11/10/2008		8.85		4.12	0.0	47.5	<1.00	7.73	28.8
	2/23/2009		8.71		1.10		20.3	<1.00	1.64	3.86
	5/27/2009		7.95		0.39	1.4	29.9	<1.00	7.40	7.13
	9/1/2009		9.05		1.47	87.4	<1.00	<1.00	<1.00	<3.00
MW-26	6/24/2008		8.35				75.72	<1.00	71.24	598.70
	11/10/2008		8.47		0.60	0.0	57.4	<1.00	36.4	47.60
	2/23/2009		8.26		1.23		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.50		0.31	0.2	2.02	<1.00	1.97	<3.00
	9/1/2009		8.54		2.62	2.8	<1.00	<1.00	<1.00	<3.00
MW-27	6/24/2008		8.73				<1.00	<1.00	<1.00	<3.00
	11/10/2008		9.07		0.87	0.0	1.72	<1.00	<1.00	18.4
	2/23/2009		8.87		2.70		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.03		1.24	0.1	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.07		1.56	4.8	<1.00	<1.00	<1.00	<3.00
MW-28	6/24/2008		8.85				<1.00	<1.00	<1.00	2.97



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NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	DO (mg/L)	PID (ppm)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW-29	6/24/2008		8.89				<1.00	<1.00	<1.00	<3.00
	11/10/2008		9.69		0.17	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.46		0.46		<1.00	<1.00	4.18	5.23
	5/27/2009		8.65		0.40	0.1	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.61		1.52	758	<1.00	<1.00	<1.00	<3.00
MW-30	6/24/2008		8.57				<1.00	<1.00	<1.00	<3.00
	11/10/2008		8.56		1.52	0.0	<1.00	<1.00	<1.00	2.88
	2/23/2009		8.46		1.76		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.69			0.1	<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.67		1.48	2.2	<1.00	<1.00	<1.00	<3.00
MW-31	6/24/2008		7.94				<1.00	<1.00	<1.00	<3.00
MW-32	7/7/2008						<1.0	<1.0	<1.0	<1.0
	11/10/2008		9.57		0.86	0.0	<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.42		1.54		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.70		0.46	0.7	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.74		2.22	4.8	<1.00	<1.00	<1.00	<3.00
MW-33	7/7/2008						1.4	<1.0	10	5.9
	11/10/2008						WELL DESTROYED			



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MW-34	7/7/2008						160	<1.00	370	2,800
	11/10/2008		8.13		0.71	215	85.7	<1.00	89.4	108
	2/23/2009		7.98		0.68		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.26		0.32	11.0	<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.58		7.20	6.0	<1.00	<1.00	<1.00	<3.00
CDPHE-WQCC Regulation 41 Groundwater Standards							5.0	560	700	1,400

NOTES:

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

Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8260B

btoc - below top of casing

mg/L - milligrams per liter

ppm - parts per million

ug/L - micrograms per liter

DO - dissolved oxygen

PID - photoionization detector

< indicates result is less than the stated laboratory method detection limit

NA - not analyzed

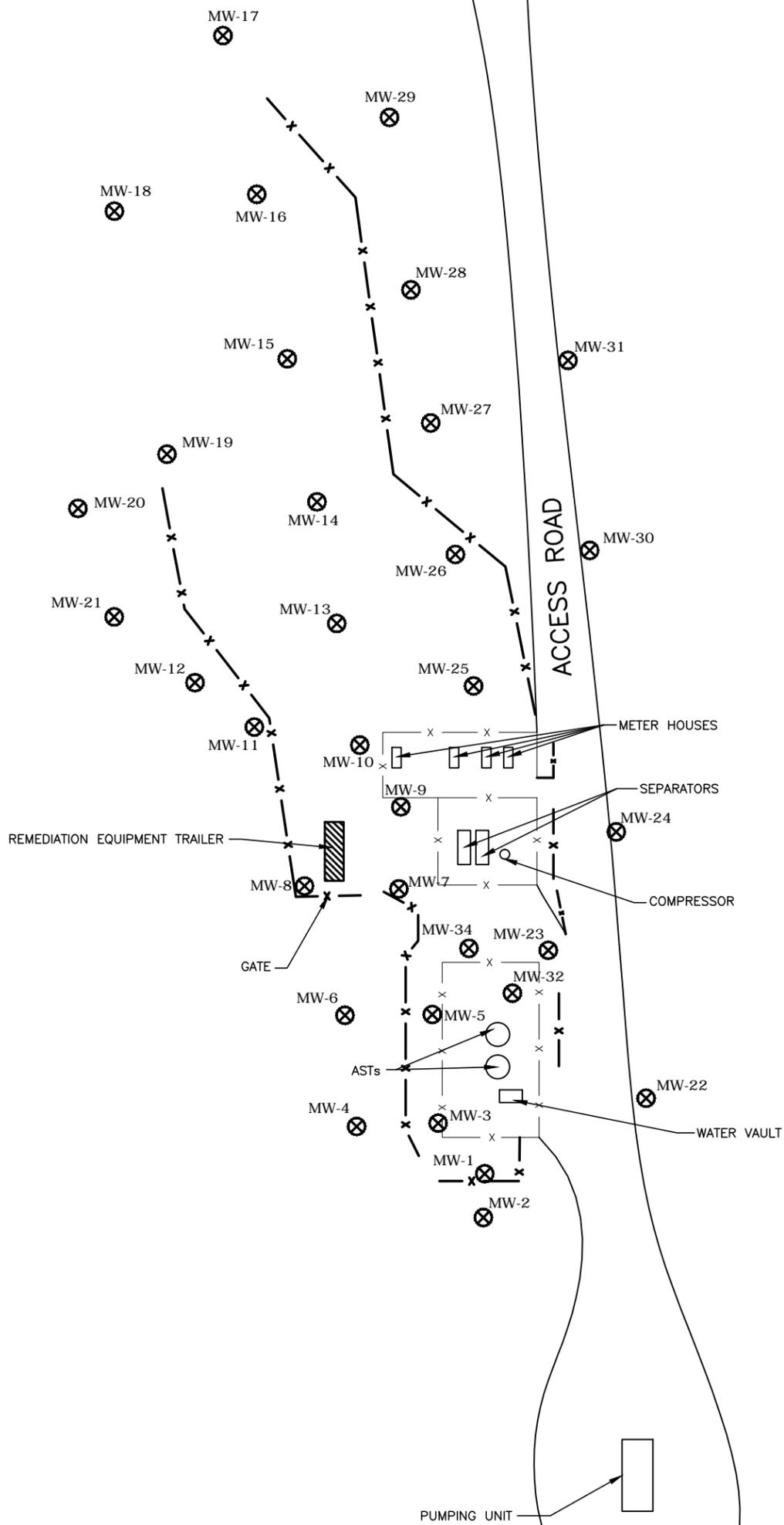
NM - not measured due to free-phase hydrocarbons in monitoring well



FIGURES



COUNTY ROAD 52



LEGEND

- MW-1 MONITORING WELL LOCATION (FORMERLY SOIL BORING LOCATION (SB-1))
- MW-33 DESTROYED MONITORING WELL LOCATION
- x — EXISTING FENCE
- x — NEW FENCE
- AST ABOVEGROUND STORAGE TANK

SOURCE:
LTE SITE SKETCH

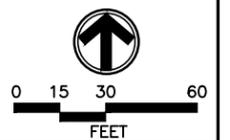
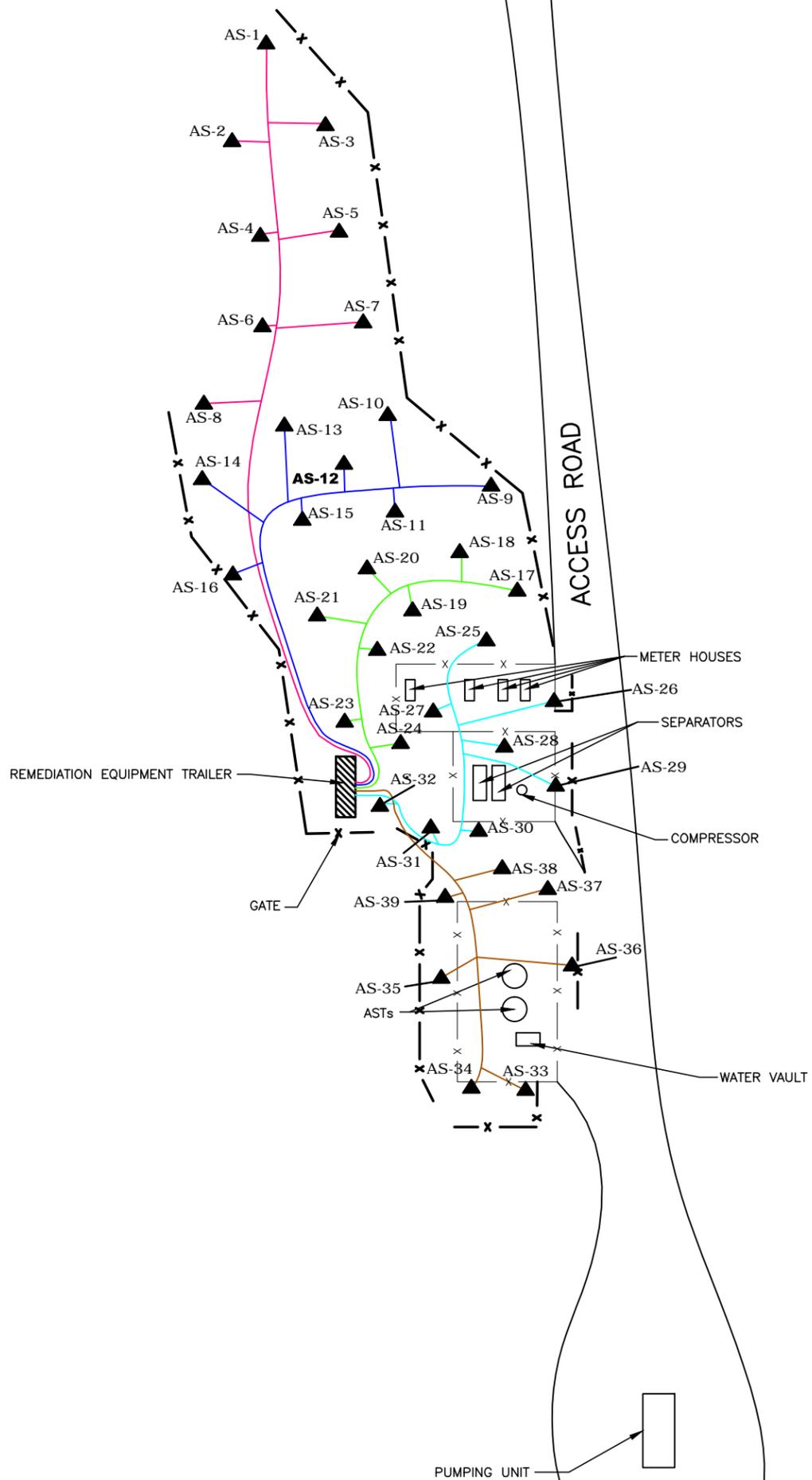


FIGURE 1
SITE MAP
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



2/09\NEP082601

COUNTY ROAD 52



LEGEND

- x — EXISTING FENCE
- x — NEW FENCE
- AS-1 ▲ AIR SPARGING WELL LOCATION
- SYSTEM PIPING (ZONE 1)
- SYSTEM PIPING (ZONE 2)
- SYSTEM PIPING (ZONE 3)
- SYSTEM PIPING (ZONE 4)
- SYSTEM PIPING (ZONE 5)
- AST ABOVEGROUND STORAGE TANK

SOURCE:
LTE SITE SKETCH

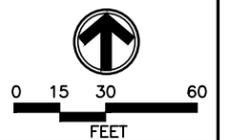
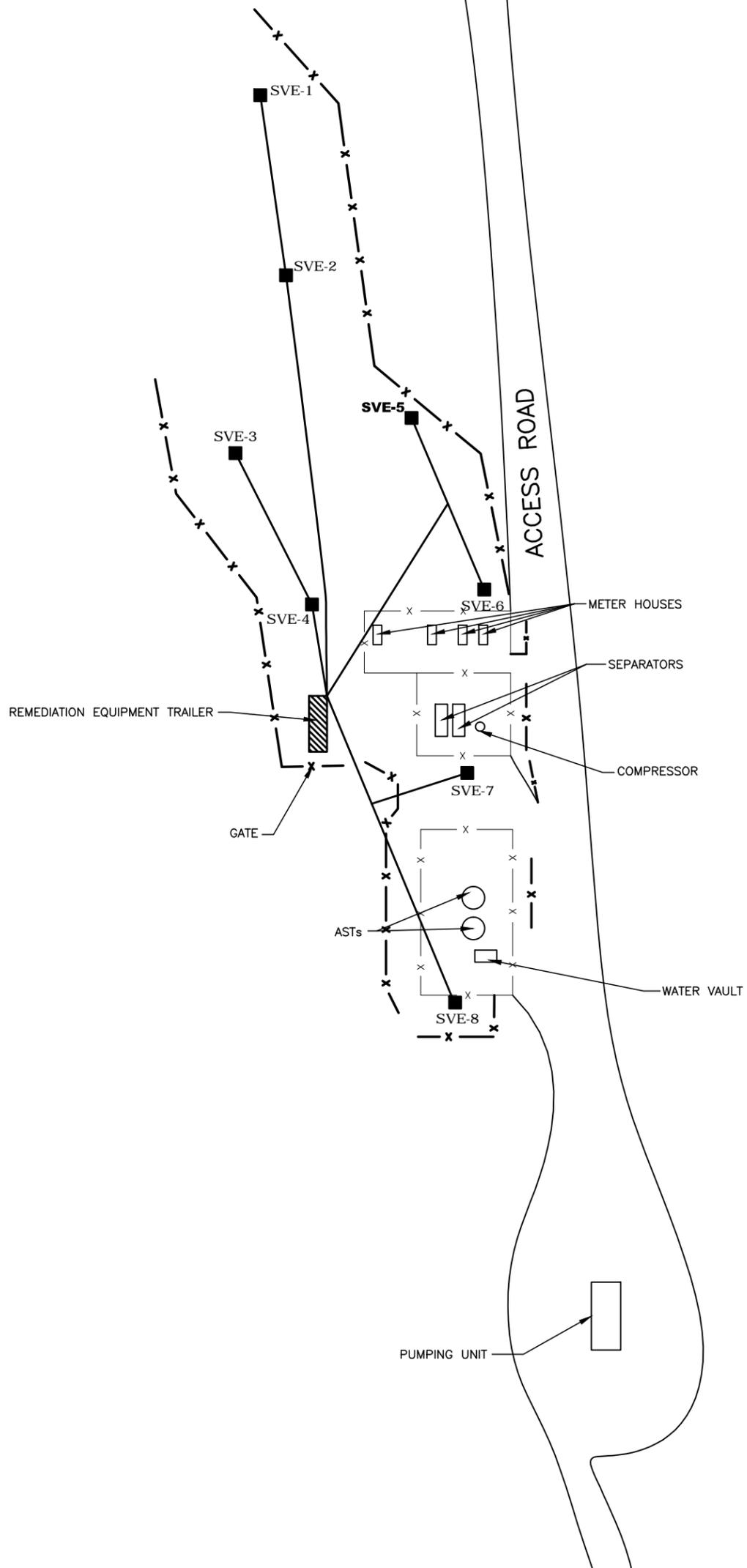


FIGURE 2
AIR SPARGING SYSTEM LAYOUT
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



2/09\NEP082601

COUNTY ROAD 52

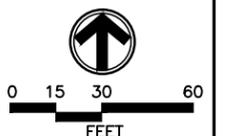


LEGEND

- x — EXISTING FENCE
- x — NEW FENCE
- SVE-1 ■ SOIL VAPOR EXTRACTION WELL LOCATION
- SYSTEM PIPING
- AST ABOVEGROUND STORAGE TANK

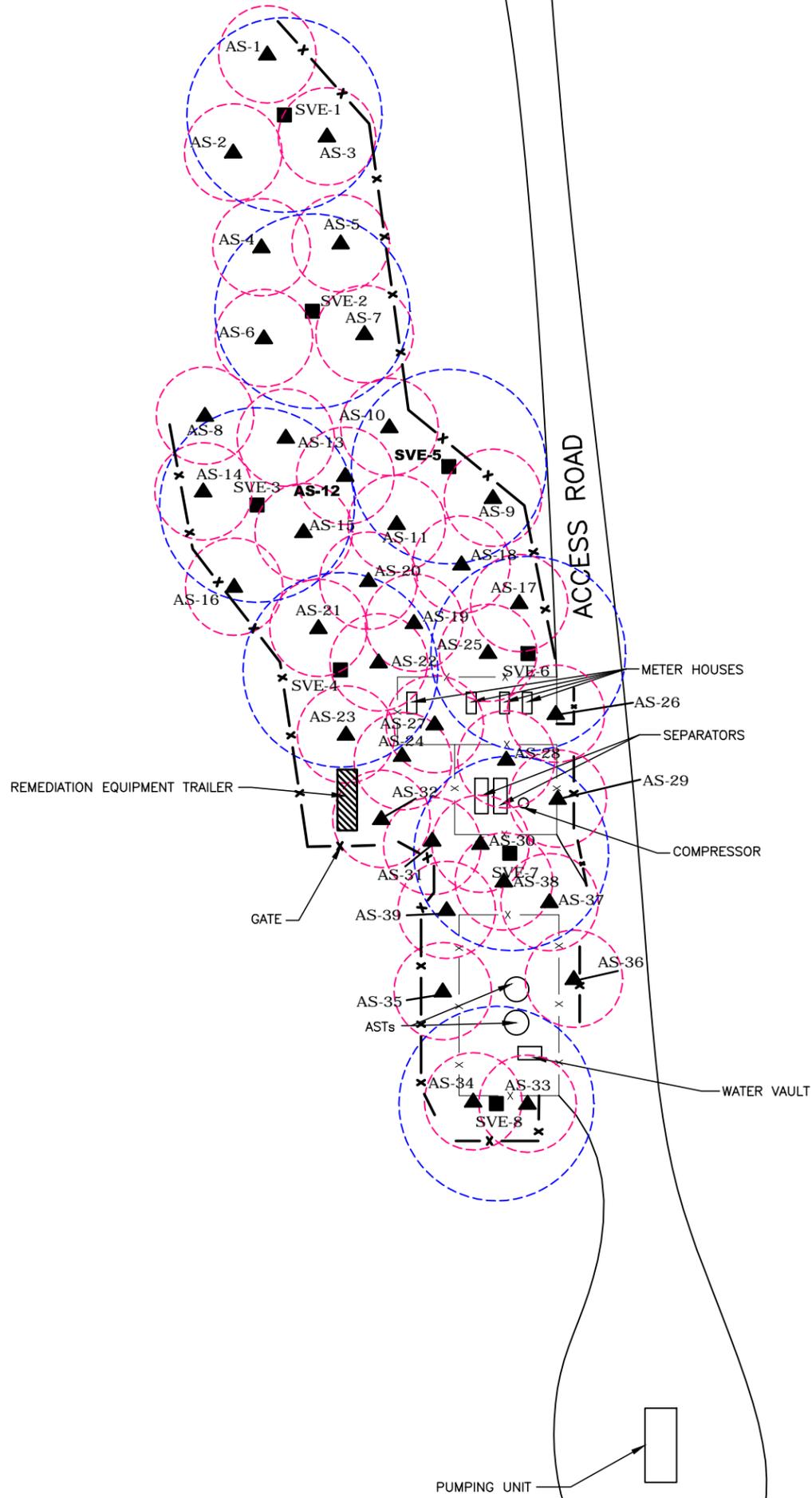
SOURCE:
LTE SITE SKETCH

FIGURE 3
SOIL VAPOR EXTRACTION SYSTEM LAYOUT
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



2/09\NEP082601

COUNTY ROAD 52



LEGEND

- x — EXISTING FENCE
- x — NEW FENCE
- AS-1 ▲ AIR SPARGING WELL LOCATION
- SVE-1 ■ SOIL VAPOR EXTRACTION LOCATION
- AIR SPARGING RADIUS OF INFLUENCE (20 FEET)
- SOIL VAPOR RADIUS OF INFLUENCE (40 FEET)
- AST ABOVEGROUND STORAGE TANK

SOURCE:
LTE SITE SKETCH

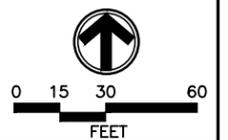
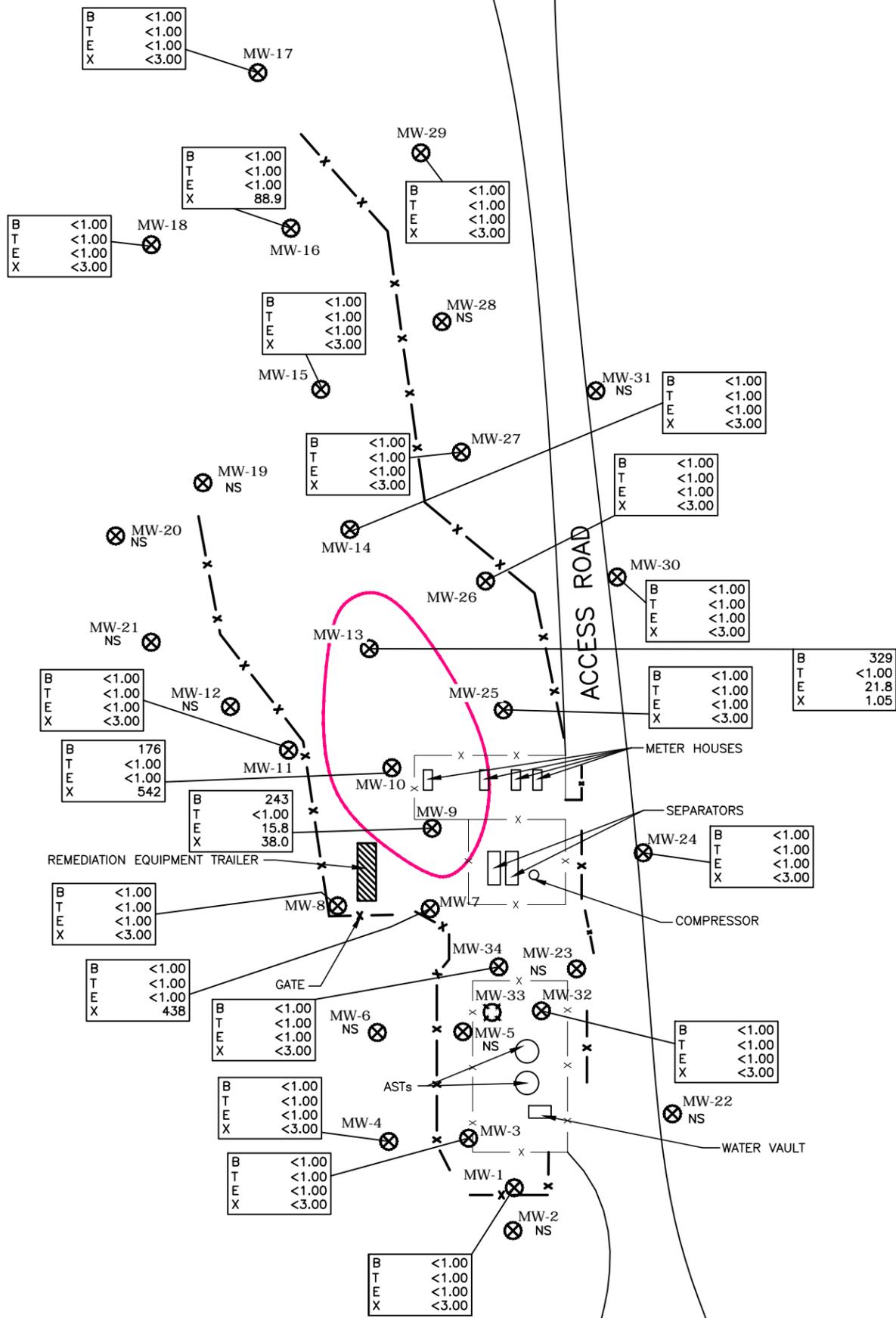


FIGURE 4
RADIUS OF INFLUENCE MAP
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



2/09\NEP082601

COUNTY ROAD 52



LEGEND

- MW-1 MONITORING WELL LOCATION (FORMERLY SOIL BORING LOCATION (SB-1))
- MW-33 DESTROYED MONITORING WELL LOCATION
- x — EXISTING FENCE
- x — NEW FENCE
- AST ABOVEGROUND STORAGE TANK
- 5.0 MICROGRAMS PER LITER (µg/L) BENZENE ISOCONCENTRATION LINE

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

ANALYTICAL RESULTS ARE REPORTED IN µg/L

NS NOT SAMPLED

SOURCE:
LTE SITE SKETCH

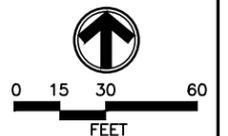


FIGURE 5
GROUNDWATER ANALYTICAL RESULTS
SEPTEMBER 1, 2009
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



COUNTY ROAD 52

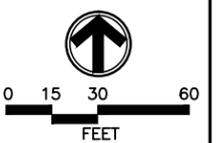


LEGEND

- MW-1 MONITORING WELL LOCATION (FORMERLY SOIL BORING LOCATION (SB-1))
- MW-33 DESTROYED MONITORING WELL LOCATION
- x — EXISTING FENCE
- x — NEW FENCE
- AST ABOVEGROUND STORAGE TANK
- 5.0 MICROGRAMS PER LITER ($\mu\text{g}/\text{L}$) BENZENE ISOCONCENTRATION LINE (SEPTEMBER 2009)
- 5.0 $\mu\text{g}/\text{L}$ BENZENE ISOCONCENTRATION LINE (MAY 2009)
- 5.0 $\mu\text{g}/\text{L}$ BENZENE ISOCONCENTRATION LINE (JUNE 2008)

SOURCE:
LTE SITE SKETCH

FIGURE 6
GROUNDWATER ANALYTICAL SUMMARY
BECKY #2-6
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



2/09\NEP082602

ATTACHMENT
LABORATORY ANALYTICAL REPORTS





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

September 09, 2009

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

Matt Vielhaber
Project Number: NEP0826.01
Project: Noble - Becky #2-6

Attached are the analytical results for Noble - Becky #2-6 received by Origins Laboratory, Inc. 9/2/2009 9:01:00AM. 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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Denver, Colorado 80211
303.433.1322 | Laboratory
303.265.9645 | Fax



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

Matt Vielhaber
Project Number: NEP0826.01
Project: Noble - Becky #2-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
MW-1	X909005-01	Water	9/1/2009 10:25:00AM	09/02/2009 09:01
MW-3	X909005-02	Water	9/1/2009 10:35:00AM	09/02/2009 09:01
MW-4	X909005-03	Water	9/1/2009 10:10:00AM	09/02/2009 09:01
MW-7	X909005-04	Water	9/1/2009 10:50:00AM	09/02/2009 09:01
MW-8	X909005-05	Water	9/1/2009 11:00:00AM	09/02/2009 09:01
MW-9	X909005-06	Water	9/1/2009 1:20:00PM	09/02/2009 09:01
MW-10	X909005-07	Water	9/1/2009 11:15:00AM	09/02/2009 09:01
MW-11	X909005-08	Water	9/1/2009 11:30:00AM	09/02/2009 09:01
MW-13	X909005-09	Water	9/1/2009 12:25:00PM	09/02/2009 09:01
MW-14	X909005-10	Water	9/1/2009 12:40:00PM	09/02/2009 09:01
MW-15	X909005-11	Water	9/1/2009 12:35:00PM	09/02/2009 09:01
MW-16	X909005-12	Water	9/1/2009 12:50:00PM	09/02/2009 09:01
MW-17	X909005-13	Water	9/1/2009 1:00:00PM	09/02/2009 09:01
MW-18	X909005-14	Water	9/1/2009 12:50:00PM	09/02/2009 09:01
MW-24	X909005-15	Water	9/1/2009 11:05:00AM	09/02/2009 09:01
MW-25	X909005-16	Water	9/1/2009 11:27:00AM	09/02/2009 09:01
MW-26	X909005-17	Water	9/1/2009 11:45:00AM	09/02/2009 09:01

Origins Laboratory, Inc.

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

Matt Vielhaber
Project Number: NEP0826.01
Project: Noble – Becky #2–6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
MW-27	X909005-18	Water	9/1/2009 12:30:00PM	09/02/2009 09:01
MW-29	X909005-19	Water	9/1/2009 1:05:00PM	09/02/2009 09:01
MW-30	X909005-20	Water	9/1/2009 11:45:00AM	09/02/2009 09:01
MW-32	X909005-21	Water	9/1/2009 11:15:00AM	09/02/2009 09:01
MW-34	X909005-22	Water	9/1/2009 10:45:00AM	09/02/2009 09:01

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Noelle E Doyle, Laboratory Manager



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

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble - Becky #2-6

1909005
 page 1 of 3



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Client: LT Environmental
 Address: 4600 60th Ave
Arvada, CO 80003
 Telephone Number: 303-433-9788
 E-Mail Address: mviehaber@LTENV.COM

Project Manager: Matt Vielhaber
 Project Name: Becky 2-6
 Project Number: NEP0826
 Samples Collected by: LEV/JMH

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers				Date	Time	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other			
MW01	9-1-09	1025	3						
MW03		1035							
MW04		1010							
MW07		1050							
MW08		1100							
MW09		1320							
MW10		1115							
MW11		1130							
MW13		1225							
MW14		1240							
Relinquished by: <u>Andy R</u>			Received by: <u>[Signature]</u>			Date	Time	Temperature Upon Receipt:	
Date			Date			Time	Time	Turn Around Time:	
9-1-09			9-1-09			15:18		Same Day	
								48-hr	
								72-hr	
								Standard	X

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 4600 West 60th Avenue
 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble - Becky #2-6

X9090005
 page 2 of 3



originslaboratory.com

Client: LT Environmental
 Address: 4600 60th Ave
Arvada CO 80003
 Telephone Number: 303-433-9788
 E-Mail Address: mvvielhaber@LTENV.COM

Project Manager: Matt Vielhaber
 Project Name: Becky 2-6
 Project Number: NEP0826
 Samples Collected by: LEV/MH

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers		Preservative				Matrix			Analysis	Sample Instructions	
			Time	Date	Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air - Summa Canister #			Other
MW15	9-1-09	1235	3		3									
MW16		1250	3		3									
MW17		1300	3		3									
MW18		1250	3		3									
MW24		1105	2		2									
MW25		1127	3		3									
MW26		1145	3		3									
MW27		1230	3		3									
MW29		1305	3		3									
MW30		1145	3		3									
Relinquished by: <u>Ande J</u>	Date: <u>9-1-09</u>	Time: <u>1518</u>	Received by:		Date: <u>9/1/09</u>				Time: <u>15:18</u>			Temperature Upon Receipt:		
Relinquished by:	Date:	Time:	Received by: <u>[Signature]</u>		Date: <u>9/1/09</u>				Time: <u>15:18</u>			Turn Around Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24-hr <input type="checkbox"/> 48-hr <input type="checkbox"/> 72-hr		

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LT Environmental, Inc.
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 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-1
X909005-01 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	85.7-134			"	"	"	
Surrogate: Toluene-d8	109 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.2 %	74.7-127			"	"	"	

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2-6

MW-3
X909005-02 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	85.7-134			"	"	"
Surrogate: Toluene-d8	108 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	84.7 %	74.7-127			"	"	"

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-4
X909005-03 (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	9108001	09/08/2009	09/08/2009	
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>94.9 %</i>	<i>85.7-134</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>81.4-121</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.2 %</i>	<i>74.7-127</i>			<i>"</i>	<i>"</i>	<i>"</i>	

Origins Laboratory, Inc.

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-7
X909005-04 (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	9108001	09/08/2009	09/09/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	0.438	0.0400	"	20	"	"	09/08/2009

Surrogate: 1,2-Dichloroethane-d4	96.2 %	85.7-134			"	"	"
Surrogate: Toluene-d8	113 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	89.8 %	74.7-127			"	"	"

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 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-8
X909005-05 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	85.7-134			"	"	"	
Surrogate: Toluene-d8	99.5 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	74.7-127			"	"	"	

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LT Environmental, Inc.
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 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-9
X909005-06 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.243	0.00100	mg/L	1	9108001	09/08/2009	09/08/2009
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	0.0158	0.00100	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"
m,p-Xylene	0.0380	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.1 %	85.7-134			"	"	"
Surrogate: Toluene-d8	92.4 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	90.8 %	74.7-127			"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-10
X909005-07 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.176	0.0200	mg/L	20	9108001	09/08/2009	09/08/2009
Toluene	ND	0.00100	"	1	"	"	09/09/2009
Ethylbenzene	ND	0.00100	"	"	"	"	"
o-Xylene	0.0412	0.0200	"	20	"	"	09/08/2009
m,p-Xylene	0.501	0.0400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.2 %	85.7-134			"	"	"
Surrogate: Toluene-d8	92.7 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	75.4 %	74.7-127			"	"	"

Origins Laboratory, Inc.

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

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-11
X909005-08 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.3 %	85.7-134			"	"	"	
Surrogate: Toluene-d8	123 %	81.4-121			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	108 %	74.7-127			"	"	"	

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

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-13
X909005-09 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.329	0.0100	mg/L	10	9108001	09/08/2009	09/08/2009
Toluene	ND	0.00100	"	1	"	"	09/09/2009
Ethylbenzene	0.0218	0.00100	"	"	"	"	"
o-Xylene	0.00105	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.2 %	85.7-134			"	"	"
Surrogate: Toluene-d8	104 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	74.7-127			"	"	"

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 Arvada CO 80003

Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-14
X909005-10 (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	9108001	09/08/2009	09/08/2009	
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>98.5 %</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>92.6 %</i>	<i>74.7-127</i>			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-15
X909005-11 (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	9108001	09/08/2009	09/08/2009	
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>99.8 %</i>	<i>85.7-134</i>			"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>81.4-121</i>			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.7 %</i>	<i>74.7-127</i>			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-16
X909005-12 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	0.0889	0.00200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.3 %</i>	<i>85.7-134</i>			"	"	"
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>81.4-121</i>			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.0 %</i>	<i>74.7-127</i>			"	"	"

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-17
X909005-13 (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	9108001	09/08/2009	09/08/2009	
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>97.7 %</i>	<i>85.7-134</i>			"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>	<i>81.4-121</i>			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>74.7-127</i>			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-18
X909005-14 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	85.7-134			"	"	"	
Surrogate: Toluene-d8	110 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	74.7-127			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-24
X909005-15 (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	9108001	09/08/2009	09/08/2009	
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>99.8 %</i>	<i>85.7-134</i>			"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>81.4-121</i>			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.7 %</i>	<i>74.7-127</i>			"	"	"	

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 Project: Noble – Becky #2–6

MW-25
X909005-16 (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	9108001	09/08/2009	09/08/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	85.7-134			"	"	"	
Surrogate: Toluene-d8	112 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	74.7-127			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-26
X909005-17 (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	9108001	09/08/2009	09/08/2009	
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>101 %</i>	<i>85.7-134</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>81.4-121</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.5 %</i>	<i>74.7-127</i>			<i>"</i>	<i>"</i>	<i>"</i>	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-27
X909005-18 (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	9108001	09/08/2009	09/09/2009	
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>101 %</i>	<i>85.7-134</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>	<i>81.4-121</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.5 %</i>	<i>74.7-127</i>			<i>"</i>	<i>"</i>	<i>"</i>	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-29
X909005-19 (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	9108001	09/08/2009	09/09/2009	
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>100 %</i>	<i>85.7-134</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>81.4-121</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.5 %</i>	<i>74.7-127</i>			<i>"</i>	<i>"</i>	<i>"</i>	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-30
X909005-20 (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	9108001	09/08/2009	09/09/2009	
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>	100 %	85.7-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	111 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	107 %	74.7-127			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-32
X909005-21 (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	9108001	09/08/2009	09/09/2009	
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>	102 %	85.7-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	110 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	107 %	74.7-127			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

MW-34
X909005-22 (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	9108001	09/08/2009	09/09/2009	
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>99.5 %</i>	<i>85.7-134</i>			"	"	"	
<i>Surrogate: Toluene-d8</i>	<i>111 %</i>	<i>81.4-121</i>			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.9 %</i>	<i>74.7-127</i>			"	"	"	

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2–6

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 9I08001 – EPA 5030B

Blank (9I08001–BLK1)

Prepared: 09/08/2009 Analyzed: 09/08/2009

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>	59.0		ug/L	62.5		94.4	85.7–134			
<i>Surrogate: Toluene-d8</i>	76.1		"	62.5		122	81.4–121			S–GC
<i>Surrogate: 4-Bromofluorobenzene</i>	61.7		"	62.5		98.7	74.7–127			

Blank (9I08001–BLK2)

Prepared: 09/08/2009 Analyzed: 09/08/2009

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>	59.7		ug/L	62.5		95.5	85.7–134			
<i>Surrogate: Toluene-d8</i>	72.6		"	62.5		116	81.4–121			
<i>Surrogate: 4-Bromofluorobenzene</i>	55.8		"	62.5		89.2	74.7–127			

LCS (9I08001–BS1)

Prepared: 09/08/2009 Analyzed: 09/08/2009

Benzene	0.05	0.001	mg/L	0.0500		103	74.9–126			
Toluene	0.06	0.001	"	0.0500		115	73.3–128			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	59.6		ug/L	62.5		95.3	85.7–134			
<i>Surrogate: Toluene-d8</i>	79.0		"	62.5		126	81.4–121			S–GC
<i>Surrogate: 4-Bromofluorobenzene</i>	58.0		"	62.5		92.9	74.7–127			

LCS (9I08001–BS2)

Prepared: 09/08/2009 Analyzed: 09/08/2009

Benzene	0.05	0.001	mg/L	0.0500		100	74.9–126			
Toluene	0.05	0.001	"	0.0500		99.0	73.3–128			

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Matt Vielhaber
 Project Number: NEP0826.01
 Project: Noble – Becky #2-6

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 9I08001 – EPA 5030B											
LCS (9I08001-BS2)					Prepared: 09/08/2009 Analyzed: 09/08/2009						
Surrogate: 1,2-Dichloroethane-d4	59.2		ug/L	62.5		94.7	85.7-134				
Surrogate: Toluene-d8	68.0		"	62.5		109	81.4-121				
Surrogate: 4-Bromofluorobenzene	54.9		"	62.5		87.9	74.7-127				
Matrix Spike (9I08001-MS1)					Source: X909005-11			Prepared: 09/08/2009 Analyzed: 09/08/2009			
Benzene	0.05	0.001	mg/L	0.0500	ND	104	78.1-132				
Toluene	0.05	0.001	"	0.0500	ND	103	71.7-124				
Surrogate: 1,2-Dichloroethane-d4	60.1		ug/L	62.5		96.2	85.7-134				
Surrogate: Toluene-d8	69.7		"	62.5		111	81.4-121				
Surrogate: 4-Bromofluorobenzene	65.3		"	62.5		104	74.7-127				
Matrix Spike (9I08001-MS2)					Source: X909005-14			Prepared: 09/08/2009 Analyzed: 09/08/2009			
Benzene	0.05	0.001	mg/L	0.0500	ND	108	78.1-132				
Toluene	0.05	0.001	"	0.0500	ND	103	71.7-124				
Surrogate: 1,2-Dichloroethane-d4	59.9		ug/L	62.5		95.9	85.7-134				
Surrogate: Toluene-d8	67.0		"	62.5		107	81.4-121				
Surrogate: 4-Bromofluorobenzene	63.4		"	62.5		101	74.7-127				
Matrix Spike Dup (9I08001-MSD1)					Source: X909005-11			Prepared: 09/08/2009 Analyzed: 09/08/2009			
Benzene	0.05	0.001	mg/L	0.0500	ND	102	78.1-132	1.74	24.8		
Toluene	0.05	0.001	"	0.0500	ND	101	71.7-124	2.69	25		
Surrogate: 1,2-Dichloroethane-d4	60.4		ug/L	62.5		96.6	85.7-134				
Surrogate: Toluene-d8	69.6		"	62.5		111	81.4-121				
Surrogate: 4-Bromofluorobenzene	56.7		"	62.5		90.7	74.7-127				
Matrix Spike Dup (9I08001-MSD2)					Source: X909005-14			Prepared: 09/08/2009 Analyzed: 09/08/2009			
Benzene	0.05	0.001	mg/L	0.0500	ND	104	78.1-132	3.86	24.8		
Toluene	0.05	0.001	"	0.0500	ND	99.0	71.7-124	3.51	25		
Surrogate: 1,2-Dichloroethane-d4	58.0		ug/L	62.5		92.8	85.7-134				

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Matt Vielhaber
Project Number: NEP0826.01
Project: Noble – Becky #2–6

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 9I08001 – EPA 5030B

Matrix Spike Dup (9I08001–MSD2)

Source: X909005–14

Prepared: 09/08/2009 Analyzed: 09/08/2009

Surrogate: Toluene-d8	67.4		ug/L	62.5	108	81.4–121
Surrogate: 4–Bromofluorobenzene	65.7		"	62.5	105	74.7–127

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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