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September 14, 2012

Mr. Leonard Lowe  
Environmental Bureau Chief  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

**RE: First 2012 Semi Annual Groundwater Monitoring Report  
Former DCP Lee Gas Plant (GW-002)  
Unit N Section 30, Township 17 South, Range 35 East**

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Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the 1<sup>st</sup> 2012 Semi Annual Groundwater Monitoring Report for the Former DCP Lee Gas Plant located in Lea County, New Mexico (Unit N Section 30, Township 17 South, Range 35 East).

Groundwater monitoring activities were completed June 7, 2012. The data indicate that the dissolved phase hydrocarbon plume continues to attenuate to below NM WQCC groundwater standards before reaching the down-gradient boundary wells. The next groundwater monitoring event is scheduled for the second half of 2012.

If you have any questions regarding the report, please call at 303-605-1695 or e-mail me [CECole@dcpmidstream.com](mailto:CECole@dcpmidstream.com).

Sincerely,

DCP Midstream, LP

Chandler E Cole  
Senior Environmental Specialist

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs  
Environmental Files

**First Half Semi-Annual 2012  
Groundwater Monitoring Summary Report**

**Former Lee Gas Plant  
Lea County, New Mexico  
GW-002**

**Prepared for:**



**370 17<sup>th</sup> St., Suite 2500  
Denver, CO 80202**

***Prepared by:***



**5690 Webster, Ave  
Arvada, CO 80002**

**August 1, 2012**

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## 1. Introduction

This report summarizes the results of the first half semi-annual groundwater monitoring and free phase hydrocarbon removal activities at the Former Lee Gas Plant (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences, LLC (Tasman) conducted these activities on behalf of DCP Midstream, LP (DCP). The field activities performed during the reporting period were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected during the first half of 2012 and data collected during previous reporting periods.

## 2. Site Location and Background

The Site is located in the southwest quarter of the southeast quarter of Section 30, Township 17 South, Range 35 East (approximate coordinates 32.800 degrees north and 103.495 degrees west). It is approximately 0.45 miles southeast of the intersection of US Highway 238 and County Road 50. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas extraction and conveyance.

According to information provided in previous Site investigation reports, Lee was historically used as a gas processing and compression plant. In 1988, Phillips 66 Natural Gas Company was ordered to install four monitoring wells (MW-1 through MW-4) in accordance with the Resource Conservation and Recovery Act (RCRA). The first groundwater sampling event took place May 13, 1988 and identified impacts in the location of two former evaporation ponds north and east of the main plant. LNAPL was identified immediately above the water table at an approximate depth of 106 feet below ground surface. Several additional investigation activities took place in order to determine the extent of both the free phase and dissolved phase hydrocarbon plumes, requiring installation of monitoring and recovery wells, as specified below:

- MW-5 through MW-8 and RW-1: Installed May 1990; LNAPL recovery began on RW-1.
- MW-9 through MW-12: Installed October 1990.
- MW-13 and MW-14: Installed March 1991; MW-7, MW-8, and MW-10 were converted into recovery wells.
- MW-15 through MW-20: Installed February 1992.

Following installation of the final six wells quarterly groundwater sampling commenced, as the final phase of subsurface investigation was complete. BDM International, Inc. suggested initiation of additional remedial activities. A soil vapor extraction (SVE) and air sparge system operated between 1993 and 2004. Currently the Lee Gas Plant is sampled on a semi annual basis.

### 3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the first half semi-annual 2012 monitoring event. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

#### 3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. During the first half semi-annual 2012 event groundwater levels were measured at eighteen of the nineteen Site monitoring well locations. Monitoring well MW-15 was not gauged due to an impassible obstruction in the well casing.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and calculated groundwater elevation data are presented in Table 1 and a first half semi-annual 2012 groundwater elevation contour map is illustrated on Figure 3. The presence of LNAPL, where detected by the IP, is also presented in Table 1.

Groundwater elevations ranged from 3,869.45 feet AMSL at monitoring well MW-20 to 3,873.35 feet AMSL at monitoring well MW-16. Groundwater flow at the Site generally trends to the southwest (Figure 3) with a gradient of approximately 0.0027 foot per foot between monitoring wells MW-16 and MW-20.

Groundwater elevations from the highest and lowest measured wells were not used in calculating hydraulic gradient due to the presence of LNAPL and corrections required. The selected elevations were directly measured and are representative of the general observed gradient and flow direction.

LNAPL was detected at the following locations, with measured thickness indicated in parenthesis:

- MW-5 (0.73-ft)
- MW-6 (0.13-ft)
- MW-8 (0.29-ft)

As stated above, although LNAPL has been routinely observed in monitoring well MW-15, it was not gauged during the first half semi-annual 2012 event.

### 3.2 Groundwater Quality Monitoring

Subsequent to the collection of groundwater level measurements at each monitoring well, groundwater samples were collected from fourteen of nineteen wells. Monitoring wells with detected LNAPL, MW-5, MW-6, MW-8 and MW-15, were not sampled. Additionally, MW-3 did not contain sufficient water to obtain a representative sample.

A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Groundwater samples were collected using dedicated polyethylene bailers, placed in clean laboratory supplied containers for the selected analytical methods and packed in an ice-filled cooler and maintained at approximately four degrees Celsius ( $^{\circ}\text{C}$ ) for transportation to the laboratory. Groundwater samples were shipped under chain-of-custody procedures to Accutest Laboratories (Accutest) in Wheat Ridge, Colorado, for analysis.

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Concentrations exceeding the applicable groundwater standard are summarized below.

- Benzene was detected at concentrations in excess of the New Mexico Water Quality Control Commission Standard of 0.01 milligrams per liter (mg/L) at five locations:
  - **MW-7:** 0.037 mg/L
  - **MW-9:** 13 mg/L
  - **MW-10:** 29 mg/L
  - **MW-12:** 0.74 mg/L
  - **MW-21:** 4.4 mg/L
- LNAPL was detected at four (4) locations as indicated in Section 3.1 above.

Figure 4 shows all analytical results from the first half semi-annual 2012 event, in addition to the second half semi-annual 2011 analytical results.

Table 2 presents first half semi-annual 2012 analytical data as well as recent historical results. Laboratory analytical reports for the event are included in Appendix A.

Water quality parameters were collected during the first half semi-annual 2012 monitoring event, and parameter stabilization was achieved within three purge volumes. Therefore, the analytical data are considered to be representative of site conditions.

### 4. Free Phase Hydrocarbon Removal

Monitoring wells MW-5, MW-6, MW-8, and MW-15 all contained measureable free phase hydrocarbons (FPH). FPH product was bailed from MW-15 each month and containerized onsite. FPH removal activities for the first half of 2012 are summarized in Appendix B.

## 5. Conclusions

Comparison of the first half semi-annual 2012 monitoring data with historic information provides the following general observations:

- Based on historical groundwater elevations, the potentiometric surface has remained relatively stable with minor seasonal fluctuations.
- Three of the five wells with benzene in exceedence of the New Mexico Water Quality Control Commission Groundwater Standard showed increased concentrations of at least one order of magnitude during the first half semi-annual 2012 event. The remaining two wells with elevated benzene had had the highest contaminant concentration level observed within the last two years. Although minor seasonal groundwater elevation fluctuations may be attributed to this increase, elevated levels may suggest the area of dissolved phase hydrocarbons is gradually moving down gradient. However, monitoring will continue in order to establish a trend.
- Dissolved-phase impacts precede LNAPL observations over a relatively short period of time with minor lateral dispersion. This indicates that the dissolved phase BTEX plume has not extended well in advance of the LNAPL, possibly due to attenuation, low permeability aquifer material, low hydraulic gradient, and/or a combination of these factors.
- LNAPL detections persist in monitoring wells located at the northern end of the facility where the former evaporation ponds were located.

## 6. Recommendations

Based on evaluation of Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2 in order to delineate any potential down gradient movement of the dissolved phase hydrocarbon plume.
- Continue assessment of the LNAPL removal activities conducted at the Site.

## **Tables**

**TABLE 1**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-3	3/29/2010					3980.27	3872.75	
MW-3	9/24/2010					3980.27	3872.68	-0.07
MW-3	6/3/2011	107.54			108.84	3980.27	3872.73	0.05
MW-3	12/15/2011	107.56			108.84	3980.27	3872.71	-0.02
MW-3	6/7/2012	107.70			108.84	3980.27	3872.57	-0.14
MW-5*	3/29/2010					3979.82	3873.54	
MW-5*	9/24/2010					3979.82	3872.95	-0.59
MW-5*	6/3/2011	106.87	106.56	0.31	112.64	3979.82	3873.18	0.23
MW-5*	12/15/2011	107.52	106.70	0.82	112.64	3979.82	3872.92	-0.27
MW-5*	6/7/2012	107.85	107.12	0.73	112.64	3979.82	3872.52	-0.40
MW-6*	3/29/2010					3981.79	3873.76	
MW-6*	9/24/2010					3981.79	3873.30	-0.46
MW-6*	6/3/2011	108.32	108.25	0.07	113.20	3981.79	3873.52	0.22
MW-6*	12/15/2011	108.79	108.69	0.10	113.20	3981.79	3873.08	-0.45
MW-6*	6/7/2012	109.13	109.00	0.13	113.20	3981.79	3872.76	-0.32
MW-7	3/29/2010					3978.45	3872.07	
MW-7	9/24/2010					3978.45	3871.98	-0.09
MW-7	6/3/2011	106.69			111.67	3978.45	3871.76	-0.22
MW-7	12/15/2011	107.06			111.67	3978.45	3871.39	-0.37
MW-7	6/7/2012	107.35			111.67	3978.45	3871.10	-0.29
MW-8*	3/29/2010					3979.96	3872.21	
MW-8*	9/24/2010					3979.96	3871.99	-0.22
MW-8*	6/3/2011	108.01	107.80	0.21	110.82	3979.96	3872.11	0.12
MW-8*	12/15/2011	108.59	108.19	0.40	110.82	3979.96	3871.67	-0.44
MW-8*	6/7/2012	108.90	108.61	0.29	110.82	3979.96	3871.28	-0.39
MW-9*	3/29/2010					3980.17	3872.24	
MW-9*	9/24/2010					3980.17	3872.19	-0.05
MW-9*	6/3/2011	108.21	108.19	0.02	116.92	3980.17	3871.98	-0.22
MW-9	12/16/2011	108.68			116.92	3980.17	3871.49	-0.48
MW-9	6/7/2012	109.00			116.92	3980.17	3871.17	-0.32
MW-10	3/29/2010					3979.66	3871.95	
MW-10	9/24/2010					3979.66	3871.87	-0.08
MW-10	6/3/2011	107.99			117.41	3979.66	3871.67	-0.20
MW-10	12/15/2011	108.35			117.41	3979.66	3871.31	-0.36
MW-10	6/7/2012	108.71			117.41	3979.66	3870.95	-0.36
MW-11	3/29/2010					3978.50	3871.58	
MW-11	9/24/2010					3978.50	3871.55	-0.03
MW-11	6/3/2011	107.19			117.98	3978.50	3871.31	-0.24
MW-11	12/15/2011	107.60			117.98	3978.50	3870.90	-0.41
MW-11	6/8/2012	108.01			117.98	3978.50	3870.49	-0.41
MW-12	3/29/2010					3978.82	3871.47	
MW-12	9/24/2010					3978.82	3871.46	-0.01
MW-12	6/3/2011	107.62			117.35	3978.82	3871.20	-0.26
MW-12	12/16/2011	108.06			117.35	3978.82	3870.76	-0.44
MW-12	6/7/2012	107.27			117.35	3978.82	3871.55	0.79

**TABLE 1**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-13	3/29/2010					3980.52	3871.37	
MW-13	9/24/2010					3980.52	3871.34	-0.03
MW-13	6/3/2011	109.42			117.27	3980.52	3871.10	-0.24
MW-13	12/16/2011	109.92			117.27	3980.52	3870.60	-0.50
MW-13	6/7/2012	110.10			117.27	3980.52	3870.42	-0.18
MW-14	3/29/2010					3982.23	3871.78	
MW-14	9/24/2010					3982.23	3871.72	-0.06
MW-14	6/3/2011	110.76			118.36	3982.23	3871.47	-0.25
MW-14	12/15/2011	111.23			118.36	3982.23	3871.00	-0.47
MW-14	6/7/2012	111.50			118.36	3982.23	3870.73	-0.27
MW-15*	3/29/2010					3981.70	NM	
MW-15*	9/24/2010					3981.70	NM	
MW-15*	6/3/2011	110.38	107.44	2.94	122.70	3981.70	3873.53	
MW-15*	12/15/2011	111.96	107.55	4.41	122.70	3981.70	3873.05	-0.48
MW-15*	6/7/2012	NM	NM	NM	122.70	3981.70	NM	NM
MW-16	3/29/2010					3980.80	3874.29	
MW-16	9/24/2010					3980.80	3874.22	-0.07
MW-16	6/3/2011	106.73			122.74	3980.80	3874.07	-0.15
MW-16	12/15/2011	107.19			122.74	3980.80	3873.61	-0.46
MW-16	6/8/2012	107.45			122.74	3980.80	3873.35	-0.26
MW-17	3/29/2010					3981.80	3872.91	
MW-17	9/24/2010					3981.80	3872.85	-0.06
MW-17	6/3/2011	109.13			124.12	3981.80	3872.67	-0.18
MW-17	12/15/2011	109.67			124.12	3981.80	3872.13	-0.54
MW-17	6/7/2012	109.94			124.12	3981.80	3871.86	-0.27
MW-18	3/29/2010					3983.10	3872.87	
MW-18	9/24/2010					3983.10	3872.82	-0.05
MW-18	6/3/2011	110.47			125.42	3983.10	3872.63	-0.19
MW-18	12/16/2011	111.09			125.42	3983.10	3872.01	-0.62
MW-18	6/7/2012	111.26			125.42	3983.10	3871.84	-0.17
MW-19	3/29/2010					3980.80	3870.68	
MW-19	9/24/2010					3980.80	3870.64	-0.04
MW-19	6/3/2011	110.42			126.56	3980.80	3870.38	-0.26
MW-19	12/16/2011	110.98			126.56	3980.80	3869.82	-0.56
MW-19	6/7/2012	111.15			126.56	3980.80	3869.65	-0.17
MW-20	3/29/2010					3983.30	3870.57	
MW-20	9/24/2010					3983.30	3870.54	-0.03
MW-20	6/3/2011	113.04			128.22	3983.30	3870.26	-0.28
MW-20	12/15/2011	113.72			128.22	3983.30	3869.58	-0.68
MW-20	6/7/2012	113.85			128.22	3983.30	3869.45	-0.13
MW-21	3/29/2010					NM	NM	
MW-21	9/24/2010					NM	NM	
MW-21	6/3/2011	109.28			123.59	NM	NM	
MW-21	12/15/2011	109.70			123.59	NM	NM	
MW-21	6/7/2012	110.01			123.59	NM	NM	

**TABLE 1**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-22	3/29/2010					NM	NM	
MW-22	9/24/2010					NM	NM	
MW-22	6/3/2011	108.97			148.62	NM	NM	
MW-22	12/15/2011	109.38			148.62	NM	NM	
MW-22	6/7/2012	109.70			148.62	NM	NM	
Average change in groundwater elevation since the previous monitoring event								-0.21

Notes:

1- Depths measured from the north edge of the well casing.

2- Total depths were collected and recorded during the first half semi-annual 2012 monitoring event (with the exception of wells that contained LNAPL).

3- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring even from the measurement collected during the most

4- Data presented for well locations includes previous four sampling events, when available. Historic groundwater elevation data prior to the 2010 semi-annual events may be found in Appendix C.

Sample locations are shown on Figure 2 and a groundwater elevation contour map is shown on Figure 3.

5- MW-15 was not gauged during the first half semi-annual event due to an obstruction in the well at 108.5 feet below the top of casing.

amsl - feet above mean sea level.

TOC - top of casing

NM - not measured

\* For wells that contained LNAPL, groundwater elevation was corrected for product thickness using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well \* LNAPL Density)

LNAPL density was assumed to be approximately 0.75 grams per cubic centimeter

**TABLE 2**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Comission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-3	3/29/2010	NS	NS	NS	NS	
MW-3	9/24/2010	NS	NS	NS	NS	
MW-3	6/3/2011	NS	NS	NS	NS	
MW-3	12/15/2011	NS	NS	NS	NS	
MW-3	6/7/2012	NS	NS	NS	NS	
MW-5*	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-7	3/29/2010	4.98	0.0017	0.0146	0.0088	
MW-7	9/24/2010	0.976	0.00057	0.0083	<0.0017	
MW-7	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-7	12/15/2011	0.0013	<0.002	<0.002	<0.004	
MW-7	6/7/2012	0.037	<0.005	<0.005	<0.015	
MW-8*	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	3/29/2010	0.376	<0.002	0.0016	<0.006	
MW-9	9/24/2010	0.0167	<0.002	0.0008	<0.0017	
MW-9*	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/16/2011	12.5	<0.40	0.390	<0.80	
MW-9	6/7/2012	13.0	0.44	<0.025	<0.075	
MW-10	3/29/2010	0.192	<0.002	0.00095	<0.006	
MW-10	9/24/2010	12.2	<0.002	0.0723	0.0026	
MW-10	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-10	12/15/2011	12.5	<0.40	0.204	<0.80	
MW-10	6/7/2012	29.0	0.19	<0.05	<0.15	
MW-11	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-11	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-11	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-11	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-11	6/8/2012	<0.005	<0.005	<0.005	<0.015	
MW-12	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-12	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-12	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-12	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-12	6/7/2012	0.74	<0.005	<0.005	<0.015	

**TABLE 2**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Comission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-13	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-13	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-13	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-13	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-13	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-14	3/29/2010	NS	NS	NS	NS	
MW-14	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-14	6/3/2011	NS	NS	NS	NS	
MW-14	12/15/2011	0.231	<0.002	0.0095	<0.004	
MW-14	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-15*	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-16	3/29/2010	NS	NS	NS	NS	
MW-16	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-16	6/3/2011	NS	NS	NS	NS	
MW-16	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	6/8/2012	<0.005	<0.005	<0.005	<0.015	
MW-17	3/29/2010	NS	NS	NS	NS	
MW-17	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-17	6/3/2011	NS	NS	NS	NS	
MW-17	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-17	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-18	3/29/2010	NS	NS	NS	NS	
MW-18	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-18	6/3/2011	NS	NS	NS	NS	
MW-18	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-18	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-19	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-19	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-19	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-20	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-20	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-20	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	12/15/2011	0.0013	<0.002	<0.002	<0.004	
MW-20	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-21	3/29/2010	14.8	0.00265	1.54	0.1945	
MW-21	9/24/2010	11.555	0.0019	1.535	0.02645	
MW-21	6/3/2011	7.97	0.0012	0.536	<0.004	Duplicate sample collected
MW-21	12/16/2011	0.671	<0.02	0.0513	<0.04	Duplicate sample collected
MW-21	6/7/2012	4.4	0.24	<0.025	0.086	Duplicate sample collected

**TABLE 2**  
**FIRST HALF SEMI ANNUAL 2012**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Comission Groundwater Standards (mg/L)		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-22	3/29/2010	NS	NS	NS	NS	
MW-22	9/24/2010	<b>0.0114</b>	<0.002	0.0033	<0.006	
MW-22	6/3/2011	NS	NS	NS	NS	
MW-22	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-22	6/7/2012	<0.005	<0.005	<0.005	<0.015	

Notes:

- 1.) The environmental cleanup standards for water that are applicable to the Former Lee Gas Plant site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.
- 2.) Data presented for all well locations includes previous four sampling events, when available. Historic groundwater elevation data prior to the 2010 semi-annual events may be found in Appendix C.

**Bold** red values indicate an exceedance of the NMWQCC groundwater standards for the Site.

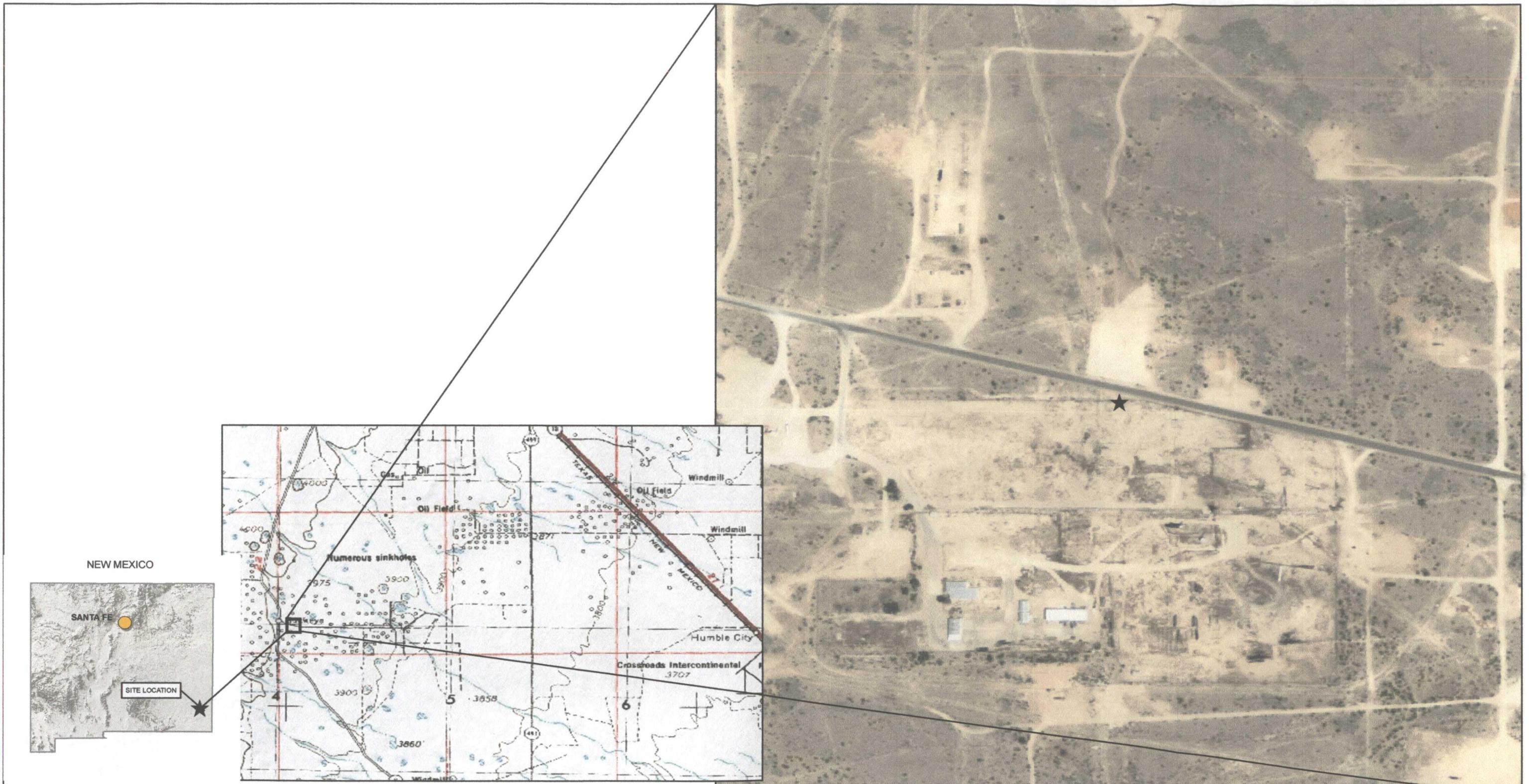
Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

LNAPL = Light Non-Aqueous Phase Liquid

NM = Not measured.

mg/L = milligrams per liter.

## **Figures**



DESIGNED BY: C. Wasko  
 DRAWN BY: J. Clonts  
 SHEET CHK'D BY: \_\_\_\_\_  
 CROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_



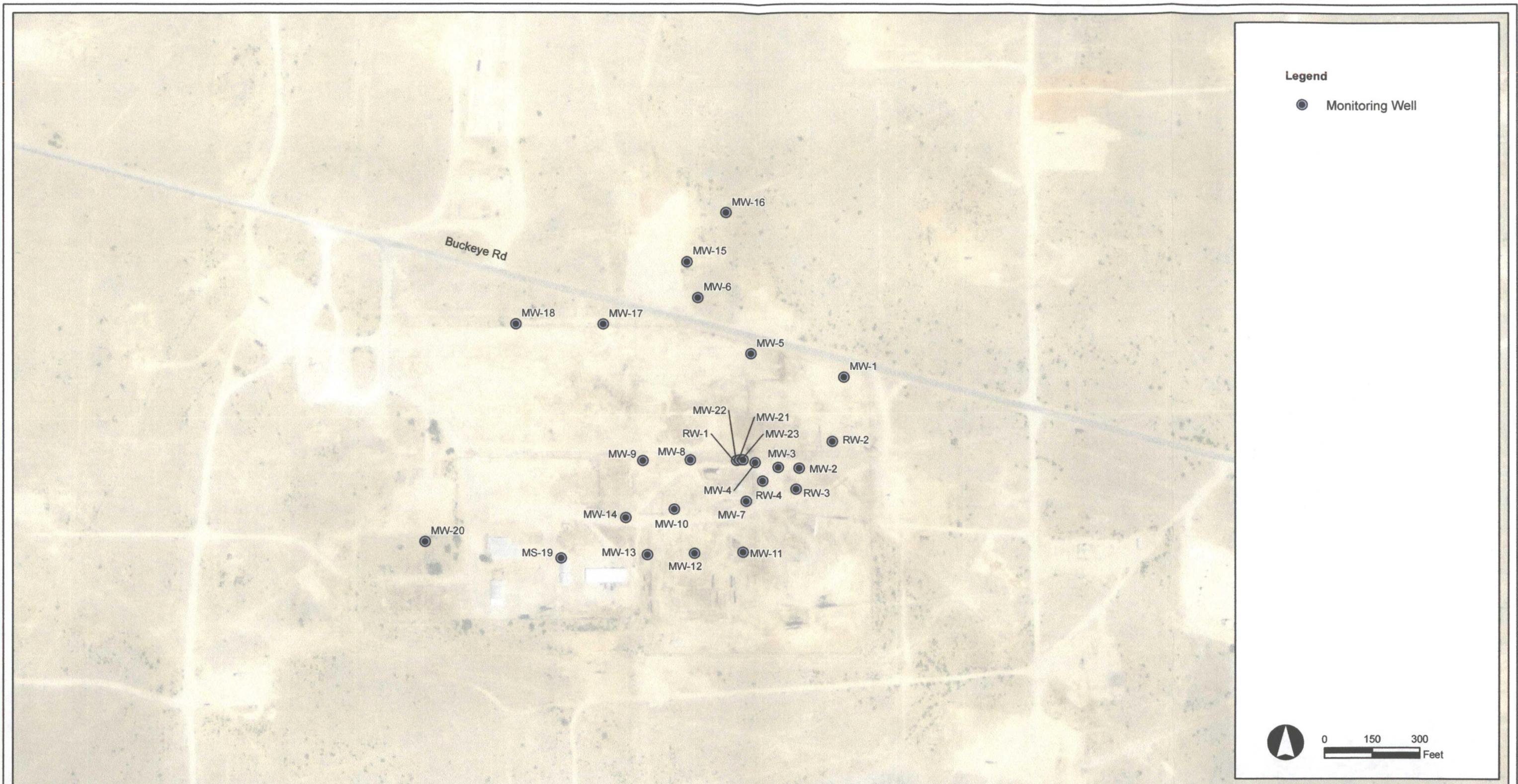
Tasman Geosciences, LLC  
 5690 Webster St.  
 Arvada, CO 80002  
 720-988-2024

## FORMER LEE GAS PLANT

*First Half 2012 Semi-Annual Groundwater  
 Monitoring Summary Report*

SITE LOCATION

FIGURE  
1



DESIGNED BY: C. Wasko  
 DRAWN BY: J. Clonts  
 SHEET CHK'D BY: \_\_\_\_\_  
 CROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_



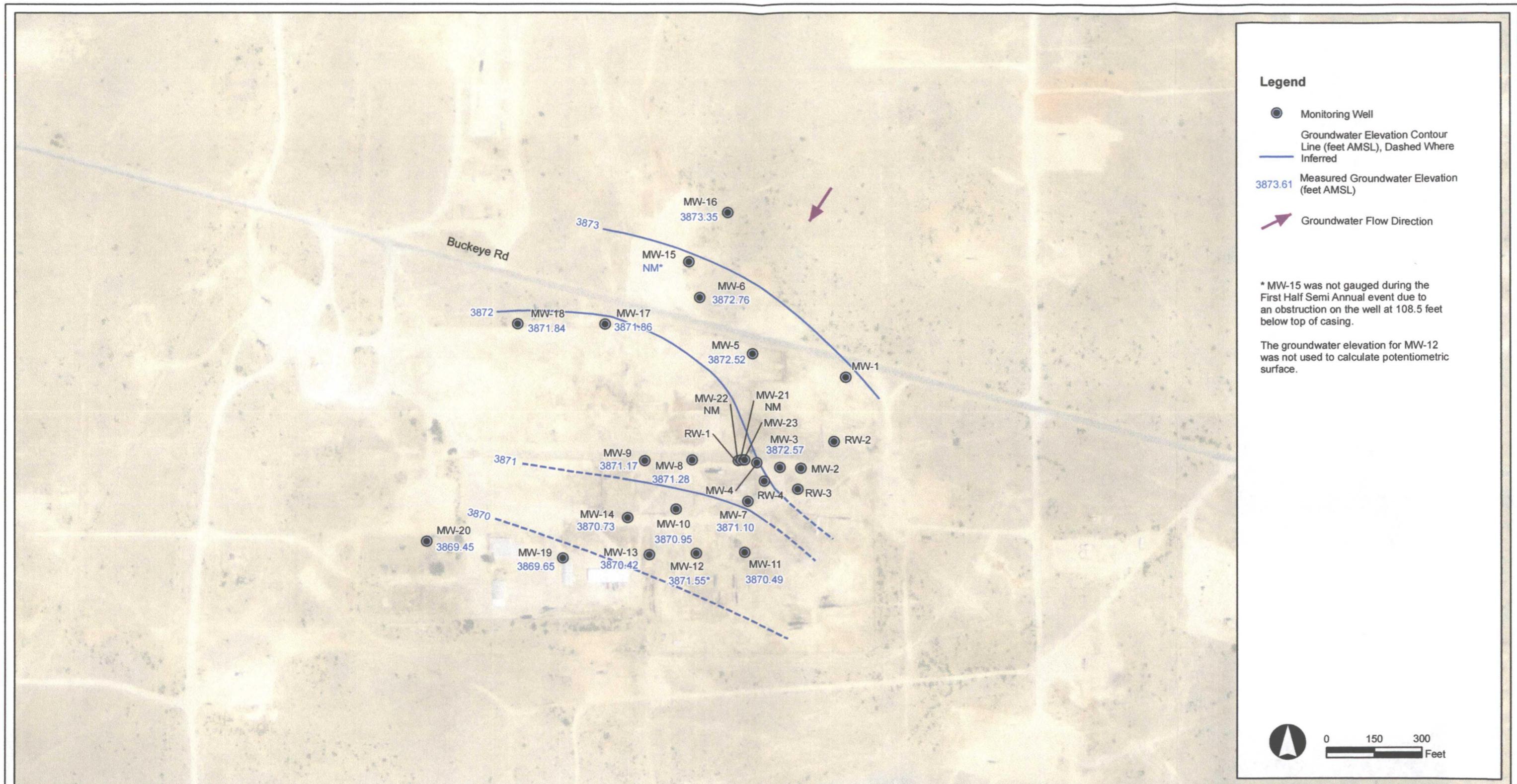
Tasman Geosciences, LLC  
 5690 Webster St.  
 Arvada, CO 8002  
 720-988-2024

## FORMER LEE GAS PLANT

### First Half 2012 Semi-Annual Groundwater Monitoring Summary Report

SITE MAP

FIGURE  
2



DESIGNED BY: C. Wasko  
DRAWN BY: J. Clonts  
SHEET CHK'D BY: \_\_\_\_\_  
CROSS CHK'D BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_



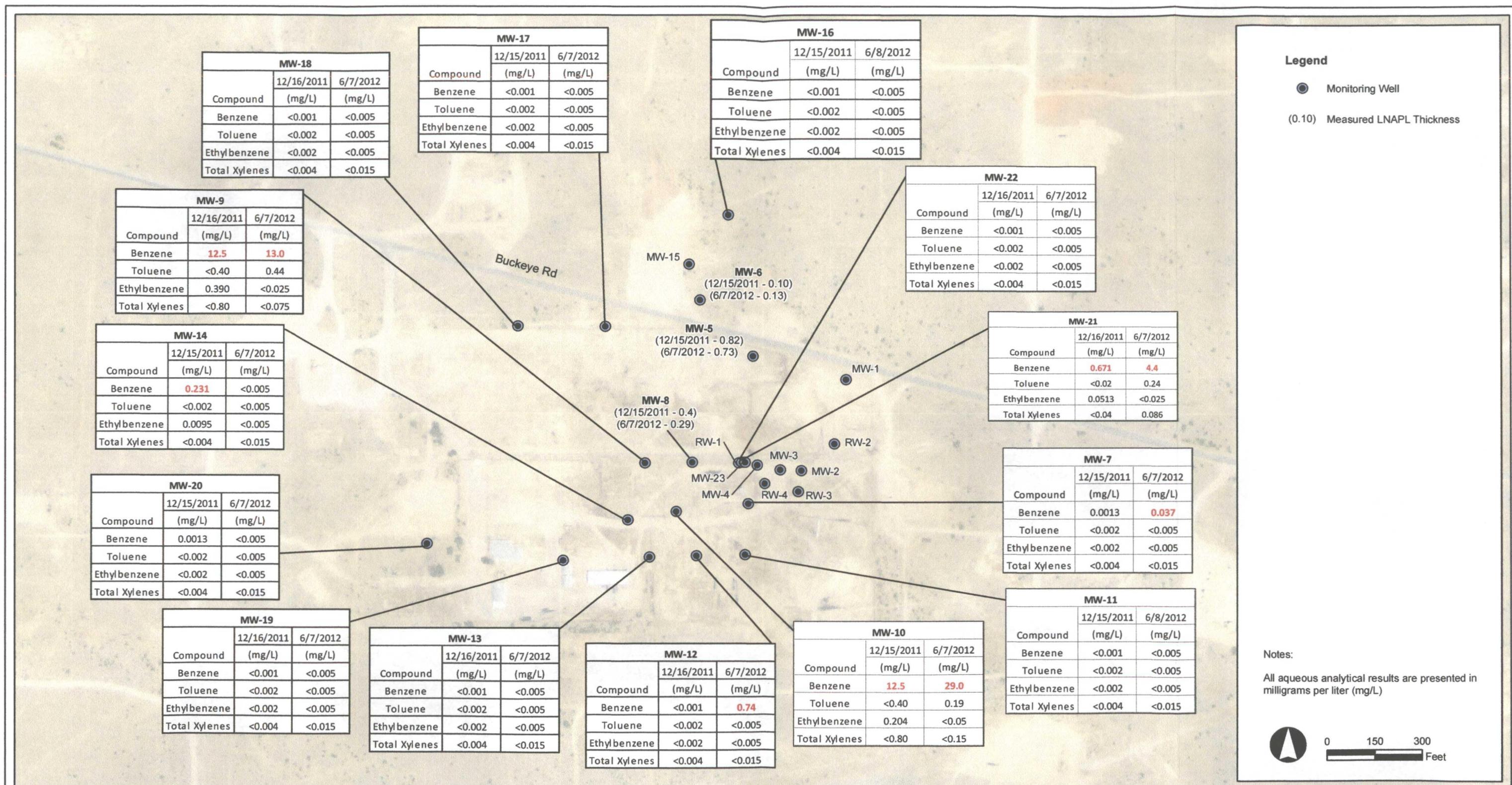
Tasman Geosciences, LLC  
5690 Webster St.  
Arvada, CO 8002  
720-988-2024

## FORMER LEE GAS PLANT

### First Half 2012 Semi-Annual Groundwater Monitoring Summary Report

GROUNDWATER ELEVATION  
CONTOUR MAP  
(JUNE 7 & 8, 2012)

FIGURE  
3



DESIGNED BY: C. Wasko  
DRAWN BY: J. Clonts  
SHEET CHK'D BY:  
CROSS CHK'D BY:  
APPROVED BY:  
APPROVED BY:



Tasman Geosciences, LLC  
5690 Webster St.  
Arvada, CO 8002  
720-988-2024

## FORMER LEE GAS PLANT

### First Half 2012 Semi-Annual Groundwater Monitoring Summary Report

### ANALYTICAL RESULTS MAP

FIGURE  
4

**Appendix A**  
**Laboratory Analytical Reports**  
**(Contained on Disc at Back of Report)**

**Appendix B**

**Product Recovery Summary**

**Lee Plant Product Recovery System Surveillance**

**Appendix C**  
**Historical Groundwater Analytical Results**

**APPENDIX C**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
<b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-1	3/1/2008	<b>1.4</b>	0.0395	<b>0.948</b>	0.128	
MW-1	6/1/2008	<b>2.75</b>	0.054	<b>2.17</b>	0.232	
MW-1	9/1/2008	<b>1.1</b>	0.0375	<b>0.845</b>	0.131	
MW-1	12/1/2008	<b>0.869</b>	0.0385	0.581	0.0709	
MW-1	3/1/2009	<b>0.288</b>	0.0149	0.107	0.0395	
MW-1	5/1/2009	<b>1.38</b>	0.0705	0.175	0.065	
MW-1	9/1/2009	<b>0.267</b>	0.024	0.0332	0.0078	
MW-1	12/209	<b>0.819</b>	0.088	0.0267	0.012	
MW-1	3/1/2010	<b>0.726</b>	0.0879	0.107	0.0278	
MW-2	3/1/2008	<b>8.98</b>	0.135	<b>6.58</b>	0.765	
MW-2	6/1/2008	<b>24.3</b>	0.319	<b>18.5</b>	2.58	
MW-2	9/1/2008	<b>21.7</b>	0.443	<b>9.79</b>	4.25	
MW-2	12/1/2008	Not Sampled: Remediation Activities				
MW-2	3/1/2009	<b>23.7</b>	0.538	2.34	1.25	
MW-2	5/1/2009	<b>32.7</b>	0.791	1.31	1.69	
MW-2	9/1/2009	<b>29.3</b>	0.491	0.771	0.371	
MW-2	12/1/2009	<b>28.5</b>	0.57	0.347	0.177	
MW-2	3/1/2010	<b>23.8</b>	0.529	<b>0.71</b>	<1.2	
MW-3	9/27/2005	<0.47	<0.54	<0.48	<2.0	
MW-3	12/21/2006	<0.23	<0.54	<0.48	<1.1	
MW-3	3/1/2008	NS	NS	NS	NS	
MW-3	6/1/2008	NS	NS	NS	NS	
MW-3	9/1/2008	NS	NS	NS	NS	
MW-3	12/1/2008	NS	NS	NS	NS	
MW-3	3/1/2009	NS	NS	NS	NS	
MW-3	5/1/2009	NS	NS	NS	NS	
MW-3	9/1/2009	NS	NS	NS	NS	
MW-3	12/1/2009	NS	NS	NS	NS	
MW-3	3/1/2010	NS	NS	NS	NS	
MW-3	3/29/2010	NS	NS	NS	NS	
MW-3	9/24/2010	NS	NS	NS	NS	
MW-3	6/3/2011	NS	NS	NS	NS	
MW-3	12/15/2011	NS	NS	NS	NS	
MW-3	6/7/2012	NS	NS	NS	NS	
MW-4	12/21/2006	<b>0.03</b>	0.0058	<0.48	0.0075	
MW-4	12/1/2009	NS	NS	NS	NS	
MW-4	6/1/2008	NS	NS	NS	NS	
MW-4	9/1/2008	NS	NS	NS	NS	
MW-4	12/1/2008	NS	NS	NS	NS	
MW-4	3/1/2009	NS	NS	NS	NS	
MW-4	5/1/2009	NS	NS	NS	NS	
MW-4	9/1/2009	NS	NS	NS	NS	
MW-4	12/1/2009	NS	NS	NS	NS	
MW-4	3/1/2010	NS	NS	NS	NS	

**APPENDIX C**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-5	3/1/2008	NS	NS	NS	NS	
MW-5	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	12/21/2006	<0.23	<0.54	<0.48	<1.1	
MW-6	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-7	9/24/2004	<1.0	0.0012	0.0017	<2.0	
MW-7	9/27/2005	0.001	<0.54	0.0025	<2.0	
MW-7	9/15/2006	0.74	<0.54	0.0056	0.0086	
MW-7	12/21/2006	<0.23	<0.54	<0.48	<1.1	
MW-7	9/20/2007	0.864	<0.00054	0.006	0.0137	
MW-7	9/17/2009	5.75	0.0018	0.002	0.0018	
MW-7	3/29/2010	4.98	0.0017	0.0146	0.0088	
MW-7	3/29/2010	4.98	0.0017	0.0146	0.0088	
MW-7	9/23/2010	0.976	0.00057	0.0083	<0.0017	
MW-7	9/24/2010	0.976	0.00057	0.0083	<0.0017	
MW-7	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-7	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-7	12/15/2011	0.0013	<0.002	<0.002	<0.004	
MW-7	6/7/2012	0.037	<0.005	<0.005	<0.015	
MW-8	12/21/2006	<0.23	<0.54	<0.48	<1.1	
MW-8	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	9/23/2004	2.4	<1.0	0.013	0.0027	
MW-9	9/27/2005	3.4	<0.54	0.053	0.0096	
MW-9	9/15/2006	10.9	/ <0.54	-	0.025	
MW-9	9/20/2007	22.6	<0.00054	0.27	0.0834	
MW-9	9/17/2009	10.2	<0.00043	0.212	0.0351	
MW-9	3/29/2010	0.376	<0.002	0.0016	<0.006	
MW-9	3/29/2010	0.376	<0.00043	0.0016	<0.0017	
MW-9	9/23/2010	0.0167	<0.00043	0.0008	<0.0017	
MW-9	9/24/2010	0.0167	<0.002	0.0008	<0.0017	
MW-9	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/16/2011	12.5	<0.40	0.390	<0.80	
MW-9	6/7/2012	13.0	0.44	<0.025	<0.075	

**APPENDIX C**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-10	9/24/2004	<b>0.022</b>	<1.0	<1.0	<2.0	
MW-10	9/27/2005	0.0032	<0.54	<0.48	<2.0	
MW-10	9/15/2006	0.0025	<0.54	<0.48	<1.1	
MW-10	9/20/2007	<b>3.67</b>	<0.00054	0.0016	<0.0011	
MW-10	9/17/2009	<b>3.58</b>	<0.00043	0.0411	<0.0017	
MW-10	3/29/2010	<b>0.192</b>	<0.002	0.00095	<0.006	
MW-10	3/29/2010	<b>0.192</b>	<0.00043	0.00095	<0.0017	
MW-10	9/24/2010	<b>12.2</b>	<0.002	0.0723	0.0026	
MW-10	9/24/2010	<b>12.2</b>	<0.00043	0.0723	0.0026	
MW-10	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-10	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-10	12/15/2011	<b>12.5</b>	<0.40	0.204	<0.80	
MW-10	6/7/2012	<b>29.0</b>	0.19	<0.05	<0.15	
MW-11	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-11	3/14/2005	<1.0	<1.0	<1.0	<2.0	
MW-11	9/26/2005	<0.47	<0.54	<0.48	<2.0	
MW-11	3/2/2006	<0.47	<0.54	<0.48	<2.0	
MW-11	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-11	3/28/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-11	9/20/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-11	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-11	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-11	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-11	3/29/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-11	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-11	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-11	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-11	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-11	6/8/2012	<0.005	<0.005	<0.005	<0.015	

**APPENDIX C**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-12	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-12	3/14/2005	<1.0	<1.0	<1.0	<2.0	
MW-12	9/26/2005	<0.47	<0.54	<0.48	<2.0	
MW-12	3/2/2006	<0.47	<0.54	<0.48	<2.0	
MW-12	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-12	3/28/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-12	9/20/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-12	3/20/2008	<0.00046	0.00065	<0.00045	<0.0014	
MW-12	11/10/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-12	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-12	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-12	3/29/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-12	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-12	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-12	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-12	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-12	6/7/2012	0.74	<0.005	<0.005	<0.015	
MW-13	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-13	3/14/2005	<1.0	<1.0	<1.0	<2.0	
MW-13	9/26/2005	<0.47	<0.54	<0.48	<2.0	
MW-13	3/2/2006	<0.47	<0.54	<0.48	<2.0	
MW-13	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-13	3/28/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-13	9/20/2007	0.00092	<0.00054	<0.00048	<0.0011	
MW-13	3/20/2008	<0.00046	0.0005	<0.00045	<0.0014	
MW-13	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-13	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-13	3/29/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-13	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-13	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-13	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-13	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-13	6/7/2012	<0.005	<0.005	<0.005	<0.015	

**APPENDIX C**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**FORMER LEE GAS PLANT**  
**LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-14	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-14	9/27/2005	0.0017	<0.54	<0.48	<2.0	
MW-14	9/15/2006	0.14	<0.54	0.003	<1.1	
MW-14	9/20/2007	0.003	<0.00054	<0.00048	<0.0011	
MW-14	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-14	3/29/2010	NS	NS	NS	NS	
MW-14	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-14	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-14	6/3/2011	NS	NS	NS	NS	
MW-14	12/15/2011	0.231	<0.002	0.0095	<0.004	
MW-14	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-15	3/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15	9/24/2010	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15	6/3/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15	12/15/2011	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-16	9/23/2004	0.012	<1.0	<1.0	<2.0	
MW-16	9/26/2005	0.016	<0.54	<0.48	<2.0	
MW-16	9/14/2006	0.2	0.0097	0.0035	0.0078	
MW-16	9/20/2007	0.0309	0.0014	0.00053	0.0018	
MW-16	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-16	3/29/2010	NS	NS	NS	NS	
MW-16	9/23/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-16	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-16	6/3/2011	NS	NS	NS	NS	
MW-16	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	6/8/2012	<0.005	<0.005	<0.005	<0.015	
MW-17	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-17	9/26/2005	0.0018	<0.54	<0.48	<2.0	
MW-17	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-17	9/20/2007	0.0118	<0.00054	<0.00048	<0.0011	
MW-17	9/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-17	3/29/2010	NS	NS	NS	NS	
MW-17	9/23/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-17	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-17	6/3/2011	NS	NS	NS	NS	
MW-17	12/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-17	6/7/2012	<0.005	<0.005	<0.005	<0.015	

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Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
<b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-18	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-18	9/26/2005	<0.47	<0.54	<0.48	<2.0	
MW-18	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-18	9/20/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-18	9/17/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-18	3/29/2010	NS	NS	NS	NS	
MW-18	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-18	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-18	6/3/2011	NS	NS	NS	NS	
MW-18	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-18	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-19	9/23/2004	<1.0	<1.0	<1.0	<2.0	
MW-19	3/14/2005	<1.0	<1.0	<1.0	<2.0	
MW-19	9/26/2005	<0.47	<0.54	<0.48	<2.0	
MW-19	3/2/2006	<0.47	<0.54	<0.48	<2.0	
MW-19	9/14/2006	<0.23	<0.54	<0.48	<1.1	
MW-19	3/28/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-19	9/20/2007	0.001	<0.00054	<0.00048	<0.0011	
MW-19	3/20/2008	<0.00046	0.00061	<0.00045	<0.0014	
MW-19	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-19	9/17/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-19	3/29/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-19	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-19	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-19	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	6/7/2012	<0.005	<0.005	<0.005	<0.015	

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Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-20	9/23/2004	<11	<11	<11	<22	
MW-20	3/14/2005	<1.0	<1.0	<1.0	<2.0	
MW-20	9/26/2005	<0.47	<0.54	<0.48		
MW-20	3/2/2006	<0.47	<0.54	<0.48	<2.0	
MW-20	9/14/2006	<0.23	<0.54	0.0023	<1.1	
MW-20	3/28/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-20	9/20/2007	<0.00023	<0.00054	<0.00048	<0.0011	
MW-20	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-20	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-20	9/17/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	3/29/2010	<0.002	<0.002	<0.002	<0.006	
MW-20	3/29/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	9/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-20	9/24/2010	<0.00050	<0.00043	<0.00055	<0.0017	
MW-20	6/3/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	6/3/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-20	12/15/2011	0.0013	<0.002	<0.002	<0.004	
MW-20	6/7/2012	<0.005	<0.005	<0.005	<0.015	
MW-21	9/23/2004	<b>8.5</b>	<1.0	0.14	0.2	
MW-21	3/14/2005	<b>6.7</b>	<1.0	0.17	0.29	
MW-21	9/27/2005	<b>4.4</b>	<0.54	0.087	0.11	
MW-21	3/2/2006	<b>2.4</b>	0.00062	0.069	0.11	
MW-21	9/15/2006	<b>0.48</b>	<0.54	0.023	0.034	
MW-21	3/28/2007	<b>13.2</b>	0.0059	<b>0.839</b>	<b>0.883</b>	
MW-21	9/20/2007	<b>7.23</b>	0.00067	0.462	0.321	
MW-21	3/20/2008	<b>0.899</b>	<0.00048	0.0399	0.0452	
MW-21	3/11/2009	<b>0.216</b>	<0.00048	0.0018	<0.0014	
MW-21	9/17/2009	<b>12.1</b>	0.0034	<b>1.09</b>	0.312	
MW-21	3/29/2010	<b>14.8</b>	0.00265	<b>1.54</b>	0.1945	
MW-21	3/29/2010	<b>13.00</b>	0.0023	<b>1.32</b>	0.0959	
MW-21	9/24/2010	<b>11.555</b>	0.0019	<b>1.535</b>	0.02645	
MW-21	9/25/2010	<b>9.41</b>	0.002	<b>1.4</b>	0.0104	
MW-21	6/3/2011	<b>7.97</b>	0.0012	0.536	<0.004	Duplicate sample collected
MW-21	6/3/2011	<b>7.78</b>	0.0011	0.465	<0.0020	
MW-21	12/16/2011	<b>0.671</b>	<0.02	0.0513	<0.04	Duplicate sample collected
MW-21	6/7/2012	<b>4.4</b>	0.24	<0.025	0.086	Duplicate sample collected

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Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
<b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	
MW-22	9/23/2004	0.0067	<1.0	<1.0	<2.0	
MW-22	9/27/2005	<0.47	<0.54	<0.48	<2.0	
MW-22	9/15/2006	<b>0.011</b>	<0.54	<0.48	<1.1	
MW-22	9/20/2007	0.00057	<0.00054	<0.00048	<0.0011	
MW-22	9/17/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-22	3/29/2010	NS	NS	NS	NS	
MW-22	9/24/2010	<b>0.0114</b>	<0.002	0.0033	<0.006	
MW-22	9/25/2010	<b>0.0114</b>	<0.00043	0.0033	<0.0017	
MW-22	6/3/2011	NS	NS	NS	NS	
MW-22	12/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-22	6/7/2012	<0.005	<0.005	<0.005	<0.015	

Notes:

- 1.) The environmental cleanup standards for water that are applicable to the Former Lee Gas Plant site are the New Mexico Water Quality Control
  - 2.) Data presented for all well locations includes previous four sampling events, when available. Historic groundwater elevation data prior to the 2010 semi-
- Bold** red values indicate an exceedance of the NMWQCC groundwater standards for the Site.

Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

LNAPL = Light Non-Aqueous Phase Liquid

NM = Not measured.

mg/L = milligrams per liter.