

GW-002

Former Lee Gas Plant 1st Half Semi-Annual Report

July, 2013



DCP Midstream
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August 2, 2013

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

**RE: First 2013 Semiannual Groundwater Monitoring Report
Former DCP Lee Gas Plant (GW-002)
Unit N Section 30, Township 17 South, Range 35 East**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the First 2013 Semiannual 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 4 and 5, 2013. 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 2013.

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

Sincerely,

DCP Midstream, LP

Chandler E Cole
Senior Environmental Specialist

Enclosure

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

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First Half Semi-Annual 2013 Groundwater Monitoring Summary Report

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

Prepared for:



370 17th St., Suite 2500
Denver, CO 80202

Prepared by:



6899 Pecos Street, Unit C
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July 12, 2013

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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 2013 as well as 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 production and gathering.

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 subsurface investigations took place in order to determine the extent of both the free and dissolved phase hydrocarbon plumes, requiring the 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. 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 2013 monitoring event. Monitoring activities were conducted on June 4-5, 2013 and 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 2013 event, groundwater levels were measured at all nineteen Site monitoring well locations.

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 2013 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 3,869.49 feet AMSL at monitoring well MW-20 to 3,873.17 feet AMSL at monitoring well MW-16. Groundwater flow at the Site generally trends to the southwest (Figure 3) with a gradient of approximately 0.0026 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. The selected elevations were directly measured and are considered representative of the general gradient and flow direction at the site.

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

- MW-5 (0.44-ft)
- MW-6 (0.06-ft)
- MW-8 (0.24-ft)
- MW-15 (4.43-ft)

3.2 Groundwater Quality Monitoring

Subsequent to the collection of groundwater level measurements, 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. Monitoring well 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 ALS Environmental (ALS) laboratory in Houston, Texas, 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 four locations:
 - **MW-9:** 16 mg/L
 - **MW-10:** 26 mg/L
 - **MW-12:** 4.3 mg/L
 - **MW-21:** 0.78 mg/L
- LNAPL was detected at four (4) locations as indicated in Section 3.1 above.

Figure 4 shows the first half semi-annual 2013 event analytical results, in addition to results from the 2012 second half semi-annual event.

Table 2 presents first half semi-annual 2013 analytical data as well as recent historical results. Laboratory analytical reports for the event are included in Appendix A. Historical analytical results through the June 2013 event are included in Appendix B.

3.3 Data Quality Assurance / Quality Control

A trip blank, matrix spike or matrix spike duplicate (MS/MSD) and one field duplicate sample (MW-9) were collected during the sampling event. The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. The trip blank was fully in control, having no detections of targets.

Duplicate sample was in compliance with QA/QC standards. MW-9 and associated duplicate sample returned results for benzene of 16 mg/l and 14 mg/l, respectively.

During sampling, a minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Water quality parameters were recorded and used to confirm groundwater stabilization prior to sample collection. Parameter stabilization was achieved within three purge volumes. Therefore, the analytical data are considered to be representative of site conditions.

The overall QA/QC assessment of the field and laboratory data indicate that both field precision and overall data precision and accuracy are acceptable.

4. Remediation Activities

Measureable free phase hydrocarbons were detected during the reporting period in monitoring wells MW-5, MW-6, MW-8, and MW-15 as summarized in Table 2. LNAPL recovery was not conducted during the first half 2013.

An obstruction previously encountered in MW-15 caused by an infiltrating root system within the well screen/casing was cleared and the well rehabilitated using traditional redevelopment techniques. During redevelopment activities, approximately 180 gallons of clean water were added to the well for surging and purging activities. Subsequently, approximately 200 gallons of liquid were removed from the well using a Waterra Hydrolift pump and transported for disposal at the Cooper Disposal Facility in Hobbs, New Mexico. Due to the type of collection tank and transport vehicle, the volume of recovered LNAPL during redevelopment activities was unable to be determined.

DCP plans to install a Clean Earth Technologies Magnum Spill Buster (Spill Buster) pump for automated LNAPL recovery within MW-15 to address the presence of LNAPL. The Spill Buster is an automated free phase petroleum pumping system. It is specifically designed to remove LNAPL petroleum product from the water table. Its auto-seeking device allows the pump intake to automatically follow the elevation of the oil/water interface as it fluctuates in the recovery well. The unit is designed to specifically pump LNAPL material and will not pump any amount of water from the well.

The Spill Buster system will be powered by a 24 VDC deep cycle battery/solar panel system located near the recovery well. An independent secondary contained LNAPL collection tank with a high level cutoff switch will also be installed near the recovery well.

Spill Buster installation and associated start-up activities are tentatively scheduled to occur during the third quarter of 2013.

5. Conclusions

Comparison of the first half semi-annual 2013 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
- Benzene concentrations in monitoring wells MW-7 and MW-14, locations which historically have exhibited elevated concentrations, remained below regulatory standards for the second consecutive quarter.
- Monitoring wells MW-9, MW-10, MW-12, and MW-21 continue to exhibit benzene concentrations in exceedence of the New Mexico Water Quality Control Commission Groundwater Standard.
- During the second half 2012, elevated benzene concentrations were observed for the first time since 2009 in MW-16, located in the northern area of the facility. However, during the first half semi-annual 2013 event, BTEX concentrations returned below regulatory standards.

6. Recommendations

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

- Continue semi-annual groundwater monitoring at the well locations illustrated on Figure 2 to assess trends in dissolved and free phase petroleum hydrocarbons.
- Installation of a Spill Buster LNAPL recovery system at MW-15 to address free phase petroleum thicknesses in the northern area of the Site.

Tables

TABLE 1
FIRST HALF SEMI ANNUAL 2013
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	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-3	12/6/2012	107.63			108.84	3980.27	3872.64	0.07
MW-3	6/5/2013	107.69			108.84	3980.27	3872.58	-0.06
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-5*	12/6/2012	107.79	107.41	0.38	112.64	3979.82	3872.32	-0.20
MW-5*	6/5/2013	108.02	107.58	0.44	112.64	3979.82	3872.13	-0.18
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-6*	12/6/2012	109.22	109.16	0.06	113.20	3981.79	3872.62	-0.14
MW-6*	6/5/2013	109.43	109.37	0.06	113.20	3981.79	3872.41	-0.21
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-7	12/6/2012	107.57			111.67	3978.45	3870.88	-0.22
MW-7	6/4/2013	107.51			111.67	3978.45	3870.94	0.06
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-8*	12/6/2012	109.05	108.80	0.25	110.82	3979.96	3871.10	-0.18
MW-8*	6/5/2013	109.22	108.98	0.24	110.82	3979.96	3870.92	-0.18
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-9	12/7/2012	109.21			116.92	3980.17	3870.96	-0.21
MW-9	6/5/2013	109.13			116.92	3980.17	3871.04	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-10	12/7/2012	108.91			117.41	3979.66	3870.75	-0.20
MW-10	6/5/2013	108.88			117.41	3979.66	3870.78	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-11	12/6/2012	108.04			117.98	3978.50	3870.46	-0.03
MW-11	6/4/2013	108.00			117.98	3978.50	3870.50	0.04
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
MW-12	12/7/2012	108.53			117.35	3978.82	3870.29	-1.26
MW-12	6/5/2013	108.54			117.35	3978.82	3870.28	-0.01
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-13	12/6/2012	110.33			117.27	3980.52	3870.19	-0.23
MW-13	6/4/2013	110.31			117.27	3980.52	3870.21	0.02
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-14	12/7/2012	111.71			118.36	3982.23	3870.52	-0.21
MW-14	6/5/2013	111.64			118.36	3982.23	3870.59	0.07

TABLE 1
FIRST HALF SEMI ANNUAL 2013
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-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-15*	12/7/2012	NM	NM	NM	122.70	3981.70	NM	NM
MW-15*	6/5/2013	112.66	108.23	4.43	122.70	3981.70	3872.36	-0.68
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-16	12/6/2012	107.62			122.74	3980.80	3873.18	-0.17
MW-16	6/5/2013	107.63			122.74	3980.80	3873.17	-0.01
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-17	12/6/2012	110.11			124.12	3981.80	3871.69	-0.17
MW-17	6/4/2013	110.05			124.12	3981.80	3871.75	0.06
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-18	12/6/2012	111.43			125.42	3983.10	3871.67	-0.17
MW-18	6/4/2013	111.36			125.42	3983.10	3871.74	0.07
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-19	12/6/2012	111.33			126.56	3980.80	3869.47	-0.18
MW-19	6/4/2013	111.22			126.56	3980.80	3869.58	0.11
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-20	12/6/2012	113.95			128.22	3983.30	3869.35	-0.10
MW-20	6/4/2013	113.81			128.22	3983.30	3869.49	0.14
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	
MW-21	12/7/2012	110.15			123.59	NM	NM	
MW-21	6/5/2013	110.22			123.59	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	
MW-22	12/6/2012	109.86			148.62	NM	NM	
MW-22	6/5/2013	109.90			148.62	NM	NM	
Average change in groundwater elevation since the previous monitoring event								-0.04

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 2013 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 recent monitoring event.
 - 4- Data presented for well locations includes previous four sampling events, when available. Historic groundwater elevation data 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 second half semi-annual event due to an obstruction in the well at 110.76 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 2013
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		0.01 (mg/l)	0.75 (mg/l)	0.75 (mg/l)	0.62 (mg/l)	
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-3	12/6/2012	NS	NS	NS	NS	
MW-3	6/5/2013	NS	NS	NS	NS	
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-5*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	6/5/2013	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-6*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	6/5/2013	LNAPL	LNAPL	LNAPL	LNAPL	
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-7	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-7	6/4/2013	0.0062	<0.001	<0.001	<0.001	
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-8*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	6/5/2013	LNAPL	LNAPL	LNAPL	LNAPL	
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-9	12/7/2012	13.0	0.89	<0.050	0.28	Duplicate sample collected
MW-9	6/5/2013	16.0	<0.010	0.96	0.38	Duplicate sample collected
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-10	12/7/2012	27.0	0.23	<0.050	<0.15	
MW-10	6/5/2013	26.0	<0.010	0.33	<0.010	
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-11	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-11	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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	
MW-12	12/7/2012	5.5	0.0086	<0.005	<0.015	
MW-12	6/5/2013	4.3	<0.005	<0.005	<0.005	

TABLE 2
FIRST HALF SEMI ANNUAL 2013
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		0.01 (mg/l)	0.75 (mg/l)	0.75 (mg/l)	0.62 (mg/l)	
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-13	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-13	6/4/2013	0.0022	<0.001	<0.001	<0.001	
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-14	12/7/2012	0.0024	<0.001	<0.001	<0.003	
MW-14	6/5/2013	0.0019	<0.001	<0.001	<0.001	
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-15*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	6/5/2013	LNAPL	LNAPL	LNAPL	LNAPL	
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-16	12/6/2012	0.051	0.0013	0.0027	<0.003	
MW-16	6/5/2013	0.0086	<0.001	<0.001	<0.001	
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-17	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-17	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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-18	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-18	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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-19	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-19	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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-20	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-20	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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
MW-21	12/7/2012	1.9	0.24	<0.005	0.098	
MW-21	6/5/2013	0.78	<0.001	0.097	0.011	

TABLE 2
FIRST HALF SEMI ANNUAL 2013
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		0.01 (mg/l)	0.75 (mg/l)	0.75 (mg/l)	0.62 (mg/l)	
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	
MW-22	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-22	6/5/2013	<0.001	<0.001	<0.001	<0.001	

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 may be found in Appendix C.

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

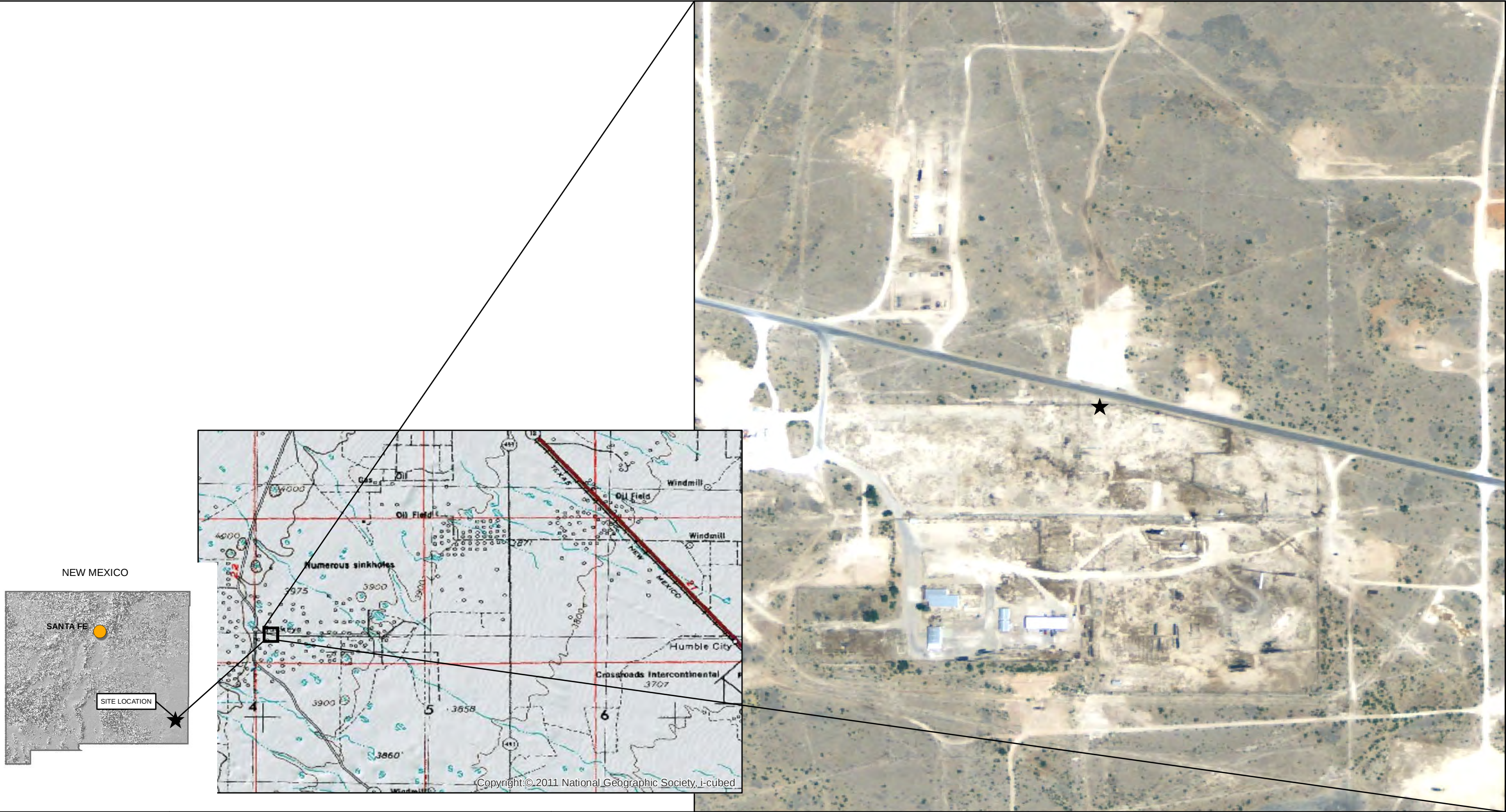
Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

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

Tasman Geosciences, LLC
6899 Pecos Street - Unit C
Denver, CO 80221
303 487 1228

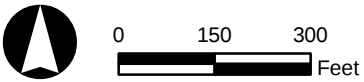
FORMER LEE GAS PLANT

SITE LOCATION

FIGURE
1



Legend
● Monitoring Well



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

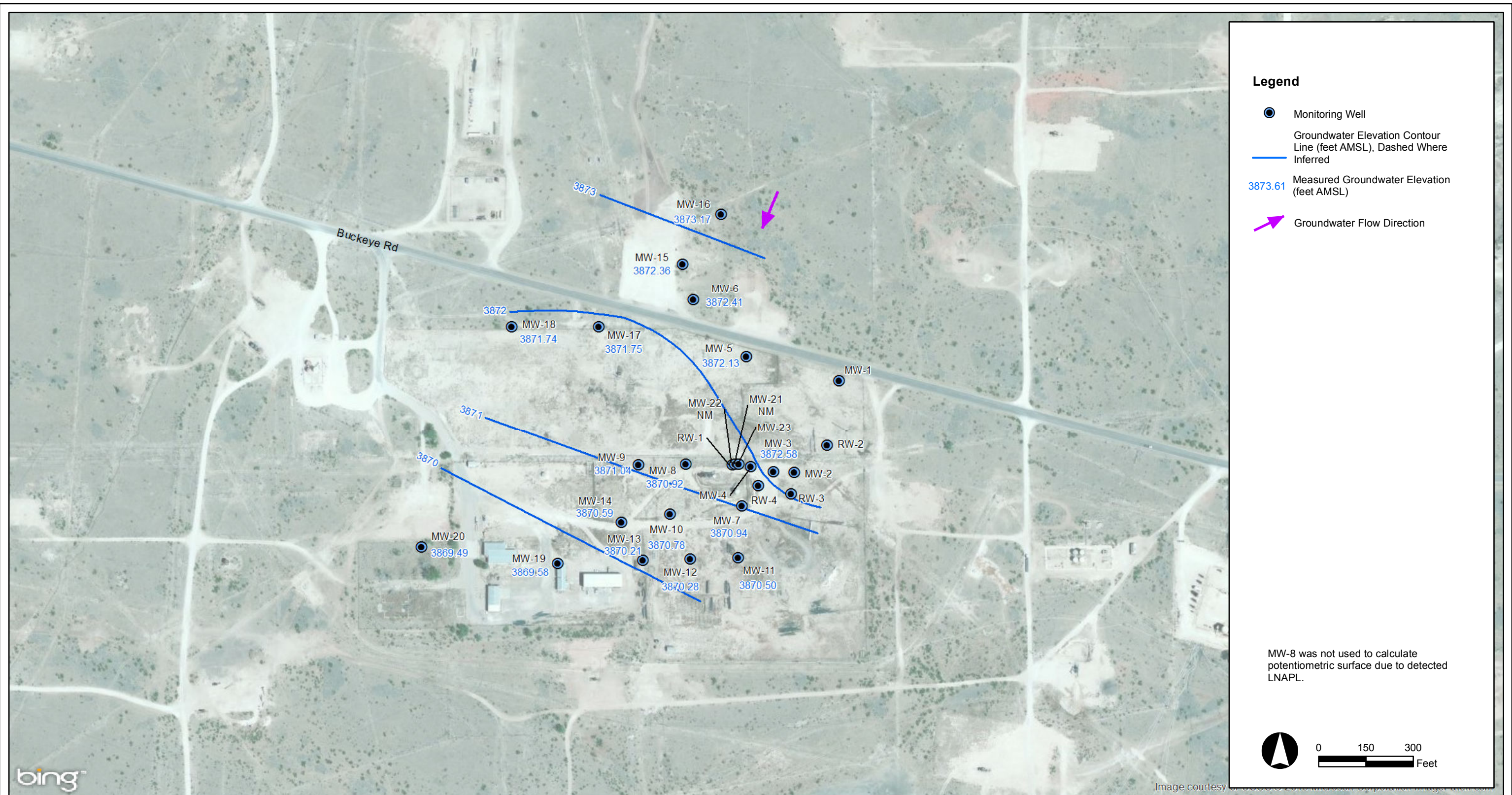


Tasman Geosciences, LLC
6899 Pecos Street - Unit C
Denver, CO 80221
303 487 1228

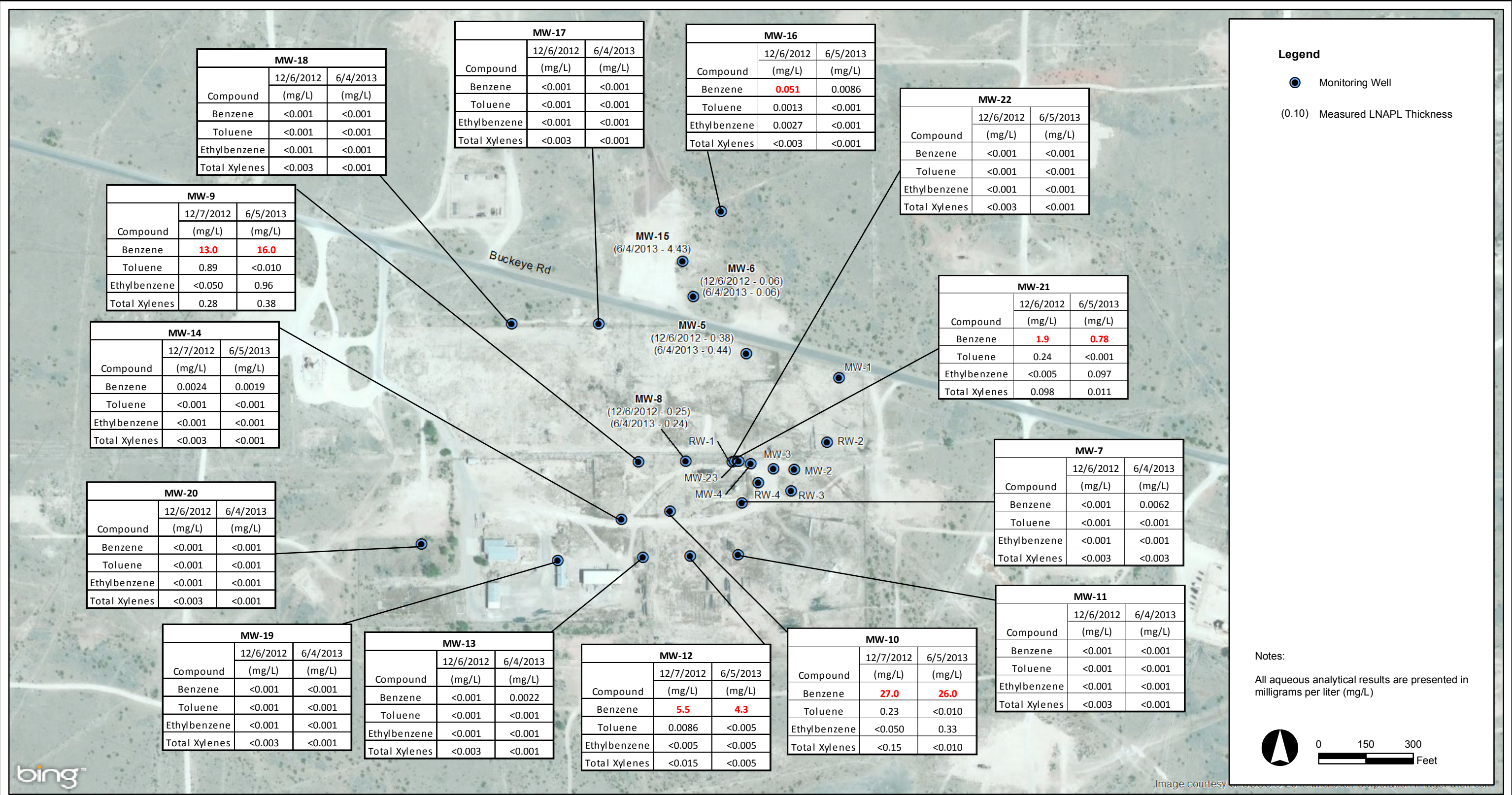
FORMER LEE GAS PLANT

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 6899 Pecos Street - Unit C Denver, CO 80221 303 487 1228	FORMER LEE GAS PLANT First Half 2013 Semi-Annual Groundwater Monitoring Summary Report	GROUNDWATER ELEVATION CONTOUR MAP (JUNE 4-5, 2013)	FIGURE 3
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DESIGNED BY: C. Wasko
DRAWN BY: J. Clonts
SHEET CHK'D BY: _____
CROSS CHK'D BY: _____
APPROVED BY: _____
APPROVED BY: _____



Tasman Geosciences, LLC
6899 Pecos Street - Unit C
Denver, CO 80221
303 487 1228

FORMER LEE GAS PLANT

First Half 2013 Semi-Annual
Groundwater Monitoring
Summary Report

ANALYTICAL RESULTS
MAP

FIGURE
4

Appendix A

Laboratory Analytical Reports



13-Jun-2013

Christine Wasko
Tasman Geosciences
5690 Webster Street
Arvada, CO 80002

Tel: (720) 988-2024
Fax:

Re: Lee Plant

Work Order: **1306232**

Dear Christine,

ALS Environmental received 16 samples on 06-Jun-2013 08:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Luke F. Hernandez

Sonia West
Project Manager



Certificate No: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Tasman Geosciences
Project: Lee Plant
Work Order: 1306232

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1306232-01	MW-7	Water		6/4/2013 15:40	6/6/2013 08:50	☐
1306232-02	MW-9	Water		6/5/2013 12:00	6/6/2013 08:50	☐
1306232-03	MW-10	Water		6/5/2013 12:40	6/6/2013 08:50	☐
1306232-04	MW-11	Water		6/4/2013 16:00	6/6/2013 08:50	☐
1306232-05	MW-12	Water		6/5/2013 10:20	6/6/2013 08:50	☐
1306232-06	MW-13	Water		6/4/2013 13:40	6/6/2013 08:50	☐
1306232-07	MW-14	Water		6/5/2013 10:55	6/6/2013 08:50	☐
1306232-08	MW-16	Water		6/5/2013 09:40	6/6/2013 08:50	☐
1306232-09	MW-17	Water		6/4/2013 10:15	6/6/2013 08:50	☐
1306232-10	MW-18	Water		6/4/2013 10:00	6/6/2013 08:50	☐
1306232-11	MW-19	Water		6/4/2013 12:50	6/6/2013 08:50	☐
1306232-12	MW-20	Water		6/4/2013 11:20	6/6/2013 08:50	☐
1306232-13	MW-21	Water		6/5/2013 08:15	6/6/2013 08:50	☐
1306232-14	MW-22	Water		6/5/2013 08:20	6/6/2013 08:50	☐
1306232-15	DUP	Water		6/5/2013	6/6/2013 08:50	☐
1306232-16	Trip Blank 052013-43	Water		6/4/2013	6/6/2013 08:50	☐

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Case Narrative

No Exceptions.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-7

Lab ID: 1306232-01

Collection Date: 6/4/2013 03:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	0.0062		0.0010	mg/L	1	6/11/2013 06:02 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 06:02 PM
Toluene	ND		0.0010	mg/L	1	6/11/2013 06:02 PM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 06:02 PM
Surr: 1,2-Dichloroethane-d4	107		71-125	%REC	1	6/11/2013 06:02 PM
Surr: 4-Bromofluorobenzene	93.6		70-125	%REC	1	6/11/2013 06:02 PM
Surr: Dibromofluoromethane	102		74-125	%REC	1	6/11/2013 06:02 PM
Surr: Toluene-d8	101		78-123	%REC	1	6/11/2013 06:02 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-9

Lab ID: 1306232-02

Collection Date: 6/5/2013 12:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	16		0.10	mg/L	100	6/12/2013 07:43 PM
Ethylbenzene	0.96		0.010	mg/L	10	6/12/2013 08:09 PM
Toluene	ND		0.010	mg/L	10	6/12/2013 08:09 PM
Xylenes, Total	0.38		0.010	mg/L	10	6/12/2013 08:09 PM
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	10	6/12/2013 08:09 PM
Surr: 1,2-Dichloroethane-d4	109		71-125	%REC	100	6/12/2013 07:43 PM
Surr: 4-Bromofluorobenzene	102		70-125	%REC	10	6/12/2013 08:09 PM
Surr: 4-Bromofluorobenzene	93.5		70-125	%REC	100	6/12/2013 07:43 PM
Surr: Dibromofluoromethane	102		74-125	%REC	10	6/12/2013 08:09 PM
Surr: Dibromofluoromethane	98.7		74-125	%REC	100	6/12/2013 07:43 PM
Surr: Toluene-d8	92.9		78-123	%REC	10	6/12/2013 08:09 PM
Surr: Toluene-d8	99.2		78-123	%REC	100	6/12/2013 07:43 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-10

Lab ID: 1306232-03

Collection Date: 6/5/2013 12:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	26		0.25	mg/L	250	6/12/2013 09:27 PM
Ethylbenzene	0.33		0.010	mg/L	10	6/12/2013 09:53 PM
Toluene	ND		0.010	mg/L	10	6/12/2013 09:53 PM
Xylenes, Total	ND		0.010	mg/L	10	6/12/2013 09:53 PM
Surr: 1,2-Dichloroethane-d4	112		71-125	%REC	10	6/12/2013 09:53 PM
Surr: 1,2-Dichloroethane-d4	103		71-125	%REC	250	6/12/2013 09:27 PM
Surr: 4-Bromofluorobenzene	99.4		70-125	%REC	10	6/12/2013 09:53 PM
Surr: 4-Bromofluorobenzene	94.9		70-125	%REC	250	6/12/2013 09:27 PM
Surr: Dibromofluoromethane	101		74-125	%REC	10	6/12/2013 09:53 PM
Surr: Dibromofluoromethane	97.8		74-125	%REC	250	6/12/2013 09:27 PM
Surr: Toluene-d8	101		78-123	%REC	10	6/12/2013 09:53 PM
Surr: Toluene-d8	102		78-123	%REC	250	6/12/2013 09:27 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-11

Lab ID: 1306232-04

Collection Date: 6/4/2013 04:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	ND		0.0010	mg/L	1	6/11/2013 07:52 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 07:52 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 07:52 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 07:52 AM
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	1	6/11/2013 07:52 AM
Surr: 4-Bromofluorobenzene	100		70-125	%REC	1	6/11/2013 07:52 AM
Surr: Dibromofluoromethane	103		74-125	%REC	1	6/11/2013 07:52 AM
Surr: Toluene-d8	99.7		78-123	%REC	1	6/11/2013 07:52 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-12

Lab ID: 1306232-05

Collection Date: 6/5/2013 10:20 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	4.3		0.050	mg/L	50	6/12/2013 06:50 PM
Ethylbenzene	ND		0.0050	mg/L	5	6/12/2013 07:17 PM
Toluene	ND		0.0050	mg/L	5	6/12/2013 07:17 PM
Xylenes, Total	ND		0.0050	mg/L	5	6/12/2013 07:17 PM
Surr: 1,2-Dichloroethane-d4	107		71-125	%REC	5	6/12/2013 07:17 PM
Surr: 1,2-Dichloroethane-d4	107		71-125	%REC	50	6/12/2013 06:50 PM
Surr: 4-Bromofluorobenzene	101		70-125	%REC	5	6/12/2013 07:17 PM
Surr: 4-Bromofluorobenzene	108		70-125	%REC	50	6/12/2013 06:50 PM
Surr: Dibromofluoromethane	103		74-125	%REC	5	6/12/2013 07:17 PM
Surr: Dibromofluoromethane	100		74-125	%REC	50	6/12/2013 06:50 PM
Surr: Toluene-d8	93.3		78-123	%REC	5	6/12/2013 07:17 PM
Surr: Toluene-d8	99.5		78-123	%REC	50	6/12/2013 06:50 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-13

Lab ID: 1306232-06

Collection Date: 6/4/2013 01:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	0.0022		0.0010	mg/L	1	6/11/2013 12:03 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 12:03 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 12:03 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 12:03 AM
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	6/11/2013 12:03 AM
Surr: 4-Bromofluorobenzene	103		70-125	%REC	1	6/11/2013 12:03 AM
Surr: Dibromofluoromethane	103		74-125	%REC	1	6/11/2013 12:03 AM
Surr: Toluene-d8	101		78-123	%REC	1	6/11/2013 12:03 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-14

Lab ID: 1306232-07

Collection Date: 6/5/2013 10:55 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	0.0019		0.0010	mg/L	1	6/11/2013 08:19 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 08:19 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 08:19 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 08:19 AM
Surr: 1,2-Dichloroethane-d4	104		71-125	%REC	1	6/11/2013 08:19 AM
Surr: 4-Bromofluorobenzene	99.9		70-125	%REC	1	6/11/2013 08:19 AM
Surr: Dibromofluoromethane	100		74-125	%REC	1	6/11/2013 08:19 AM
Surr: Toluene-d8	99.5		78-123	%REC	1	6/11/2013 08:19 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-16

Lab ID: 1306232-08

Collection Date: 6/5/2013 09:40 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	0.0086		0.0010	mg/L	1	6/11/2013 12:29 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 12:29 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 12:29 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 12:29 AM
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	6/11/2013 12:29 AM
Surr: 4-Bromofluorobenzene	100		70-125	%REC	1	6/11/2013 12:29 AM
Surr: Dibromofluoromethane	103		74-125	%REC	1	6/11/2013 12:29 AM
Surr: Toluene-d8	100		78-123	%REC	1	6/11/2013 12:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-17

Lab ID: 1306232-09

Collection Date: 6/4/2013 10:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	ND		0.0010	mg/L	1	6/11/2013 08:45 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 08:45 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 08:45 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 08:45 AM
Surr: 1,2-Dichloroethane-d4	104		71-125	%REC	1	6/11/2013 08:45 AM
Surr: 4-Bromofluorobenzene	98.9		70-125	%REC	1	6/11/2013 08:45 AM
Surr: Dibromofluoromethane	101		74-125	%REC	1	6/11/2013 08:45 AM
Surr: Toluene-d8	98.5		78-123	%REC	1	6/11/2013 08:45 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-18

Lab ID: 1306232-10

Collection Date: 6/4/2013 10:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	ND		0.0010	mg/L	1	6/11/2013 09:11 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 09:11 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 09:11 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 09:11 AM
Surr: 1,2-Dichloroethane-d4	104		71-125	%REC	1	6/11/2013 09:11 AM
Surr: 4-Bromofluorobenzene	99.2		70-125	%REC	1	6/11/2013 09:11 AM
Surr: Dibromofluoromethane	101		74-125	%REC	1	6/11/2013 09:11 AM
Surr: Toluene-d8	99.6		78-123	%REC	1	6/11/2013 09:11 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-19

Lab ID: 1306232-11

Collection Date: 6/4/2013 12:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	ND		0.0010	mg/L	1	6/11/2013 09:37 AM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 09:37 AM
Toluene	ND		0.0010	mg/L	1	6/11/2013 09:37 AM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 09:37 AM
Surr: 1,2-Dichloroethane-d4	107		71-125	%REC	1	6/11/2013 09:37 AM
Surr: 4-Bromofluorobenzene	99.5		70-125	%REC	1	6/11/2013 09:37 AM
Surr: Dibromofluoromethane	102		74-125	%REC	1	6/11/2013 09:37 AM
Surr: Toluene-d8	99.2		78-123	%REC	1	6/11/2013 09:37 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-20

Lab ID: 1306232-12

Collection Date: 6/4/2013 11:20 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	ND		0.0010	mg/L	1	6/11/2013 08:13 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 08:13 PM
Toluene	ND		0.0010	mg/L	1	6/11/2013 08:13 PM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 08:13 PM
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	6/11/2013 08:13 PM
Surr: 4-Bromofluorobenzene	101		70-125	%REC	1	6/11/2013 08:13 PM
Surr: Dibromofluoromethane	100		74-125	%REC	1	6/11/2013 08:13 PM
Surr: Toluene-d8	99.1		78-123	%REC	1	6/11/2013 08:13 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-21

Lab ID: 1306232-13

Collection Date: 6/5/2013 08:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	0.78		0.0050	mg/L	5	6/12/2013 06:24 PM
Ethylbenzene	0.097		0.0010	mg/L	1	6/13/2013 10:46 AM
Toluene	ND		0.0010	mg/L	1	6/13/2013 10:46 AM
Xylenes, Total	0.011		0.0010	mg/L	1	6/13/2013 10:46 AM
Surr: 1,2-Dichloroethane-d4	109		71-125	%REC	1	6/13/2013 10:46 AM
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	5	6/12/2013 06:24 PM
Surr: 4-Bromofluorobenzene	101		70-125	%REC	1	6/13/2013 10:46 AM
Surr: 4-Bromofluorobenzene	107		70-125	%REC	5	6/12/2013 06:24 PM
Surr: Dibromofluoromethane	105		74-125	%REC	1	6/13/2013 10:46 AM
Surr: Dibromofluoromethane	99.0		74-125	%REC	5	6/12/2013 06:24 PM
Surr: Toluene-d8	101		78-123	%REC	1	6/13/2013 10:46 AM
Surr: Toluene-d8	102		78-123	%REC	5	6/12/2013 06:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences

Project: Lee Plant

Work Order: 1306232

Sample ID: MW-22

Lab ID: 1306232-14

Collection Date: 6/5/2013 08:20 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260		Analyst: PC	
Benzene	ND		0.0010	mg/L	1	6/11/2013 09:05 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 09:05 PM
Toluene	ND		0.0010	mg/L	1	6/11/2013 09:05 PM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 09:05 PM
Surr: 1,2-Dichloroethane-d4	104		71-125	%REC	1	6/11/2013 09:05 PM
Surr: 4-Bromofluorobenzene	110		70-125	%REC	1	6/11/2013 09:05 PM
Surr: Dibromofluoromethane	101		74-125	%REC	1	6/11/2013 09:05 PM
Surr: Toluene-d8	98.7		78-123	%REC	1	6/11/2013 09:05 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences
Project: Lee Plant
Sample ID: DUP
Collection Date: 6/5/2013

Work Order: 1306232
Lab ID: 1306232-15
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	14		0.10	mg/L	100	6/12/2013 08:35 PM
Ethylbenzene	0.78		0.010	mg/L	10	6/12/2013 09:01 PM
Toluene	ND		0.010	mg/L	10	6/12/2013 09:01 PM
Xylenes, Total	0.17		0.010	mg/L	10	6/12/2013 09:01 PM
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	10	6/12/2013 09:01 PM
Surr: 1,2-Dichloroethane-d4	103		71-125	%REC	100	6/12/2013 08:35 PM
Surr: 4-Bromofluorobenzene	99.8		70-125	%REC	10	6/12/2013 09:01 PM
Surr: 4-Bromofluorobenzene	107		70-125	%REC	100	6/12/2013 08:35 PM
Surr: Dibromofluoromethane	103		74-125	%REC	10	6/12/2013 09:01 PM
Surr: Dibromofluoromethane	99.4		74-125	%REC	100	6/12/2013 08:35 PM
Surr: Toluene-d8	92.3		78-123	%REC	10	6/12/2013 09:01 PM
Surr: Toluene-d8	99.4		78-123	%REC	100	6/12/2013 08:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences
Project: Lee Plant
Sample ID: Trip Blank 052013-43
Collection Date: 6/4/2013

Work Order: 1306232
Lab ID: 1306232-16
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW LEVEL VOLATILES - SW8260C			SW8260			Analyst: PC
Benzene	ND		0.0010	mg/L	1	6/11/2013 03:35 PM
Ethylbenzene	ND		0.0010	mg/L	1	6/11/2013 03:35 PM
Toluene	ND		0.0010	mg/L	1	6/11/2013 03:35 PM
Xylenes, Total	ND		0.0010	mg/L	1	6/11/2013 03:35 PM
Surr: 1,2-Dichloroethane-d4	101		71-125	%REC	1	6/11/2013 03:35 PM
Surr: 4-Bromofluorobenzene	105		70-125	%REC	1	6/11/2013 03:35 PM
Surr: Dibromofluoromethane	98.9		74-125	%REC	1	6/11/2013 03:35 PM
Surr: Toluene-d8	102		78-123	%REC	1	6/11/2013 03:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: Tasman Geosciences
Work Order: 1306232
Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148680** Instrument ID **VOA6** Method: **SW8260**

MBLK	Sample ID: VBLKW-130610-R148680				Units: µg/L		Analysis Date: 6/10/2013 11:37 PM			
Client ID:	Run ID: VOA6_130610B				SeqNo: 3247542		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	51.23	1.0	50	0	102	71-125	0			
Surr: 4-Bromofluorobenzene	49.65	1.0	50	0	99.3	70-125	0			
Surr: Dibromofluoromethane	50.74	1.0	50	0	101	74-125	0			
Surr: Toluene-d8	49.91	1.0	50	0	99.8	78-123	0			

LCS	Sample ID: VLCSW-130610-R148680				Units: µg/L		Analysis Date: 6/10/2013 10:45 PM			
Client ID:	Run ID: VOA6_130610B				SeqNo: 3247541		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.67	1.0	50	0	97.3	80-120				
Ethylbenzene	47.85	1.0	50	0	95.7	80-120				
Toluene	48.36	1.0	50	0	96.7	80-121				
Xylenes, Total	144.4	3.0	150	0	96.3	80-124				
Surr: 1,2-Dichloroethane-d4	50.44	1.0	50	0	101	71-125	0			
Surr: 4-Bromofluorobenzene	50.08	1.0	50	0	100	70-125	0			
Surr: Dibromofluoromethane	49.21	1.0	50	0	98.4	74-125	0			
Surr: Toluene-d8	50.04	1.0	50	0	100	78-123	0			

MS	Sample ID: 1306232-06AMS				Units: µg/L		Analysis Date: 6/11/2013 12:55 AM			
Client ID: MW-13	Run ID: VOA6_130610B				SeqNo: 3247545		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.17	1.0	50	2.159	96	80-120				
Ethylbenzene	46.15	1.0	50	0	92.3	80-120				
Toluene	47.8	1.0	50	0	95.6	80-121				
Xylenes, Total	138.7	3.0	150	0	92.5	80-124				
Surr: 1,2-Dichloroethane-d4	51.56	1.0	50	0	103	71-125	0			
Surr: 4-Bromofluorobenzene	49.65	1.0	50	0	99.3	70-125	0			
Surr: Dibromofluoromethane	51.1	1.0	50	0	102	74-125	0			
Surr: Toluene-d8	50.6	1.0	50	0	101	78-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
Work Order: 1306232
Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148680** Instrument ID **VOA6** Method: **SW8260**

MSD	Sample ID: 1306232-06AMSD				Units: µg/L			Analysis Date: 6/11/2013 01:21 AM		
Client ID: MW-13	Run ID: VOA6_130610B				SeqNo: 3247546			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.28	1.0	50	2.159	96.3	80-120	50.17	0.22	20	
Ethylbenzene	45.08	1.0	50	0	90.2	80-120	46.15	2.35	20	
Toluene	47.08	1.0	50	0	94.2	80-121	47.8	1.54	20	
Xylenes, Total	135.3	3.0	150	0	90.2	80-124	138.7	2.48	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	51.3	1.0	50	0	103	71-125	51.56	0.493	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.67	1.0	50	0	99.3	70-125	49.65	0.0413	20	
<i>Surr: Dibromofluoromethane</i>	49.51	1.0	50	0	99	74-125	51.1	3.17	20	
<i>Surr: Toluene-d8</i>	50.18	1.0	50	0	100	78-123	50.6	0.834	20	

The following samples were analyzed in this batch:

1306232-01A	1306232-04A	1306232-06A
1306232-07A	1306232-08A	1306232-09A
1306232-10A	1306232-11A	1306232-16A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
 Work Order: 1306232
 Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148725** Instrument ID **VOA6** Method: **SW8260**

MBLK	Sample ID: VBLKW-130611-R148725				Units: µg/L		Analysis Date: 6/11/2013 12:19 PM			
Client ID:	Run ID: VOA6_130611B				SeqNo: 3248699		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	55.67	1.0	50	0	111	71-125	0			
Surr: 4-Bromofluorobenzene	50.15	1.0	50	0	100	70-125	0			
Surr: Dibromofluoromethane	52.87	1.0	50	0	106	74-125	0			
Surr: Toluene-d8	55.04	1.0	50	0	110	78-123	0			

LCS	Sample ID: VLCSW-130611-R148725				Units: µg/L		Analysis Date: 6/11/2013 12:45 PM			
Client ID:	Run ID: VOA6_130611B				SeqNo: 3248700		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.81	1.0	50	0	89.6	80-120				
Ethylbenzene	46.06	1.0	50	0	92.1	80-120				
Toluene	50.07	1.0	50	0	100	80-121				
Xylenes, Total	135.7	3.0	150	0	90.5	80-124				
Surr: 1,2-Dichloroethane-d4	50.52	1.0	50	0	101	71-125	0			
Surr: 4-Bromofluorobenzene	49.27	1.0	50	0	98.5	70-125	0			
Surr: Dibromofluoromethane	50	1.0	50	0	100	74-125	0			
Surr: Toluene-d8	51.61	1.0	50	0	103	78-123	0			

MS	Sample ID: 1306181-02AMS				Units: µg/L		Analysis Date: 6/11/2013 04:24 PM			
Client ID:	Run ID: VOA6_130611B				SeqNo: 3248704		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.26	1.0	50	0	90.5	80-120				
Ethylbenzene	42.33	1.0	50	0	84.7	80-120				
Toluene	46.95	1.0	50	0	93.9	80-121				
Xylenes, Total	125.7	3.0	150	0	83.8	80-124				
Surr: 1,2-Dichloroethane-d4	51.35	1.0	50	0	103	71-125	0			
Surr: 4-Bromofluorobenzene	46.43	1.0	50	0	92.9	70-125	0			
Surr: Dibromofluoromethane	49.72	1.0	50	0	99.4	74-125	0			
Surr: Toluene-d8	49.64	1.0	50	0	99.3	78-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
Work Order: 1306232
Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148725** Instrument ID **VOA6** Method: **SW8260**

MSD	Sample ID: 1306181-02AMSD				Units: µg/L		Analysis Date: 6/11/2013 04:50 PM			
Client ID:	Run ID: VOA6_130611B				SeqNo: 3248705		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.74	1.0	50	0	95.5	80-120	45.26	5.33	20	
Ethylbenzene	41.61	1.0	50	0	83.2	80-120	42.33	1.7	20	
Toluene	44.4	1.0	50	0	88.8	80-121	46.95	5.58	20	
Xylenes, Total	129.9	3.0	150	0	86.6	80-124	125.7	3.22	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	50.86	1.0	50	0	102	71-125	51.35	0.956	20	
<i>Surr: 4-Bromofluorobenzene</i>	45.21	1.0	50	0	90.4	70-125	46.43	2.67	20	
<i>Surr: Dibromofluoromethane</i>	50.06	1.0	50	0	100	74-125	49.72	0.669	20	
<i>Surr: Toluene-d8</i>	49.74	1.0	50	0	99.5	78-123	49.64	0.195	20	

The following samples were analyzed in this batch:

1306232-01A	1306232-12A	1306232-14A
1306232-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
 Work Order: 1306232
 Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148765** Instrument ID **VOA6** Method: **SW8260**

MBLK	Sample ID: VBLKW-130612-R148765				Units: µg/L		Analysis Date: 6/12/2013 12:38 PM			
Client ID:	Run ID: VOA6_130612A				SeqNo: 3249419		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	52.95	1.0	50	0	106	71-125	0			
Surr: 4-Bromofluorobenzene	52.19	1.0	50	0	104	70-125	0			
Surr: Dibromofluoromethane	50.95	1.0	50	0	102	74-125	0			
Surr: Toluene-d8	45.37	1.0	50	0	90.7	78-123	0			

LCS	Sample ID: VLCSW-130612-R148765				Units: µg/L		Analysis Date: 6/12/2013 11:22 AM			
Client ID:	Run ID: VOA6_130612A				SeqNo: 3249418		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.88	1.0	50	0	102	80-120				
Ethylbenzene	48.86	1.0	50	0	97.7	80-120				
Toluene	49.04	1.0	50	0	98.1	80-121				
Xylenes, Total	146.9	3.0	150	0	97.9	80-124				
Surr: 1,2-Dichloroethane-d4	51.14	1.0	50	0	102	71-125	0			
Surr: 4-Bromofluorobenzene	52.97	1.0	50	0	106	70-125	0			
Surr: Dibromofluoromethane	50.17	1.0	50	0	100	74-125	0			
Surr: Toluene-d8	49.72	1.0	50	0	99.4	78-123	0			

MS	Sample ID: 1306218-02AMS				Units: µg/L		Analysis Date: 6/12/2013 03:57 PM			
Client ID:	Run ID: VOA6_130612A				SeqNo: 3249939		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.86	1.0	50	0	97.7	80-120				
Ethylbenzene	41.27	1.0	50	0	82.5	80-120				
Toluene	42.15	1.0	50	0	84.3	80-121				
Xylenes, Total	126.3	3.0	150	0	84.2	80-124				
Surr: 1,2-Dichloroethane-d4	52.09	1.0	50	0	104	71-125	0			
Surr: 4-Bromofluorobenzene	49.92	1.0	50	0	99.8	70-125	0			
Surr: Dibromofluoromethane	50.23	1.0	50	0	100	74-125	0			
Surr: Toluene-d8	46.87	1.0	50	0	93.7	78-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
 Work Order: 1306232
 Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148765** Instrument ID **VOA6** Method: **SW8260**

MSD	Sample ID: 1306218-02AMSD				Units: µg/L		Analysis Date: 6/12/2013 04:23 PM			
Client ID:	Run ID: VOA6_130612A				SeqNo:3249940		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.3	1.0	50	0	101	80-120	48.86	2.89	20	
Ethylbenzene	48.22	1.0	50	0	96.4	80-120	41.27	15.5	20	
Toluene	49.75	1.0	50	0	99.5	80-121	42.15	16.5	20	
Xylenes, Total	145.9	3.0	150	0	97.3	80-124	126.3	14.4	20	
Surr: 1,2-Dichloroethane-d4	50.46	1.0	50	0	101	71-125	52.09	3.19	20	
Surr: 4-Bromofluorobenzene	54.36	1.0	50	0	109	70-125	49.92	8.52	20	
Surr: Dibromofluoromethane	48.88	1.0	50	0	97.8	74-125	50.23	2.74	20	
Surr: Toluene-d8	50.68	1.0	50	0	101	78-123	46.87	7.8	20	

The following samples were analyzed in this batch:

1306232-02A	1306232-03A	1306232-05A
1306232-13A	1306232-15A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
Work Order: 1306232
Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148827** Instrument ID **VOA6** Method: **SW8260**

MBLK	Sample ID: VBLKW-130612-R148827				Units: µg/L		Analysis Date: 6/13/2013 01:22 AM			
Client ID:	Run ID: VOA6_130612B				SeqNo: 3250758		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	55.19	1.0	50	0	110	71-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.98	1.0	50	0	100	70-125	0			
<i>Surr: Dibromofluoromethane</i>	50.37	1.0	50	0	101	74-125	0			
<i>Surr: Toluene-d8</i>	51.98	1.0	50	0	104	78-123	0			

LCS	Sample ID: VLCSW-130612-R148827				Units: µg/L		Analysis Date: 6/13/2013 12:30 AM			
Client ID:	Run ID: VOA6_130612B				SeqNo: 3250757		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	47.24	1.0	50	0	94.5	80-120				
Toluene	48.11	1.0	50	0	96.2	80-121				
Xylenes, Total	142	3.0	150	0	94.7	80-124				
<i>Surr: 1,2-Dichloroethane-d4</i>	55.75	1.0	50	0	111	71-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	52.47	1.0	50	0	105	70-125	0			
<i>Surr: Dibromofluoromethane</i>	49.62	1.0	50	0	99.2	74-125	0			
<i>Surr: Toluene-d8</i>	50.63	1.0	50	0	101	78-123	0			

MS	Sample ID: 1306335-01AMS				Units: µg/L		Analysis Date: 6/13/2013 03:33 AM			
Client ID:	Run ID: VOA6_130612B				SeqNo: 3250763		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	46.83	1.0	50	0	93.7	80-120				
Toluene	47.72	1.0	50	0	95.4	80-121				
Xylenes, Total	140.1	3.0	150	0	93.4	80-124				
<i>Surr: 1,2-Dichloroethane-d4</i>	54.11	1.0	50	0	108	71-125	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.15	1.0	50	0	100	70-125	0			
<i>Surr: Dibromofluoromethane</i>	51.98	1.0	50	0	104	74-125	0			
<i>Surr: Toluene-d8</i>	50.86	1.0	50	0	102	78-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
Work Order: 1306232
Project: Lee Plant

QC BATCH REPORT

Batch ID: **R148827** Instrument ID **VOA6** Method: **SW8260**

MSD		Sample ID: 1306335-01AMSD				Units: µg/L		Analysis Date: 6/13/2013 03:59 AM		
Client ID:		Run ID: VOA6_130612B				SeqNo: 3250764		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	45.37	1.0	50	0	90.7	80-120	46.83	3.18	20	
Toluene	49.74	1.0	50	0	99.5	80-121	47.72	4.15	20	
Xylenes, Total	136.2	3.0	150	0	90.8	80-124	140.1	2.78	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	52.94	1.0	50	0	106	71-125	54.11	2.18	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.42	1.0	50	0	98.8	70-125	50.15	1.46	20	
<i>Surr: Dibromofluoromethane</i>	51.25	1.0	50	0	102	74-125	51.98	1.41	20	
<i>Surr: Toluene-d8</i>	53.41	1.0	50	0	107	78-123	50.86	4.9	20	

The following samples were analyzed in this batch:

1306232-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tasman Geosciences
Project: Lee Plant
WorkOrder: 1306232

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Sample Receipt Checklist

Client Name: **TASMAN GEOSCIENCES**

Date/Time Received: **06-Jun-13 08:50**

Work Order: **1306232**

Received by: **RDH**

Checklist completed by Johanna B. Allen
eSignature

07-Jun-13
Date

Reviewed by: Senia West
eSignature

10-Jun-13
Date

Matrices: **water**

Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>1.3 C/1.3 C u/c</u> <u>IR 1</u>		
Cooler(s)/Kit(s):	<u>5410</u>		
Date/Time sample(s) sent to storage:	<u>06/07/13 09:25</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:	<u>-</u>		
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



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Chain of Custody Form

Page 1 of 2

COC ID: 81482

1306232

TASMAN GEOSCIENCES: Tasman Geosciences

Project: Lee Plant

Environmental

ALS Project Manager:

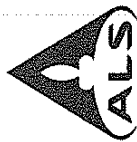
Customer Information				Project Information													
Purchase Order		Project Name	Lee Plant	A	B	C	D	E	F	G	H	I	J	Hold			
Work Order		Project Number	400128007 GN00	B													
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C													
Send Report To	Christine Wascko	Invoice Attn	Chandler Cole	D													
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E													
City/State/Zip	Arvada, CO 80002	City/State/Zip	Denver, Colorado 80102	F													
Phone	(720) 988-2024	Phone		G													
Fax		Fax		H													
e-Mail Address	cnwascko@tasmangeo.com	Mail Address		I													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7	6/4/13	1540	Water	HCl	3	X										
2	MW-9	6/5/13	1200	Water													
3	MW-10	6/5/13	1240	Water													
4	MW-11	6/4/13	1600	Water													
5	MW-12	6/5/13	1020	Water													
6	MW-13	6/4/13	1340	Water													
7	MW-13 MS		1340	Water													
8	MW-13 MSD		1340	Water													
9	MW-14		1055	Water													
10	MW-16		1240	Water													
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Results Due Date:					
[Signature]				FedEx				☒ Std. 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour				☐ 10 Day FAT					
Relinquished by: [Signature]				Received by: [Signature]				Notes:									
Relinquished by: [Signature]				Received by: [Signature]				Cooler ID				Cooler Temp.					
Logged by (Laboratory):				Checked by (Laboratory):				QC Package: (Check One Box Below)				TRRP Checklist					
								☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW046/CLP ☐ Other / EDD				☐ TRRP Level IV					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

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Page 2 of 2

COC ID: 81481

Environmental

ALS Project Manager: 185033

Customer Information				Project Information				Parameter/Method Request for Analysis											
Project Name				Lee Plant				BTEX (8260B)											
Project Number				400128007 GN00															
Bill To Company				DCP Midstream, LP															
Invoice Attn				Chandler Cole															
Address				370 17th Street, Suite 2500															
City/State/Zip				Denver, Colorado 80102															
Phone																			
Fax																			
e-Mail Address				Please cc: chandler@dcpl.com e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-17	6/4/13	1015	Water	Hcl	3	X												
2	MW-18		1000	Water															
3	MW-19		1250	Water															
4	MW-20		1120	Water															
5	MW-21		815	Water															
6	MW-22	6/5/13	815	Water															
7	DUP	6/5/13	820	Water															
8				Water															
9																			
10																			

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Results Due Date:						
Chandler Cole		Fedex		☒ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24-Hour		☐ Other						
Relinquished by:	Date: 6/5/13	Time: 1400	Received by (Laboratory):	Date: 6/6/13	Time: 0850	Notes: 10 Day TAT.						
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Date:	Time:	Cooler Temp.						
Logged by (Laboratory):	Date:	Time:	Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035
QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRAP Checklist ☐ Level III Std QC/Raw Data ☐ TRAP Level IV ☐ Level IV SW846/CLP ☐ Other / EDD												

Note: 1. Any changes must be made in writing once samples and COC form have been submitted to ALS Environmental.

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Appendix B

Historical Groundwater Analytical Results

APPENDIX B
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-1	3/1/2008	1.4	0.0395	0.948	0.128	
MW-1	6/1/2008	2.75	0.054	2.17	0.232	
MW-1	9/1/2008	1.1	0.0375	0.845	0.131	
MW-1	12/1/2008	0.869	0.0385	0.581	0.0709	
MW-1	3/1/2009	0.288	0.0149	0.107	0.0395	
MW-1	5/1/2009	1.38	0.0705	0.175	0.065	
MW-1	9/1/2009	0.267	0.024	0.0332	0.0078	
MW-1	12/209	0.819	0.088	0.0267	0.012	
MW-1	3/1/2010	0.726	0.0879	0.107	0.0278	
MW-2	3/1/2008	8.98	0.135	6.58	0.765	
MW-2	6/1/2008	24.3	0.319	18.5	2.58	
MW-2	9/1/2008	21.7	0.443	9.79	4.25	
MW-2	12/1/2008	Not Sampled: Remediation Activities				
MW-2	3/1/2009	23.7	0.538	2.34	1.25	
MW-2	5/1/2009	32.7	0.791	1.31	1.69	
MW-2	9/1/2009	29.3	0.491	0.771	0.371	
MW-2	12/1/2009	28.5	0.57	0.347	0.177	
MW-2	3/1/2010	23.8	0.529	0.71	<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-3	12/6/2012	NS	NS	NS	NS	
MW-3	6/5/2013	NS	NS	NS	NS	
MW-4	12/21/2006	0.03	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 B
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-5*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5*	6/5/2013	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*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6	6/7/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-6*	6/5/2013	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-7	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-7	6/4/2013	0.0062	<0.001	<0.001	<0.001	
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-8*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-8*	6/5/2013	LNAPL	LNAPL	LNAPL	LNAPL	

APPENDIX B
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-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	
MW-9	12/7/2012	13.0	0.89	<0.050	0.28	Duplicate sample collected
MW-9	6/5/2013	16.0	<0.010	0.96	0.38	Duplicate sample collected
MW-10	9/24/2004	0.022	<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	3.67	<0.00054	0.0016	<0.0011	
MW-10	9/17/2009	3.58	<0.00043	0.0411	<0.0017	
MW-10	3/29/2010	0.192	<0.002	0.00095	<0.006	
MW-10	3/29/2010	0.192	<0.00043	0.00095	<0.0017	
MW-10	9/24/2010	12.2	<0.002	0.0723	0.0026	
MW-10	9/24/2010	12.2	<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	12.5	<0.40	0.204	<0.80	
MW-10	6/7/2012	29.0	0.19	<0.05	<0.15	
MW-10	12/7/2012	27.0	0.23	<0.050	<0.15	
MW-10	6/5/2013	26.0	<0.010	0.33	<0.010	
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	
MW-11	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-11	6/4/2013	<0.001	<0.001	<0.001	<0.001	

APPENDIX B
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-12	12/7/2012	5.5	0.0086	<0.005	<0.015	
MW-12	6/5/2013	4.3	<0.005	<0.005	<0.005	
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	
MW-13	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-13	6/4/2013	0.0022	<0.001	<0.001	<0.001	

APPENDIX B
HISTORICAL DATA
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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-14	12/7/2012	0.0024	<0.001	<0.001	<0.003	
MW-14	6/5/2013	0.0019	<0.001	<0.001	<0.001	
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-15*	12/6/2012	LNAPL	LNAPL	LNAPL	LNAPL	
MW-15*	6/5/2013	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-16	12/6/2012	0.051	0.0013	0.0027	<0.003	
MW-16	6/5/2013	0.0086	<0.001	<0.001	<0.001	
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	
MW-17	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-17	6/4/2013	<0.001	<0.001	<0.001	<0.001	

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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)		0.01	0.75	0.75	0.62	
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-18	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-18	6/4/2013	<0.001	<0.001	<0.001	<0.001	
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	
MW-19	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-19	6/4/2013	<0.001	<0.001	<0.001	<0.001	

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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)		0.01	0.75	0.75	0.62	
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-20	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-20	6/4/2013	<0.001	<0.001	<0.001	<0.001	
MW-21	9/23/2004	8.5	<1.0	0.14	0.2	
MW-21	3/14/2005	6.7	<1.0	0.17	0.29	
MW-21	9/27/2005	4.4	<0.54	0.087	0.11	
MW-21	3/2/2006	2.4	0.00062	0.069	0.11	
MW-21	9/15/2006	0.48	<0.54	0.023	0.034	
MW-21	3/28/2007	13.2	0.0059	0.839	0.883	
MW-21	9/20/2007	7.23	0.00067	0.462	0.321	
MW-21	3/20/2008	0.899	<0.00048	0.0399	0.0452	
MW-21	3/11/2009	0.216	<0.00048	0.0018	<0.0014	
MW-21	9/17/2009	12.1	0.0034	1.09	0.312	
MW-21	3/29/2010	14.8	0.00265	1.54	0.1945	
MW-21	3/29/2010	13.00	0.0023	1.32	0.0959	
MW-21	9/24/2010	11.555	0.0019	1.535	0.02645	
MW-21	9/25/2010	9.41	0.002	1.4	0.0104	
MW-21	6/3/2011	7.97	0.0012	0.536	<0.004	Duplicate sample collected
MW-21	6/3/2011	7.78	0.0011	0.465	<0.0020	
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
MW-21	12/7/2012	1.9	0.24	<0.005	0.098	
MW-21	6/5/2013	0.78	<0.001	0.097	0.011	

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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-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	0.011	<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	0.0114	<0.002	0.0033	<0.006	
MW-22	9/25/2010	0.0114	<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	
MW-22	12/6/2012	<0.001	<0.001	<0.001	<0.003	
MW-22	6/5/2013	<0.001	<0.001	<0.001	<0.001	

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

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.