

GW-350

Groundwater Monitor Report

DATE:
2009



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1862 KELLER PARKWAY

KELLER, TX

76248

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March 30, 2010

Mr. Glenn Von Gonten
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: 2009 Annual Groundwater Monitoring Report

Shell Pipeline Company LP
Jal Basin Station (GW-350)
Jal, Lea County, New Mexico

Section 5, Township 26 South, Range 37 East
Section 32, Township 25 South, Range 37 East

H₂A Job No. 106.001

RECEIVED OCD
2010 MAR 31 A 11:26

Dear Mr. Von Gonten:

H₂A Environmental, Ltd. (H₂A) is pleased to provide the enclosed 2009 Annual Groundwater Monitoring Report on behalf of Shell Pipeline Company LP, as required by the OCD letter dated December 18, 2001, for the above referenced site. The attached report presents the results of remediation and monitoring activities conducted at the Jal Basin Station during 2009.

We would appreciate the opportunity to meet at your office in Santa Fe to discuss the report findings, and to review and discuss planned activities to complete this site closure. If your schedule permits, we would like to suggest a date in June of this year for the meeting.

We trust that the enclosed information meets your needs at this time; however, should you have any questions or require any additional information, please do not hesitate to contact Kenneth Springer at 281.324.5921, or via electronic mail at kenneth.springer@shell.com.

Sincerely,

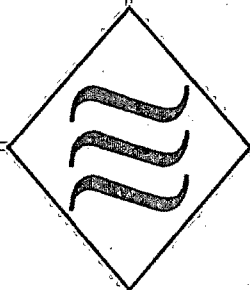
H₂A ENVIRONMENTAL, LTD.

Shannon S. Walker, PE
Senior Remediation Engineer

enclosure

cc: L. Hill, NMOCD District 1, Hobbs
K. Springer, Shell Oil Products US
I. Olness, URS Corporation

H₂A ENVIRONMENTAL, LTD.



2009 ANNUAL GROUNDWATER MONITORING REPORT

JAL BASIN STATION
JAL, LEA COUNTY, NEW MEXICO

Prepared For:
Shell Oil Products US
Shell Pipeline Company LP

Prepared By:
H₂A Environmental, Ltd.



MARCH 2010

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1.0 INTRODUCTION

H₂A Environmental, Ltd. (H₂A) is pleased to provide this 2009 Annual Groundwater Monitoring Report for the Jal Basin Station (the Site), located south of Jal, in Lea County, New Mexico. Quarterly gauging events were conducted at the Site in March, June, September, and December 2009 and semi-annual sampling events were conducted in March and September 2009. Results of the 2009 monitoring and investigation activities are summarized herein.

2.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities consisted of gauging the depth to water, and the depth to light non-aqueous phase liquid (LNAPL) if present, in all monitoring wells (shown in Figure 1), then purging static water from all wells not exhibiting detectable LNAPL. After the monitoring wells had been purged, groundwater samples were collected and submitted to a certified laboratory. Groundwater samples were collected on a semi-annual basis during 2009 and analyzed for determination of benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations and dissolved metals concentrations. Additionally, samples collected during the first half of 2009 were also analyzed for oxygenates and polycyclic aromatic hydrocarbons (PAHs).

During 2009, H₂A implemented the plan for decreased sampling frequency as outlined in the *2008 Annual Groundwater Monitoring Report*. Analytical results from the 2007 and 2008 sampling events indicated no dissolved-phase BTEX concentrations above the New Mexico Standards in any of the nine perimeter wells (MW-01, MW-05, MW-10, MW-11, MW-13, MW-15, MW-16, MW-17, and MW-21). Therefore, H₂A performed two semi-annual sampling events during 2009. The first half 2009 monitoring event involved sampling all delineation and monitoring wells to ensure that no plume migration had occurred. The second half 2009 event focused on historically impacted wells only to monitor attenuation progress.

Groundwater samples collected for BTEX and oxygenates analysis (Method SW846 8260B) were placed in sterile, 40-milliliter (mL) glass volatile organic analysis (VOA) vials equipped with Teflon-lined caps and hydrochloric acid preservative, as provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the absence of air bubbles.

Groundwater samples collected for dissolved metals analysis (Methods SW846 6020A and 7470A) were filtered using a 10-micron filter and then placed in 500-mL sterile plastic containers

equipped with Teflon-lined caps and nitric acid preservative, as provided by the analytical laboratory.

Groundwater samples collected for PAH analysis (Method EPA 8270C) were placed in unpreserved, sterile, 1-liter amber glass containers equipped with Teflon-lined caps.

Following collection, all sample containers were labeled, placed on ice in an insulated cooler, and chilled to an approximate temperature of 40°F (4°C). The cooler was sealed prior to transport to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

3.0 GROUNDWATER MEASUREMENTS

Groundwater measurements were obtained in March, June, September, and December 2009. Groundwater contour maps, illustrating groundwater elevations measured during each quarterly event, are presented as Figures 2 through 5 and groundwater measurements are summarized in Table 1. Quarterly LNAPL thickness maps are presented as Figures 6 through 9. Figure 10 summarizes groundwater elevations versus product thicknesses through time. As noted on Figure 10, the average corrected groundwater elevation at the Site decreased throughout 2009.

4.0 GROUNDWATER MONITORING RESULTS

Constituent concentrations for each semi-annual event are summarized in Figures 6 and 8, and in Table 2. Copies of the certified laboratory reports with appropriate chain-of-custody documentation are provided in Appendix A.

5.0 PRODUCT RECOVERY ACTIVITIES

Active remediation at the Site utilizing a high vacuum remediation (HVR) system was initiated in January 2001 and system capacity was expanded in July 2002 via the addition of a second liquid ring pump (LRP). The system continued to operate through the first half of 2008; however, as a result of diminished LNAPL recovery, it was turned off and an evaluation to determine the need for continued active remediation was initiated. When the system was shut down in June 2008, approximately 60,000 gallons of product had been recovered via active remediation efforts at the Site.

6.0 ADDITIONAL FIELD INVESTIGATION ACTIVITIES

In addition to the quarterly groundwater gauging and semi-annual sampling completed during 2009, H₂A also sampled phase-separated hydrocarbon obtained from well MW-14 during the September quarterly gauging event. Removal of this sample volume explains the decrease in LNAPL thickness from 0.77 feet to 0.37 feet between the September and December 2009 gauging events.

The LNAPL sample collected at MW-14 was submitted to Torkelson Geochemistry, Inc. in Tulsa, Oklahoma for the evaluation of physical properties and hydrocarbon fingerprinting to confirm the nature of the LNAPL and also the degree of weathering. A summary of the results of the physical properties analyses is provided in the chart below and a simulated distillation curve identifying the type of NAPL is provided in Figure 11. The NAPL was identified as a slightly weathered diesel fuel. A copy of the laboratory report with appropriate chain-of-custody documentation is provided in Appendix B.

Parameter	Result¹
Density (g/ml)	0.8615
Viscosity (centipoise)	5.16
Surface Tension² (air/water, dynes/cm)	69.1
Interfacial Tension² (NAPL/water, dynes/cm)	19.5
Surface Tension (air/NAPL, dynes/cm)	27.3

Notes:

1. All measurements assume a temperature of 60°F.
2. Distilled water was used where required to complete analyses.

7.0 2010 PROJECT SCHEDULE

Based on the results of 2009 monitoring activities and LNAPL recharge observations, H₂A plans to continue quarterly gauging and semi-annual groundwater sampling efforts at the Site as outlined in the *2008 Annual Groundwater Monitoring Report*. H₂A would also like to propose a meeting with the New Mexico Oil Conservation Division to discuss the direction of future Site activities and to outline a plan for realizing closure goals at the Site.

FIGURES



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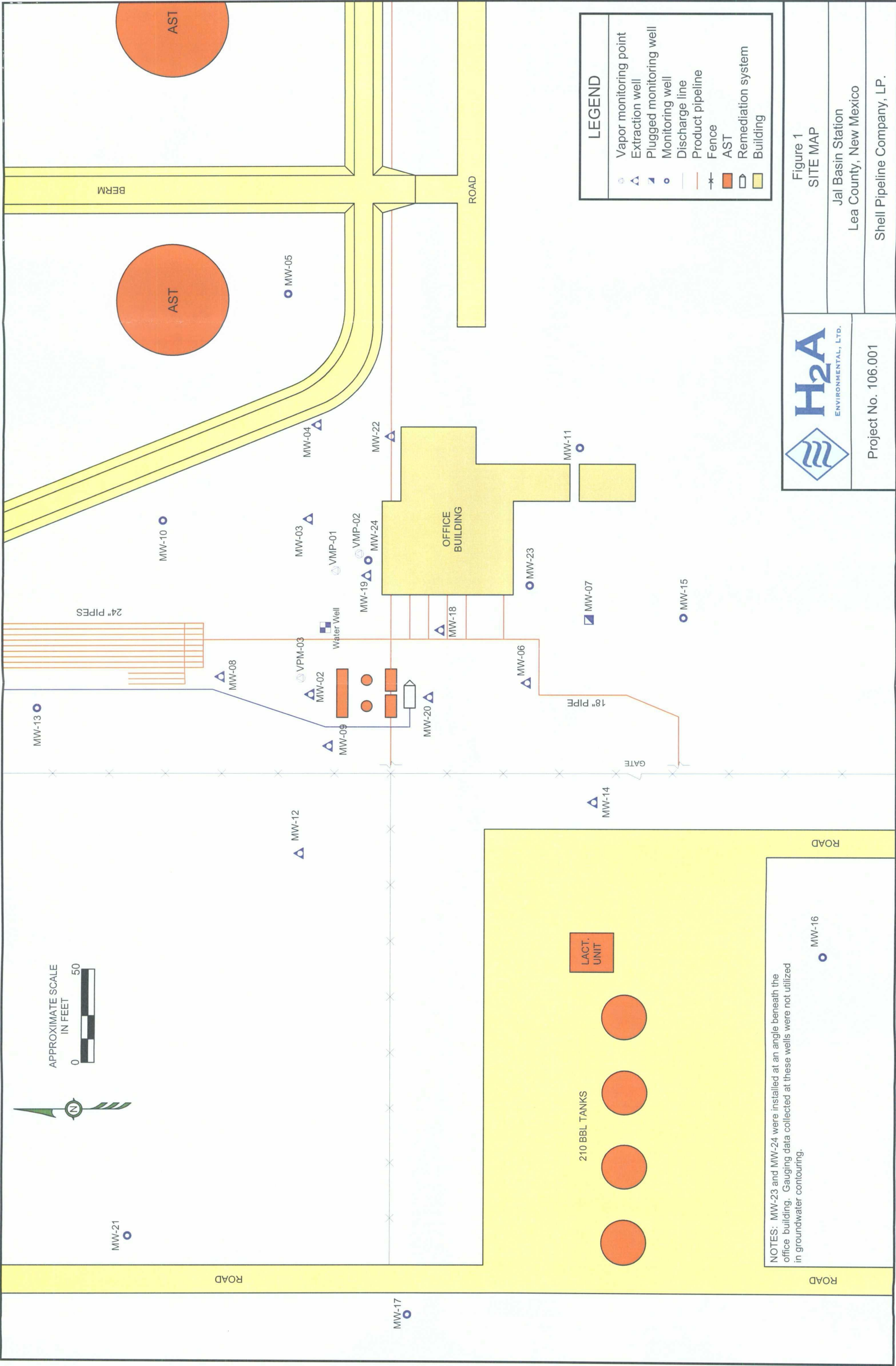


Figure 1
SITE MAP

Jal Basin Station
Lea County, New Mexico
Shell Pipeline Company, LP.

Project No. 106.001

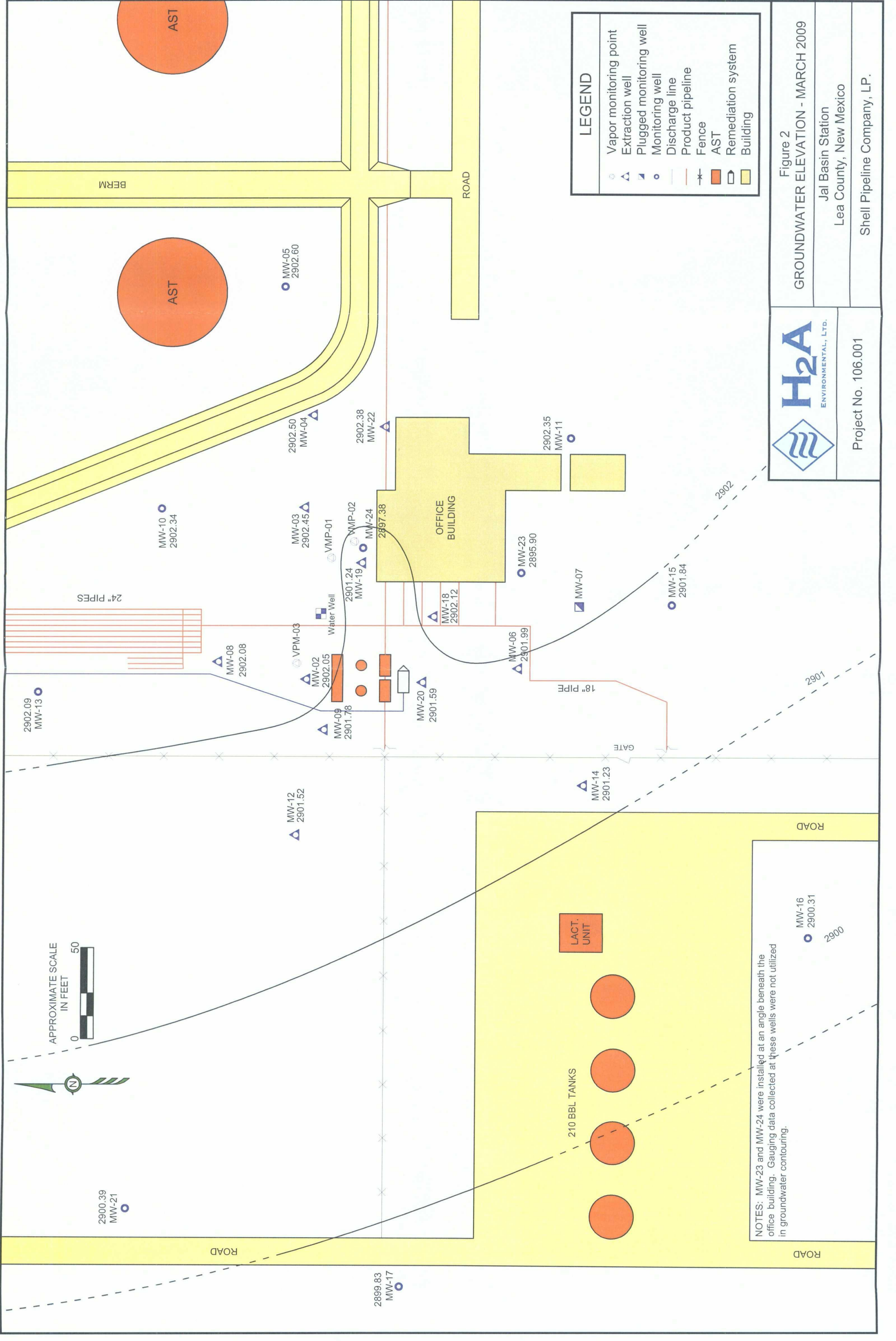


Figure 2
GROUNDWATER ELEVATION - MARCH 2009

Jal Basin Station
Lea County, New Mexico

Project No. 106.001

Shell Pipeline Company, LP.

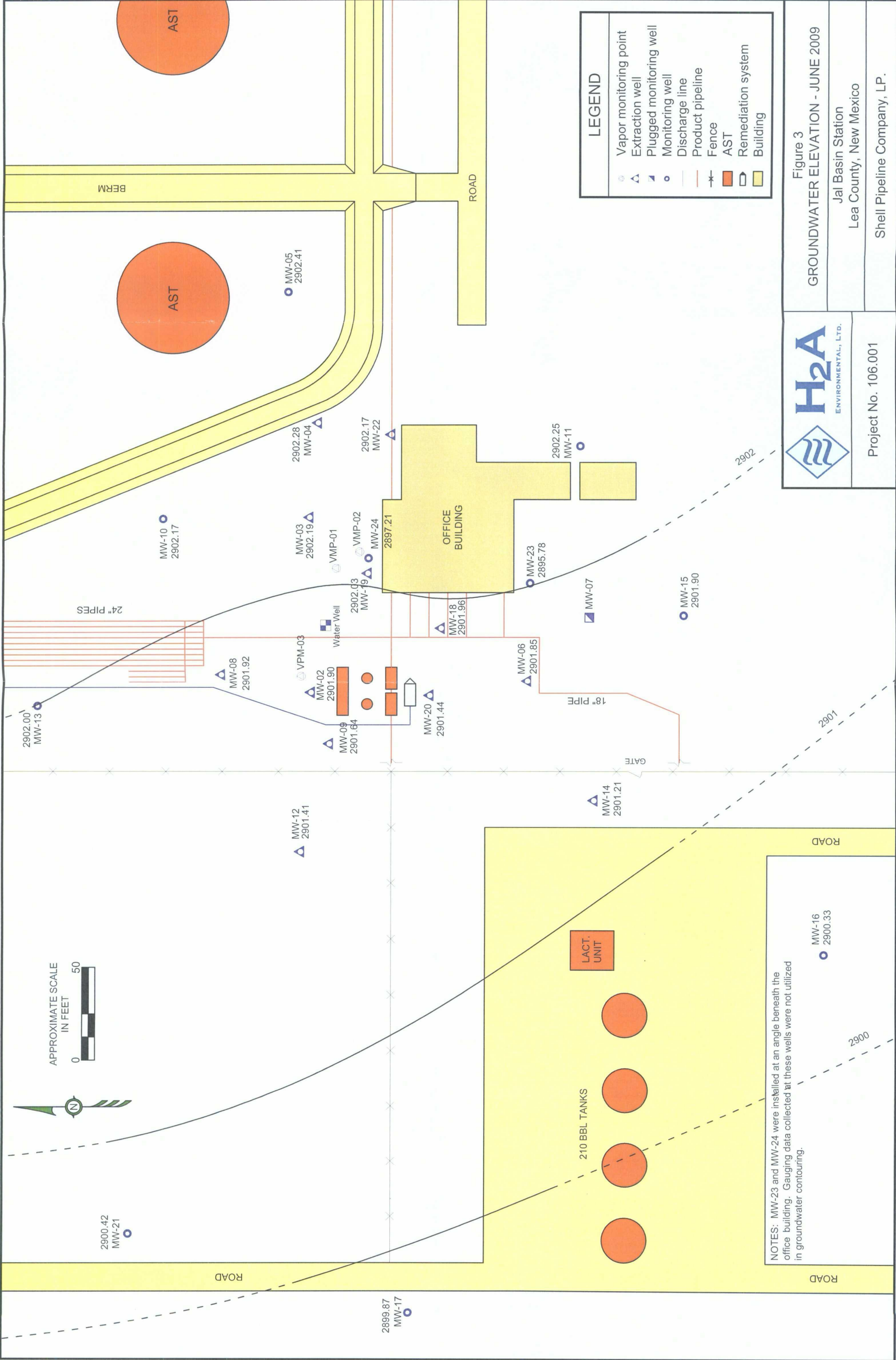
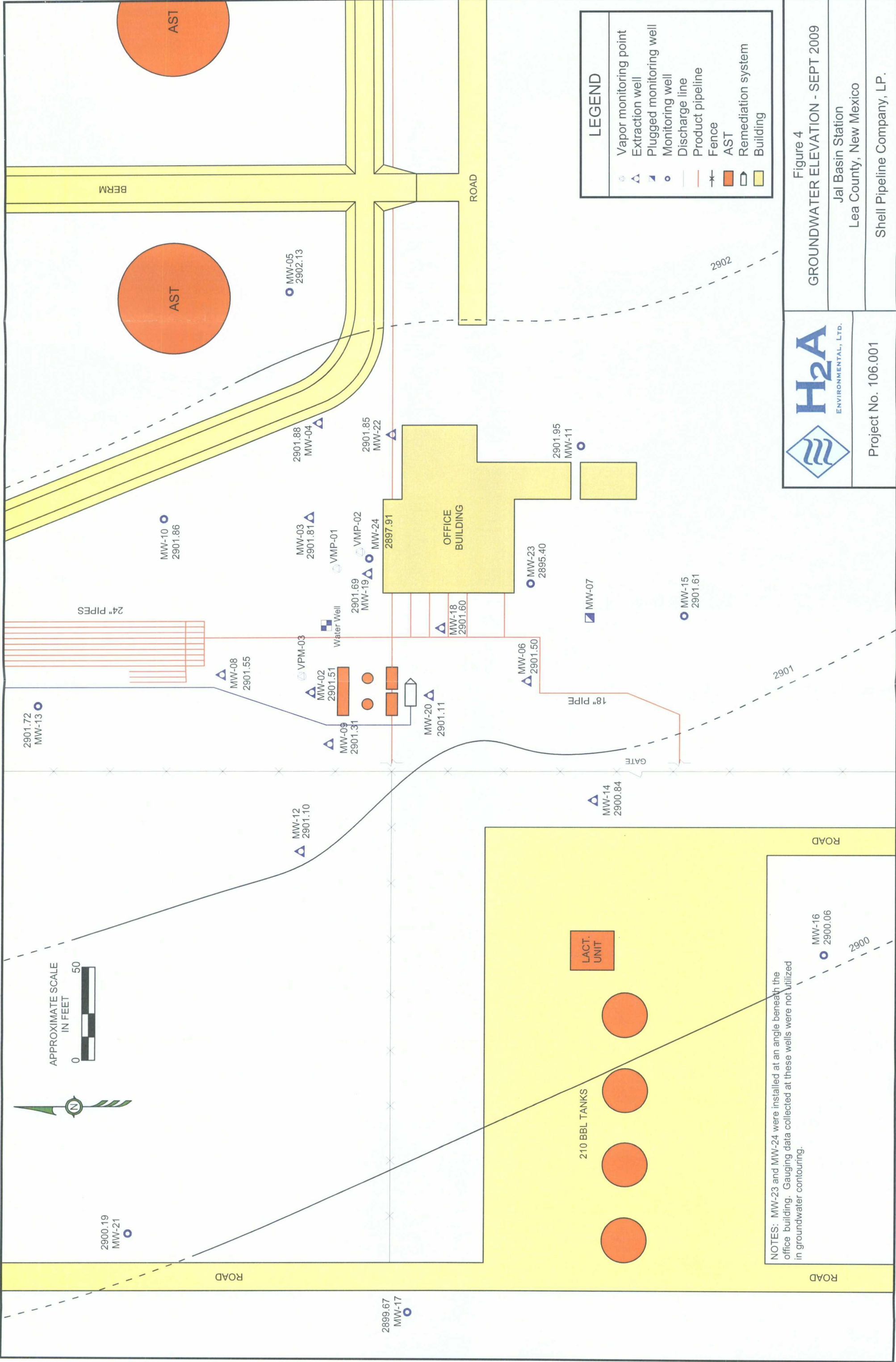


Figure 3
GROUNDWATER ELEVATION - JUNE 2009
Jal Basin Station
Lea County, New Mexico
Shell Pipeline Company, LP.

Project No. 106.001





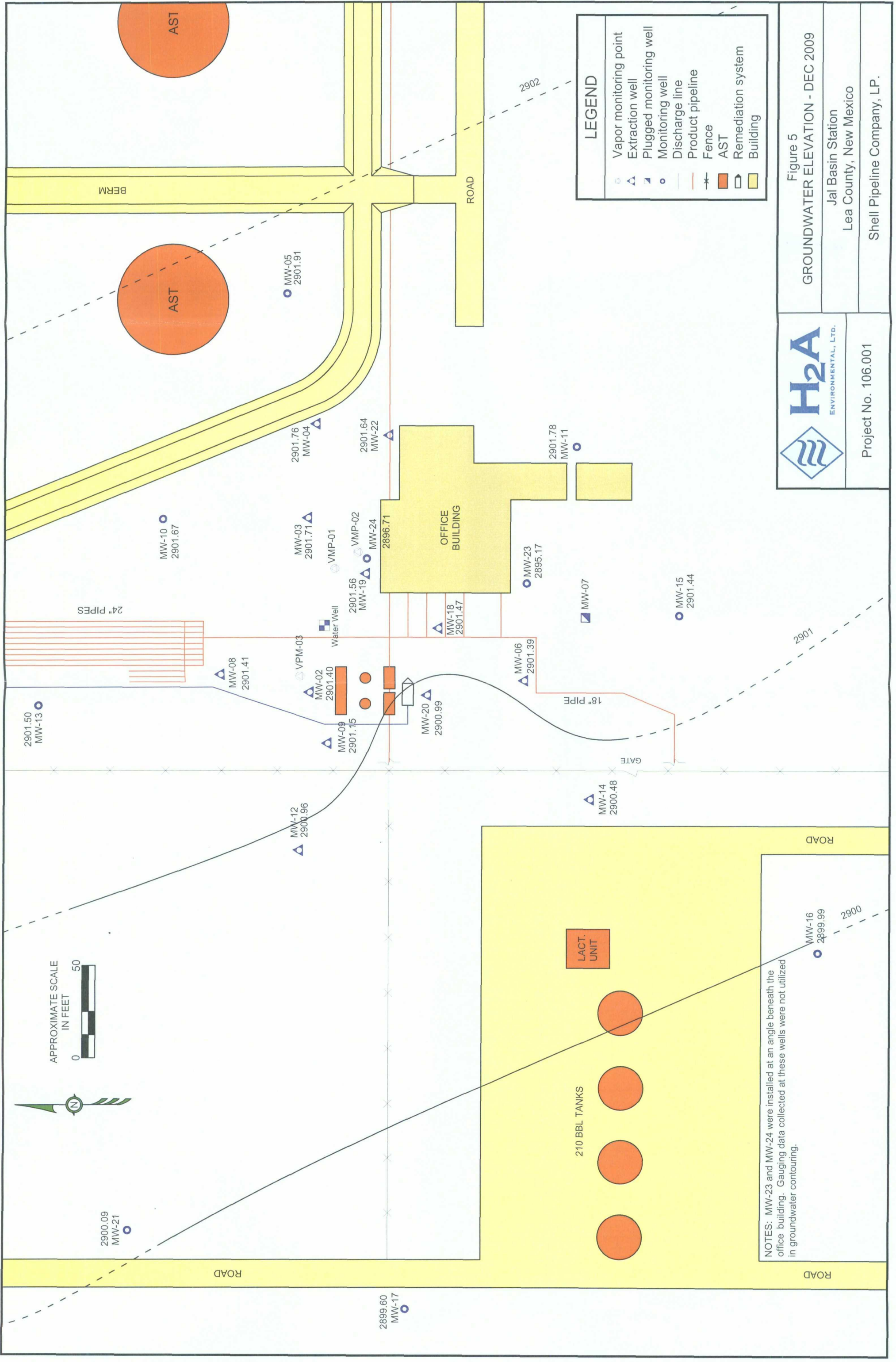
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Figure 4
GROUNDWATER ELEVATION - SEPT 2009

Jal Basin Station
Lea County, New Mexico

Project No. 106.001

Shell Pipeline Company, LP.





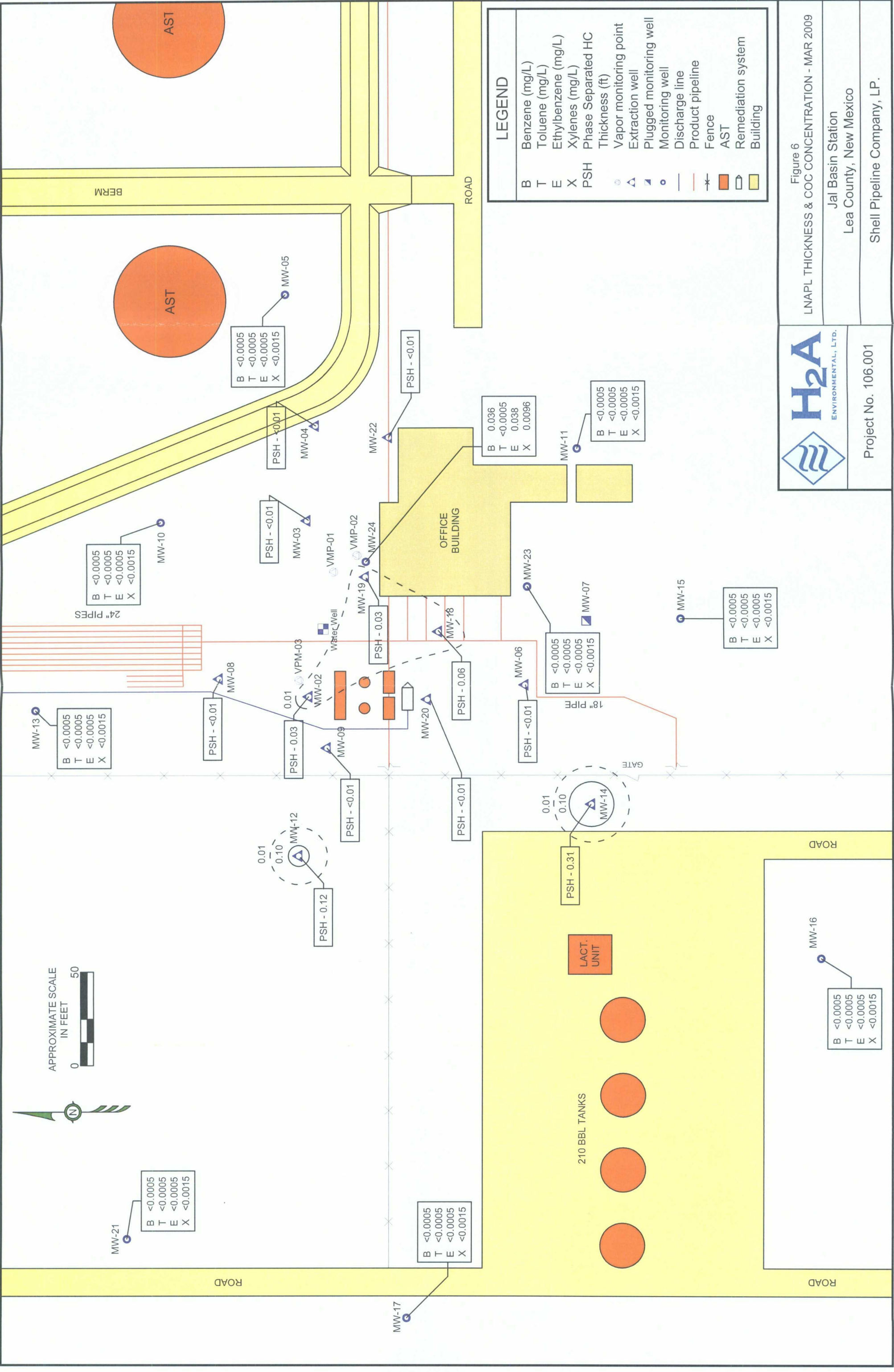
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Figure 5
GROUNDWATER ELEVATION - DEC 2009

Jal Basin Station
Lea County, New Mexico

Project No. 106.001

Shell Pipeline Company, LP.

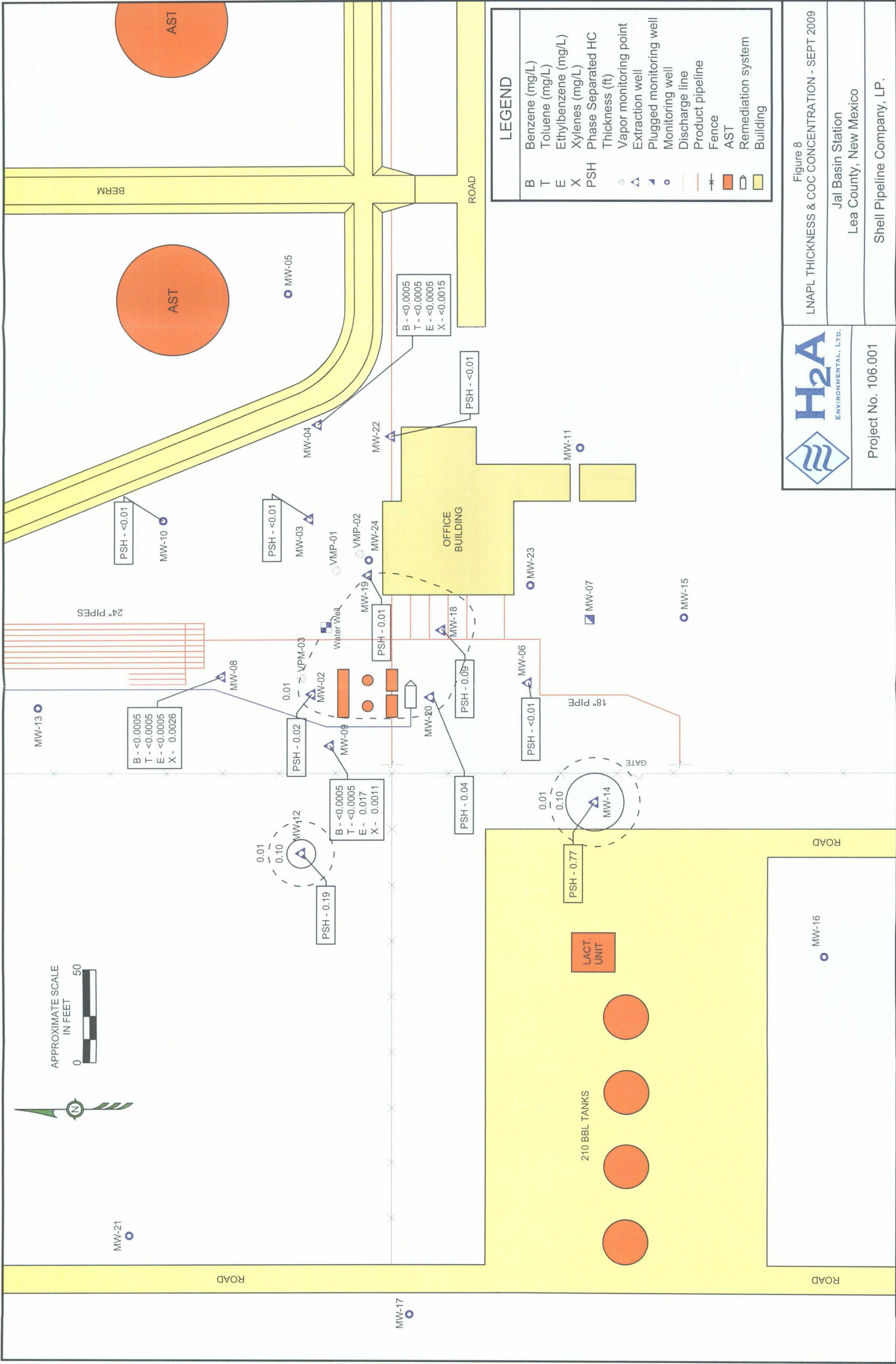


Project No. 106.001

Figure 6
LNAPL THICKNESS & COC CONCENTRATION - MAR 2009

Jal Basin Station
Lea County, New Mexico

Shell Pipeline Company, LP.



Jal Basin Station
Lea County, New Mexico

Project No. 106.001

Shell Pipeline Company, LP.

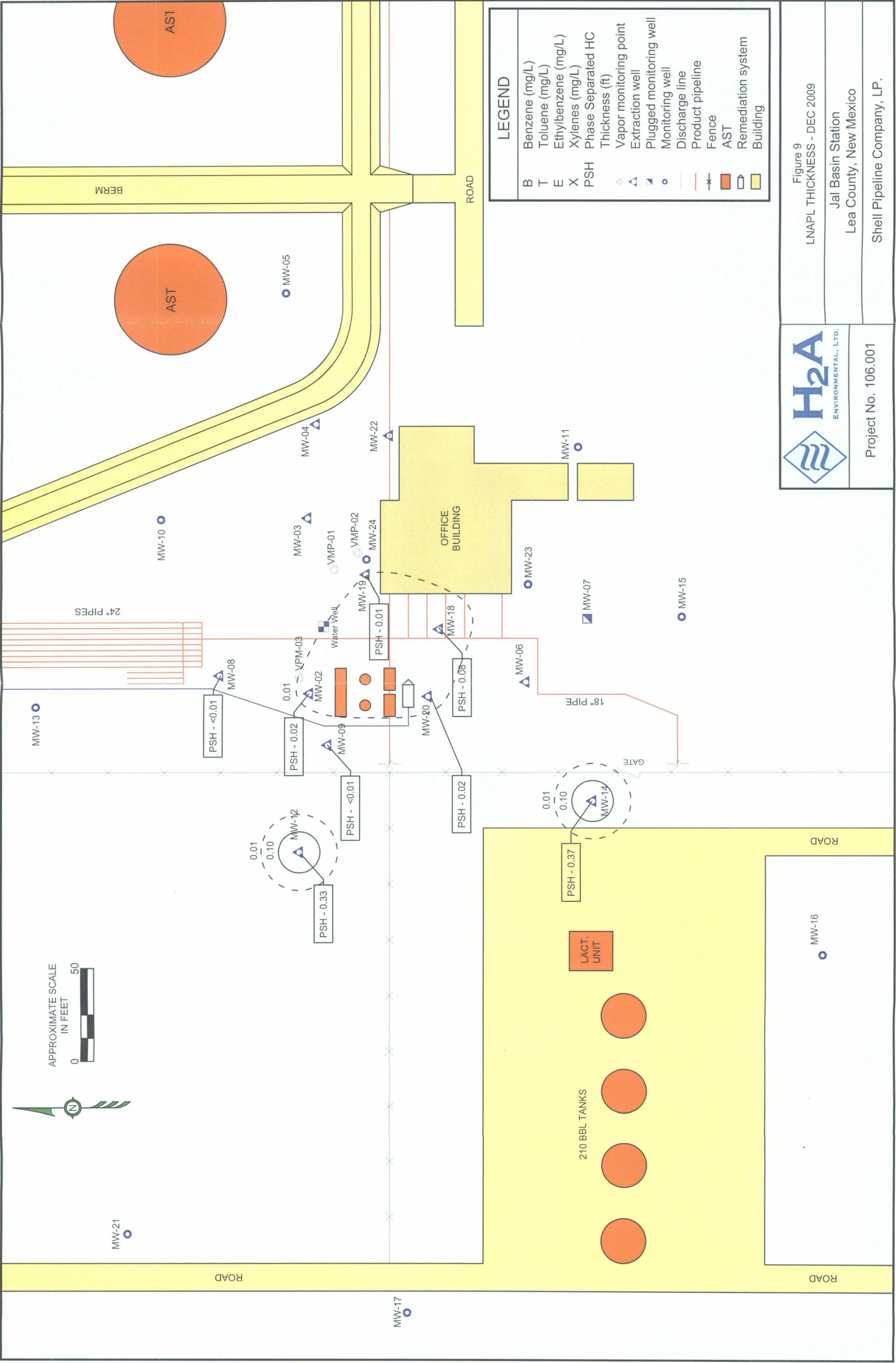


Figure 9
LNAPL THICKNESS - DEC 2009

Jal Basin Station
Lea County, New Mexico

Shell Pipeline Company, LP.

Project No. 106.001

106.001

Shell Oil Products US
Jal Station Diesel Remediation

Jal, NM

Figure 10
Corrected GW Elevation (Avg)
vs. LNAPL Thickness

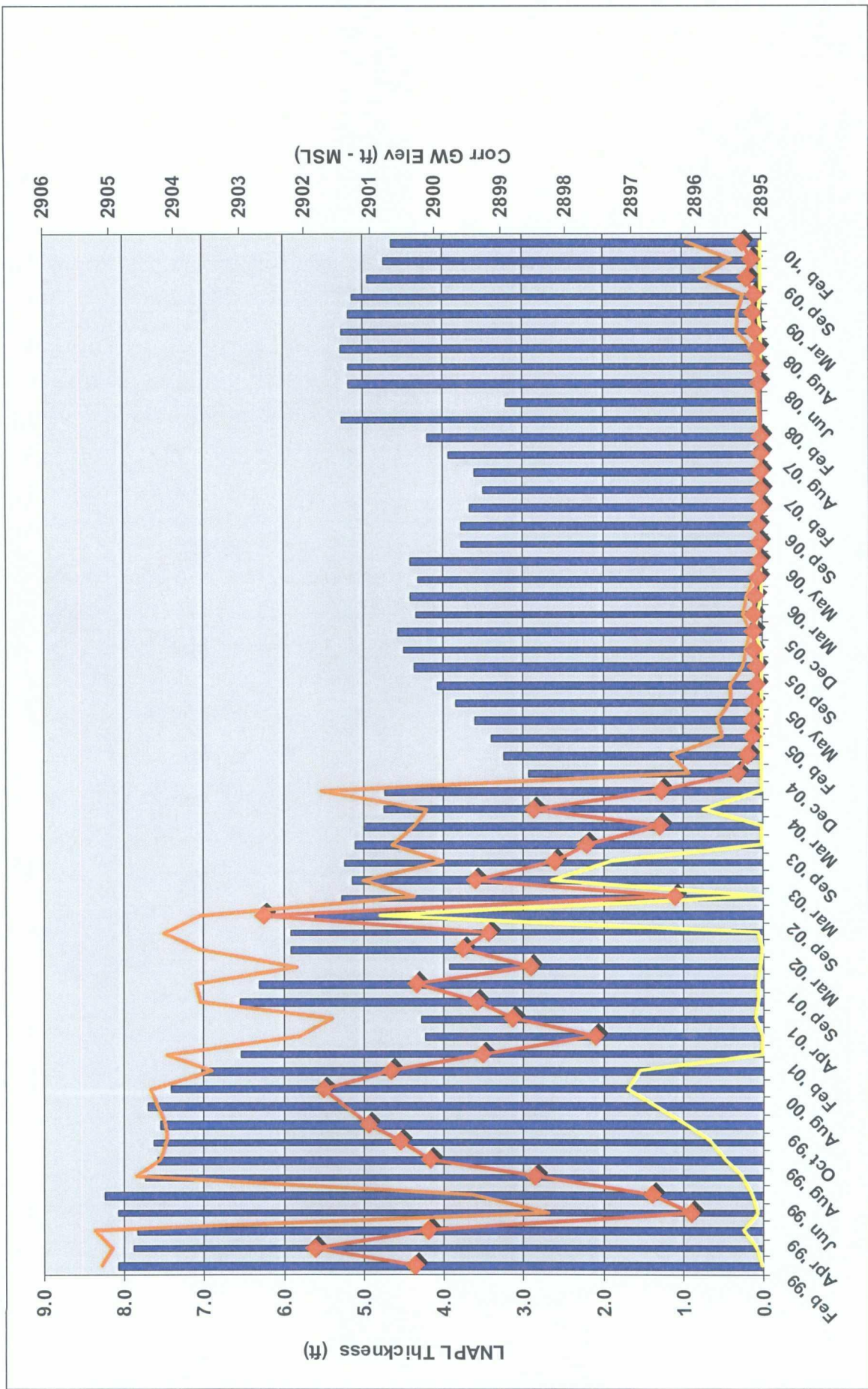
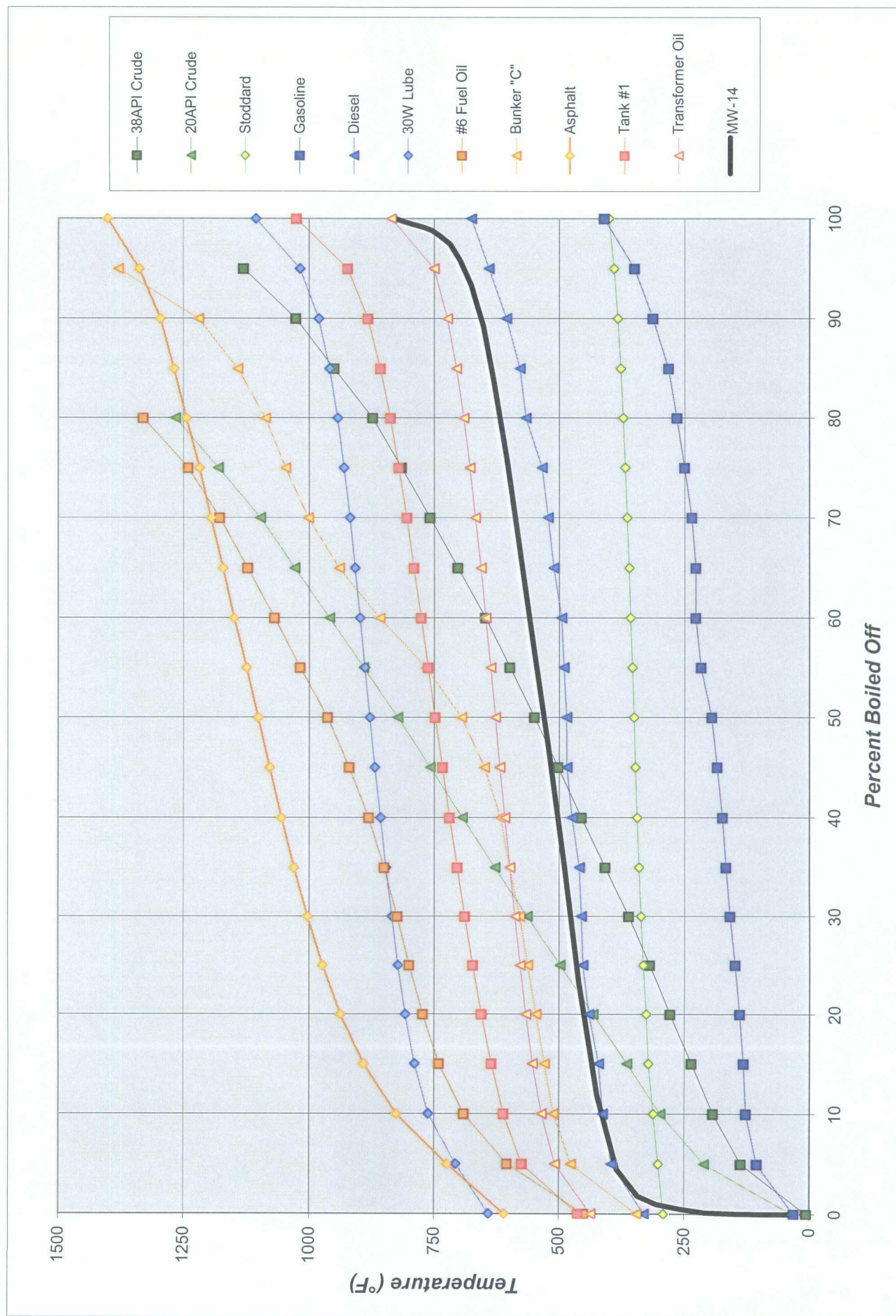


Figure 11. MW-14 Simulated Distillation Curve
 Jal Basin Station
 Jal, Lea County, New Mexico



TABLES



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Table 1
GROUNDWATER MEASUREMENTS TABLE
Jal Station Diesel Remediation

Jal, NM

MW-01

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/11/2009	2992.30	2994.62	TOC	85.00	94.50	91.82				2902.80
6/29/2009	2992.30	2994.62	TOC	85.00	94.50	91.87				2902.75
9/17/2009	2992.30	2994.62	TOC	85.00	94.50	91.12				2903.50
12/20/2009	2992.30	2994.62	TOC	85.00	94.50	92.35				2902.27

MW-02

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.02	2989.43	TOC	82.00	101.50	87.40	87.37	0.03	0.830	2902.05
6/29/2009	2987.02	2989.43	TOC	82.00	101.50	87.55	87.53	0.02	0.830	2901.90
9/17/2009	2987.02	2989.43	TOC	82.00	101.50	87.94	87.92	0.02	0.830	2901.51
12/20/2009	2987.02	2989.43	TOC	82.00	101.50	88.05	88.03	0.02	0.830	2901.40

MW-03

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.91	2990.81	TOC	85.00	100.00	88.36	88.36		0.830	2902.45
6/29/2009	2987.91	2990.81	TOC	85.00	100.00	88.62	88.62		0.830	2902.19
9/16/2009	2987.91	2990.81	TOC	85.00	100.00	89.00	89.00		0.830	2901.81
12/20/2009	2987.91	2990.81	TOC	85.00	100.00	89.10				2901.71

MW-04

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2988.22	2991.16	TOC	77.00	97.00	88.66	88.66		0.830	2902.50
6/29/2009	2988.22	2991.16	TOC	77.00	97.00	88.88				2902.28
9/17/2009	2988.22	2991.16	TOC	77.00	97.00	89.28				2901.88
12/20/2009	2988.22	2991.16	TOC	77.00	97.00	89.40				2901.76

MW-05

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/11/2009	2988.47	2991.38	TOC	80.00	95.00	88.78				2902.60
6/29/2009	2988.47	2991.38	TOC	80.00	95.00	88.97				2902.41
9/17/2009	2988.47	2991.38	TOC	80.00	95.00	89.25				2902.13
12/20/2009	2988.47	2991.38	TOC	80.00	95.00	89.47				2901.91

Table 1
GROUNDWATER MEASUREMENTS TABLE
Jal Station Diesel Remediation

Jal, NM

MW-06

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.40	2990.17	TOC	80.00	95.00	88.18	88.18		0.830	2901.99
6/29/2009	2987.40	2990.17	TOC	80.00	95.00	88.32	88.32		0.830	2901.85
9/16/2009	2987.40	2990.17	TOC	80.00	95.00	88.67	88.67		0.830	2901.50
12/20/2009	2987.40	2990.17	TOC	80.00	95.00	88.78				2901.39

MW-08

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.97	2990.73	TOC	80.00	95.00	88.65	88.65		0.830	2902.08
6/29/2009	2987.97	2990.73	TOC	80.00	95.00	88.81	88.81		0.830	2901.92
9/17/2009	2987.97	2990.73	TOC	80.00	95.00	89.18				2901.55
12/20/2009	2987.97	2990.73	TOC	80.00	95.00	89.32	89.32		0.830	2901.41

MW-09

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.39	2990.31	TOC	81.00	96.00	88.53	88.53		0.830	2901.78
6/29/2009	2987.39	2990.31	TOC	81.00	96.00	88.67	88.67		0.830	2901.64
9/16/2009	2987.39	2990.31	TOC	81.00	96.00	89.00				2901.31
12/20/2009	2987.39	2990.31	TOC	81.00	96.00	89.16	89.16		0.830	2901.15

MW-10

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.96	2990.84	TOC	81.00	96.00	88.50				2902.34
6/29/2009	2987.96	2990.84	TOC	81.00	96.00	88.67				2902.17
9/17/2009	2987.96	2990.84	TOC	81.00	96.00	88.98	88.98		0.830	2901.86
12/20/2009	2987.96	2990.84	TOC	81.00	96.00	89.17				2901.67

MW-11

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2989.37	2992.30	TOC	83.00	98.00	89.95				2902.35
6/29/2009	2989.37	2992.30	TOC	83.00	98.00	90.05				2902.25
9/17/2009	2989.37	2992.30	TOC	83.00	98.00	90.35				2901.95
12/20/2009	2989.37	2992.30	TOC	83.00	98.00	90.52				2901.78

Table 1
GROUNDWATER MEASUREMENTS TABLE
Jal Station Diesel Remediation

Jal, NM

MW-12

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.79	2990.99	TOC	81.00	96.00	89.57	89.45	0.12	0.830	2901.52
6/29/2009	2987.79	2990.99	TOC	81.00	96.00	89.70	89.55	0.15	0.830	2901.41
9/17/2009	2987.79	2990.99	TOC	81.00	96.00	90.05	89.86	0.19	0.830	2901.10
12/20/2009	2987.79	2990.99	TOC	81.00	96.00	90.30	89.97	0.33	0.830	2900.96

MW-13

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2989.79	2992.97	TOC	85.65	100.65	90.88				2902.09
6/29/2009	2989.79	2992.97	TOC	85.65	100.65	90.97				2902.00
9/17/2009	2989.79	2992.97	TOC	85.65	100.65	91.25				2901.72
12/20/2009	2989.79	2992.97	TOC	85.65	100.65	91.47				2901.50

MW-14

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2986.02	2989.12	TOC	86.20	101.20	88.15	87.84	0.31	0.830	2901.23
6/29/2009	2986.02	2989.12	TOC	86.20	101.20	88.10	87.87	0.23	0.830	2901.21
9/17/2009	2986.02	2989.12	TOC	86.20	101.20	88.92	88.15	0.77	0.830	2900.84
12/20/2009	2986.02	2989.12	TOC	86.20	101.20	88.95	88.58	0.37	0.830	2900.48

MW-15

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2986.45	2989.64	TOC	85.98	100.98	87.80				2901.84
6/29/2009	2986.45	2989.64	TOC	85.98	100.98	87.74				2901.90
9/17/2009	2986.45	2989.64	TOC	85.98	100.98	88.03				2901.61
12/20/2009	2986.45	2989.64	TOC	85.98	100.98	88.20				2901.44

MW-16

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2985.80	2988.71	TOC	78.50	98.50	88.40				2900.31
6/29/2009	2985.80	2988.71	TOC	78.50	98.50	88.38				2900.33
9/17/2009	2985.80	2988.71	TOC	78.50	98.50	88.65				2900.06
12/20/2009	2985.80	2988.71	TOC	78.50	98.50	88.72				2899.99

Table 1
GROUNDWATER MEASUREMENTS TABLE
Jal Station Diesel Remediation

Jal, NM

MW-17

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2985.09	2987.77	TOC	80.00	100.00	87.94				2899.83
6/29/2009	2985.09	2987.77	TOC	80.00	100.00	87.90				2899.87
9/17/2009	2985.09	2987.77	TOC	80.00	100.00	88.10				2899.67
12/20/2009	2985.09	2987.77	TOC	80.00	100.00	88.17				2899.60

MW-18

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.16	2989.68	TOC	75.00	95.00	87.61	87.55	0.06	0.830	2902.12
6/29/2009	2987.16	2989.68	TOC	75.00	95.00	87.77	87.71	0.06	0.830	2901.96
9/16/2009	2987.16	2989.68	TOC	75.00	95.00	88.15	88.06	0.09	0.830	2901.60
12/20/2009	2987.16	2989.68	TOC	75.00	95.00	88.28	88.20	0.08	0.830	2901.47

MW-19

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2988.86	2991.92	TOC	80.00	100.00	90.70	90.67	0.03	0.830	2901.24
6/29/2009	2988.86	2991.92	TOC	80.00	100.00	89.91	89.88	0.03	0.830	2902.03
9/16/2009	2988.86	2991.92	TOC	80.00	100.00	90.24	90.23	0.01	0.830	2901.69
12/20/2009	2988.86	2991.92	TOC	80.00	100.00	90.37	90.36	0.01	0.830	2901.56

MW-20

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2987.22	2989.64	TOC	75.00	95.00	88.05	88.05		0.830	2901.59
6/29/2009	2987.22	2989.64	TOC	75.00	95.00	88.20	88.20		0.830	2901.44
9/16/2009	2987.22	2989.64	TOC	75.00	95.00	88.56	88.52	0.04	0.830	2901.11
12/20/2009	2987.22	2989.64	TOC	75.00	95.00	88.67	88.65	0.02	0.830	2900.99

MW-21

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/12/2009	2986.63	2989.19	TOC	78.00	98.00	88.80				2900.39
6/29/2009	2986.63	2989.19	TOC	78.00	98.00	88.77				2900.42
9/17/2009	2986.63	2989.19	TOC	78.00	98.00	89.00				2900.19
12/20/2009	2986.63	2989.19	TOC	78.00	98.00	89.10				2900.09

Table 1
GROUNDWATER MEASUREMENTS TABLE
Jal Station Diesel Remediation

Jal, NM

MW-22

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2989.24	2991.56	TOC	80.00	100.00	89.18	89.18		0.830	2902.38
6/29/2009	2989.24	2991.56	TOC	80.00	100.00	89.39				2902.17
9/17/2009	2989.24	2991.56	TOC	80.00	100.00	89.71	89.71		0.830	2901.85
12/20/2009	2989.24	2991.56	TOC	80.00	100.00	89.92				2901.64

MW-23

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2986.90	2991.90	TOC	80.00	120.00	96.00				2895.90
6/29/2009	2986.90	2991.90	TOC	80.00	120.00	96.12				2895.78
9/17/2009	2986.90	2991.90	TOC	80.00	120.00	96.50				2895.40
12/20/2009	2986.90	2991.90	TOC	80.00	120.00	96.73				2895.17

MW-24

Sample Date	Grd. Surf. Elevation	TOC Elevation	Ref. Point	Depth of Screen		Depth to GW	Depth to LNAPL	LNAPL Thickness	LNAPL Spec.Grav.	Corrected GW Elev.
				Top	Bottom					
3/14/2009	2988.76	2993.76	TOC	77.00	117.00	96.38				2897.38
6/29/2009	2988.76	2993.76	TOC	77.00	117.00	96.55				2897.21
9/17/2009	2988.76	2993.76	TOC	77.00	117.00	95.85				2897.91
12/20/2009	2988.76	2993.76	TOC	77.00	117.00	97.05				2896.71

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-01

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/11/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/11/2009	0	9.0E-03			1.0E-01
Barium	6020	3/11/2009	0	1.8E-02			1.0E+00
Benzene	8260	3/11/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/11/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/11/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/11/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/11/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/11/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/11/2009	0			3.0E-03	
Ethylbenzene	8260	3/11/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/11/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Lead	6020	3/11/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/11/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/11/2009	0			2.5E-03	
Naphthalene	8270	3/11/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/11/2009	0			5.0E-04	
Phenanthrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/11/2009	0	1.0E-02			5.0E-02
Silver	6020	3/11/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/11/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/11/2009	0			5.0E-03	
Toluene	8260	3/11/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/11/2009	0	5.0E-04			2.0E-03

MW-04

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Arsenic	6020	9/17/2009	0	2.1E-02			1.0E-01
Arsenic	6020	9/17/2009	0	2.7E-02			1.0E-01

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-04

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Barium	6020	9/17/2009	0	4.9E-01			1.0E+00
Barium	6020	9/17/2009	0	5.4E-01			1.0E+00
Benzene	8260	9/17/2009	0			5.0E-04	1.0E-02
Cadmium	6020	9/17/2009	0			1.0E-03	1.0E-02
Cadmium	6020	9/17/2009	0			2.0E-04	1.0E-02
Chromium	6020	9/17/2009	0			5.0E-03	5.0E-02
Chromium	6020	9/17/2009	0			1.0E-03	5.0E-02
Ethylbenzene	8260	9/17/2009	0			5.0E-04	7.5E-01
Lead	6020	9/17/2009	0			5.0E-03	5.0E-02
Lead	6020	9/17/2009	0	3.0E-03			5.0E-02
m,p-Xylene	8260	9/17/2009	0			1.0E-03	
o-Xylene	8260	9/17/2009	0			5.0E-04	
Selenium	6020	9/17/2009	0			5.0E-03	5.0E-02
Selenium	6020	9/17/2009	0			1.0E-03	5.0E-02
Silver	6020	9/17/2009	0			5.0E-03	5.0E-02
Silver	6020	9/17/2009	0			1.0E-03	5.0E-02
Toluene	8260	9/17/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	9/17/2009	0			0.0E+00	2.0E-03
Total Xylenes	8260	9/17/2009	0			5.0E-04	6.2E-01

MW-05

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/11/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/11/2009	0	1.0E-02			1.0E-01
Barium	6020	3/11/2009	0	9.7E-02			1.0E+00
Benzene	8260	3/11/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/11/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/11/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/11/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/11/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/11/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/11/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/11/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/11/2009	0			3.0E-03	

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-05

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Ethylbenzene	8260	3/11/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/11/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/11/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Lead	6020	3/11/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/11/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/11/2009	0			2.5E-03	
Naphthalene	8270	3/11/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/11/2009	0			5.0E-04	
Phenanthrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/11/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/11/2009	0			1.0E-03	5.0E-02
Silver	6020	3/11/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/11/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/11/2009	0			5.0E-03	
Toluene	8260	3/11/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/11/2009	0	3.0E-04			2.0E-03

MW-08

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Arsenic	6020	9/17/2009	0	1.7E-02			1.0E-01
Barium	6020	9/17/2009	0	1.5E-01			1.0E+00
Benzene	8260	9/17/2009	0			5.0E-04	1.0E-02
Cadmium	6020	9/17/2009	0			2.0E-04	1.0E-02
Chromium	6020	9/17/2009	0			1.0E-03	5.0E-02
Ethylbenzene	8260	9/17/2009	0			5.0E-04	7.5E-01
Lead	6020	9/17/2009	0	4.0E-03			5.0E-02
m,p-Xylene	8260	9/17/2009	0			1.0E-03	
o-Xylene	8260	9/17/2009	0	2.6E-03			
Selenium	6020	9/17/2009	0	7.0E-03			5.0E-02
Silver	6020	9/17/2009	0			1.0E-03	5.0E-02
Toluene	8260	9/17/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	9/17/2009	0			0.0E+00	2.0E-03
Total Xylenes	8260	9/17/2009	0	2.6E-03			6.2E-01

MW-09

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Arsenic	6020	9/16/2009	0	1.5E-02			1.0E-01

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-09

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Barium	6020	9/16/2009	0	1.7E-01			1.0E+00
Benzene	8260	9/16/2009	0			5.0E-04	1.0E-02
Cadmium	6020	9/16/2009	0			2.0E-04	1.0E-02
Chromium	6020	9/16/2009	0			1.0E-03	5.0E-02
Ethylbenzene	8260	9/16/2009	0	1.7E-02			7.5E-01
Lead	6020	9/16/2009	0	2.0E-03			5.0E-02
m,p-Xylene	8260	9/16/2009	0			1.0E-03	
o-Xylene	8260	9/16/2009	0	1.1E-03			
Selenium	6020	9/16/2009	0	5.0E-03			5.0E-02
Silver	6020	9/16/2009	0			1.0E-03	5.0E-02
Toluene	8260	9/16/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	9/16/2009	0			0.0E+00	2.0E-03
Total Xylenes	8260	9/16/2009	0	1.1E-03			6.2E-01

MW-10

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/14/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/14/2009	0	1.2E-02			1.0E-01
Barium	6020	3/14/2009	0	3.0E-01			1.0E+00
Benzene	8260	3/14/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/14/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/14/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/14/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/14/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/14/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/14/2009	0			3.0E-03	
Ethylbenzene	8260	3/14/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/14/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Lead	6020	3/14/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/14/2009	0			1.0E-03	

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-10

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Methyl tert butyl Ether	8260	3/14/2009	0			2.5E-03	
Naphthalene	8270	3/14/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/14/2009	0			5.0E-04	
Phenanthrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/14/2009	0			1.0E-03	5.0E-02
Silver	6020	3/14/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/14/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/14/2009	0			5.0E-03	
Toluene	8260	3/14/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/14/2009	0	1.0E-04			2.0E-03

MW-11

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	1.1E-02			1.0E-01
Barium	6020	3/12/2009	0	2.3E-02			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-11

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0	4.0E-03			5.0E-02
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/12/2009	0	3.0E-04			2.0E-03

MW-13

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	1.3E-02			1.0E-01
Barium	6020	3/12/2009	0	1.5E-01			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-13

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0			1.0E-03	5.0E-02
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/12/2009	0	3.0E-04			2.0E-03

MW-15

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	1.4E-02			1.0E-01
Barium	6020	3/12/2009	0	2.5E-02			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0	1.5E-02			5.0E-02

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-15

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/12/2009	0	1.0E-04			2.0E-03

MW-16

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	1.5E-02			1.0E-01
Barium	6020	3/12/2009	0	3.7E-02			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0	4.0E-02			5.0E-02
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-16

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/12/2009	0	4.0E-04			2.0E-03

MW-17

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	7.0E-03			1.0E-01
Barium	6020	3/12/2009	0	4.0E-02			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0	5.0E-03			5.0E-02
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-17

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Total Mercury	7470	3/12/2009	0	2.0E-04			2.0E-03

MW-21

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/12/2009	0	1.0E-02			1.0E-01
Barium	6020	3/12/2009	0	4.2E-02			1.0E+00
Benzene	8260	3/12/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/12/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/12/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/12/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/12/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/12/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/12/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/12/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/12/2009	0			3.0E-03	
Ethylbenzene	8260	3/12/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/12/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/12/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Lead	6020	3/12/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/12/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/12/2009	0			2.5E-03	
Naphthalene	8270	3/12/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/12/2009	0			5.0E-04	
Phenanthrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/12/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/12/2009	0	6.0E-03			5.0E-02
Silver	6020	3/12/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/12/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/12/2009	0			5.0E-03	
Toluene	8260	3/12/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/12/2009	0	2.0E-04			2.0E-03

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-23

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/14/2009	0			1.0E-03	3.0E-02
Anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/14/2009	0	1.3E-02			1.0E-01
Barium	6020	3/14/2009	0	5.6E-02			1.0E+00
Benzene	8260	3/14/2009	0			5.0E-04	1.0E-02
Benzo(a)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/14/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/14/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/14/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/14/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/14/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/14/2009	0			3.0E-03	
Ethylbenzene	8260	3/14/2009	0			5.0E-04	7.5E-01
Fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/14/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Lead	6020	3/14/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/14/2009	0			1.0E-03	
Methyl tert butyl Ether	8260	3/14/2009	0			2.5E-03	
Naphthalene	8270	3/14/2009	0			1.0E-03	3.0E-02
o-Xylene	8260	3/14/2009	0			5.0E-04	
Phenanthrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/14/2009	0	8.0E-03			5.0E-02
Silver	6020	3/14/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/14/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/14/2009	0			5.0E-03	
Toluene	8260	3/14/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/14/2009	0			0.0E+00	2.0E-03

MW-24

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Acenaphthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Acenaphthylene	8270	3/14/2009	0			1.0E-03	3.0E-02

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

MW-24

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Arsenic	6020	3/14/2009	0	1.1E-02			1.0E-01
Barium	6020	3/14/2009	0	6.0E-02			1.0E+00
Benzene	8260	3/14/2009	0	3.6E-02			1.0E-02
Benzo(a)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(a)pyrene	8270	3/14/2009	0			1.0E-03	7.0E-04
Benzo(b)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(g,h,i)perylene	8270	3/14/2009	0			1.0E-03	3.0E-02
Benzo(k)fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Cadmium	6020	3/14/2009	0			1.0E-03	1.0E-02
Chromium	6020	3/14/2009	0			1.0E-03	5.0E-02
Chrysene	8270	3/14/2009	0			1.0E-03	3.0E-02
Di Isopropyl Ether	8260	3/14/2009	0			3.0E-03	
Dibenzo(a,h)anthracene	8270	3/14/2009	0			1.0E-03	3.0E-02
Ethyl tert butyl Ether	8260	3/14/2009	0			3.0E-03	
Ethylbenzene	8260	3/14/2009	0	3.8E-02			7.5E-01
Fluoranthene	8270	3/14/2009	0			1.0E-03	3.0E-02
Fluorene	8270	3/14/2009	0			1.0E-03	3.0E-02
Indeno(1,2,3-cd)pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Lead	6020	3/14/2009	0			1.0E-03	5.0E-02
m,p-Xylene	8260	3/14/2009	0	2.5E-03			
Methyl tert butyl Ether	8260	3/14/2009	0			2.5E-03	
Naphthalene	8270	3/14/2009	0	6.0E-03			3.0E-02
o-Xylene	8260	3/14/2009	0	7.1E-03			
Phenanthrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Pyrene	8270	3/14/2009	0			1.0E-03	3.0E-02
Selenium	6020	3/14/2009	0			1.0E-03	5.0E-02
Silver	6020	3/14/2009	0			1.0E-03	5.0E-02
tert-Amyl methyl Ether	8260	3/14/2009	0			3.0E-03	
tert-butyl alcohol	8260	3/14/2009	0	7.4E-02			
Toluene	8260	3/14/2009	0			5.0E-04	7.5E-01
Total Mercury	7470	3/14/2009	0	2.0E-04			2.0E-03

Trip Blank

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Benzene	8260	3/10/2009	0			5.0E-04	1.0E-02
Benzene	8260	3/14/2009	0			5.0E-04	1.0E-02
Benzene	8260	9/15/2009	0			5.0E-04	1.0E-02
Ethylbenzene	8260	3/10/2009	0			5.0E-04	7.5E-01

Table 2
SUMMARY OF CURRENT, ON-SITE LABORATORY ANALYTICAL RESULTS
FOR GROUNDWATER

Jal Station Diesel Remediation

Jal, NM

Trip Blank

Analyte	Analytical Method	Sample Date	Sample Depth (ft)	Detected Conc.	Flag	Non-detect SQLs	New Mexico Standard
Ethylbenzene	8260	3/14/2009	0			5.0E-04	7.5E-01
Ethylbenzene	8260	9/15/2009	0			5.0E-04	7.5E-01
m,p-Xylene	8260	3/10/2009	0			1.0E-03	
m,p-Xylene	8260	3/14/2009	0			1.0E-03	
m,p-Xylene	8260	9/15/2009	0			1.0E-03	
o-Xylene	8260	3/10/2009	0			5.0E-04	
o-Xylene	8260	3/14/2009	0			5.0E-04	
o-Xylene	8260	9/15/2009	0			5.0E-04	
Toluene	8260	3/10/2009	0			5.0E-04	7.5E-01
Toluene	8260	3/14/2009	0			5.0E-04	7.5E-01
Toluene	8260	9/15/2009	0			5.0E-04	7.5E-01
Total Xylenes	8260	3/10/2009	0			5.0E-04	6.2E-01
Total Xylenes	8260	3/14/2009	0			5.0E-04	6.2E-01
Total Xylenes	8260	9/15/2009	0			5.0E-04	6.2E-01

APPENDIX A

Groundwater Sampling Laboratory Analytical Results with Chain-of-Custody Documentation



H₂A
ENVIRONMENTAL, LTD.

Analytical Report 327399

for

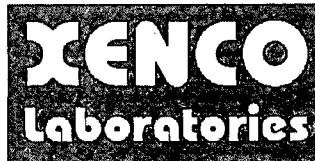
URS Corporation

Project Manager: Iain Olness

EQPL Basin Jal Pump Station

49194426

27-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



27-MAR-09

Project Manager: **Iain Olness**

URS Corporation

7720 N. 16th St. Suite100

Phoenix, AZ 85020

Reference: XENCO Report No: **327399**

EQPL Basin Jal Pump Station

Project Address:

Iain Olness:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327399. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327399 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 327399



URS Corporation, Phoenix, AZ

EQPL Basin Jal Pump Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-01	W	Mar-11-09 13:42		327399-001
MW-05	W	Mar-11-09 14:45		327399-002
MW-11	W	Mar-12-09 09:12		327399-003
MW-15	W	Mar-12-09 10:34		327399-004
MW-13	W	Mar-12-09 11:43		327399-005
MW-21	W	Mar-12-09 13:44		327399-006
MW-17	W	Mar-12-09 14:49		327399-007
MW-16	W	Mar-12-09 15:55		327399-008
Trip Blank	W	Mar-10-09 00:00		327399-009



Certificate of Analysis Summary 327399

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-13-09 10:39 am

Contact: Iain Olness

Report Date: 27-MAR-09

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	327399-001	327399-002	327399-003	327399-004
	Field Id:	MW-01	MW-05	MW-11	MW-15
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Mar-11-09 13:42	Mar-11-09 14:45	Mar-12-09 09:12	Mar-12-09 10:34
BTEX and Oxygenates by SW 8260B	Extracted:	Mar-21-09 11:16	Mar-21-09 11:18	Mar-21-09 11:20	Mar-21-09 11:22
	Analyzed:	Mar-21-09 17:34	Mar-21-09 17:58	Mar-21-09 18:21	Mar-21-09 18:45
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Methyl tert butyl Ether		BRL 0.0050	BRL 0.0050	BRL 0.0050	BRL 0.0050
Benzene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
Toluene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
Ethylbenzene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
m,p-Xylene		BRL 0.0020	BRL 0.0020	BRL 0.0020	BRL 0.0020
o-Xylene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
tert-Amyl methyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
tert-butyl alcohol		BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010
Ethyl tert butyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Di Isopropyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Dissolved Mercury by EPA 7470A	Extracted:	Mar-19-09 07:15	Mar-19-09 07:15	Mar-19-09 07:15	Mar-19-09 07:15
	Analyzed:	Mar-19-09 10:29	Mar-19-09 10:30	Mar-19-09 10:47	Mar-19-09 10:48
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Mercury		0.0005 0.0001	0.0003 0.0001	0.0003 0.0001	0.0001 0.0001
Dissolved Metals by EPA 6020	Extracted:	Mar-17-09 12:00	Mar-17-09 12:00	Mar-17-09 12:00	Mar-17-09 12:00
	Analyzed:	Mar-20-09 22:30	Mar-20-09 22:35	Mar-20-09 22:40	Mar-20-09 22:45
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Arsenic		0.009 0.002	0.010 0.002	0.011 0.002	0.014 0.002
Barium		0.018 0.005	0.097 0.005	0.023 0.005	0.025 0.005
Cadmium		BRL 0.001	BRL 0.001	BRL 0.001	BRL 0.001
Chromium		BRL 0.003	BRL 0.003	BRL 0.003	BRL 0.003
Lead		BRL 0.002	BRL 0.002	BRL 0.002	BRL 0.002
Selenium		0.010 0.003	BRL 0.003	0.004 0.003	0.015 0.003
Silver		BRL 0.002	BRL 0.002	BRL 0.002	BRL 0.002

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 327399

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-13-09 10:39 am

Contact: Iain Olness

Report Date: 27-MAR-09

Project Location:

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	327399-001	327399-002	327399-003	327399-004
	<i>Field Id:</i>	MW-01	MW-05	MW-11	MW-15
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Mar-11-09 13:42	Mar-11-09 14:45	Mar-12-09 09:12	Mar-12-09 10:34
SVOA PAHs List by EPA 8270C	<i>Extracted:</i>	Mar-17-09 09:39	Mar-17-09 09:42	Mar-17-09 09:45	Mar-17-09 09:48
	<i>Analyzed:</i>	Mar-18-09 15:42	Mar-18-09 16:25	Mar-18-09 17:08	Mar-18-09 17:51
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Acenaphthylene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(a)anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(a)pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(b)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(g,h,i)perylene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(k)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Chrysene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Dibenz(a,h)Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Fluorene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Indeno(1,2,3-c,d)Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Naphthalene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Phenanthrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005

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Brent Barron

Odessa Laboratory Director

Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-13-09 10:39 am

Contact: Iain Olness

Report Date: 27-MAR-09

Project Location:

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	327399-005	327399-006	327399-007	327399-008
	<i>Field Id:</i>	MW-13	MW-21	MW-17	MW-16
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Mar-12-09 11:43	Mar-12-09 13:44	Mar-12-09 14:49	Mar-12-09 15:55
BTEX and Oxygenates by SW 8260B	<i>Extracted:</i>	Mar-21-09 11:24	Mar-21-09 11:26	Mar-21-09 11:28	Mar-21-09 11:30
	<i>Analyzed:</i>	Mar-21-09 19:09	Mar-21-09 19:33	Mar-21-09 19:56	Mar-21-09 20:20
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Methyl tert butyl Ether		BRL 0.0050	BRL 0.0050	BRL 0.0050	BRL 0.0050
Benzene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
Toluene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
Ethylbenzene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
m,p-Xylene		BRL 0.0020	BRL 0.0020	BRL 0.0020	BRL 0.0020
o-Xylene		BRL 0.0010	BRL 0.0010	BRL 0.0010	BRL 0.0010
tert-Amyl methyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
tert-butyl alcohol		BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010
Ethyl tert butyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Di Isopropyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Dissolved Mercury by EPA 7470A	<i>Extracted:</i>	Mar-19-09 07:15	Mar-19-09 07:15	Mar-19-09 07:15	Mar-19-09 07:15
	<i>Analyzed:</i>	Mar-19-09 10:50	Mar-19-09 10:52	Mar-19-09 10:54	Mar-19-09 10:55
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Mercury		0.0003 0.0001	0.0002 0.0001	0.0002 0.0001	0.0004 0.0001
Dissolved Metals by EPA 6020	<i>Extracted:</i>	Mar-17-09 12:00	Mar-17-09 12:00	Mar-17-09 12:00	Mar-17-09 12:00
	<i>Analyzed:</i>	Mar-20-09 22:50	Mar-20-09 23:09	Mar-20-09 23:14	Mar-20-09 23:19
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Arsenic		0.013 0.002	0.010 0.002	0.007 0.002	0.015 0.002
Barium		0.153 0.005	0.042 0.005	0.040 0.005	0.037 0.005
Cadmium		BRL 0.001	BRL 0.001	BRL 0.001	BRL 0.001
Chromium		BRL 0.003	BRL 0.003	BRL 0.003	BRL 0.003
Lead		BRL 0.002	BRL 0.002	BRL 0.002	BRL 0.002
Selenium		BRL 0.003	0.006 0.003	0.005 0.003	0.040 0.003
Silver		BRL 0.002	BRL 0.002	BRL 0.002	BRL 0.002

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 327399

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-13-09 10:39 am

Contact: Iain Olness

Report Date: 27-MAR-09

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	327399-005	327399-006	327399-007	327399-008
	Field Id:	MW-13	MW-21	MW-17	MW-16
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Mar-12-09 11:43	Mar-12-09 13:44	Mar-12-09 14:49	Mar-12-09 15:55
SVOA PAHs List by EPA 8270C	Extracted:	Mar-17-09 09:51	Mar-17-09 09:54	Mar-17-09 09:57	Mar-17-09 10:00
	Analyzed:	Mar-18-09 18:34	Mar-18-09 19:17	Mar-18-09 20:00	Mar-18-09 20:43
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Acenaphthylene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(a)anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(a)pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(b)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(g,h,i)perylene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Benzo(k)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Chrysene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Dibenz(a,h)Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Fluorene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Indeno(1,2,3-c,d)Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Naphthalene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Phenanthrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 327399

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-13-09 10:39 am

Contact: Iain Olness

Report Date: 27-MAR-09

Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	327399-009			
	Field Id:	Trip Blank			
	Depth:				
	Matrix:	WATER			
	Sampled:	Mar-10-09 00:00			
BTEX by SW 8260B	Extracted:	Mar-21-09 11:04			
	Analyzed:	Mar-21-09 15:11			
	Units/RL:	mg/L RL			
Benzene		BRL 0.0010			
Toluene		BRL 0.0010			
Ethylbenzene		BRL 0.0010			
m,p-Xylene		BRL 0.0020			
o-Xylene		BRL 0.0010			
Total Xylenes		BRL 0.0010			
Total BTEX		BRL 0.0010			

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Brent Barron
Odessa Laboratory Director

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753410

Sample: 526877-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 11:24

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0429	0.0500	86	70-130	
Dibromofluoromethane	0.0453	0.0500	91	70-130	
1,2-Dichloroethane-D4	0.0443	0.0500	89	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 753410

Sample: 526877-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 12:18

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0445	0.0500	89	70-130	
Dibromofluoromethane	0.0439	0.0500	88	70-130	
1,2-Dichloroethane-D4	0.0431	0.0500	86	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 753410

Sample: 327183-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 13:14

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0463	0.0500	93	70-130	
Dibromofluoromethane	0.0464	0.0500	93	70-130	
1,2-Dichloroethane-D4	0.0450	0.0500	90	70-130	
Toluene-D8	0.0466	0.0500	93	70-130	

Lab Batch #: 753410

Sample: 327183-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 13:37

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0450	0.0500	90	70-130	
Dibromofluoromethane	0.0461	0.0500	92	70-130	
1,2-Dichloroethane-D4	0.0435	0.0500	87	70-130	
Toluene-D8	0.0468	0.0500	94	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753410

Sample: 327399-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 17:34

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0431	0.0500	86	70-130	
Dibromofluoromethane		0.0460	0.0500	92	70-130	
1,2-Dichloroethane-D4		0.0454	0.0500	91	70-130	
Toluene-D8		0.0480	0.0500	96	70-130	

Lab Batch #: 753410

Sample: 327399-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 17:58

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0463	0.0500	93	70-130	
Dibromofluoromethane		0.0468	0.0500	94	70-130	
1,2-Dichloroethane-D4		0.0438	0.0500	88	70-130	
Toluene-D8		0.0462	0.0500	92	70-130	

Lab Batch #: 753410

Sample: 327399-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 18:21

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0430	0.0500	86	70-130	
Dibromofluoromethane		0.0463	0.0500	93	70-130	
1,2-Dichloroethane-D4		0.0460	0.0500	92	70-130	
Toluene-D8		0.0472	0.0500	94	70-130	

Lab Batch #: 753410

Sample: 327399-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 18:45

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0453	0.0500	91	70-130	
Dibromofluoromethane		0.0476	0.0500	95	70-130	
1,2-Dichloroethane-D4		0.0454	0.0500	91	70-130	
Toluene-D8		0.0479	0.0500	96	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753410

Sample: 327399-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 19:09

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0429	0.0500	86	70-130	
Dibromofluoromethane	0.0468	0.0500	94	70-130	
1,2-Dichloroethane-D4	0.0465	0.0500	93	70-130	
Toluene-D8	0.0482	0.0500	96	70-130	

Lab Batch #: 753410

Sample: 327399-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 19:33

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0447	0.0500	89	70-130	
Dibromofluoromethane	0.0474	0.0500	95	70-130	
1,2-Dichloroethane-D4	0.0472	0.0500	94	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 753410

Sample: 327399-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 19:56

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0437	0.0500	87	70-130	
Dibromofluoromethane	0.0462	0.0500	92	70-130	
1,2-Dichloroethane-D4	0.0444	0.0500	89	70-130	
Toluene-D8	0.0473	0.0500	95	70-130	

Lab Batch #: 753410

Sample: 327399-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 20:20

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0433	0.0500	87	70-130	
Dibromofluoromethane	0.0473	0.0500	95	70-130	
1,2-Dichloroethane-D4	0.0454	0.0500	91	70-130	
Toluene-D8	0.0491	0.0500	98	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753410

Sample: 327399-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/21/09 15:11

SURROGATE RECOVERY STUDY

BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0444	0.0500	89	70-130	
Dibromofluoromethane		0.0455	0.0500	91	70-130	
1,2-Dichloroethane-D4		0.0439	0.0500	88	70-130	
Toluene-D8		0.0487	0.0500	97	70-130	

Lab Batch #: 753368

Sample: 526845-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 18:37

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.041	0.050	82	43-116	
2-Fluorophenol		0.036	0.050	72	21-100	
Nitrobenzene-d5		0.046	0.050	92	35-114	
Phenol-d6		0.028	0.050	56	10-94	
Terphenyl-D14		0.045	0.050	90	33-141	
2,4,6-Tribromophenol		0.033	0.050	66	10-123	

Lab Batch #: 753368

Sample: 526845-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 19:20

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.043	0.050	86	43-116	
2-Fluorophenol		0.039	0.050	78	21-100	
Nitrobenzene-d5		0.049	0.050	98	35-114	
Phenol-d6		0.033	0.050	66	10-94	
Terphenyl-D14		0.048	0.050	96	33-141	
2,4,6-Tribromophenol		0.043	0.050	86	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753368

Sample: 526845-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 20:03

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.050	90	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.049	0.050	98	35-114	
Phenol-d6	0.032	0.050	64	10-94	
Terphenyl-D14	0.047	0.050	94	33-141	
2,4,6-Tribromophenol	0.044	0.050	88	10-123	

Lab Batch #: 753368

Sample: 327399-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 15:42

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.052	71	43-116	
2-Fluorophenol	0.022	0.052	42	21-100	
Nitrobenzene-d5	0.038	0.052	73	35-114	
Phenol-d6	0.011	0.052	21	10-94	
Terphenyl-D14	0.040	0.052	77	33-141	
2,4,6-Tribromophenol	0.042	0.052	81	10-123	

Lab Batch #: 753368

Sample: 327399-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 16:25

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.055	69	43-116	
2-Fluorophenol	0.027	0.055	49	21-100	
Nitrobenzene-d5	0.042	0.055	76	35-114	
Phenol-d6	0.016	0.055	29	10-94	
Terphenyl-D14	0.046	0.055	84	33-141	
2,4,6-Tribromophenol	0.049	0.055	89	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753368

Sample: 327399-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 17:08

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.037	0.051	73	43-116	
2-Fluorophenol	0.022	0.051	43	21-100	
Nitrobenzene-d5	0.040	0.051	78	35-114	
Phenol-d6	0.013	0.051	25	10-94	
Terphenyl-D14	0.042	0.051	82	33-141	
2,4,6-Tribromophenol	0.042	0.051	82	10-123	

Lab Batch #: 753368

Sample: 327399-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 17:51

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.032	0.052	62	43-116	
2-Fluorophenol	0.012	0.052	23	21-100	
Nitrobenzene-d5	0.031	0.052	60	35-114	
Phenol-d6	0.007	0.052	13	10-94	
Terphenyl-D14	0.039	0.052	75	33-141	
2,4,6-Tribromophenol	0.034	0.052	65	10-123	

Lab Batch #: 753368

Sample: 327399-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 18:34

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.041	0.052	79	43-116	
2-Fluorophenol	0.026	0.052	50	21-100	
Nitrobenzene-d5	0.042	0.052	81	35-114	
Phenol-d6	0.013	0.052	25	10-94	
Terphenyl-D14	0.044	0.052	85	33-141	
2,4,6-Tribromophenol	0.044	0.052	85	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327399,

Project ID: 49194426

Lab Batch #: 753368

Sample: 327399-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 19:17

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.051	73	43-116	
2-Fluorophenol	0.023	0.051	45	21-100	
Nitrobenzene-d5	0.040	0.051	78	35-114	
Phenol-d6	0.014	0.051	27	10-94	
Terphenyl-D14	0.042	0.051	82	33-141	
2,4,6-Tribromophenol	0.042	0.051	82	10-123	

Lab Batch #: 753368

Sample: 327399-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 20:00

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.052	81	43-116	
2-Fluorophenol	0.025	0.052	48	21-100	
Nitrobenzene-d5	0.045	0.052	87	35-114	
Phenol-d6	0.013	0.052	25	10-94	
Terphenyl-D14	0.045	0.052	87	33-141	
2,4,6-Tribromophenol	0.046	0.052	88	10-123	

Lab Batch #: 753368

Sample: 327399-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 20:43

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.040	0.052	77	43-116	
2-Fluorophenol	0.027	0.052	52	21-100	
Nitrobenzene-d5	0.042	0.052	81	35-114	
Phenol-d6	0.018	0.052	35	10-94	
Terphenyl-D14	0.043	0.052	83	33-141	
2,4,6-Tribromophenol	0.039	0.052	75	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: EQPL Basin Jal Pump Station

Work Order #: 327399

Project ID:

49194426

Lab Batch #: 753410

Sample: 526877-1-BKS

Matrix: Water

Date Analyzed: 03/21/2009

Date Prepared: 03/21/2009

Analyst: PAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by SW 8260B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Methyl tert butyl Ether	<0.0050	0.5000	0.5203	104	65-135	
Benzene	<0.0010	0.1000	0.0990	99	66-142	
Toluene	<0.0010	0.1000	0.0928	93	59-139	
Ethylbenzene	<0.0010	0.1000	0.0941	94	75-125	
m,p-Xylene	<0.0020	0.2000	0.1985	99	75-125	
o-Xylene	<0.0010	0.1000	0.1026	103	75-125	
tert-Amyl methyl Ether	<0.005	0.500	0.566	113	65-135	
tert-butyl alcohol	<0.010	1.00	1.20	120	65-135	
Ethyl tert butyl Ether	<0.005	0.500	0.489	98	65-135	
Di Isopropyl Ether	<0.005	0.500	0.455	91	65-135	

Lab Batch #: 753335

Sample: 526657-1-BKS

Matrix: Water

Date Analyzed: 03/21/2009

Date Prepared: 03/17/2009

Analyst: TOH

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals by EPA 6020	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Arsenic	<0.002	0.050	0.050	100	75-125	
Barium	<0.005	0.050	0.062	124	75-125	
Cadmium	<0.001	0.020	0.021	105	75-125	
Chromium	<0.003	0.050	0.042	84	75-125	
Lead	<0.002	0.050	0.051	102	75-125	
Selenium	<0.003	0.050	0.047	94	75-125	
Silver	<0.002	0.020	0.020	100	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327399

Project ID:

49194426

Lab Batch #: 753773

Sample: 526657-1-BKS

Matrix: Water

Date Analyzed: 03/20/2009

Date Prepared: 03/17/2009

Analyst: MCH

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals by EPA 6020 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Arsenic	<0.002	0.050	0.052	104	75-125	
Barium	<0.005	0.050	0.051	102	75-125	
Cadmium	<0.001	0.020	0.021	105	75-125	
Chromium	<0.003	0.050	0.048	96	75-125	
Lead	<0.002	0.050	0.042	84	75-125	
Selenium	<0.003	0.050	0.054	108	75-125	
Silver	<0.002	0.020	0.021	105	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327399

Analyst: DAT

Lab Batch ID: 753006

Sample: 52644-1-BKS

Date Prepared: 03/19/2009

Batch #: 1

Project ID: 49194426
Date Analyzed: 03/19/2009

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/L											
Dissolved Mercury by EPA 7470A											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0001	0.0050	0.0053	106	0.005	0.0052	104	2	75-125	20	

Relative Percent Difference RPD = 200*((C-F)/(C+F))
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327399

Analyst: CLR

Lab Batch ID: 753368

Units: mg/L

Date Prepared: 03/17/2009

Sample: 526845-1-BKS

Batch #: 1

Project ID: 49194426

Date Analyzed: 03/17/2009

Matrix: Water

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spike Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthylene	<0.005	0.050	0.049	98	0.05	0.051	102	4	54-114	25	
Acenaphthylene	<0.005	0.050	0.049	98	0.05	0.048	96	2	53-113	25	
Anthracene	<0.005	0.050	0.048	96	0.05	0.048	96	0	56-116	25	
Benzo(a)anthracene	<0.005	0.050	0.051	102	0.05	0.050	100	2	59-116	25	
Benzo(a)pyrene	<0.005	0.050	0.049	98	0.05	0.049	98	0	58-118	25	
Benzo(b)fluoranthene	<0.005	0.050	0.048	96	0.05	0.053	106	10	54-123	25	
Benzo(g,h,i)perylene	<0.005	0.050	0.033	66	0.05	0.035	70	6	47-129	25	
Benzo(k)fluoranthene	<0.005	0.050	0.050	100	0.05	0.054	108	8	52-122	25	
Chrysene	<0.005	0.050	0.050	100	0.05	0.049	98	2	58-116	25	
Dibenz(a,h)Anthracene	<0.005	0.050	0.033	66	0.05	0.036	72	9	46-131	25	
Fluoranthene	<0.005	0.050	0.048	96	0.05	0.048	96	0	55-120	25	
Fluorene	<0.005	0.050	0.048	96	0.05	0.049	98	2	56-114	25	
Indeno(1,2,3-c,d)Pyrene	<0.005	0.050	0.040	80	0.05	0.042	84	5	44-132	25	
Naphthalene	<0.005	0.050	0.047	94	0.05	0.048	96	2	53-110	25	
Phenanthrene	<0.005	0.050	0.048	96	0.05	0.049	98	2	56-116	25	
Pyrene	<0.005	0.050	0.049	98	0.05	0.051	102	4	57-119	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: EQPL Basin Jal Pump Station



Work Order #: 327399

Project ID: 49194426

Lab Batch ID: 753410

QC-Sample ID: 327183-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/21/2009

Date Prepared: 03/21/2009

Analyst: PAB

Reporting Units: mg/L

BTEx by SW 8260B		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup- %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	[A]	[B]	[C]	[D]	[E]	[F]	[G]				
Methyl tert butyl Ether	<0.0050	0.5000	0.5387	108	0.5000	0.4810	96	11	65-135	20	
Benzene	0.0123	0.1000	0.1208	109	0.1000	0.1045	92	14	66-142	20	
Toluene	<0.0010	0.1000	0.1079	108	0.1000	0.0898	90	18	59-139	20	
Ethylbenzene	0.0358	0.1000	0.1520	116	0.1000	0.1298	94	16	75-125	20	
m,p-Xylene	0.0139	0.2000	0.2416	114	0.2000	0.2032	95	17	75-125	20	
o-Xylene	0.0030	0.1000	0.1217	119	0.1000	0.1019	99	18	75-125	20	
tert-Amyl methyl Ether	<0.005	0.500	0.579	116	0.500	0.507	101	13	65-135	20	
tert-butyl alcohol	<0.010	1.00	1.03	103	1.00	0.921	92	11	65-135	20	
Ethyl tert butyl Ether	<0.005	0.500	0.528	106	0.500	0.467	93	12	65-135	20	
Di Isopropyl Ether	<0.005	0.500	0.494	99	0.500	0.437	87	12	65-135	20	

Lab Batch ID: 753006

QC-Sample ID: 327258-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/19/2009

Date Prepared: 03/19/2009

Analyst: DAT

Reporting Units: mg/L

Dissolved Mercury by EPA 7470A		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup- %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	[A]	[B]	[C]	[D]	[E]	[F]	[G]				
Mercury	<0.0001	0.0050	0.0053	106	0.0050	0.0055	110	4	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQPL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: EQPL Basin Jal Pump Station



Work Order #: 327399

Project ID: 49194426

Lab Batch ID: 753773

QC-Sample ID: 327335-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/20/2009

Date Prepared: 03/17/2009

Analyst: MCH

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by EPA 6020		Parent Sample Result [A]	Spike Added [B]	Spike Sample Result [C]	Spike Sample %R [D]	Spike Added [E]	Duplicate Spike Sample Result [F]	Spike Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Arsenic		0.013	0.250	0.234	88	0.250	0.237	90	1	75-125	25	
Barium		0.025	0.250	0.269	98	0.250	0.280	102	4	75-125	25	
Cadmium		<0.005	0.100	0.085	85	0.100	0.088	88	3	75-125	25	
Chromium		<0.015	0.250	0.246	98	0.250	0.241	96	2	75-125	25	
Lead		<0.010	0.250	0.215	86	0.250	0.216	86	0	75-125	25	
Selenium		<0.015	0.250	0.184	74	0.250	0.186	74	1	75-125	25	X
Silver		<0.010	0.100	0.085	85	0.100	0.088	88	3	75-125	25	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference RPD = $200 \times [(C-F)/(C+F)]$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327399

Lab Batch #: 753773

Project ID: 49194426

Date Analyzed: 03/20/2009

Date Prepared: 03/17/2009

Analyst: MCH

QC- Sample ID: 327335-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by EPA 6020 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	0.013	0.012	8	25	
Barium	0.025	0.027	8	25	
Cadmium	<0.005	<0.005	NC	25	
Chromium	<0.015	<0.015	NC	25	
Lead	<0.010	<0.010	NC	25	
Selenium	<0.015	<0.015	NC	25	
Silver	<0.010	<0.010	NC	25	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- ☒ XENCO ()
- ☐ CALSCE ()
- ☐ TEST AMERICA ()
- ☐ SPL ()
- ☐ OTHER ()

Please Check Appropriate Box:

- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ MOTIVA SO&CM
- ☒ SHELL PIPELINE
- ☐ SHELL RETAIL
- ☐ CONSULTANT
- ☐ OTHER
- ☐ LUBES

CONSULTANT COMPANY

URS Corporation
 7720 N. 16th Street, Suite 100
 Phoenix, AZ 85020
 TEL: (602) 848-2402 FAX: (602) 371-1615 EMAIL: jain.oiness@urscorp.com

TURNAROUND TIME (CALENDAR DAYS):
☒ STANDARD (14 DAY) ☐ 3 DAYS ☐ 5 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1: -1.0 Cooler #2: Cooler #3: _____

SPECIAL INSTRUCTIONS OR NOTES:

- ☒ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ PROVIDE LEDO DISK

Send eed to j.savole@h2aid.com

Metals samples were field filtered. will labels be sent

LAB USE ONLY	Field Sample Identification		SAMPLING		PRESERVATIVE				NO. OF CONT.
	DATE	TIME	MATRIX		HCL	HNO3	H2SO4	OTHER	
01	3/11/09	1342	WATER	X	X				5
02	3/11/09	1445	WATER	X	X				5
03	3/12/09	912	WATER	X	X				5
04	3/12/09	1034	WATER	X	X				5
05	3/12/09	1143	WATER	X	X				5
06	3/12/09	1344	WATER	X	X				5
07	3/12/09	1449	WATER	X	X				5
08	3/12/09	1555	WATER	X	X				5
09			WATER	X					3
10			WATER	X					

Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature)
 Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Arshia Sam

10:12

05/2008 Revision

Print Bill To Contact Name:

Kenneth Springer

PO #

SAP #

SITE ADDRESS (Street, City and State):

EOPL Basin Jal Pump Station

CONSULTANT PROJECT CONTACT (Report to):

John Oiness

SAMPLER NAME(S) (Print):

John Savole

LAB USE ONLY

327399

INCIDENT # (ENV SERVICES):

3 0 0 1 4 3

DATE: 3/13/09

PAGE: 1 of 1

CONSULTANT PROJECT NO:

49194426

REQUESTED ANALYSIS

Container PID Readings or Laboratory Notes

Oxygenates (S) 8260

Disolved Metals (a)

PAH

BTEX 8260B

Time

3-13-09

Time

10:12

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: URS
 Date/ Time: 3-13-09 10:12
 Lab ID #: 327399
 Initials: al

Sample Receipt Checklist

			not frozen	Client Initials
#1 Temperature of container/ cooler?	<u>Yes</u>	No	-1.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 327587

for

URS Corporation

Project Manager: Iain Olness

EQPL Basin Jal Pump Station

49194426

31-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



31-MAR-09

Project Manager: **Iain Olness**

URS Corporation

7720 N. 16th St. Suite100

Phoenix, AZ 85020

Reference: XENCO Report No: **327587**

EQPL Basin Jal Pump Station

Project Address:

Iain Olness:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327587. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327587 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 327587



URS Corporation, Phoenix, AZ

EQPL Basin Jal Pump Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-23	W	Mar-14-09 09:18		327587-001
MW-24	W	Mar-14-09 10:48		327587-002
MW-10	W	Mar-14-09 12:04		327587-003
Trip Blank	W	Mar-14-09 00:00		327587-004



Certificate of Analysis Summary 327587

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-16-09 10:15 am

Contact: Iain Olness

Report Date: 31-MAR-09

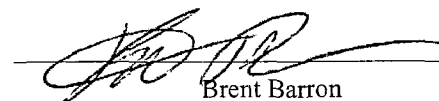
Project Location:

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	327587-001	327587-002	327587-003	327587-004
	Field Id:	MW-23	MW-24	MW-10	Trip Blank
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Mar-14-09 09:18	Mar-14-09 10:48	Mar-14-09 12:04	Mar-14-09 00:00
BTEX and Oxygenates by SW 8260B	Extracted:	Mar-28-09 08:36	Mar-28-09 08:38	Mar-28-09 08:40	
	Analyzed:	Mar-28-09 12:37	Mar-28-09 12:59	Mar-28-09 13:21	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Methyl tert butyl Ether		BRL 0.0050	BRL 0.0050	BRL 0.0050	
Benzene		BRL 0.0010	0.0355 0.0010	BRL 0.0010	
Toluene		BRL 0.0010	BRL 0.0010	BRL 0.0010	
Ethylbenzene		BRL 0.0010	0.0377 0.0010	BRL 0.0010	
m,p-Xylene		BRL 0.0020	0.0025 0.0020	BRL 0.0020	
o-Xylene		BRL 0.0010	0.0071 0.0010	BRL 0.0010	
tert-Amyl methyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	
tert-butyl alcohol		BRL 0.010	0.074 0.010	BRL 0.010	
Ethyl tert butyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	
Di Isopropyl Ether		BRL 0.005	BRL 0.005	BRL 0.005	
BTEX by SW 8260B	Extracted:				Mar-27-09 16:18
	Analyzed:				Mar-27-09 20:14
	Units/RL:				mg/L RL
Benzene					BRL 0.0010
Toluene					BRL 0.0010
Ethylbenzene					BRL 0.0010
m,p-Xylene					BRL 0.0020
o-Xylene					BRL 0.0010
Total Xylenes					BRL 0.0010
Total BTEX					BRL 0.0010
Dissolved Mercury by EPA 7470A	Extracted:	Mar-20-09 07:00	Mar-20-09 07:00	Mar-20-09 07:00	
	Analyzed:	Mar-20-09 13:23	Mar-20-09 13:28	Mar-20-09 13:29	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Mercury		BRL 0.0001	0.0002 0.0001	0.0001 0.0001	
Dissolved Metals by EPA 6020	Extracted:	Mar-17-09 12:00	Mar-17-09 12:00	Mar-17-09 12:00	
	Analyzed:	Mar-27-09 17:32	Mar-27-09 17:36	Mar-27-09 17:41	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Arsenic		0.013 0.002	0.011 0.002	0.012 0.002	
Barium		0.056 0.005	0.060 0.005	0.299 0.005	
Cadmium		BRL 0.001	BRL 0.001	BRL 0.001	
Chromium		BRL 0.003	BRL 0.003	BRL 0.003	
Lead		BRL 0.002	BRL 0.002	BRL 0.002	
Selenium		0.008 0.003	BRL 0.003	BRL 0.003	
Silver		BRL 0.002	BRL 0.002	BRL 0.002	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 327587

URS Corporation, Phoenix, AZ



Project Name: EQPL Basin Jal Pump Station

Project Id: 49194426

Date Received in Lab: Mar-16-09 10:15 am

Contact: Iain Olness

Report Date: 31-MAR-09

Project Location:

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	327587-001	327587-002	327587-003	327587-004
	<i>Field Id:</i>	MW-23	MW-24	MW-10	Trip Blank
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER	WATER	WATER
	<i>Sampled:</i>	Mar-14-09 09:18	Mar-14-09 10:48	Mar-14-09 12:04	Mar-14-09 00:00
SVOA PAHs List by EPA 8270C	<i>Extracted:</i>	Mar-17-09 10:03	Mar-17-09 10:06	Mar-17-09 10:09	
	<i>Analyzed:</i>	Mar-18-09 21:26	Mar-18-09 22:09	Mar-18-09 22:52	
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	
Acenaphthene		BRL 0.005	BRL 0.005	BRL 0.005	
Acenaphthylene		BRL 0.005	BRL 0.005	BRL 0.005	
Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	
Benzo(a)anthracene		BRL 0.005	BRL 0.005	BRL 0.005	
Benzo(a)pyrene		BRL 0.005	BRL 0.005	BRL 0.005	
Benzo(b)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	
Benzo(g,h,i)perylene		BRL 0.005	BRL 0.005	BRL 0.005	
Benzo(k)fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	
Chrysene		BRL 0.005	BRL 0.005	BRL 0.005	
Dibenz(a,h)Anthracene		BRL 0.005	BRL 0.005	BRL 0.005	
Fluoranthene		BRL 0.005	BRL 0.005	BRL 0.005	
Fluorene		BRL 0.005	BRL 0.005	BRL 0.005	
Indeno(1,2,3-c,d)Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	
Naphthalene		BRL 0.005	0.006 0.005	BRL 0.005	
Phenanthrene		BRL 0.005	BRL 0.005	BRL 0.005	
Pyrene		BRL 0.005	BRL 0.005	BRL 0.005	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
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Brent Barron
Odessa Laboratory Director



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 754359

Sample: 527437-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 09:07

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0458	0.0500	92	70-130	
Dibromofluoromethane	0.0465	0.0500	93	70-130	
1,2-Dichloroethane-D4	0.0467	0.0500	93	70-130	
Toluene-D8	0.0510	0.0500	102	70-130	

Lab Batch #: 754359

Sample: 527437-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 09:59

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0510	0.0500	102	70-130	
Dibromofluoromethane	0.0502	0.0500	100	70-130	
1,2-Dichloroethane-D4	0.0524	0.0500	105	70-130	
Toluene-D8	0.0490	0.0500	98	70-130	

Lab Batch #: 754359

Sample: 327587-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 12:37

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0513	0.0500	103	70-130	
Dibromofluoromethane	0.0539	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0534	0.0500	107	70-130	
Toluene-D8	0.0511	0.0500	102	70-130	

Lab Batch #: 754359

Sample: 327587-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 12:59

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0457	0.0500	91	70-130	
Dibromofluoromethane	0.0569	0.0500	114	70-130	
1,2-Dichloroethane-D4	0.0534	0.0500	107	70-130	
Toluene-D8	0.0466	0.0500	93	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 754359

Sample: 327587-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 13:21

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0493	0.0500	99	70-130	
Dibromofluoromethane	0.0536	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0530	0.0500	106	70-130	
Toluene-D8	0.0496	0.0500	99	70-130	

Lab Batch #: 754359

Sample: 327847-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 15:32

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0500	0.0500	100	70-130	
Dibromofluoromethane	0.0552	0.0500	110	70-130	
1,2-Dichloroethane-D4	0.0540	0.0500	108	70-130	
Toluene-D8	0.0529	0.0500	106	70-130	

Lab Batch #: 754359

Sample: 327847-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/28/09 15:54

SURROGATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	70-130	
Dibromofluoromethane	0.0511	0.0500	102	70-130	
1,2-Dichloroethane-D4	0.0518	0.0500	104	70-130	
Toluene-D8	0.0527	0.0500	105	70-130	

Lab Batch #: 754167

Sample: 527332-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/09 16:04

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0488	0.0500	98	70-130	
Dibromofluoromethane	0.0471	0.0500	94	70-130	
1,2-Dichloroethane-D4	0.0487	0.0500	97	70-130	
Toluene-D8	0.0502	0.0500	100	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 754167

Sample: 527332-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/09 16:56

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0519	0.0500	104	70-130	
Dibromofluoromethane	0.0526	0.0500	105	70-130	
1,2-Dichloroethane-D4	0.0523	0.0500	105	70-130	
Toluene-D8	0.0501	0.0500	100	70-130	

Lab Batch #: 754167

Sample: 327662-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/09 17:40

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0493	0.0500	99	70-130	
Dibromofluoromethane	0.0507	0.0500	101	70-130	
1,2-Dichloroethane-D4	0.0501	0.0500	100	70-130	
Toluene-D8	0.0526	0.0500	105	70-130	

Lab Batch #: 754167

Sample: 327662-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/09 18:01

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0473	0.0500	95	70-130	
Dibromofluoromethane	0.0493	0.0500	99	70-130	
1,2-Dichloroethane-D4	0.0494	0.0500	99	70-130	
Toluene-D8	0.0501	0.0500	100	70-130	

Lab Batch #: 754167

Sample: 327587-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/09 20:14

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0527	0.0500	105	70-130	
Dibromofluoromethane	0.0577	0.0500	115	70-130	
1,2-Dichloroethane-D4	0.0560	0.0500	112	70-130	
Toluene-D8	0.0516	0.0500	103	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 750046

Sample: ICB-BLK / ICB

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 01/23/09 11:03

SURROGATE RECOVERY STUDY

BTEX-MTBE by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	70-130	
Dibromofluoromethane	0.0502	0.0500	100	70-130	
1,2-Dichloroethane-D4	0.0502	0.0500	100	70-130	
Toluene-D8	0.0506	0.0500	101	70-130	

Lab Batch #: 753368

Sample: 526845-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 18:37

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.041	0.050	82	43-116	
2-Fluorophenol	0.036	0.050	72	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.028	0.050	56	10-94	
Terphenyl-D14	0.045	0.050	90	33-141	
2,4,6-Tribromophenol	0.033	0.050	66	10-123	

Lab Batch #: 753368

Sample: 526845-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 19:20

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.050	86	43-116	
2-Fluorophenol	0.039	0.050	78	21-100	
Nitrobenzene-d5	0.049	0.050	98	35-114	
Phenol-d6	0.033	0.050	66	10-94	
Terphenyl-D14	0.048	0.050	96	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 753368

Sample: 526845-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/17/09 20:03

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.045	0.050	90	43-116	
2-Fluorophenol		0.035	0.050	70	21-100	
Nitrobenzene-d5		0.049	0.050	98	35-114	
Phenol-d6		0.032	0.050	64	10-94	
Terphenyl-D14		0.047	0.050	94	33-141	
2,4,6-Tribromophenol		0.044	0.050	88	10-123	

Lab Batch #: 753368

Sample: 327587-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 21:26

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.044	0.051	86	43-116	
2-Fluorophenol		0.026	0.051	51	21-100	
Nitrobenzene-d5		0.048	0.051	94	35-114	
Phenol-d6		0.017	0.051	33	10-94	
Terphenyl-D14		0.046	0.051	90	33-141	
2,4,6-Tribromophenol		0.049	0.051	96	10-123	

Lab Batch #: 753368

Sample: 327587-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 22:09

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.033	0.050	66	43-116	
2-Fluorophenol		0.025	0.050	50	21-100	
Nitrobenzene-d5		0.044	0.050	88	35-114	
Phenol-d6		0.014	0.050	28	10-94	
Terphenyl-D14		0.042	0.050	84	33-141	
2,4,6-Tribromophenol		0.053	0.050	106	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin Jal Pump Station

Work Orders : 327587,

Project ID: 49194426

Lab Batch #: 753368

Sample: 327587-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/18/09 22:52

SURROGATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.053	79	43-116	
2-Fluorophenol	0.025	0.053	47	21-100	
Nitrobenzene-d5	0.045	0.053	85	35-114	
Phenol-d6	0.016	0.053	30	10-94	
Terphenyl-D14	0.046	0.053	87	33-141	
2,4,6-Tribromophenol	0.053	0.053	100	10-123	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: EQPL Basin Jal Pump Station

Work Order #: 327587

Project ID:

49194426

Lab Batch #: 754359

Sample: 527437-1-BKS

Matrix: Water

Date Analyzed: 03/28/2009

Date Prepared: 03/28/2009

Analyst: PAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Methyl tert butyl Ether	<0.0050	0.5000	0.4827	97	65-135	
Benzene	<0.0010	0.1000	0.0917	92	66-142	
Toluene	<0.0010	0.1000	0.0979	98	59-139	
Ethylbenzene	<0.0010	0.1000	0.0985	99	75-125	
m,p-Xylene	<0.0020	0.2000	0.1978	99	75-125	
o-Xylene	<0.0010	0.1000	0.1033	103	75-125	
tert-Amyl methyl Ether	<0.005	0.500	0.493	99	65-135	
tert-butyl alcohol	<0.010	1.00	0.985	99	65-135	
Ethyl tert butyl Ether	<0.005	0.500	0.480	96	65-135	
Di Isopropyl Ether	<0.005	0.500	0.476	95	65-135	

Lab Batch #: 754167

Sample: 527332-1-BKS

Matrix: Water

Date Analyzed: 03/27/2009

Date Prepared: 03/27/2009

Analyst: PAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by SW 8260B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Benzene	<0.0010	0.1000	0.0839	84	66-142	
Toluene	<0.0010	0.1000	0.0911	91	59-139	
Ethylbenzene	<0.0010	0.1000	0.0940	94	75-125	
m,p-Xylene	<0.0020	0.2000	0.1862	93	75-125	
o-Xylene	<0.0010	0.1000	0.0940	94	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327587

Project ID:

49194426

Lab Batch #: 754218

Sample: 527364-1-BKS

Matrix: Water

Date Analyzed: 03/27/2009

Date Prepared: 03/17/2009

Analyst: HAT

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals by EPA 6020 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Arsenic	<0.002	0.050	0.051	102	75-125	
Barium	<0.005	0.050	0.052	104	75-125	
Cadmium	<0.001	0.020	0.021	105	75-125	
Chromium	<0.003	0.050	0.045	90	75-125	
Lead	<0.002	0.050	0.050	100	75-125	
Selenium	<0.003	0.050	0.051	102	75-125	
Silver	<0.002	0.020	0.021	105	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327587

Analyst: DAT

Lab Batch ID: 753158

Sample: 526737-1-BKS

Date Prepared: 03/20/2009

Batch #: 1

Project ID: 49194426
Date Analyzed: 03/20/2009

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Mercury by EPA 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Mercury	<0.0001	0.0050	0.0051	102	0.005	0.0049	98	4	75-125	20

Relative Percent Difference RPD = 200*(C-F)/(C+F)
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327587

Analyst: CLR

Lab Batch ID: 753368

Units: mg/L

Date Prepared: 03/17/2009

Sample: 526845-1-BKS

Batch #: 1

Project ID: 49194426

Date Analyzed: 03/17/2009

Matrix: Water

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOA PAHs List by EPA 8270C											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.005	0.050	0.049	98	0.05	0.051	102	4	54-114	25	
Acenaphthylene	<0.005	0.050	0.049	98	0.05	0.048	96	2	53-113	25	
Anthracene	<0.005	0.050	0.048	96	0.05	0.048	96	0	56-116	25	
Benzo(a)anthracene	<0.005	0.050	0.051	102	0.05	0.050	100	2	59-116	25	
Benzo(a)pyrene	<0.005	0.050	0.049	98	0.05	0.049	98	0	58-118	25	
Benzo(b)fluoranthene	<0.005	0.050	0.048	96	0.05	0.053	106	10	54-123	25	
Benzo(g,h,i)perylene	<0.005	0.050	0.033	66	0.05	0.035	70	6	47-129	25	
Benzo(k)fluoranthene	<0.005	0.050	0.050	100	0.05	0.054	108	8	52-122	25	
Chrysene	<0.005	0.050	0.050	100	0.05	0.049	98	2	58-116	25	
Dibenz(a,h)Anthracene	<0.005	0.050	0.033	66	0.05	0.036	72	9	46-131	25	
Fluoranthene	<0.005	0.050	0.048	96	0.05	0.048	96	0	55-120	25	
Fluorene	<0.005	0.050	0.048	96	0.05	0.049	98	2	56-114	25	
Indeno(1,2,3-c,d)Pyrene	<0.005	0.050	0.040	80	0.05	0.042	84	5	44-132	25	
Naphthalene	<0.005	0.050	0.047	94	0.05	0.048	96	2	53-110	25	
Phenanthrene	<0.005	0.050	0.048	96	0.05	0.049	98	2	56-116	25	
Pyrene	<0.005	0.050	0.049	98	0.05	0.051	102	4	57-119	25	

Relative Percent Difference RPD = $200 * (C-F) / (C+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: EQPL Basin Jal Pump Station



Work Order #: 327587

Project ID: 49194426

Lab Batch ID: 754359

QC- Sample ID: 327847-003 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/28/2009

Date Prepared: 03/28/2009

Analyst: PAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX and Oxygenates by SW 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup- %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	[A]	[B]	[C]	[D]	[E]	[F]	[G]				
Methyl tert butyl Ether	0.0139	0.5000	0.6307	123	0.5000	0.5241	102	18	65-135	20	
Benzene	<0.0010	0.1000	0.1021	102	0.1000	0.0987	99	3	66-142	20	
Toluene	<0.0010	0.1000	0.1077	108	0.1000	0.1049	105	3	59-139	20	
Ethylbenzene	<0.0010	0.1000	0.1079	108	0.1000	0.1068	107	1	75-125	20	
m,p-Xylene	<0.0020	0.2000	0.2246	112	0.2000	0.2167	108	4	75-125	20	
o-Xylene	<0.0010	0.1000	0.1167	117	0.1000	0.1090	109	7	75-125	20	
tert-Amyl methyl Ether	<0.005	0.500	0.575	115	0.500	0.495	99	15	65-135	20	
tert-butyl alcohol	17.8	1.00	21.9	410	1.00	18.6	80	16	65-135	20	X
Ethyl tert butyl Ether	<0.005	0.500	0.615	123	0.500	0.515	103	18	65-135	20	
Di Isopropyl Ether	0.065	0.500	0.674	122	0.500	0.581	103	15	65-135	20	

Lab Batch ID: 754167

QC- Sample ID: 327662-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/27/2009

Date Prepared: 03/27/2009

Analyst: PAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup- %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	[A]	[B]	[C]	[D]	[E]	[F]	[G]				
Benzene	<0.0010	0.1000	0.0888	89	0.1000	0.0910	91	2	66-142	20	
Toluene	<0.0010	0.1000	0.0999	100	0.1000	0.0935	94	7	59-139	20	
Ethylbenzene	<0.0010	0.1000	0.0965	97	0.1000	0.0974	97	1	75-125	20	
m,p-Xylene	<0.0020	0.2000	0.2029	101	0.2000	0.2060	103	2	75-125	20	
o-Xylene	<0.0010	0.1000	0.1025	103	0.1000	0.1039	104	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, See Narrative, EQPL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: EQPL Basin Jal Pump Station



Work Order # : 327587

Project ID: 49194426

Lab Batch ID: 753158

QC- Sample ID: 327587-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009

Analyst: DAT

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Mercury by EPA 7470A											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0001	0.0050	0.0049	98	0.0050	0.0048	96	2	75-125	20	

Lab Batch ID: 754218

QC- Sample ID: 327431-004 S

Batch #: 1 Matrix: Water

Date Analyzed: 03/27/2009

Date Prepared: 03/17/2009

Analyst: HAT

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by EPA 6020											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.002	0.050	0.047	90	0.050	0.046	88	2	75-125	25	
Barium	0.145	0.050	0.221	152	0.050	0.221	152	0	75-125	25	X
Cadmium	<0.001	0.020	0.021	105	0.020	0.020	100	5	75-125	25	
Chromium	0.014	0.050	0.074	120	0.050	0.057	86	26	75-125	25	F
Lead	0.028	0.050	0.082	108	0.050	0.083	110	1	75-125	25	
Selenium	<0.003	0.050	0.039	78	0.050	0.037	74	5	75-125	25	X
Silver	<0.002	0.020	0.021	105	0.020	0.021	105	0	75-125	25	

Matrix Spike Percent Recovery $[D] = 100 * (C-A) / B$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F-A) / E$

Relative Percent Difference $RPD = 200 * |(C-F) / (C+F)|$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQPL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: EQPL Basin Jal Pump Station

Work Order #: 327587

Lab Batch #: 754218

Project ID: 49194426

Date Analyzed: 03/27/2009

Date Prepared: 03/17/2009

Analyst: HAT

QC- Sample ID: 327431-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by EPA 6020		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte						
Arsenic		0.002	0.003	40	20	F
Barium		0.145	0.175	19	20	
Cadmium		<0.001	<0.001	NC	20	
Chromium		0.014	0.015	7	20	
Lead		0.028	0.035	22	20	F
Selenium		<0.003	<0.003	NC	20	
Silver		<0.002	<0.002	NC	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)

- ☒ XERO ()
☐ CALSCIENCE ()
☐ TEST AMERICA ()
☐ SPL ()
☐ OTHER ()

Please Check Appropriate Box:

☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SDACH ☐ CONSULTANT ☐ LUBES
☒ SHELL PIPELINE ☐ OTHER

Print/Bill To Contact Name:

Kenneth Springer

PO #

SAP #

DATE: 3/16/09

PAGE: 1 of 1

CONSULTANT COMPANY:

URS Corporation

7720 N. 16th Street, Suite 100

Phoenix, AZ 85020

TELEPHONE: (602) 648-2402 FAX: (602) 371-1815 E-MAIL: iain_oliness@urscorp.com

TURNAROUND TIME (CALENDAR DAYS):

☒ STANDARD (14 DAY) ☐ 3 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C° Cooler #1 72 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

☒ SHELL CONTRACT RATE APPLIES

☐ STATE REIMBURSEMENT RATE APPLIES

☐ PROVIDE LEDD DISK

Send add to jsavole@h2allid.com

Metals samples were field filtered. w/ 100% no seals

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.
			DATE	TIME		HCL	HNO3	H2SO4	OTHER	

MW-23			3/14/09	918	WATER	X	X			5
MW-24			3/14/09	1048	WATER	X	X			5
MW-10			3/14/09	1204	WATER	X	X			5
TRIP BLANK					WATER	X				3

Oxygenates (S) 8260

BTEX 8260B

Disolved Metals (S)

PAH

Container PID Readings or Laboratory Notes

REQUESTED ANALYSIS

LAB USE ONLY

327587

SAMPLER NAME(S) (P/N)

John Savole

EQPL Basin Jal Pump Station

Iain Oliness

CONSULTANT PROJECT NO.

49194426

SITE ADDRESS (Street City and State):

Relinquished by: (Signature)

10:15

3-16-09

Date

Relinquished by: (Signature)

Received by: (Signature)

Date

Relinquished by: (Signature)

Received by: (Signature)

Date

Anthea Lam

3-16-09

10:15

05/09 Revision

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: URS
 Date/ Time: 3.16.09 10:15
 Lab ID #: 327587
 Initials: AL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	(Yes)	No	0.0 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 345209

for

URS Corporation

Project Manager: Iain Olness

EQPL Basin

49194426

29-SEP-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida (E86240),

South Carolina (96031001), Louisiana (04154), Georgia (917)



29-SEP-09

Project Manager: **Iain Olness**

URS Corporation

7720 N. 16th St. Suite100

Phoenix, AZ 85020

Reference: XENCO Report No: **345209**

EQPL Basin

Project Address: Jal Pump Station

Iain Olness:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 345209. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 345209 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 345209



URS Corporation, Phoenix, AZ

EQPL Basin

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-04	W	Sep-17-09 09:41		345209-001
MW-08	W	Sep-17-09 08:22		345209-002
MW-09	W	Sep-16-09 13:55		345209-003
Trip Blank	W	Sep-15-09 00:00		345209-004



CASE NARRATIVE

Client Name: URS Corporation

Project Name: EQPL Basin

Project ID: 49194426

Work Order Number: 345209

Report Date: 29-SEP-09

Date Received: 09/18/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-774057 Mercury by SW-846 7470

None

Batch: LBA-774237 BTEX by SW 8260B

None

Batch: LBA-774401 Metals per ICP-MS by SW 6020A

Batch 774401, Barium recovered above QC limits in the Matrix Spike. Samples affected are: 345209-001 S

Barium recovered within QC limits in the Laboratory Control Sample.

Batch: LBA-774457 BTEX by SW 8260B

SW8260BTX

Batch 774457, Ethylbenzene recovered below QC limits in the Matrix Spike. m,p-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 345209-004.

The Laboratory Control Sample for m,p-Xylene, Ethylbenzene is within laboratory Control Limits

Batch: LBA-774719 Metals per ICP-MS by SW 6020A

Batch 774719, Chromium %RPD recovered outside QC limits. Chromium%RPD passing in Laboratory Control Sample. Samples affected are: 345209-001 D.



Certificate of Analysis Summary 345209

URS Corporation, Phoenix, AZ

Project Name: EQPL Basin

Project Id: 49194426

Contact: Iain Olness

Project Location: Jal Pump Station

Date Received in Lab: Fri Sep-18-09 12:52 pm

Report Date: 29-SEP-09

Project Manager: Brent Barron, II



Analysis Requested		Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	345209-001	345209-002	345209-003	345209-004		
BTEx by SW 8260B												
SUB: E871002 Xenco Houston		Extracted:	Sep-24-09 12:06					Sep-24-09 12:08	Sep-24-09 13:00	Sep-23-09 17:04		
		Analyzed:	Sep-24-09 13:53					Sep-24-09 14:15	Sep-24-09 15:46	Sep-23-09 18:21		
		Units/RL:	mg/L	RL				mg/L	RL	mg/L	RL	
Benzene			ND 0.0010				ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010		
Toluene			ND 0.0010				ND 0.0010	ND 0.0010	0.0171 0.0010	ND 0.0010		
Ethylbenzene			ND 0.0010				ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020		
m,p-Xylene			ND 0.0020				ND 0.0020	0.0026 0.0010	0.0011 0.0010	ND 0.0010		
o-Xylene			ND 0.0010				ND 0.0010	0.0026 0.0010	0.0011 0.0010	ND 0.0010		
Total Xylenes			ND 0.0010				0.0026 0.001	0.0026 0.001	0.0182 0.001	ND 0.001		
Total BTEx			ND 0.001									
Dissolved Mercury by SW-846 7470A		Extracted:	Sep-24-09 09:00				Sep-24-09 09:00	Sep-24-09 09:00	Sep-24-09 09:00			
		Analyzed:	Sep-25-09 08:39				Sep-25-09 08:39	Sep-25-09 08:39	Sep-25-09 08:39			
		Units/RL:	mg/L	RL			mg/L	RL	mg/L	RL		
Dissolved Mercury			ND 0.0001				ND 0.0001	ND 0.0001	ND 0.0001			
Dissolved Metals by SW6020A		Extracted:	Sep-23-09 14:00				Sep-23-09 14:00	Sep-23-09 14:00	Sep-23-09 14:00			
SUB: E871002 Xenco Houston		Analyzed:	Sep-29-09 00:34				Sep-29-09 00:34	Sep-29-09 00:54	Sep-29-09 00:59			
		Units/RL:	mg/L	RL			mg/L	RL	mg/L	RL		
Arsenic			0.027 0.002				0.017 0.002	0.015 0.002				
Barium			0.539 0.005				0.147 0.005	0.166 0.005				
Cadmium			ND 0.001				ND 0.001	ND 0.001				
Chromium			ND 0.003				ND 0.003	ND 0.003				
Lead			0.003 0.002				0.004 0.002	0.002 0.002				
Selenium			ND 0.003				0.007 0.003	0.005 0.003				
Silver			ND 0.002				ND 0.002	ND 0.002				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

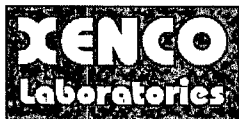
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	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin

Work Orders : 345209,

Project ID: 49194426

Lab Batch #: 774237

Sample: 538848-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/24/09 12:44		SURROGATE RECOVERY STUDY				
BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0489	0.0500	98	74-124	
Dibromofluoromethane		0.0475	0.0500	95	75-131	
1,2-Dichloroethane-D4		0.0439	0.0500	88	63-144	
Toluene-D8		0.0491	0.0500	98	80-117	

Lab Batch #: 774237

Sample: 538848-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/24/09 13:30		SURROGATE RECOVERY STUDY				
BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0506	0.0500	101	74-124	
Dibromofluoromethane		0.0492	0.0500	98	75-131	
1,2-Dichloroethane-D4		0.0440	0.0500	88	63-144	
Toluene-D8		0.0486	0.0500	97	80-117	

Lab Batch #: 774237

Sample: 345209-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/24/09 13:53		SURROGATE RECOVERY STUDY				
BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0478	0.0500	96	74-124	
Dibromofluoromethane		0.0543	0.0500	109	75-131	
1,2-Dichloroethane-D4		0.0475	0.0500	95	63-144	
Toluene-D8		0.0441	0.0500	88	80-117	

Lab Batch #: 774237

Sample: 345209-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 09/24/09 14:15		SURROGATE RECOVERY STUDY				
BTEX by SW 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0488	0.0500	98	74-124	
Dibromofluoromethane		0.0535	0.0500	107	75-131	
1,2-Dichloroethane-D4		0.0459	0.0500	92	63-144	
Toluene-D8		0.0481	0.0500	96	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin

Work Orders : 345209,

Project ID: 49194426

Lab Batch #: 774237

Sample: 345209-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/24/09 14:38

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0497	0.0500	99	74-124	
Dibromofluoromethane	0.0519	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0518	0.0500	104	63-144	
Toluene-D8	0.0486	0.0500	97	80-117	

Lab Batch #: 774237

Sample: 345209-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/24/09 15:01

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0471	0.0500	94	74-124	
Dibromofluoromethane	0.0530	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0517	0.0500	103	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 774237

Sample: 345209-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/24/09 15:46

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0545	0.0500	109	75-131	
1,2-Dichloroethane-D4	0.0462	0.0500	92	63-144	
Toluene-D8	0.0483	0.0500	97	80-117	

Lab Batch #: 774439

Sample: ICB-BLK / ICB

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 17:58

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500		74-124	
Dibromofluoromethane	0.0458	0.0500		75-131	
1,2-Dichloroethane-D4	0.0442	0.0500		63-144	
Toluene-D8	0.0483	0.0500		80-117	

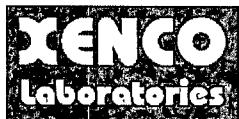
* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin

Work Orders : 345209,

Project ID: 49194426

Lab Batch #: 774457

Sample: 538955-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 17:05

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0501	0.0500	100	74-124	
Dibromofluoromethane	0.0469	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0460	0.0500	92	63-144	
Toluene-D8	0.0508	0.0500	102	80-117	

Lab Batch #: 774457

Sample: 538955-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 17:58

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	
Dibromofluoromethane	0.0458	0.0500	92	75-131	
1,2-Dichloroethane-D4	0.0442	0.0500	88	63-144	
Toluene-D8	0.0483	0.0500	97	80-117	

Lab Batch #: 774457

Sample: 345209-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 18:21

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0514	0.0500	103	74-124	
Dibromofluoromethane	0.0491	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0465	0.0500	93	63-144	
Toluene-D8	0.0480	0.0500	96	80-117	

Lab Batch #: 774457

Sample: 344703-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 19:52

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0509	0.0500	102	74-124	
Dibromofluoromethane	0.0496	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0488	0.0500	98	63-144	
Toluene-D8	0.0498	0.0500	100	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EQPL Basin

Work Orders : 345209,

Project ID: 49194426

Lab Batch #: 774457

Sample: 344703-004 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/23/09 20:15

SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	
Dibromofluoromethane	0.0512	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0466	0.0500	93	63-144	
Toluene-D8	0.0488	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: EQPL Basin

Work Order #: 345209

Project ID:

49194426

Lab Batch #: 774237

Sample: 538848-1-BKS

Matrix: Water

Date Analyzed: 09/24/2009

Date Prepared: 09/24/2009

Analyst: HDO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by SW 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.1000	0.0891	89	66-142	
Toluene	ND	0.1000	0.1020	102	59-139	
Ethylbenzene	ND	0.1000	0.0977	98	75-125	
m,p-Xylene	ND	0.2000	0.1931	97	75-125	
o-Xylene	ND	0.1000	0.1000	100	75-125	

Lab Batch #: 774457

Sample: 538955-1-BKS

Matrix: Water

Date Analyzed: 09/23/2009

Date Prepared: 09/23/2009

Analyst: HDO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by SW 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.1000	0.0902	90	66-142	
Toluene	ND	0.1000	0.1024	102	59-139	
Ethylbenzene	ND	0.1000	0.0966	97	75-125	
m,p-Xylene	ND	0.2000	0.1976	99	75-125	
o-Xylene	ND	0.1000	0.0993	99	75-125	

Lab Batch #: 774719

Sample: 538921-1-BKS

Matrix: Water

Date Analyzed: 09/29/2009

Date Prepared: 09/23/2009

Analyst: HAT

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals by SW6020A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Arsenic	ND	0.050	0.047	94	75-125	
Barium	ND	0.050	0.051	102	75-125	
Cadmium	ND	0.020	0.019	95	75-125	
Chromium	ND	0.050	0.046	92	75-125	
Lead	ND	0.050	0.047	94	75-125	
Selenium	ND	0.050	0.049	98	75-125	
Silver	ND	0.020	0.021	105	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: EQPL Basin

Work Order #: 345209

Analyst: LATCOR

Lab Batch ID: 774057

Sample: 538752-1-BKS

Date Prepared: 09/24/2009

Batch #: 1

Project ID: 49194426

Date Analyzed: 09/25/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dissolved Mercury by SW-846 7470A												
Analytes												
Dissolved Mercury		NID	0.0010	0.0010	100	0.001	0.0010	100	0	75-125	20	

Relative Percent Difference $RPD = 200 * [(C-F)/(C+F)]$
Blank Spike Recovery $[D] = 100 * (C)/[B]$
Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: EQPL Basin



Work Order #: 345209

Project ID: 49194426

Lab Batch ID: 774237

QC-Sample ID: 345209-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 09/24/2009

Date Prepared: 09/24/2009

Analyst: HDO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
BTEx by SW 8260B												
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Benzene	ND	0.1000	0.0911	91	0.1000	0.0976	98	7	66-142	20		
Toluene	ND	0.1000	0.0957	96	0.1000	0.1043	104	9	59-139	20		
Ethylbenzene	ND	0.1000	0.0947	95	0.1000	0.1016	102	7	75-125	20		
m,p-Xylene	ND	0.2000	0.1873	94	0.2000	0.2071	104	10	75-125	20		
o-Xylene	0.0026	0.1000	0.1019	99	0.1000	0.1091	107	7	75-125	20		

Lab Batch ID: 774457

QC-Sample ID: 344703-004 S

Batch #: 1 Matrix: Water

Date Analyzed: 09/23/2009

Date Prepared: 09/23/2009

Analyst: HDO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
BTEx by SW 8260B												
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Benzene	ND	0.1000	0.0659	66	0.1000	0.0696	70	5	66-142	20		
Toluene	ND	0.1000	0.0731	73	0.1000	0.0767	77	5	59-139	20		
Ethylbenzene	ND	0.1000	0.0737	74	0.1000	0.0759	76	3	75-125	20	X	
m,p-Xylene	ND	0.2000	0.1437	72	0.2000	0.1486	74	3	75-125	20	X	
o-Xylene	ND	0.1000	0.0772	77	0.1000	0.0797	80	3	75-125	20		

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
EQPL = See Narrative, EQPL = Estimated Quantitation Limit

Project Name: EQPL Basin

Work Order #: 345209

Project ID: 49194426

Lab Batch ID: 774057

QC-Sample ID: 345209-001 S

Batch #: 1 Matrix: Solid

Date Analyzed: 09/25/2009

Date Prepared: 09/24/2009

Analyst: LATCOR

Reporting Units: mg/L

Dissolved Mercury by SW-846 7470A											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dissolved Mercury	ND	0.0010	0.0009	90	0.0010	0.0009	90	0	75-125	20	

Lab Batch ID: 774719

QC-Sample ID: 345209-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 09/29/2009

Date Prepared: 09/23/2009

Analyst: HAT

Reporting Units: mg/L

Reporting Units: mg/L													
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Dissolved Metals by SW6020A			Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes													
Arsenic			0.027	0.050	0.087	120	0.050	0.083	112	5	75-125	25	
Barium			0.539	0.050	0.608	138	0.050	0.591	104	3	75-125	25	X
Cadmium			ND	0.020	0.021	105	0.020	0.020	100	5	75-125	25	
Chromium			ND	0.050	0.054	108	0.050	0.049	98	10	75-125	25	
Lead			0.003	0.050	0.049	92	0.050	0.048	90	2	75-125	25	
Selenium			ND	0.050	0.052	104	0.050	0.045	90	14	75-125	25	
Silver			ND	0.020	0.017	85	0.020	0.015	75	13	75-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Applicable = See Narrative, EQPL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: EQPL Basin

Work Order #: 345209

Lab Batch #: 774719

Project ID: 49194426

Date Analyzed: 09/29/2009

Date Prepared: 09/23/2009

Analyst: HAT

QC- Sample ID: 345209-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

Dissolved Metals by SW6020A		SAMPLE / SAMPLE DUPLICATE RECOVERY			
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	0.027	0.029	7	25	
Barium	0.539	0.543	1	25	
Cadmium	ND	ND	NC	25	
Chromium	ND	ND	NC	25	
Lead	0.003	0.002	40	25	F
Selenium	ND	0.003	NC	25	
Silver	ND	ND	NC	25	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: URS Corp.
 Date/ Time: 09/18/09 12:52
 Lab ID #: 345209
 Initials: gm

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	7 °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable - <u>Xenon Houston</u>
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

APPENDIX B

***LNAPL Fingerprint Analysis Laboratory
Analytical Results with
Chain-of-Custody Documentation***



Torkelson Geochemistry, Inc.

2528 S. Columbia Place
Tulsa, OK 74114-3233

Phone: 918-749-8441
Fax: 918-749-6005

e-mail: BTorkelson@torkelsongeochemistry.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project: Jal Station
Location: Jal, NM

Report/Bill To: H2A Environmental
Address: 1862 Keller Parkway
Keller, TX 76248

Additional Instructions
Questions: Contact Shannon Walker H2A Environmental
817-360-6961

Proj. No.: 106.001
P.O.: 106.001

Sampled By: John Savoie

Phone: 682-593-0270
Fax: 682-592-0860
e-mail: swalker@h2atld.com

Requested Turn-Around Time:

ITEM NO.	SAMPLE DESCRIPTION	DATE	MATRIX	LAB NO.	Total # Of Vials	ANALYSES REQUESTED										REMARKS
						PRESERVATIVES	GC Characterization	Density	Viscosity	Water Surface Tension	NAPL Surface Tension	NAPL/Water Interfac. Tens.	Lead	Sulfur	Hydrocarbon Fingerprinting	Physical Properties
1	MW-14 LNAPL	9/17/2009	liquid		3	X								X	X	
2																
3																
4																
5																
6																
7																
8																
9																
10																

RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME
<i>Shannon Walker</i>	9-24-09	1300	<i>Shannon Walker</i>	10-25-09	1000

Torkelson Geochemistry, Inc.

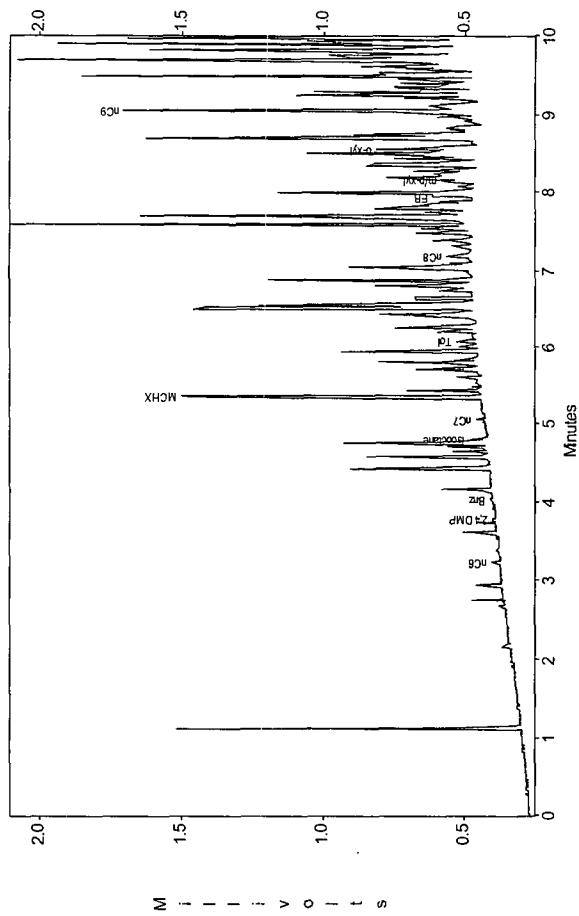
Page 1 of 1 (1)

Jal Station, Jal, NM

Sample ID : MW-14 LNAPL

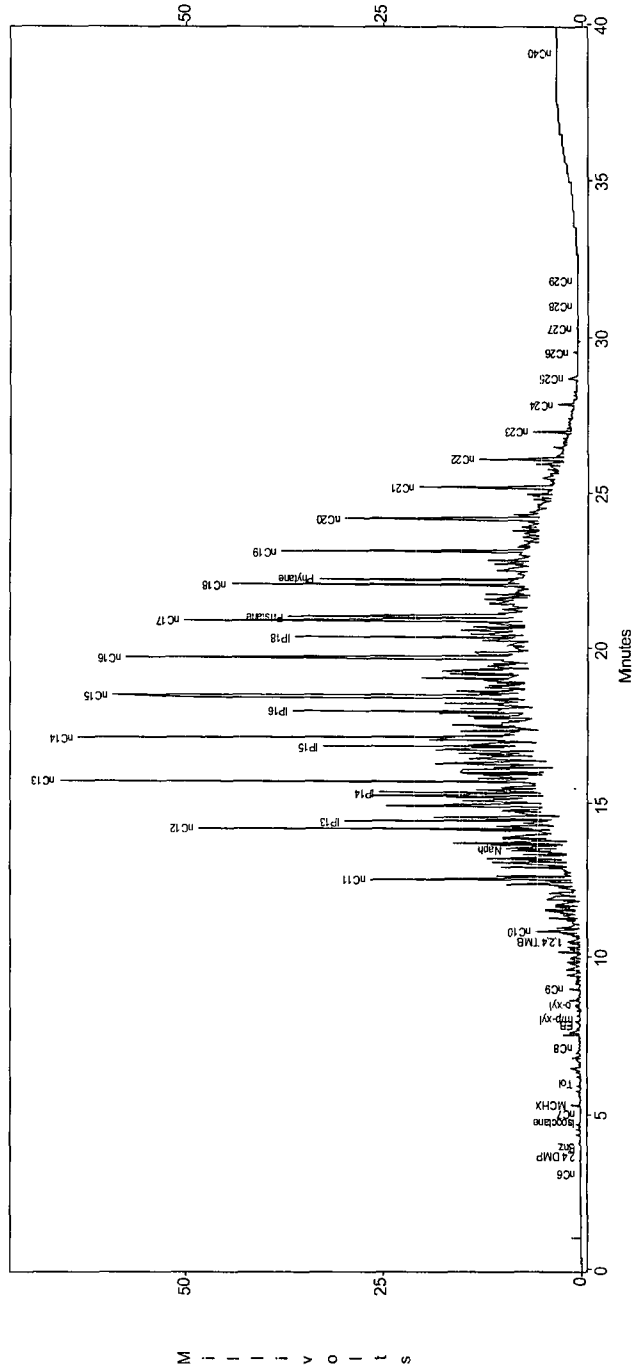
Acquired : Sep 25, 2009 17:22:19

c:\ezchrom\chrom09148\mw-14 - Channel A



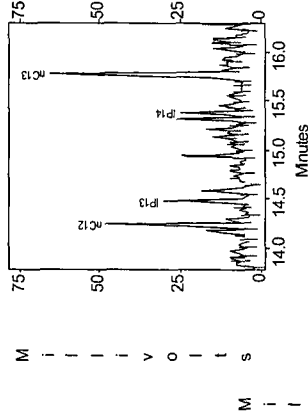
M i i i i i V O i i t S

c:\ezchrom\chrom09148\mw-14 - Channel A



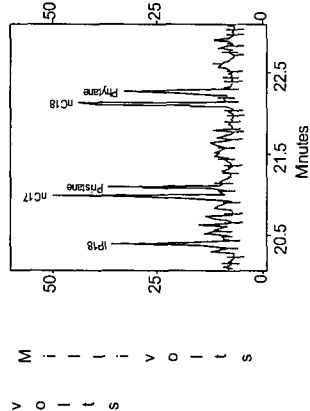
M i i i i i V O i i t S

c:\ezchrom\chrom09148\mw-14 - Channel A



M i i i i i V O i i t S

c:\ezchrom\chrom09148\mw-14 - Channel A



M i i i i i V O i i t S

Peak	Area	Height
nC4	0	0
nC5	0	0
nC6	0	0
nC7	0	0
nC8	0	0
nC9	29	27
nC10	0	0
nC11	0	0
nC12	0	0
nC13	0	0
nC14	12	10
nC15	12	9
nC16	80	63
nC17	33	30
nC18	1238	1060
nC19	164	81
nC20	409	115
nC21	193	157
nC22	279	128
nC23	742	354
nC24	2822	1252
nC25	2639	1417
nC26	7320	5285
nC27	38658	25495
nC28	32410	7674
nC29	75676	44988
nC30	50739	26839
nC31	30499	20552
nC32	127221	59546
nC33	45094	27857
nC34	129999	58634
nC35	71455	23969
nC36	113336	52360
nC37	115694	50635
nC38	62875	29487
nC39	99325	43479
nC40	71070	30370
nC41	71397	37366
nC42	57850	26166
nC43	62338	31810
nC44	48389	25057
nC45	25581	16989
nC46	18145	10787
nC47	7496	4575
nC48	3917	2191
nC49	2413	1041
nC50	1107	569
nC51	1449	363
nC52	1176	169
nC53	53	24
nC54	0	0
nC55	0	0
nC56	0	0
nC57	0	0
nC58	0	0
nC59	0	0
nC60	25	11

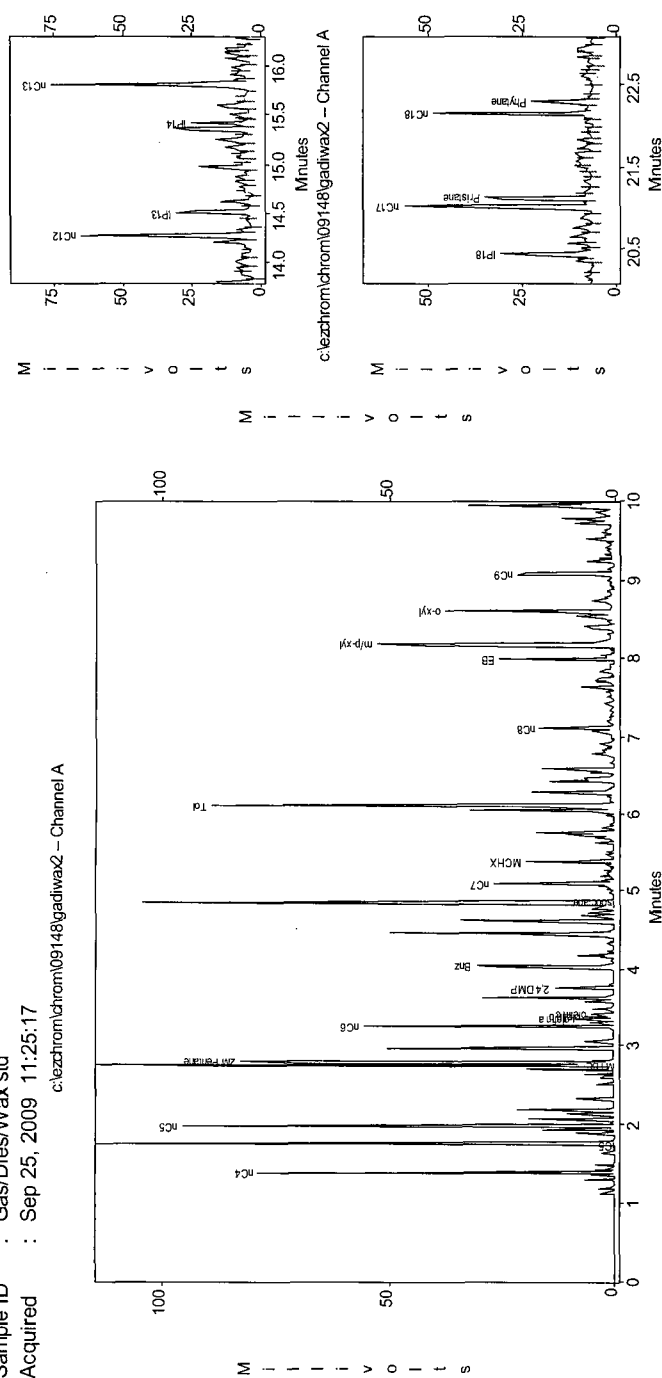
Torkelson Geochemistry, Inc.

Jal Station, Jal, NM

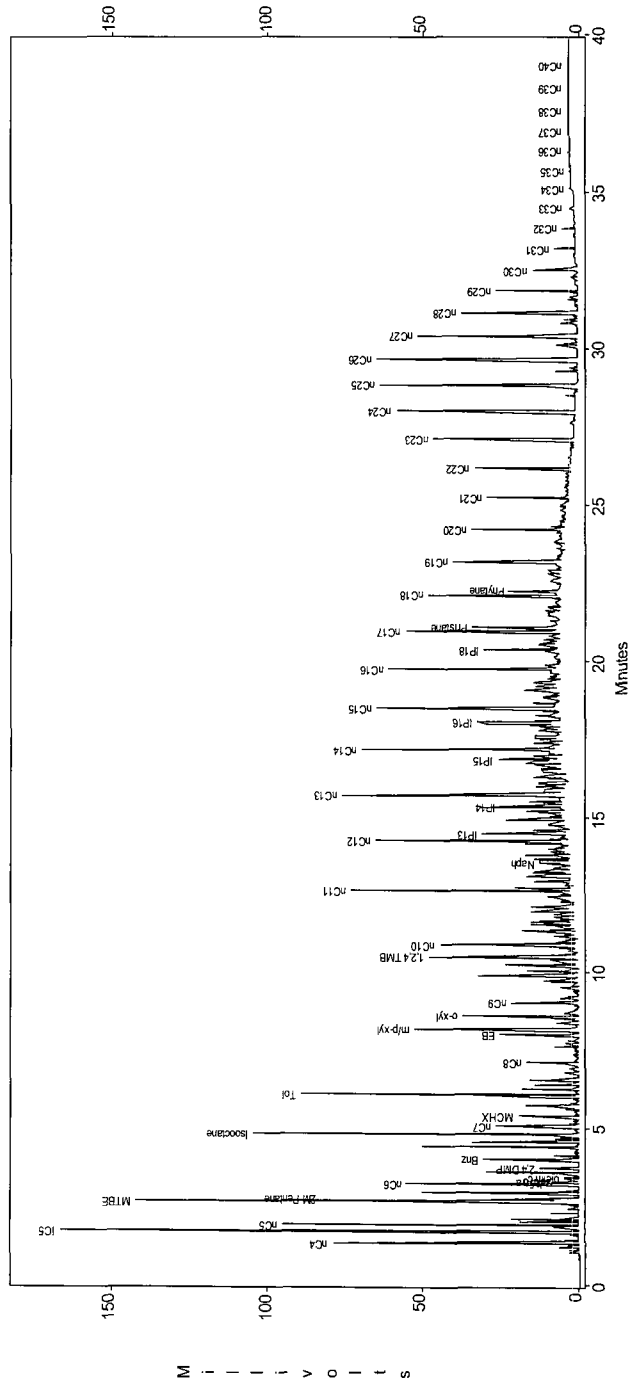
Sample ID : Gas/Dies/Wax std

Acquired : Sep 25, 2009 11:25:17

c:\exchrom\chrom09148\gadwax2 - Channel A



c:\exchrom\chrom09148\gadwax2 - Channel A



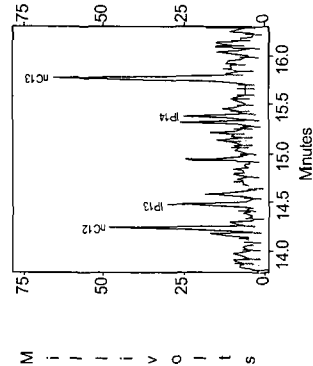
Channel A Results

Peak	Area	Height
nC4	45001	78181
nC5	112083	166162
nC6	68265	96362
nC7	135323	142463
nC8	72715	82841
nC9	54254	55264
nC10	9431	8621
nC11	6259	6546
nC12	5404	4902
nC13	13078	12792
nC14	35683	30186
nC15	32122	26139
nC16	23886	19371
nC17	141368	89088
nC18	19420	16175
nC19	34401	25276
nC20	122347	51987
nC21	55055	37089
nC22	31674	21347
nC23	84618	47591
nC24	69467	44185
nC25	127270	71458
nC26	30263	10026
nC27	107135	60965
nC28	52470	27992
nC29	29090	20540
nC30	147950	71542
nC31	45088	21865
nC32	139085	64972
nC33	60607	27303
nC34	123795	58656
nC35	126928	55688
nC36	62559	24585
nC37	113915	50202
nC38	66019	29010
nC39	97536	43284
nC40	38590	17460
nC41	76962	35770
nC42	53158	29782
nC43	47544	25799
nC44	59558	30677
nC45	96987	45216
nC46	147961	57275
nC47	176203	63306
nC48	179403	64047
nC49	137106	50852
nC50	86827	36804
nC51	48229	25609
nC52	23532	13431
nC53	12499	7107
nC54	6590	3670
nC55	3610	2063
nC56	2089	1174
nC57	1067	613
nC58	611	346
nC59	510	186
nC60	257	111
nC61	192	79
nC62	239	62

Torkelson Geochemistry, Inc.

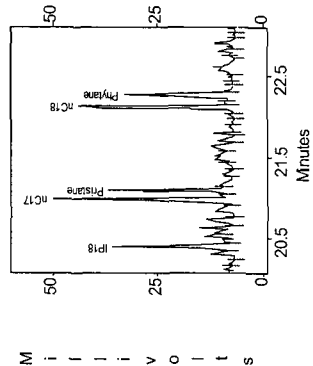
Jal Station, Jal, NM
 Sample ID : MW-14 LNAPL
 Acquired : Sep 25, 2009 17:22:19

c:\exchrom\chrom09148\mw-14 - Channel A



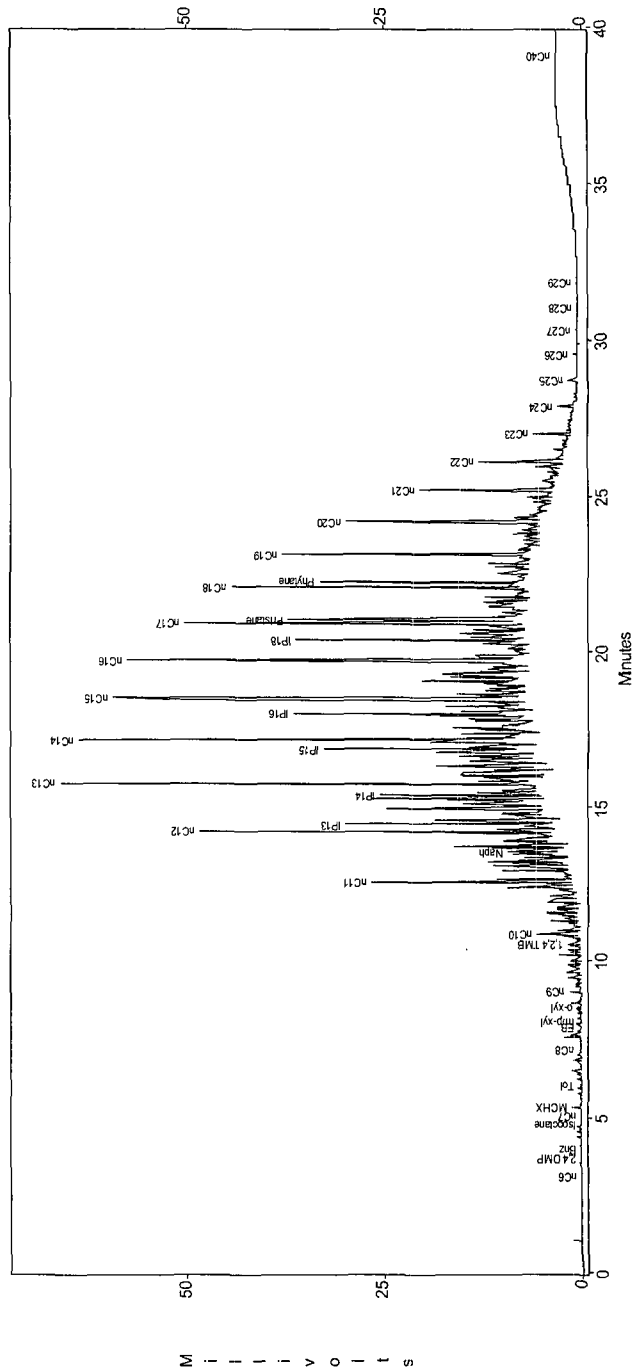
M i i i i i v o o i i i t s

c:\exchrom\chrom09148\mw-14 - Channel A



M i i i i i v o o i i i t s

c:\exchrom\chrom09148\mw-14 - Channel A



M i i i i i v o o i i i t s

Channel A Results

Peak	Area	Height
nc4	0	0
nc5	0	0
nc6	0	0
nc7	0	0
nc8	0	0
nc9	29	27
nc10	0	0
nc11	0	0
nc12	12	10
nc13	12	9
nc14	80	63
nc15	1238	1060
nc16	164	81
nc17	409	115
nc18	193	157
nc19	279	128
nc20	742	354
nc21	2822	1252
nc22	2039	1477
nc23	7320	5285
nc24	38658	25495
nc25	32410	7674
nc26	75676	44588
nc27	50739	26839
nc28	36959	20552
nc29	122721	59596
nc30	45094	27857
nc31	129999	58634
nc32	71455	29369
nc33	115336	52360
nc34	115694	50635
nc35	62875	29487
nc36	99325	43879
nc37	71070	30370
nc38	73397	37366
nc39	57850	26166
nc40	62338	31810
nc41	48389	25057
nc42	29581	16989
nc43	18145	10787
nc44	7496	4575
nc45	3917	2191
nc46	2413	1041
nc47	1107	569
nc48	1449	363
nc49	1176	169
nc50	53	24
nc51	0	0
nc52	0	0
nc53	0	0
nc54	0	0
nc55	0	0
nc56	0	0
nc57	0	0
nc58	0	0
nc59	0	0
nc60	25	11

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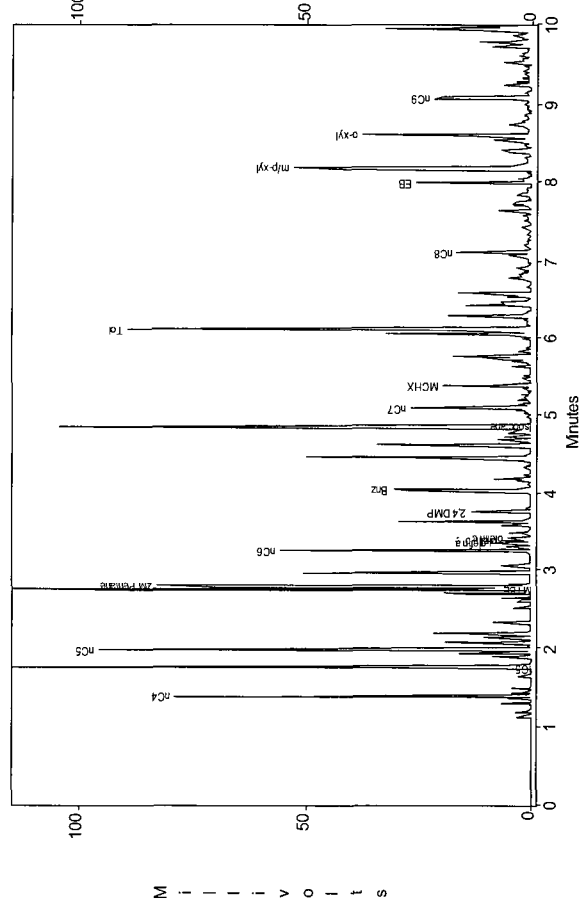
Jal Station, Jal, NM

Sample ID : Gas/Dies/Wax std

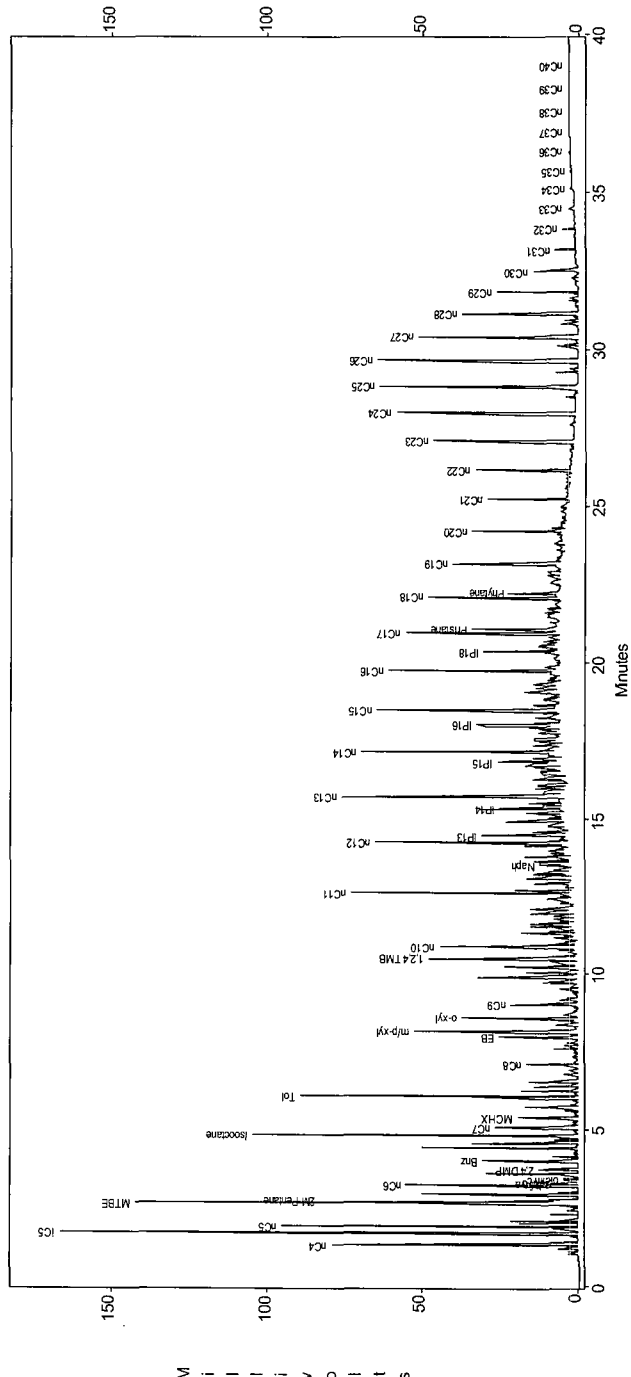
Acquired : Sep 25, 2009 11:25:17

c:\exchrom\chrom09148\gadiwax2 - Channel A

c:\exchrom\chrom09148\gadiwax2 - Channel A



c:\exchrom\chrom09148\gadiwax2 - Channel A



Channel A Results

Peak Area Height

M i i i i i v o o t s M i i i i i v o o t s M i i i i i v o o t s

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Physical Properties Measurements							
Sample	TGI Job Number	Density (gm/ml)	Viscosity (centipoise)	Surface Tension Air/Water (dynes/cm)	Interfacial Tension NAPL/Water (dynes/cm)	Surface Tension Air/NAPL (dynes/cm)	Temperature of Measurements
MW-14	09148	0.8615	5.16	69.1*	19.5*	27.3	60F

* Distilled Water