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**ANNUAL  
MONITORING  
REPORT**

**4/05/2005**



**Tipperary**  
CORPORATION

633 Seventeenth Street  
Suite 1550  
Denver, Colorado 80202-3622

RECEIVED

APR 06 2005

Oil Conservation Division  
Environmental Bureau

April 5, 2005

VIA OVERNIGHT MAIL

Mr. Roger C. Anderson  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

**RE: Progress Report for Year 2004  
Bagley Field  
Pit Closure Project  
Lea County, NM**

IRP 263  
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269  
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Dear Mr. Anderson:

Please find enclosed the 2004 results from our monitor wells in the subject project area. This report summarizes the results from water samples taken on October 1, 2004. These results represent seven years of monitoring. On April 19, 2004, the NMOCB modified the monitoring program for the project to allow sampling on an annual basis. In general, we are continuing to observe decreasing levels of BTEX in the monitor wells.

The Executive Summary section contains a general discussion of the project to date and a Location Map of the pit reclamation projects.

A summary of the investigation work and results to date for each pit closure site is included. The following data is presented for each site:

- Well site plat with monitor well locations.
- Ground water potentiometric map for the 2004 sampling with the direction and magnitude of the hydraulic gradient.
- Table of ground water recovery volumes (where applicable).
- Well bailing log for each well.
- Summary table and chart of water quality results for each well.
- Geologic/lithologic log and well construction diagram for each new well.

We will continue to sample and prepare a progress report for your office on an annual basis. If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Tipperary Oil & Gas Corporation



Larry G. Sugano  
Vice President - Engineering

Enclosures

cc: NMOCD Hobbs Office  
Whole Earth Environmental

**Tipperary Oil & Gas Corporation  
Bagley Field  
2004 Annual Report**

**Executive Summary**

**Site History**

In response to a request by a 1996 request by the NMOCD, Tipperary Corporation began a program to close a series of ten surface impoundments located with their Bagley Field west of Tatum, New Mexico. The closure program consisted of excavating the impoundments and encapsulating the contaminant plume within high-density polyethylene. As part of the closure program, a groundwater investigation was conducted at each site. The investigation concluded that due to the relatively shallow depth to the surface of the aquifer, each site impacted the Ogallala Aquifer to varying degrees.

The remediation plan included passive monitoring of those sites showing no free product on the water table and active fluid removal by means of the erection of windmills at three sites found to have more significant concentrations. A series of water monitoring wells were placed down gradient of each location. Each such well has been sampled and tested on a quarterly basis with the results of each laboratory analyses provided to the NMOCD on an annual basis. To date, three sites have been remediated to final closure. On April 19, 2004, the NMOCD modified the monitoring program to allow sampling on an annual basis.

**Procedures**

Whole Earth employs a Grundfos electric submersible pump and individual bailers dedicated to each well. The well fluids are pumped into a trailer mounted storage tank and sent to disposal at the Burro Pipeline Station No. 1.

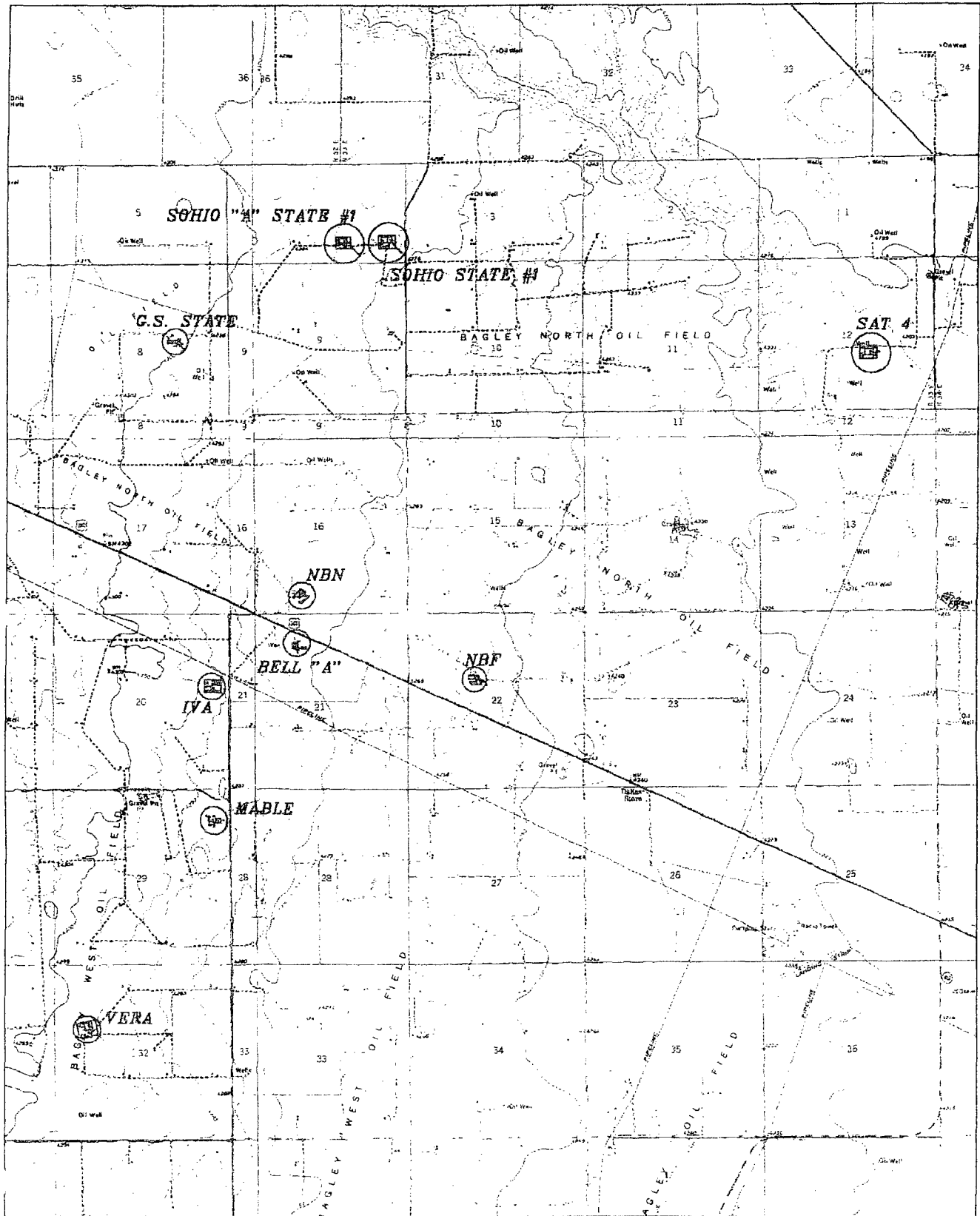
The submersible pump is thoroughly decontaminated between each well by spraying the exterior with detergent followed by a clear water rinse; the inside of the pump and hose assembly is cleaned by pumping a minimum volume of five gallons of Alquinox through the system between each well.

**Results and Conclusions**

Generally, the trend for each pit site is to show lower concentrations of BTEX within each recovery and monitor well bore. During this sampling round we noticed that those bores containing free products had increased volumes of hydrocarbons over all previous sampling rounds. We believe that this is due to the reduction of frequency in bailing the wells (once versus four times per year). In future bailings we will continue to pump sufficient volumes from each bore containing free product until such time as the oil is no longer visible within the discharge stream.

A map showing the project area is attached. The following sections present the investigation work results to date for each of the sites.

# WHOLE EARTH ENVIROMENTAL, INC.



4000 0 4000 8000

**EXHIBIT 9**

**BASIN SURVEYS** P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 9352

Drawn By: K. GOAD

Date: 10-21-99

Disk: KJG #122 - WE9352.DWG

**Tipperary Oil & Gas Corporation  
Bagley Field  
2004 Annual Report**

**Bell State A  
Section 21C-T11S-R33E**

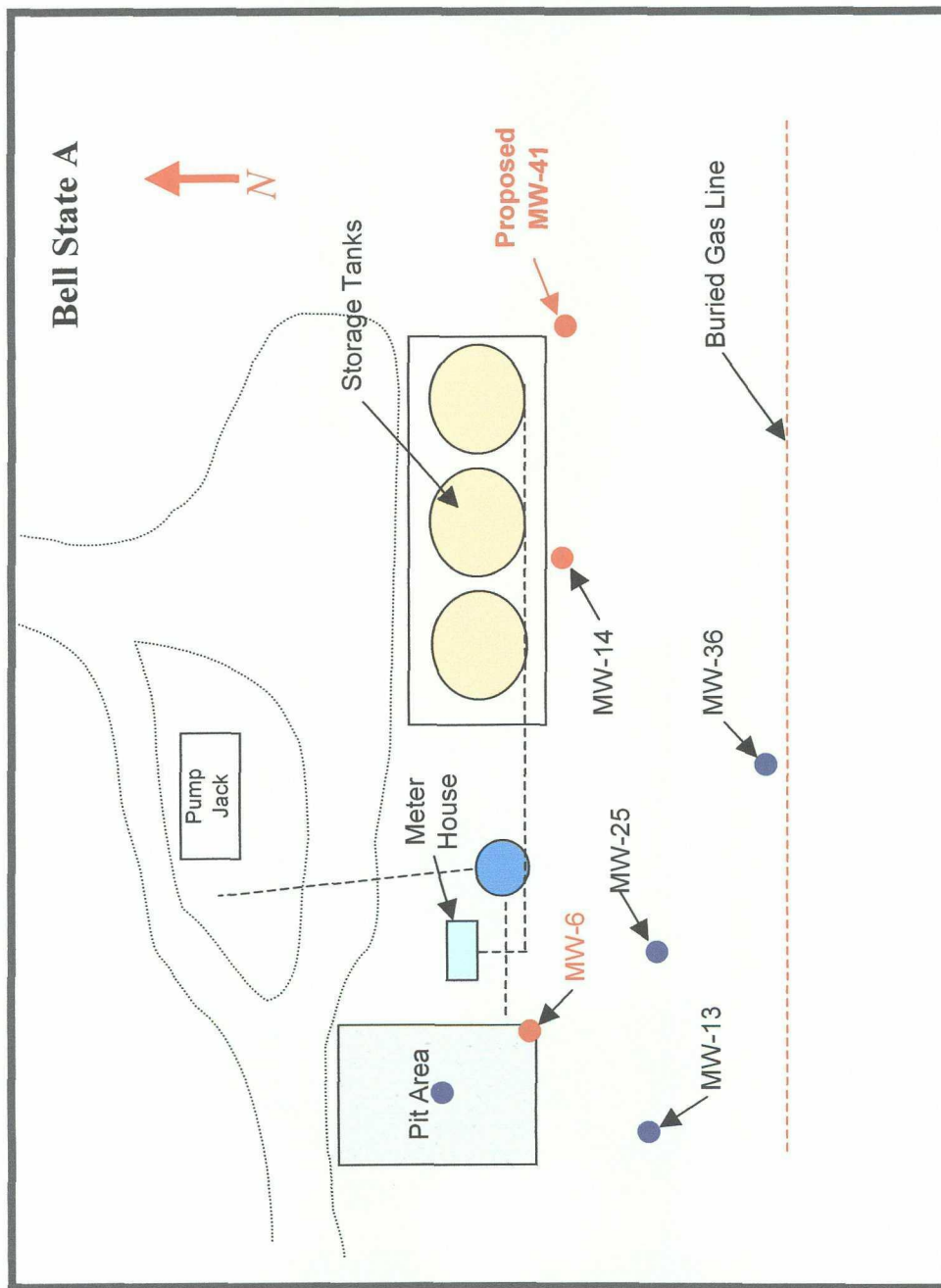
IRP 260

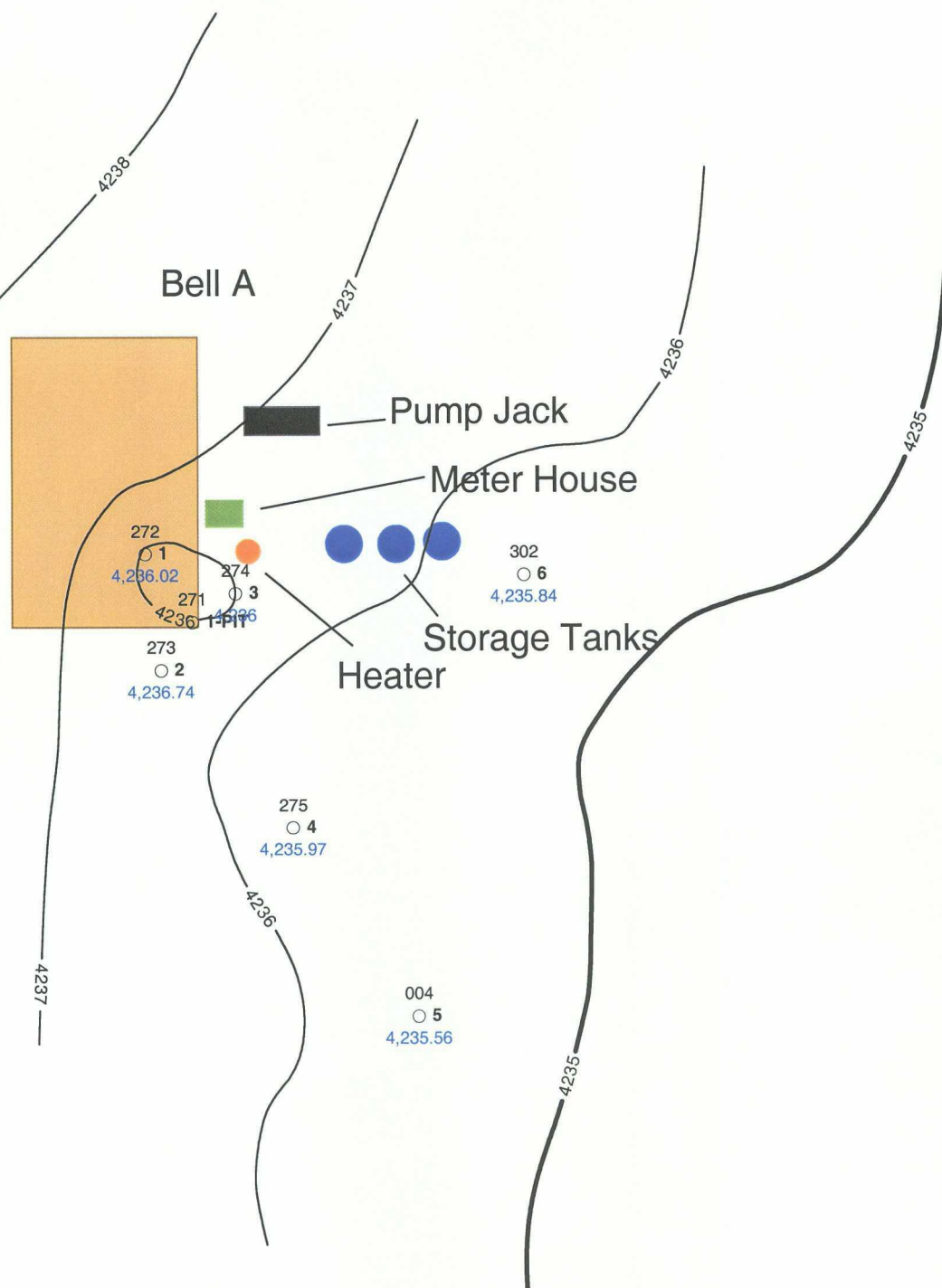
The Bell State A site consists of six monitor wells. The latest being constructed on June 16, 2003. The well nearest the pit, (MW 1) shows a decline in BTEX concentrations of 99.6% over the past six years. Monitor Wells Nos. 2, 4 and 5 all show acceptable results. Monitor Well No. 3 has increased in concentration significantly over last year as the plume appears to be passing.

We will continue to monitor the results on an annual basis.

Please find the following data:

- Well-site plat with monitor well locations.
- Ground water potentiometric map for 2004 sampling with direction and magnitude of the hydraulic gradient.
- Well bailing log for each well.
- Summary table and chart of ground water quality results for each well.
- Copy of the recent laboratory sampling results with the QA/QC data.



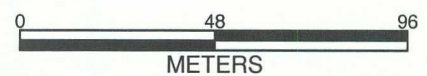


## Tipperary Oil & Gas Corp.

### North Bagley Field Pit Closure

Bell A 1 - 4thQtr 2004 Water Level

Grad= 25 ft./mi. @ 130° Az.







**Bell**

## Monitor Well Bailing Log

**Bell MW #1**

**Lat:** N33<sup>0</sup> 21.3688495'  
**Long.** W103<sup>0</sup> 37.31095483'  
**Surf. Elev.** 4281.18 Ft.

As Drilled	As Measured				
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**Date:** 8/28/1997  
**Top of Water** 51 **Ft.**  
**Bottom of Bore** 60 **Ft.**

<b>Date:</b>	<b>1/23/04</b>	<b>9/29/04</b>			
<b>Top of Water</b>	<b>45.00</b>	<b>45.00</b>			<b>Ft.</b>
<b>Bottom of Bore</b>	<b>55.80</b>	<b>55.80</b>			<b>Ft.</b>
<b>Bore Volumn</b>	<b>1.74</b>	<b>1.74</b>			<b>Gal.</b>
<b>LPNL Top</b>	<b>NA</b>	<b>NA</b>			<b>Ft.</b>
<b>LPNL Bottom</b>	<b>NA</b>	<b>NA</b>			<b>Ft.</b>
<b>DPNL Top</b>	<b>NA</b>	<b>NA</b>			<b>Ft.</b>
<b>DPNL Bottom</b>	<b>NA</b>	<b>NA</b>			<b>Ft.</b>
<b>Min. Bailing Vol.</b>	<b>5.23</b>	<b>5.23</b>			<b>Gal.</b>
<b>Actual Bailing Vol.</b>	<b>12</b>	<b>12</b>			<b>Gal.</b>

### Comments

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**Bell**

## Monitor Well Bailing Log

### Bell MW #2

Lat: N33° 21.3518603'  
Long. W103° 37.3084305'  
Surf. Elev. 4280.89 Ft.

As Drilled	As Measured
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Date: 10/2/1997  
Top of Water 47.75 Ft.  
Bottom of Bore 60 Ft.

Date:	1/23/04	9/29/04			
Top of Water	44.40	44.60			Ft.
Bottom of Bore	55.90	55.60			Ft.
Bore Volumn	1.85	1.77			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	5.56	5.32			Gal.
Actual Bailing Vol.	12	10			Gal.

### Comments

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**Bell**

## Monitor Well Bailing Log

**Bell MW #3**

Lat: N33° 21.3628858'  
Long. W103° 37.29505033'  
Surf. Elev. 4280.8 Ft.

As Drilled	As Measured
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Date: 10/2/1997  
Top of Water 48.32 Ft.  
Bottom of Bore 60 Ft.

Date:	1/23/04	9/29/04			
Top of Water	44.80	44.80			Ft.
Bottom of Bore	55.40	55.40			Ft.
Bore Volume	1.71	1.71			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	5.13	5.13			Gal.
Actual Bailing Vol.	12	12			Gal.

**Comments**

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**Bell**

## Monitor Well Bailing Log

**Bell MW #4**

Lat: N33° 21.3285547'  
Long. W103° 37.28553883'  
Surf. Elev. 4280.54 Ft.

As Drilled	As Measured
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Date: 3/15/1999  
Top of Water 47.44 Ft.  
Bottom of Bore 60 Ft.

Date:	1/23/04	9/29/04			
Top of Water	44.50	44.50			Ft.
Bottom of Bore	58.30	58.20			Ft.
Bore Volume	2.23	2.21			Gal.
LPNL Top	NA	NA			Ft.
LPNL Bottom	NA	NA			Ft.
DPNL Top	NA	NA			Ft.
DPNL Bottom	NA	NA			Ft.
Min. Bailing Vol.	6.68	6.63			Gal.
Actual Bailing Vol.	15	15			Gal.

**Comments**

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**Bell**

## Monitor Well Bailing Log

**Bell MW #5**

Lat: N33° 21.3006243'  
Long. W103° 37.26371767'  
Surf. Elev. 4280.54 Ft.

As Drilled	As Measured
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Date: 6/3/2002  
Top of Water 41 Ft.  
Bottom of Bore 62 Ft.

Date:	1/23/04	9/29/04		
Top of Water	44.30	44.30		Ft.
Bottom of Bore	57.10	56.50		Ft.
Bore Volumn	2.06	1.97		Gal.
LPNL Top	NA	NA		Ft.
LPNL Bottom	NA	NA		Ft.
DPNL Top	NA	NA		Ft.
DPNL Bottom	NA	NA		Ft.
Min. Bailing Vol.	6.19	5.90		Gal.
Actual Bailing Vol.	15	10		Gal.

**Comments**

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**Bell**

## Monitor Well Bailing Log

**Bell MW #6**

Lat: N33° 21.3650'  
Long. W103° 37.24385'  
Surf. Elev. 4280.64 Ft.

As Drilled	As Measured
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Date: 6/16/2003  
Top of Water 44 Ft.  
Bottom of Bore 55 Ft.

Date:	1/23/04	9/29/04		
Top of Water	44.90	44.90		Ft.
Bottom of Bore	51.10	50.90		Ft.
Bore Volumn	1.00	0.97		Gal.
LPNL Top	NA	NA		Ft.
LPNL Bottom	NA	NA		Ft.
DPNL Top	NA	NA		Ft.
DPNL Bottom	NA	NA		Ft.
Min. Bailing Vol.	3.00	2.90		Gal.
Actual Bailing Vol.	10	10		Gal.

### Comments

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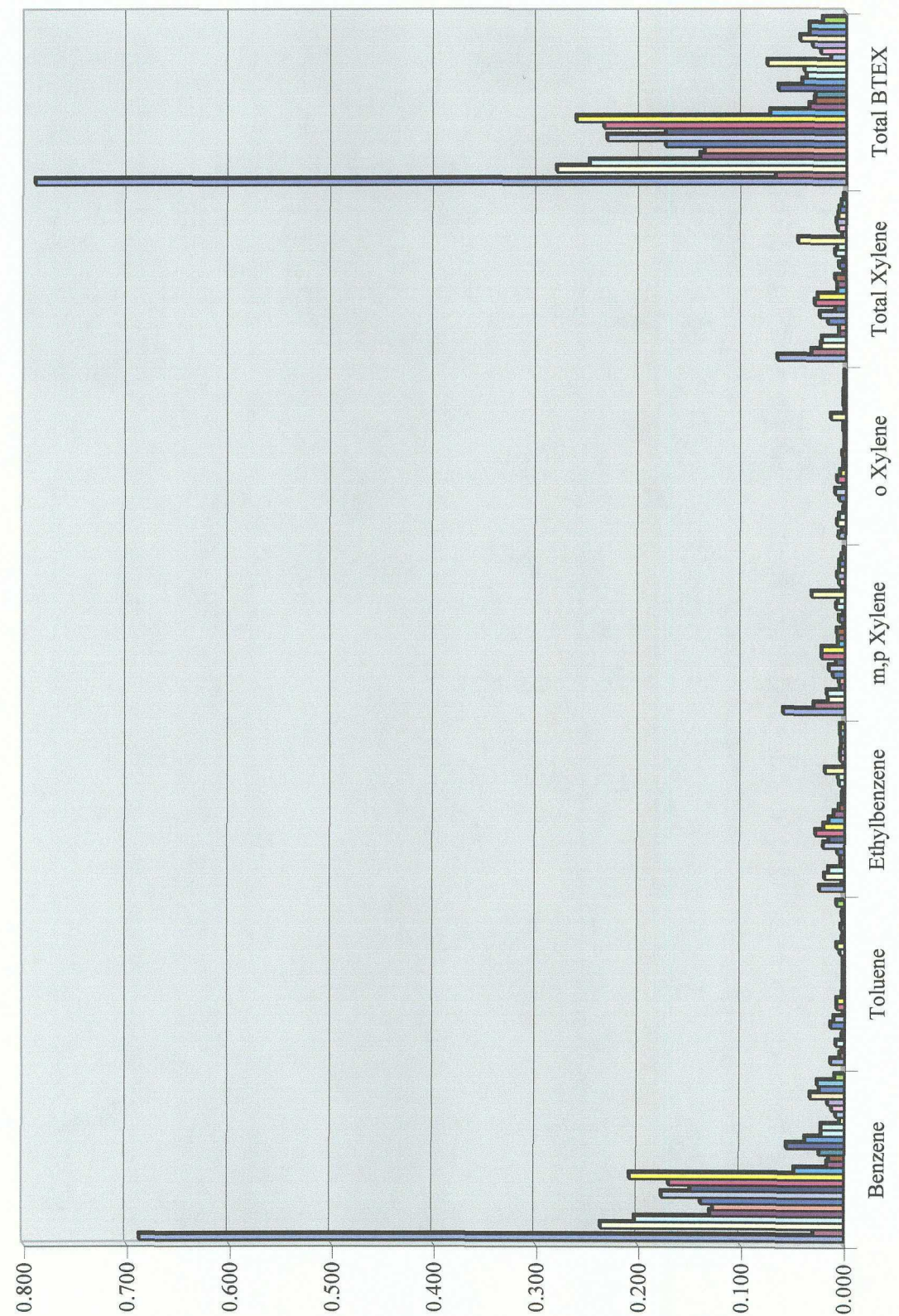
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**Monitor Well # 1**  
**Bell State "A"**  
**Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12481	09/05/97	0.687	0.013	0.024	0.060	0.006	0.066	0.790
13179	12/03/97	0.029	0.004	0.002	0.030	0.003	0.033	0.068
14062	03/23/98	0.236	0.002	0.019	0.016	0.008	0.024	0.281
14661	06/25/98	0.203	0.008	0.015	0.017	0.006	0.023	0.249
15593	10/01/98	0.130	0.002	0.003	0.004	0.002	0.006	0.141
16600	01/06/99	0.127	0.001	0.003	0.005	0.001	0.006	0.137
17431	04/05/99	0.139	0.013	0.006	0.011	0.006	0.017	0.175
18593	07/14/99	0.177	0.010	0.020	0.015	0.010	0.025	0.232
20599	10/06/99	0.149	0.001	0.015	0.008	0.002	0.010	0.175
22765	01/08/00	0.170	0.007	0.028	0.022	0.008	0.030	0.235
25167	04/13/00	0.208	0.007	0.020	0.022	0.005	0.027	0.262
28440	07/20/00	0.048	0.002	0.015	0.006	0.002	0.008	0.073
31507	09/26/00	0.016	0.001	0.010	0.006	0.002	0.008	0.035
36136	01/05/01	0.014	0.001	0.005	0.007	0.003	0.010	0.030
38923	04/05/01	0.024	0.001	0.002	0.001	0.001	0.002	0.029
0101098-07	07/05/01	0.056	0.001	0.002	0.005	0.001	0.006	0.065
0101642-07	09/26/01	0.038	0.001	0.001	0.001	0.001	0.002	0.042
0202619-07	02/15/02	0.022	0.001	0.005	0.008	0.002	0.010	0.038
0203001-07	03/30/02	0.022	0.004	0.006	0.006	0.002	0.008	0.040
0203602-05	06/15/02	0.004	0.007	0.019	0.032	0.014	0.046	0.076
0203602-05	10/19/02	0.008	0.002	0.001	0.002	0.001	0.003	0.014
0205349-07	01/04/03	0.012	0.001	0.004	0.005	0.002	0.007	0.024
0306249-08	04/17/03	0.016	0.003	0.004	0.007	0.002	0.009	0.032
0306733-24	06/20/03	0.033	0.001	0.003	0.005	0.002	0.007	0.044
0307790-01	10/30/03	0.024	0.002	0.003	0.005	0.001	0.006	0.035
4A26007-01	01/23/04	0.026	0.001	0.004	0.003	0.001	0.004	0.035
4J04003-01	10/01/04	0.009	0.007	0.004	0.001	0.001	0.002	0.022

The chart displays the concentration of various organic compounds in water samples collected from 1997 to 2004. The y-axis represents concentration in mg/L, ranging from 0.000 to 0.800. The x-axis lists compounds: Benzene, Toluene, Ethylbenzene, m,p Xylene, o Xylene, Total Xylene, and Total BTEX. Each compound has a group of bars representing different sampling dates. Benzene and Total BTEX show the highest concentrations, with Benzene peaking around 0.75 mg/L in 1997 and Total BTEX peaking around 0.25 mg/L in 2001. Other compounds show much lower concentrations, generally below 0.1 mg/L.





## Monitor Well # 2

### Bell State "A"

### Sampling Results

[illegible]

The chart displays the concentration of aromatic compounds in mg/L over time. The Y-axis ranges from 0.000 to 1.400 mg/L. The X-axis lists the compounds: Benzene, Toluene, Ethylbenzene, m,p Xylene, o Xylene, Total Xylene, and Total BTEX. The legend indicates the sampling dates for each compound.

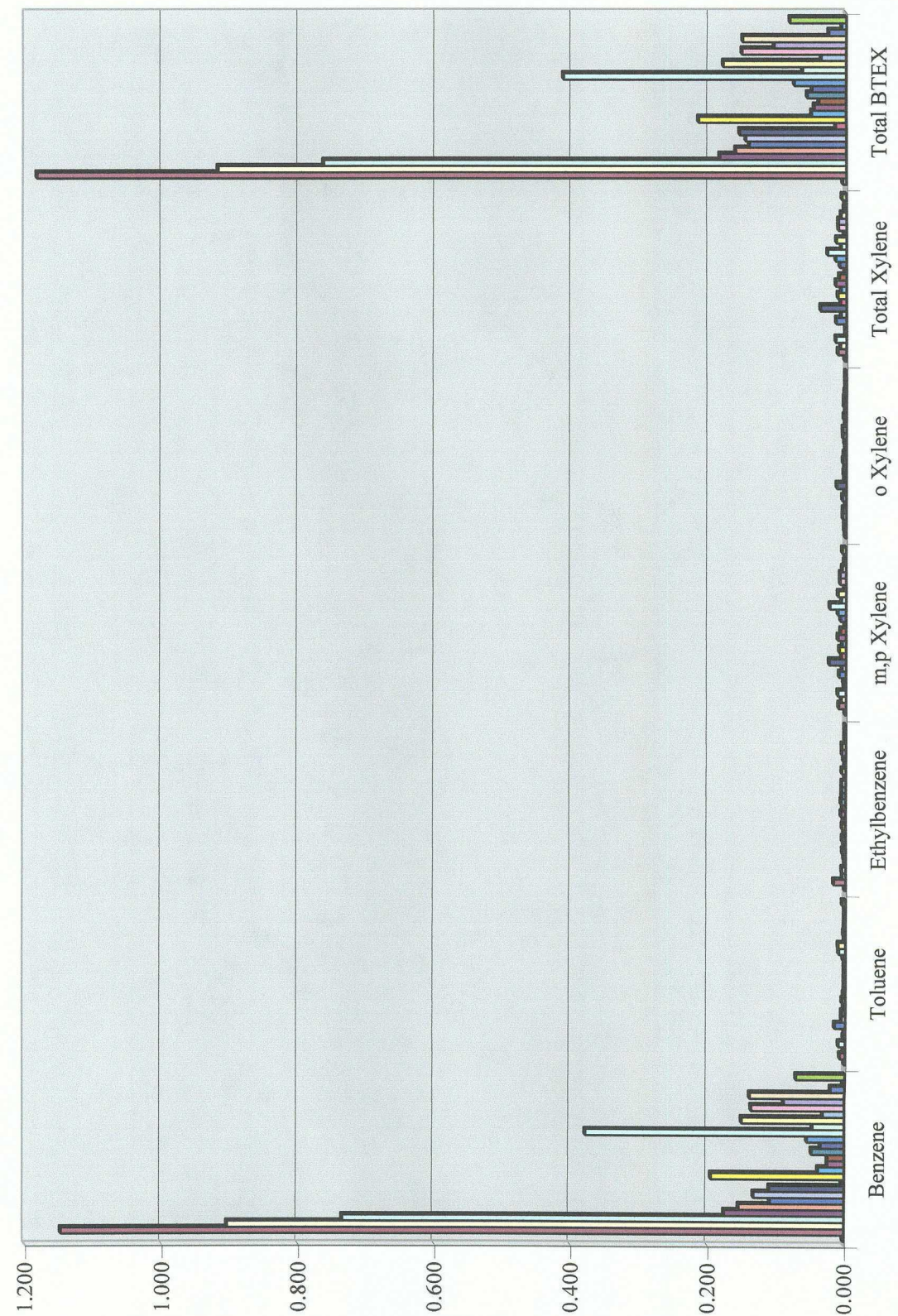
Compound	Sampling Dates	Concentration (mg/L)
Benzene	09/05/97, 12/03/97, 03/23/98, 06/25/98, 10/01/98, 01/06/99, 04/05/99, 07/14/99, 10/06/99, 01/08/00, 04/13/00, 07/20/00, 09/26/00, 01/05/01, 04/05/01, 07/07/01, 09/26/01, 02/15/02, 03/30/02, 06/15/02, 10/19/02, 01/04/03, 04/17/03, 06/20/03, 10/30/03, 01/23/04, 10/01/04	~1.25 (1997), ~0.05 (2003), ~0.05 (2004)
Total BTEX	09/05/97, 12/03/97, 03/23/98, 06/25/98, 10/01/98, 01/06/99, 04/05/99, 07/14/99, 10/06/99, 01/08/00, 04/13/00, 07/20/00, 09/26/00, 01/05/01, 04/05/01, 07/07/01, 09/26/01, 02/15/02, 03/30/02, 06/15/02, 10/19/02, 01/04/03, 04/17/03, 06/20/03, 10/30/03, 01/23/04, 10/01/04	~1.25 (1997), ~0.25 (2003), ~0.25 (2004)

**Monitor Well # 3**  
**Bell State "A"**  
**Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12732	09/05/97	0.001	0.001	0.001	0.001	0.001	0.002	0.005
13181	12/03/97	1.147	0.007	0.017	0.010	0.002	0.012	1.183
14048	03/23/98	0.904	0.002	0.004	0.006	0.002	0.008	0.918
14668	06/25/98	0.735	0.009	0.005	0.011	0.004	0.015	0.764
15607	10/01/98	0.175	0.002	0.001	0.002	0.004	0.001	0.184
16607	01/06/99	0.154	0.001	0.002	0.003	0.001	0.001	0.161
17433	04/01/99	0.108	0.015	0.004	0.009	0.005	0.014	0.141
18600	07/14/99	0.132	0.005	0.002	0.005	0.002	0.007	0.146
20610	10/06/99	0.109	0.005	0.004	0.024	0.013	0.037	0.155
22770	01/08/00	0.003	0.002	0.002	0.006	0.002	0.008	0.015
25169	04/13/00	0.195	0.004	0.004	0.009	0.003	0.012	0.215
28444	07/20/00	0.038	0.002	0.003	0.005	0.002	0.007	0.050
31488	09/26/00	0.024	0.001	0.006	0.011	0.004	0.015	0.046
36141	01/05/00	0.024	0.001	0.004	0.007	0.003	0.010	0.039
38925	04/05/01	0.047	0.001	0.006	0.001	0.001	0.002	0.056
01010098-09	07/07/01	0.034	0.001	0.005	0.007	0.002	0.009	0.049
0101642-09	09/26/01	0.054	0.001	0.005	0.011	0.004	0.015	0.075
0202619-09	02/15/02	0.378	0.003	0.005	0.023	0.004	0.027	0.413
0203001-09	03/30/02	0.046	0.009	0.001	0.006	0.001	0.007	0.063
0203602-08	06/15/02	0.150	0.010	0.005	0.011	0.003	0.014	0.179
0204815-10	10/19/02	0.031	0.001	0.001	0.002	0.001	0.003	0.036
0205349-09	01/04/03	0.136	0.002	0.003	0.008	0.003	0.011	0.152
0306249-10	04/17/03	0.088	0.001	0.005	0.008	0.003	0.011	0.105
0306733-26	06/20/03	0.138	0.001	0.005	0.005	0.002	0.007	0.151
0307790-03	10/30/03	0.020	0.001	0.001	0.002	0.001	0.003	0.025
4A26007-03	01/23/04	0.002	0.001	0.001	0.001	0.001	0.002	0.006
4J04003-03	10/01/04	0.071	0.004	0.001	0.005	0.001	0.006	0.082



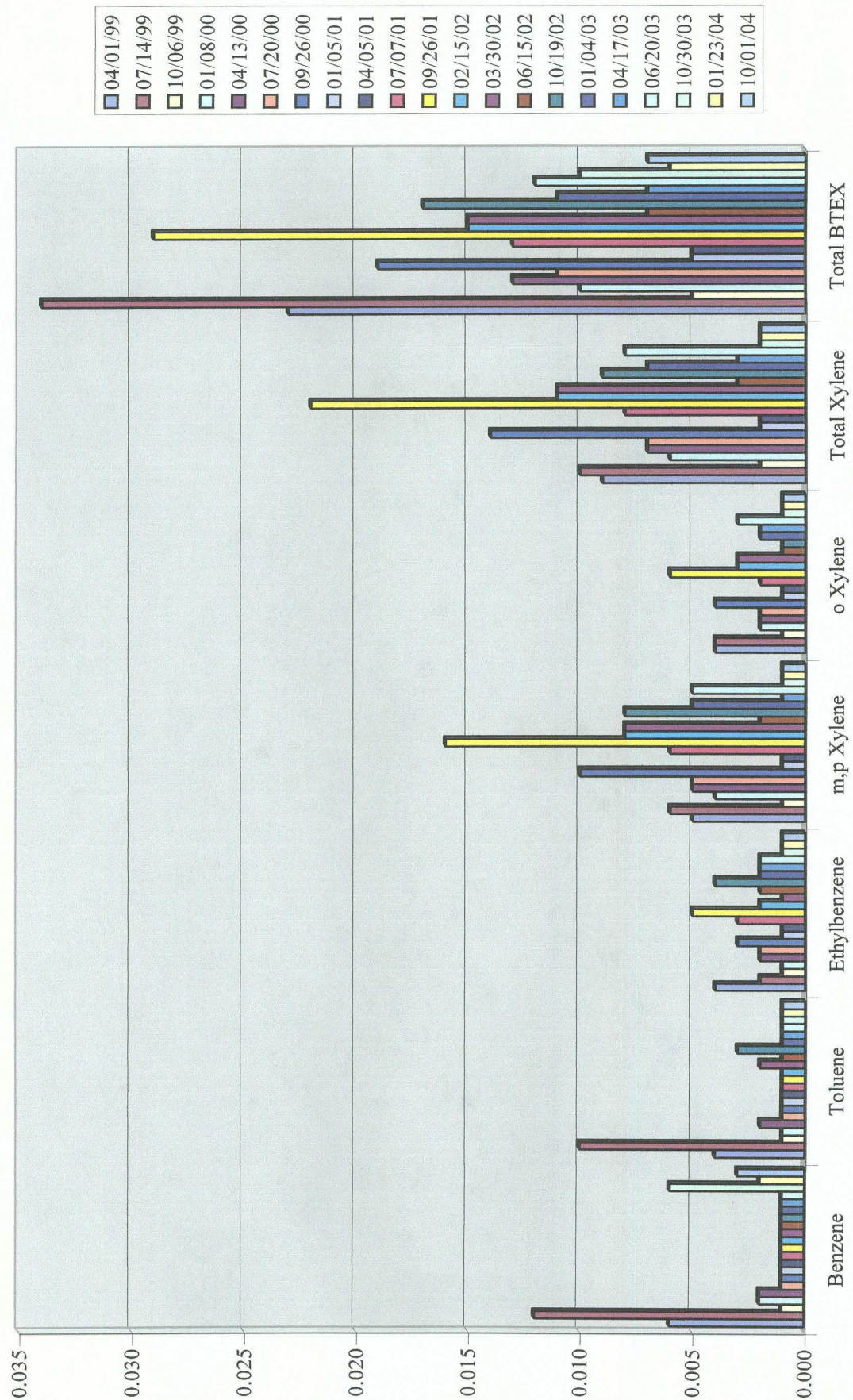
The chart displays the concentration of various aromatic compounds in mg/L over time. The Y-axis represents concentration in mg/L, ranging from 0.000 to 1.200. The X-axis represents time, with dates from 09/05/97 to 10/01/04. The compounds are grouped into seven categories: Benzene, Toluene, Ethylbenzene, m,p Xylene, o Xylene, Total Xylene, and Total BTEX. Benzene concentrations are generally low, with a notable peak around 0.4 mg/L in early 2001. Toluene and Ethylbenzene concentrations are also low, with a peak around 0.1 mg/L in early 2001. m,p Xylene and o Xylene concentrations are very low. Total Xylene concentrations are low, with a peak around 0.1 mg/L in early 2001. Total BTEX concentrations are low, with a peak around 0.1 mg/L in early 2001.



**Monitor Well # 4**  
**Bell State "A"**  
**Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
17265	04/01/99	0.006	0.004	0.004	0.005	0.004	0.009	0.023
18601	07/14/99	0.012	0.010	0.002	0.006	0.004	0.010	0.034
20611	10/06/99	0.001	0.001	0.001	0.001	0.001	0.002	0.005
22784	01/08/00	0.002	0.001	0.001	0.004	0.002	0.006	0.010
25170	04/13/00	0.002	0.002	0.002	0.005	0.002	0.007	0.013
28454	07/20/00	0.001	0.001	0.002	0.005	0.002	0.007	0.011
31489	09/26/00	0.001	0.001	0.003	0.010	0.004	0.014	0.019
36152	01/05/01	0.001	0.001	0.001	0.001	0.001	0.002	0.005
38926	04/05/01	0.001	0.001	0.001	0.001	0.001	0.002	0.005
0101098-10	07/07/01	0.001	0.001	0.003	0.006	0.002	0.008	0.013
0101642-10	09/26/01	0.001	0.001	0.005	0.016	0.006	0.022	0.029
0202619-10	02/15/02	0.001	0.001	0.002	0.008	0.003	0.011	0.015
0203001-10	03/30/02	0.001	0.002	0.001	0.008	0.003	0.011	0.015
0203602-08	06/15/02	0.001	0.001	0.002	0.002	0.001	0.003	0.007
0204815-11	10/19/02	0.001	0.003	0.004	0.008	0.001	0.009	0.017
0205349-10	01/04/03	0.001	0.001	0.002	0.005	0.002	0.007	0.011
0306249-11	04/17/03	0.001	0.001	0.002	0.001	0.002	0.003	0.007
0306733-27	06/20/03	0.001	0.001	0.002	0.005	0.003	0.008	0.012
0307790-04	10/30/03	0.006	0.001	0.001	0.001	0.001	0.002	0.010
4A26007-04	01/23/04	0.002	0.001	0.001	0.001	0.001	0.002	0.006
4J04003-04	10/01/04	0.003	0.001	0.001	0.001	0.001	0.002	0.007



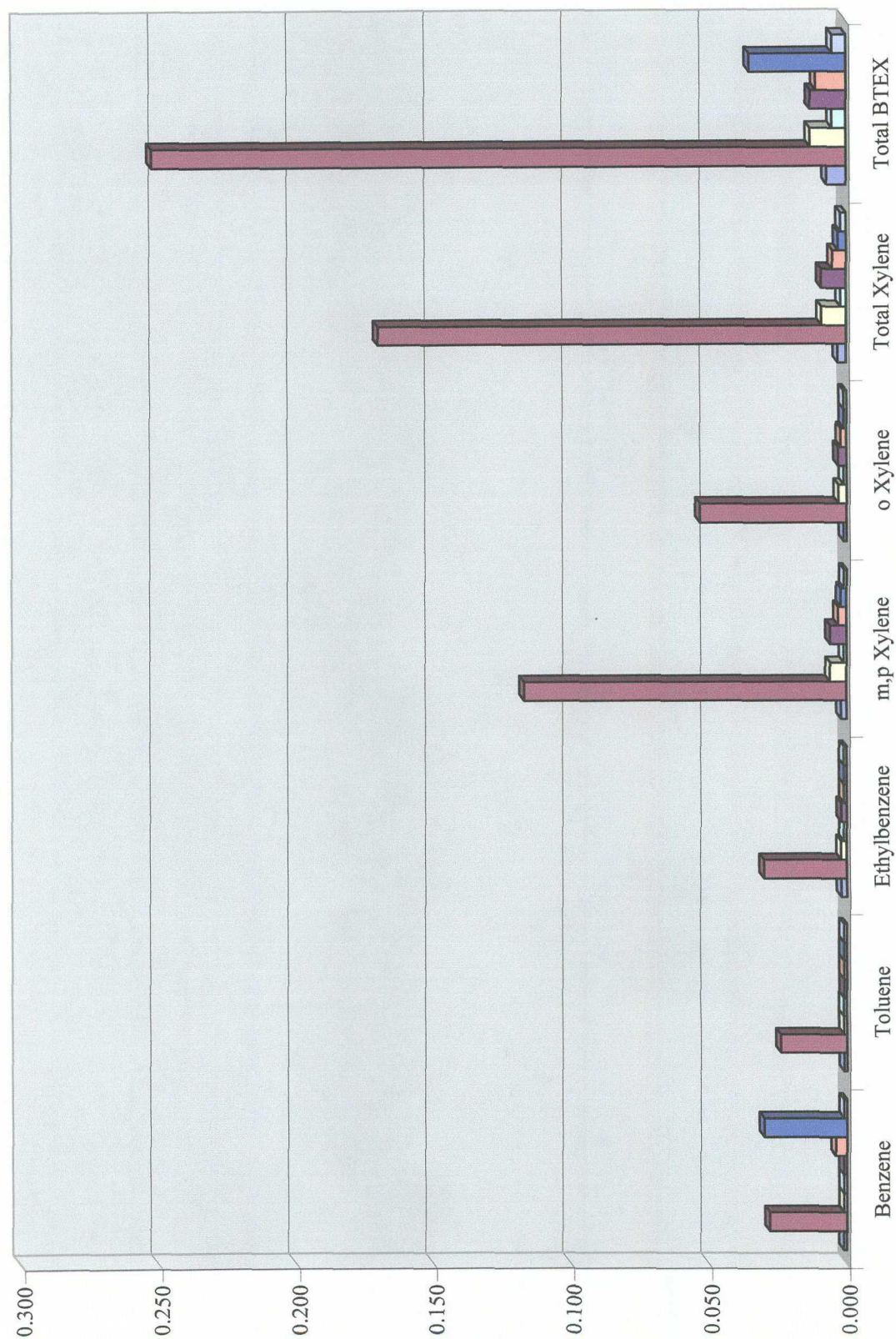






3D bar chart showing concentrations of benzene, toluene, ethylbenzene, m,p xylene, o xylene, total xylene, and total BTEX at seven different dates from 2002 to 2004. The y-axis represents concentration from 0.000 to 0.300. The legend indicates the dates: 06/15/02 (blue), 10/19/02 (dark red), 01/04/03 (yellow), 04/17/03 (light blue), 06/20/03 (purple), 10/30/03 (orange), 01/23/04 (dark blue), and 10/01/04 (light purple).

Compound	06/15/02	10/19/02	01/04/03	04/17/03	06/20/03	10/30/03	01/23/04	10/01/04
Benzene	0.005	0.015	0.002	0.001	0.001	0.001	0.001	0.001
Toluene	0.002	0.010	0.001	0.001	0.001	0.001	0.001	0.001
Ethylbenzene	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001
m,p Xylene	0.001	0.120	0.005	0.001	0.001	0.001	0.001	0.001
o Xylene	0.001	0.045	0.005	0.001	0.001	0.001	0.001	0.001
Total Xylene	0.002	0.165	0.010	0.002	0.002	0.002	0.002	0.002
Total BTEX	0.008	0.250	0.020	0.004	0.004	0.004	0.004	0.004

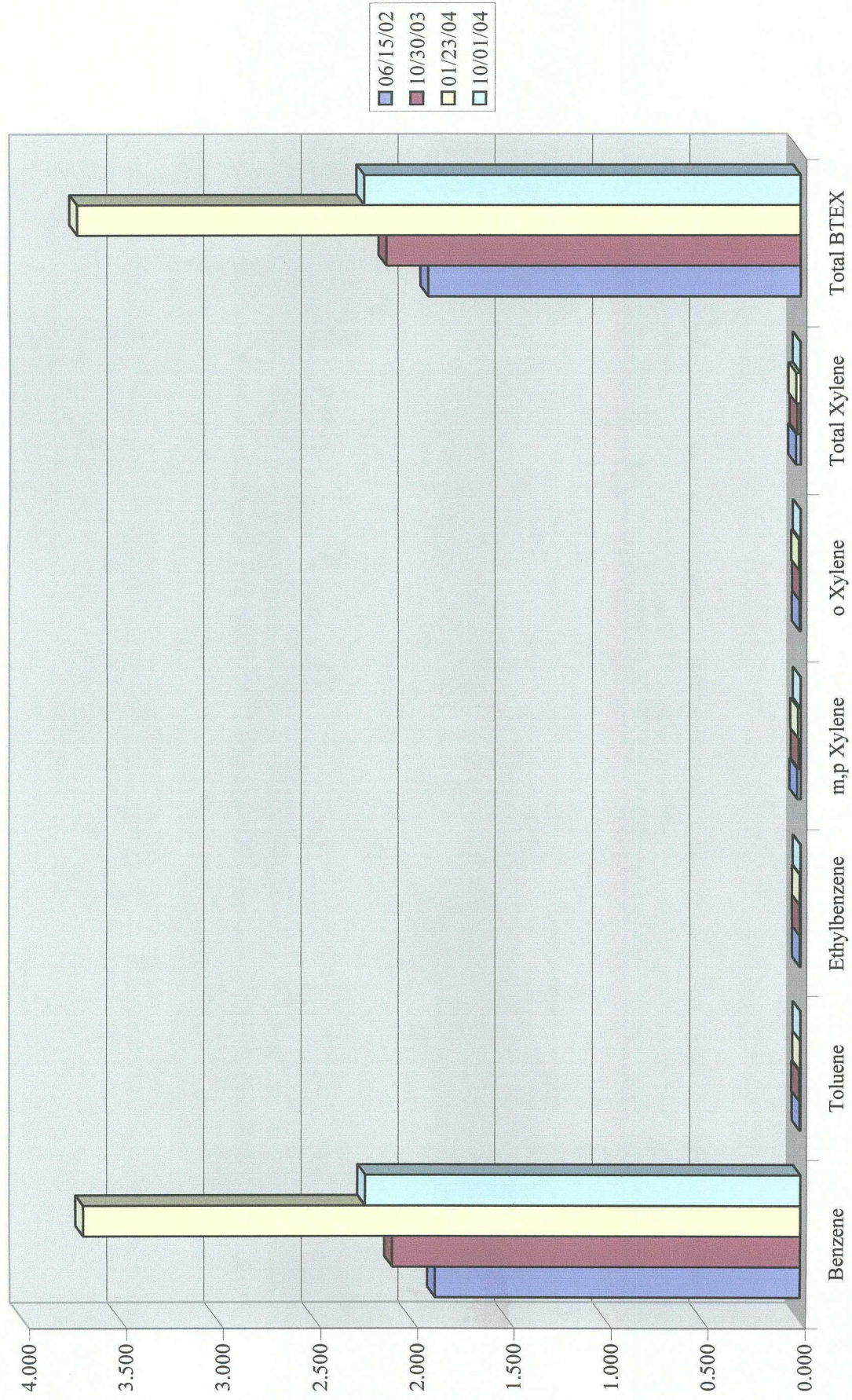




**Bell State  
MW-6**

<b>Lab. #</b>	<b>Sample Date</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethylbenzene</b>	<b>m,p Xylene</b>	<b>o Xylene</b>	<b>Total Xylene</b>	<b>Total BTEX</b>
<b>0203602-09</b>	<b>06/15/02</b>	<b>1.880</b>	<b>0.005</b>	<b>0.005</b>	<b>0.018</b>	<b>0.007</b>	<b>0.025</b>	<b>1.915</b>
<b>0307790-06</b>	<b>10/30/03</b>	<b>2.100</b>	<b>0.008</b>	<b>0.005</b>	<b>0.012</b>	<b>0.005</b>	<b>0.017</b>	<b>2.130</b>
<b>4A26007-06</b>	<b>01/23/04</b>	<b>3.690</b>	<b>0.003</b>	<b>0.006</b>	<b>0.015</b>	<b>0.009</b>	<b>0.024</b>	<b>3.723</b>
<b>4J04003-06</b>	<b>10/01/04</b>	<b>2.240</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.002</b>	<b>2.244</b>

Bell MW #6





12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Bell

Project Number: None Given

Location: None Given

Lab Order Number: 4J04003

Report Date: 10/15/04

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

**Reported:**  
10/15/04 16:48

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4J04003-01	Water	10/01/04 00:00	10/03/04 13:00
MW-2	4J04003-02	Water	10/01/04 00:00	10/03/04 13:00
MW-3	4J04003-03	Water	10/01/04 00:00	10/03/04 13:00
MW-4	4J04003-04	Water	10/01/04 00:00	10/03/04 13:00
MW-5	4J04003-05	Water	10/01/04 00:00	10/03/04 13:00
MW-6	4J04003-06	Water	10/01/04 00:00	10/03/04 13:00

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4J04003-01) Water</b>									
<b>Benzene</b>	<b>0.00897</b>	0.00100	mg/L	1	EJ40716	10/06/04	10/07/04	EPA 8021B	
<b>Toluene</b>	<b>0.00722</b>	0.00100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.00432</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (p/m)</b>	<b>0.00122</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.6 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.4 %	80-120	"	"	"	"	"	
<b>MW-2 (4J04003-02) Water</b>									
<b>Benzene</b>	<b>ND</b>	0.00100	mg/L	1	EJ40716	10/06/04	10/07/04	EPA 8021B	
<b>Toluene</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (p/m)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		82.5 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.9 %	80-120	"	"	"	"	"	
<b>MW-3 (4J04003-03) Water</b>									
<b>Benzene</b>	<b>0.0706</b>	0.00100	mg/L	1	EJ40716	10/06/04	10/07/04	EPA 8021B	
<b>Toluene</b>	<b>0.00378</b>	0.00100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.00146</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (p/m)</b>	<b>0.00533</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		147 %	80-120	"	"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		87.0 %	80-120	"	"	"	"	"	
<b>MW-4 (4J04003-04) Water</b>									
<b>Benzene</b>	<b>0.00276</b>	0.00100	mg/L	1	EJ40716	10/06/04	10/08/04	EPA 8021B	
<b>Toluene</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (p/m)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.2 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 12

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (4J04003-05) Water</b>									
Benzene	ND	0.00100	mg/L	1	EJ40716	10/06/04	10/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		90.0 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		86.1 %	80-120		"	"	"	"	
<b>MW-6 (4J04003-06) Water</b>									
<b>Benzene</b>	<b>2.24</b>	0.00500	mg/L	5	EJ40716	10/06/04	10/08/04	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		143 %	80-120		"	"	"	"	S-04
Surrogate: <i>4</i> -Bromofluorobenzene		102 %	80-120		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
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Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4J04003-01) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	312	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	603	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
Sulfate	225	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
<b>MW-2 (4J04003-02) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	296	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	567	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
Sulfate	250	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
<b>MW-3 (4J04003-03) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	260	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	177	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
Sulfate	12.9	0.500	"	"	EJ40703	10/05/04	10/05/04	EPA 375.4	
<b>MW-4 (4J04003-04) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	156	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	851	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
Sulfate	262	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
<b>MW-5 (4J04003-05) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	128	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	354	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
Sulfate	282	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (4J04003-06) Water</b>									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40901	10/05/04	10/05/04	EPA 310.2M	O-04
<b>Bicarbonate Alkalinity</b>	<b>540</b>	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
<b>Chloride</b>	<b>319</b>	5.00	"	1	EJ40906	10/09/04	10/09/04	EPA 325.3M	
<b>Sulfate</b>	<b>161</b>	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	



WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (4J04003-01) Water</b>									
Calcium	38.6	0.100	mg/L	10	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	4.30	0.0100	"	"	"	"	"	"	
Potassium	8.83	0.250	"	5	"	"	"	"	
Sodium	538	1.00	"	100	"	"	"	"	
<b>MW-2 (4J04003-02) Water</b>									
Calcium	251	1.00	mg/L	100	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	67.0	0.100	"	"	"	"	"	"	
Potassium	7.83	0.100	"	2	"	"	"	"	
Sodium	205	1.00	"	100	"	"	"	"	
<b>MW-3 (4J04003-03) Water</b>									
Calcium	93.0	1.00	mg/L	100	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	14.9	0.0100	"	10	"	"	"	"	
Potassium	9.56	0.500	"	"	"	"	"	"	
Sodium	75.7	1.00	"	100	"	"	"	"	
<b>MW-4 (4J04003-04) Water</b>									
Calcium	426	1.00	mg/L	100	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	46.8	0.0100	"	10	"	"	"	"	
Potassium	8.74	0.100	"	2	"	"	"	"	
Sodium	169	1.00	"	100	"	"	"	"	
<b>MW-5 (4J04003-05) Water</b>									
Calcium	280	1.00	mg/L	100	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	19.2	0.0100	"	10	"	"	"	"	
Potassium	17.0	0.250	"	5	"	"	"	"	
Sodium	118	1.00	"	100	"	"	"	"	
<b>MW-6 (4J04003-06) Water</b>									
Calcium	159	1.00	mg/L	100	EJ41304	10/11/04	10/11/04	EPA 6010B	
Magnesium	46.3	0.0100	"	10	"	"	"	"	
Potassium	7.11	0.250	"	5	"	"	"	"	
Sodium	187	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

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Page 6 of 12

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ40716 - EPA 5030C (GC)**

**Blank (EJ40716-BLK1)**

Prepared: 10/06/04 Analyzed: 10/07/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	81.8		ug/l	100		81.8	80-120			
Surrogate: 4-Bromofluorobenzene	88.0		"	100		88.0	80-120			

**LCS (EJ40716-BS1)**

Prepared: 10/06/04 Analyzed: 10/07/04

Benzene	83.8		ug/l	100		83.8	80-120			
Toluene	82.6		"	100		82.6	80-120			
Ethylbenzene	80.9		"	100		80.9	80-120			
Xylene (p/m)	179		"	200		89.5	80-120			
Xylene (o)	84.6		"	100		84.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

**Calibration Check (EJ40716-CCV1)**

Prepared: 10/05/04 Analyzed: 10/06/04

Benzene	83.1		ug/l	100		83.1	80-120			
Toluene	83.4		"	100		83.4	80-120			
Ethylbenzene	80.8		"	100		80.8	80-120			
Xylene (p/m)	167		"	200		83.5	80-120			
Xylene (o)	83.4		"	100		83.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

**Matrix Spike (EJ40716-MS1)**

Source: 4J05006-03

Prepared: 10/06/04 Analyzed: 10/07/04

Benzene	82.5		ug/l	100	ND	82.5	80-120			
Toluene	82.7		"	100	ND	82.7	80-120			
Ethylbenzene	80.8		"	100	ND	80.8	80-120			
Xylene (p/m)	168		"	200	ND	84.0	80-120			
Xylene (o)	82.5		"	100	ND	82.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	97.6		"	100		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ40716 - EPA 5030C (GC)**

**Matrix Spike Dup (EJ40716-MSD1)**

**Source: 4J05006-03**

**Prepared: 10/06/04 Analyzed: 10/07/04**

Benzene	83.3		ug/l	100	ND	83.3	80-120	0.965	20	
Toluene	83.8		"	100	ND	83.8	80-120	1.32	20	
Ethylbenzene	80.8		"	100	ND	80.8	80-120	0.00	20	
Xylene (p/m)	166		"	200	ND	83.0	80-120	1.20	20	
Xylene (o)	82.8		"	100	ND	82.8	80-120	0.363	20	
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

Environmental Lab of Texas

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Page 8 of 12

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ40703 - General Preparation (WetChem)**

**Blank (EJ40703-BLK1)**

Prepared & Analyzed: 10/05/04

Sulfate	ND	0.500	mg/L							
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**Calibration Check (EJ40703-CCV1)**

Prepared & Analyzed: 10/05/04

Sulfate	49.0		mg/L	50.0		98.0	80-120			
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**Duplicate (EJ40703-DUP1)**

Source: 4I28007-01

Prepared & Analyzed: 10/05/04

Sulfate	86.8	1.25	mg/L		89.0			2.50	20	
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**Batch EJ40901 - General Preparation (WetChem)**

**Blank (EJ40901-BLK1)**

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	ND	0.200	mg/L							
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Bicarbonate Alkalinity	ND	4.00	"							
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Hydroxide Alkalinity	ND	0.200	"							
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**Duplicate (EJ40901-DUP1)**

Source: 4J04003-01

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	0.00	0.200	mg/L		0.00				20	O-04
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Bicarbonate Alkalinity	310	4.00	"		312			0.643	20	O-04
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Hydroxide Alkalinity	0.00	0.200	"		0.00				20	O-04
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**Reference (EJ40901-SRM1)**

Prepared & Analyzed: 10/05/04

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
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**Batch EJ40906 - General Preparation (WetChem)**

**Blank (EJ40906-BLK1)**

Prepared & Analyzed: 10/09/04

Chloride	ND	5.00	mg/L							
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Environmental Lab of Texas

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WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EJ40906 - General Preparation (WetChem)</b>										
<b>Matrix Spike (EJ40906-MS1)</b>		<b>Source: 4J04003-01</b>		<b>Prepared &amp; Analyzed: 10/09/04</b>						
Chloride	1100	5.00	mg/L	500	603	99.4	80-120			
<b>Matrix Spike Dup (EJ40906-MSD1)</b>		<b>Source: 4J04003-01</b>		<b>Prepared &amp; Analyzed: 10/09/04</b>						
Chloride	1090	5.00	mg/L	500	603	97.4	80-120	0.913	20	
<b>Reference (EJ40906-SRM1)</b>		<b>Prepared &amp; Analyzed: 10/09/04</b>								
Chloride	4960		mg/L	5000		99.2	80-120			

WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

**Reported:**  
10/15/04 16:48

**Total Metals by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ41304 - 6010B/No Digestion**

**Blank (EJ41304-BLK1)**

Prepared & Analyzed: 10/11/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

**Calibration Check (EJ41304-CCV1)**

Prepared & Analyzed: 10/11/04

Calcium	2.14		mg/L	2.00		107	85-115			
Magnesium	2.16		"	2.00		108	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.82		"	2.00		91.0	85-115			

**Duplicate (EJ41304-DUP1)**

Source: 4J04003-01RE1

Prepared & Analyzed: 10/11/04

Calcium	367	1.00	mg/L		385			4.79	20	
Magnesium	48.7	0.0100	"		49.0			0.614	20	
Potassium	24.2	0.500	"		24.2			0.00	20	
Sodium	654	10.0	"		679			3.75	20	

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WHOLE EARTH ENVIRONMENTAL  
2103 Arbor Cove  
Katy TX, 77494

Project: Bell  
Project Number: None Given  
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:  
10/15/04 16:48

### Notes and Definitions

S-04      The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

O-04      This sample was analyzed outside the EPA recommended holding time.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

LCS      Laboratory Control Spike

MS      Matrix Spike

Dup      Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

10/15/04

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
James L. Hawkins, Chemist/Geologist  
Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas

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