

1R - 268

**ANNUAL
MONITORING
REPORT**

4/05/2005



Tipperary
CORPORATION

633 Seventeenth Street
Suite 1550
Denver, Colorado 80202-3622

RECEIVED

APR 06 2005

April 5, 2005

VIA OVERNIGHT MAIL

Oil Conservation Division
Environmental Bureau

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

264

265

269

261

262

267

268 ✓

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 NMOCD 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.

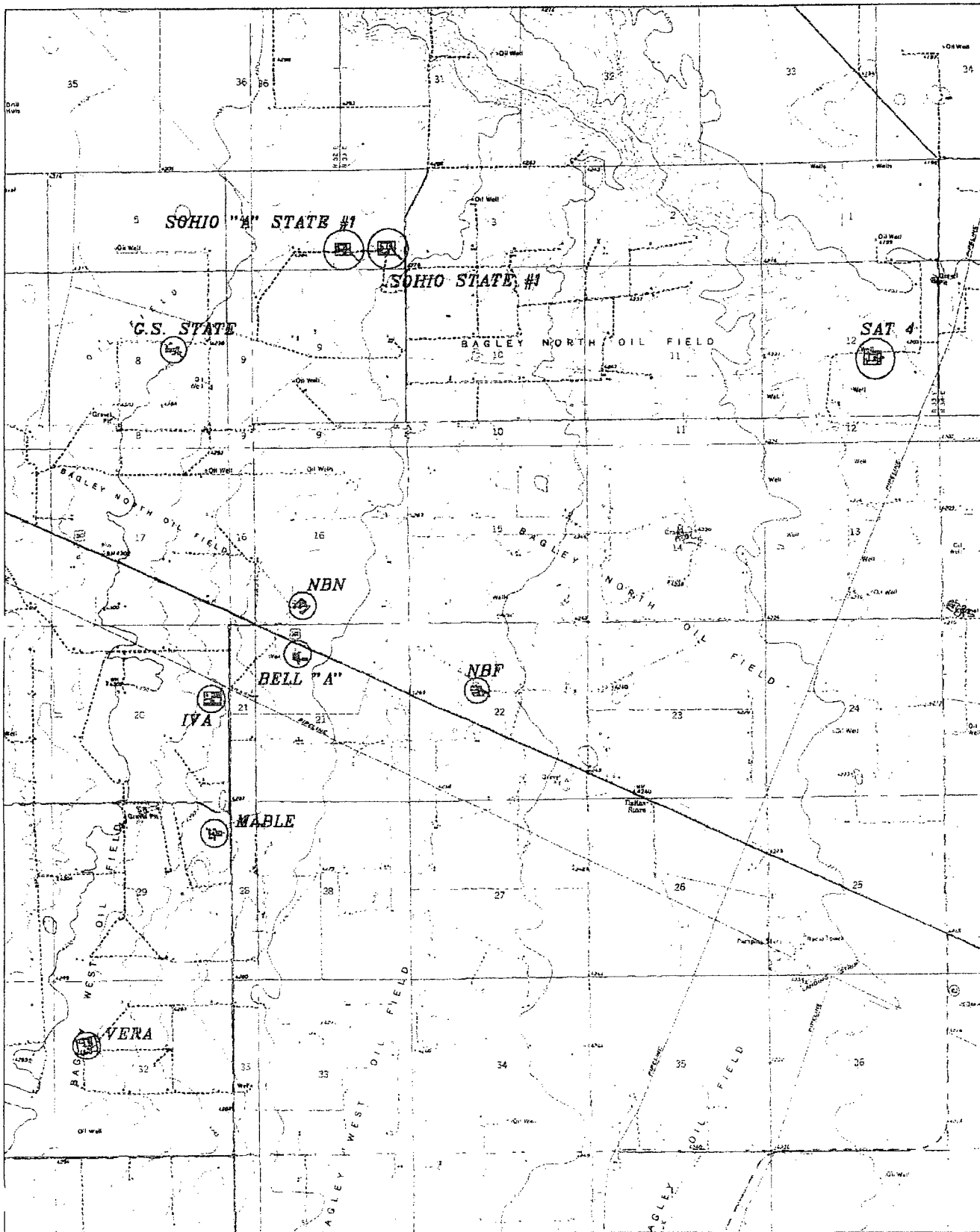
The submersible pump is thoroughly decontaminated between each well by spraying the exterior with detergent followed by a clear water rinse; the inside of the pump and hose assembly is cleaned by pumping a minimum volume of five gallons of Alquinox through the system between each well.

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**

**Sohio State A
Section 40-T11S-R33E**

IRP 268

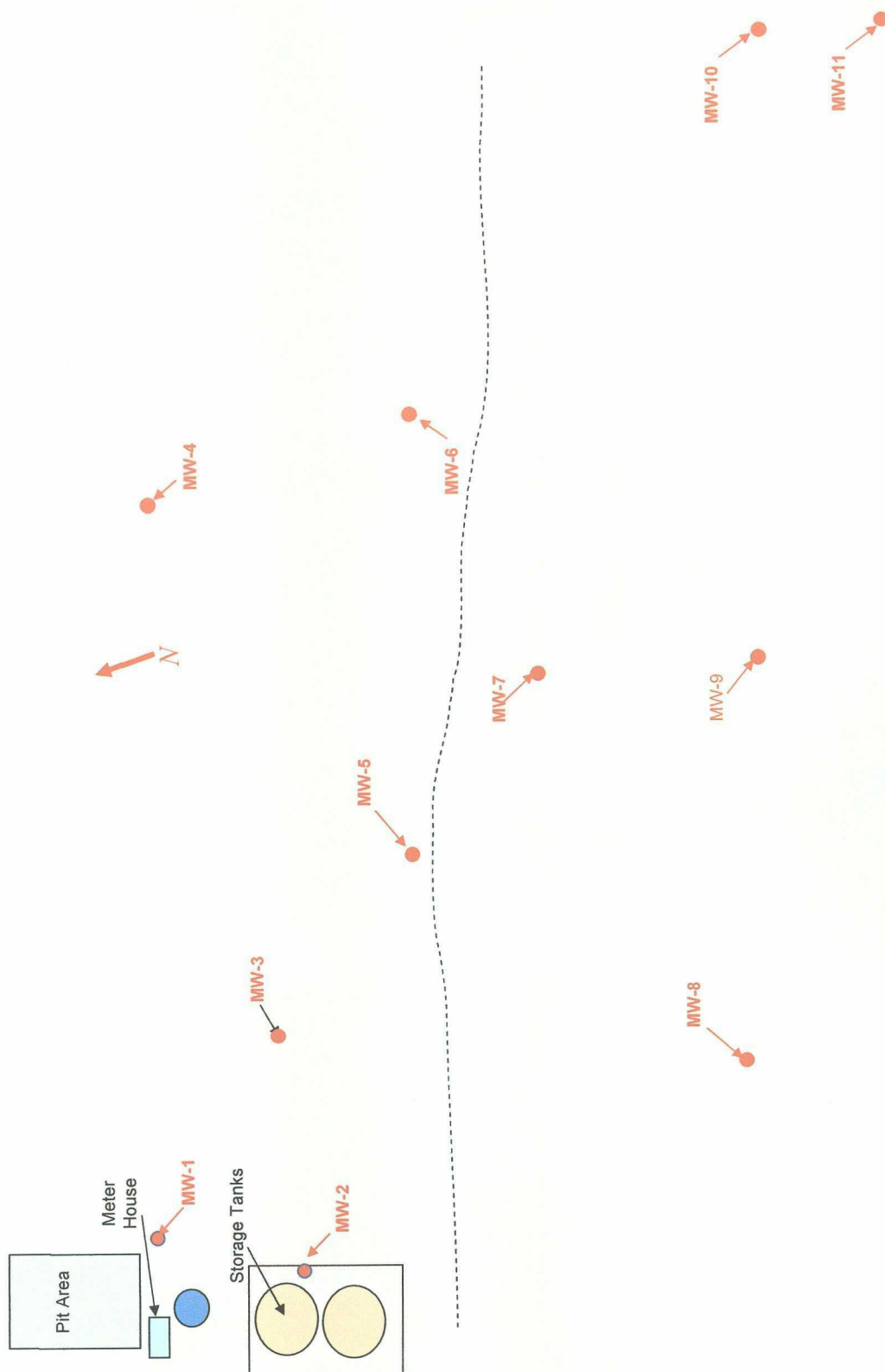
The Sohio A site consists of eleven monitor wells. Monitor Well No. 1 showed a dramatic decline in BTEX concentrations over the previous readings while Monitor Well No. 2 declined in all but benzene. Monitor Well No. 3 shows declining concentrations. All other monitor wells show acceptable results.

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

Please find the following data:

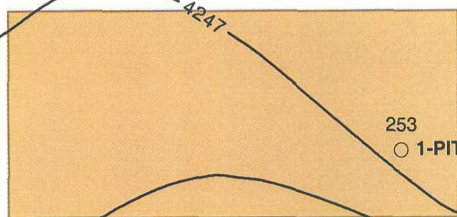
- Well-site plat with monitor well locations.
- Ground water potentiometric map for each sampling event with direction and magnitude of the hydraulic gradient.
- Well bailing log for each well.
- Summary table and chart of ground water quality results for each well.
- Copy of the recent laboratory results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

Tipperary Corporation
Sohio A
Monitor Well Locations





Sohio A State 1



253
○ 1-PIT

254
○ 1
4,246.98

255
○ 3
4,246.17

294
○ 4
4,245.56

295
○ 6
4,244.11

256
○ 5
4,246.01

257
○ 7
4,244.44

296
○ 8
4,244.14

017
○ 9

Heater



Storage Tanks

Pump Jack

Tipperary Oil & Gas Corp.

North Bagley Field Pit Closure

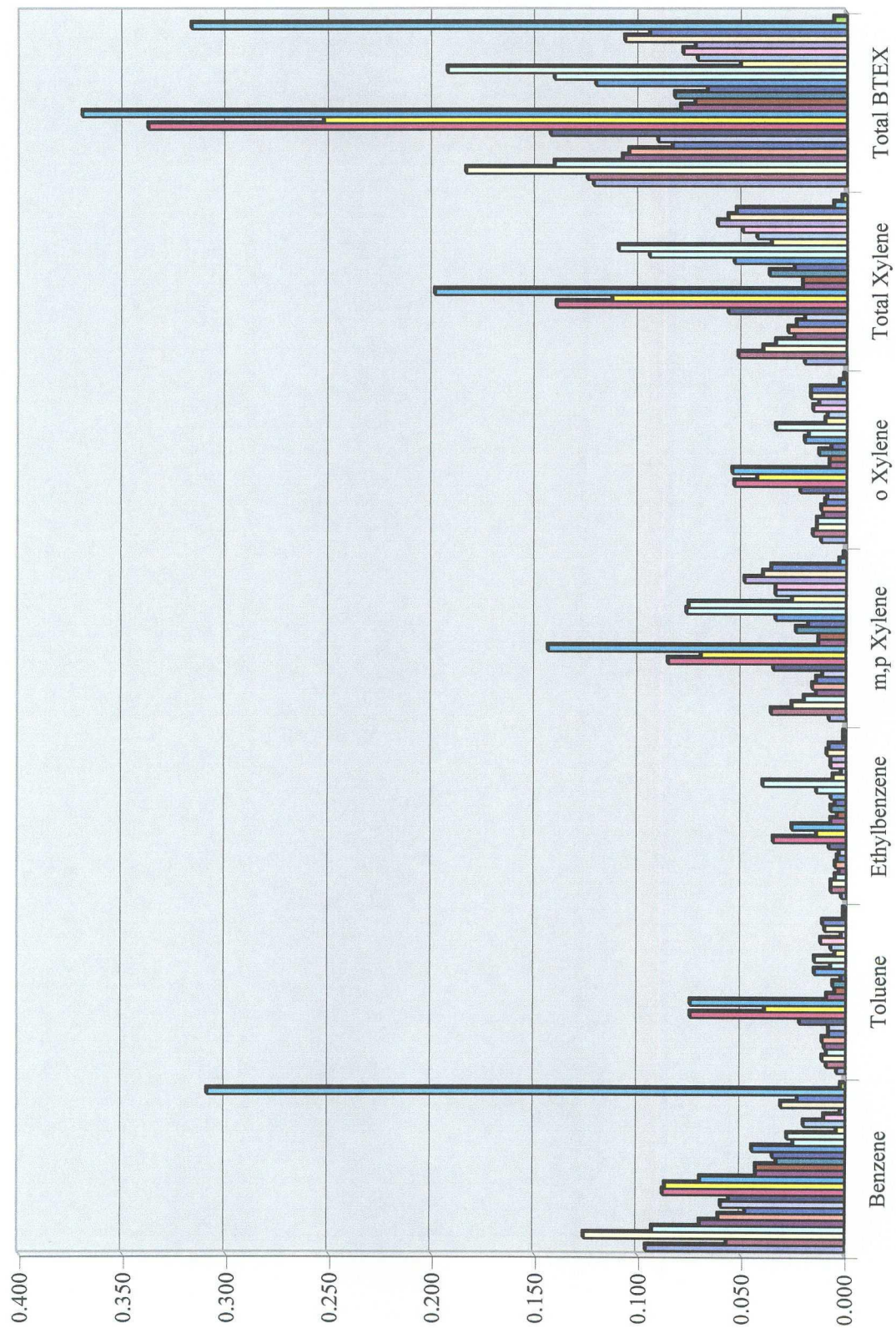
Sohio A St 1 - 4thQtr 2004 Water Level

Grad= 20 ft./mi. @ 140° Az.



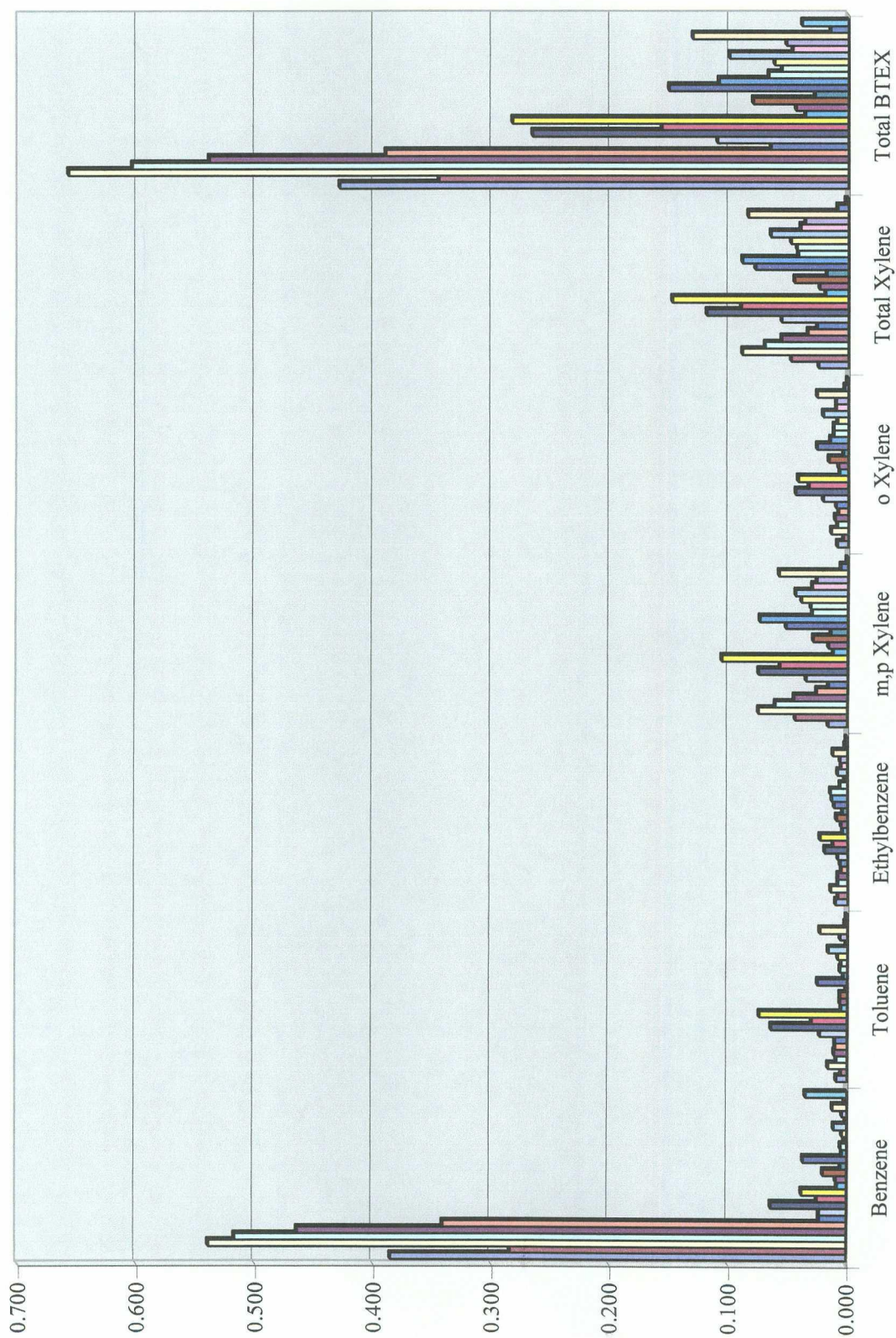
Monitor Well # 1
Sohio State "A"
Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12484	09/05/97	0.096	0.004	0.002	0.008	0.012	0.020	0.122
13132	12/03/97	0.057	0.009	0.007	0.036	0.016	0.052	0.125
14067	03/23/98	0.126	0.011	0.007	0.026	0.014	0.040	0.184
14666	06/25/98	0.093	0.009	0.005	0.020	0.014	0.034	0.141
15598	10/01/98	0.070	0.010	0.003	0.014	0.011	0.025	0.108
16605	01/06/99	0.061	0.011	0.005	0.016	0.012	0.028	0.105
17441	04/01/99	0.048	0.008	0.004	0.014	0.010	0.024	0.084
18596	07/14/99	0.060	0.008	0.003	0.011	0.009	0.020	0.091
20602	10/06/99	0.056	0.022	0.008	0.035	0.022	0.057	0.143
22763	01/08/00	0.088	0.075	0.035	0.086	0.054	0.140	0.338
25151	04/13/00	0.087	0.039	0.014	0.070	0.043	0.113	0.253
28422	07/20/00	0.070	0.075	0.026	0.144	0.055	0.199	0.370
31513	09/26/00	0.043	0.009	0.007	0.013	0.008	0.021	0.080
36142	01/05/01	0.043	0.005	0.004	0.013	0.008	0.021	0.073
38936	04/05/01	0.033	0.006	0.007	0.024	0.013	0.037	0.083
0101098-20	07/07/01	0.035	0.002	0.005	0.018	0.007	0.025	0.067
0101642-20	09/26/01	0.045	0.015	0.007	0.034	0.020	0.054	0.121
0101642-20	02/15/02	0.025	0.007	0.014	0.077	0.018	0.095	0.141
0203001-20	03/30/02	0.028	0.015	0.040	0.076	0.034	0.110	0.193
02033602-21	06/15/02	0.004	0.005	0.006	0.026	0.010	0.036	0.051
0204815-24	10/29/02	0.020	0.007	0.002	0.034	0.009	0.043	0.072
0205349-23	01/04/03	0.010	0.012	0.007	0.034	0.016	0.050	0.079
0306249-24	04/17/03	0.002	0.002	0.007	0.049	0.013	0.062	0.073
0306733-07	06/18/03	0.031	0.010	0.009	0.040	0.017	0.057	0.107
0307790-41	10/30/03	0.023	0.011	0.008	0.036	0.017	0.053	0.095
4A26011-01	01/24/04	0.309	0.001	0.001	0.003	0.003	0.006	0.317
4J04012-01	10/01/04	0.002	0.001	0.001	0.001	0.001	0.002	0.006



**Monitor Well # 2
Sohio State "A"
Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12726	10/02/97	0.385	0.009	0.010	0.016	0.009	0.025	0.429
13190	12/03/97	0.284	0.005	0.008	0.044	0.004	0.048	0.345
14054	03/23/98	0.539	0.016	0.014	0.075	0.014	0.089	0.658
14674	06/25/98	0.517	0.009	0.008	0.061	0.009	0.070	0.604
15610	10/01/98	0.464	0.011	0.008	0.045	0.011	0.056	0.539
16590	01/06/99	0.341	0.010	0.005	0.026	0.008	0.034	0.390
18609	07/14/99	0.023	0.010	0.006	0.016	0.010	0.026	0.065
20620	10/06/99	0.023	0.023	0.008	0.035	0.021	0.056	0.110
22769	01/08/00	0.064	0.064	0.019	0.075	0.044	0.119	0.266
25160	04/18/00	0.025	0.030	0.012	0.057	0.033	0.090	0.157
28449	07/20/00	0.038	0.074	0.023	0.106	0.042	0.148	0.283
31515	09/26/00	0.008	0.005	0.004	0.012	0.007	0.019	0.036
36148	01/05/01	0.009	0.006	0.005	0.016	0.008	0.024	0.044
38938	04/05/01	0.020	0.006	0.009	0.029	0.016	0.045	0.080
0101098-22	07/07/01	0.005	0.001	0.004	0.014	0.004	0.018	0.028
0101642-22	09/26/01	0.037	0.025	0.011	0.052	0.026	0.078	0.151
0202619-22	02/15/02	0.004	0.003	0.013	0.074	0.015	0.089	0.109
0203001-22	04/09/02	0.005	0.006	0.014	0.030	0.012	0.042	0.067
0203602-23	06/16/02	0.002	0.005	0.006	0.031	0.012	0.043	0.056
0204815-26	10/29/02	0.004	0.008	0.002	0.039	0.009	0.048	0.062
0205349-25	01/04/03	0.011	0.016	0.008	0.044	0.021	0.065	0.100
0306249-26	04/17/03	0.001	0.001	0.005	0.030	0.010	0.040	0.047
0306733-08	06/19/03	0.004	0.006	0.006	0.026	0.010	0.036	0.052
0307790-42	10/30/03	0.012	0.023	0.012	0.058	0.026	0.084	0.131
4A26011-02	01/24/04	0.002	0.002	0.002	0.006	0.003	0.009	0.015
4J04012-02	10/01/04	0.035	0.001	0.001	0.001	0.001	0.002	0.039



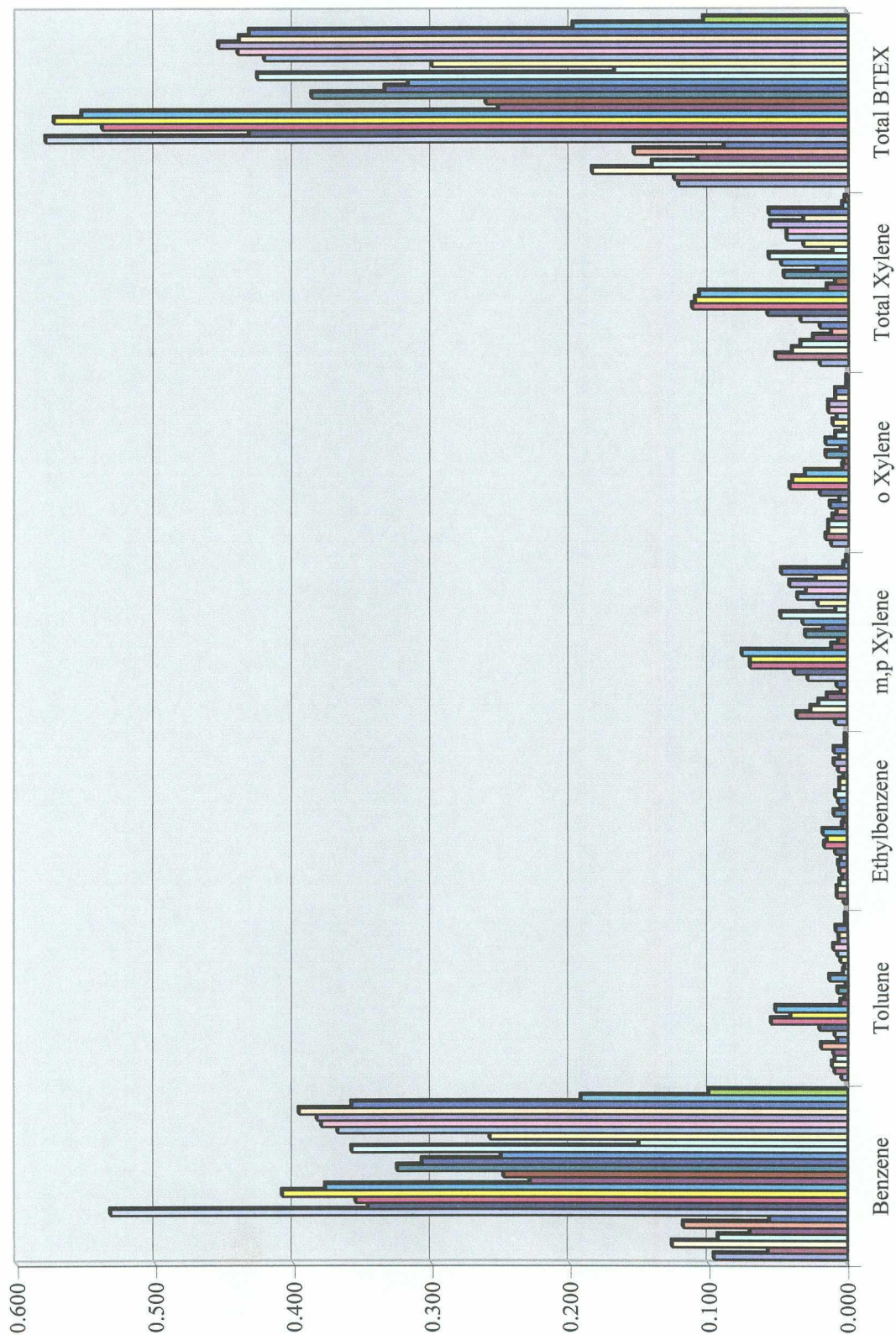
**Monitor Well # 3
Sohio State "A"
Sampling Results**

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
12484	09/05/97	0.096	0.004	0.002	0.008	0.012	0.020	0.122
13132	12/03/97	0.057	0.009	0.007	0.036	0.016	0.052	0.125
14067	03/23/98	0.126	0.011	0.007	0.026	0.014	0.040	0.184
14666	06/25/98	0.093	0.009	0.005	0.020	0.014	0.034	0.141
15598	10/01/98	0.070	0.010	0.003	0.014	0.011	0.025	0.108
16605	01/06/99	0.118	0.019	0.005	0.004	0.008	0.012	0.154
17441	04/01/99	0.056	0.007	0.006	0.007	0.013	0.020	0.089
18596	07/14/99	0.532	0.009	0.004	0.028	0.006	0.034	0.579
20602	10/06/99	0.346	0.020	0.008	0.038	0.020	0.058	0.432
22763	01/08/00	0.355	0.055	0.016	0.070	0.042	0.112	0.538
25151	04/18/00	0.408	0.041	0.014	0.070	0.040	0.110	0.573
28422	07/20/00	0.377	0.052	0.017	0.076	0.031	0.107	0.553
31513	09/26/00	0.229	0.005	0.003	0.011	0.004	0.015	0.252
36142	01/05/01	0.248	0.002	0.002	0.006	0.003	0.009	0.261
38937	04/05/01	0.325	0.007	0.009	0.030	0.016	0.046	0.387
0101098-21	07/07/01	0.307	0.001	0.004	0.017	0.005	0.022	0.334
0101642-21	09/26/01	0.250	0.013	0.006	0.032	0.016	0.048	0.317
0202619-21	02/15/02	0.358	0.003	0.008	0.048	0.009	0.057	0.426
0203001-21	04/09/02	0.150	0.002	0.005	0.008	0.003	0.011	0.168
0203602-22	06/16/02	0.258	0.005	0.005	0.021	0.011	0.032	0.300
0204815-25	10/29/02	0.368	0.007	0.002	0.036	0.008	0.044	0.421
0205349-24	01/04/03	0.380	0.010	0.006	0.030	0.014	0.044	0.440
0306249-25	04/17/03	0.383	0.006	0.009	0.042	0.014	0.056	0.454
0306733-09	06/20/03	0.396	0.006	0.005	0.023	0.009	0.032	0.439
0307790-43	10/30/03	0.358	0.008	0.009	0.048	0.009	0.057	0.432
4A26011-03	01/24/04	0.192	0.001	0.001	0.003	0.001	0.004	0.198
4J04012-03	10/01/04	0.100	0.001	0.001	0.001	0.001	0.002	0.104

0.600
0.500
0.400
0.300
0.200
0.100
0.000

Benzene Toluene Ethylbenzene m,p Xylene o Xylene Total Xylene Total BTEX

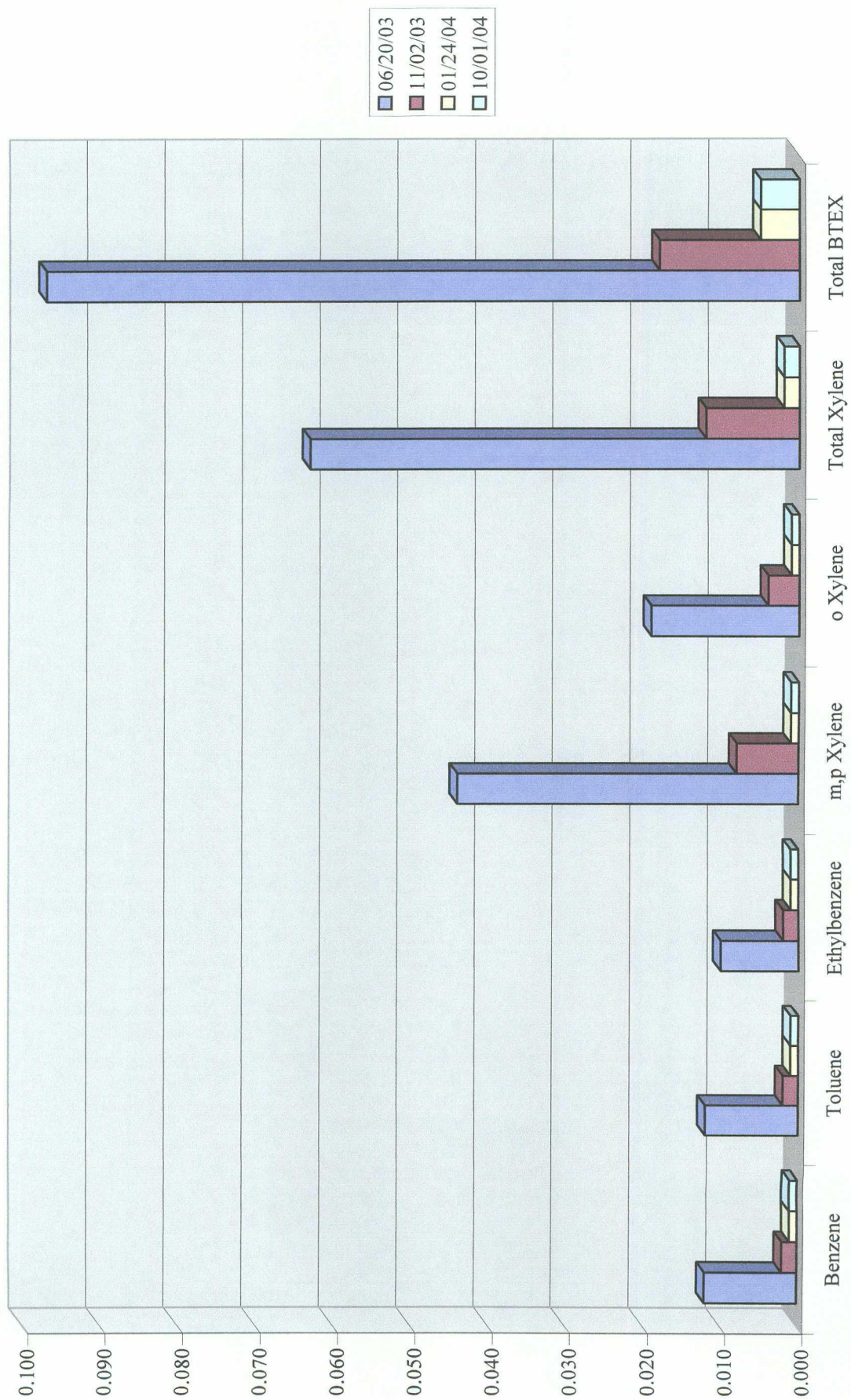
09/05/97
12/03/97
03/23/98
06/25/98
10/01/98
01/06/99
04/01/99
07/14/99
10/06/99
01/08/00
04/18/00
07/20/00
09/26/00
01/05/01
04/05/01
07/07/01
09/26/01
02/15/02
04/09/02
06/16/02
10/29/02
01/04/03
04/17/03
06/20/03
10/30/03
01/24/04
10/01/04



Sampling Results

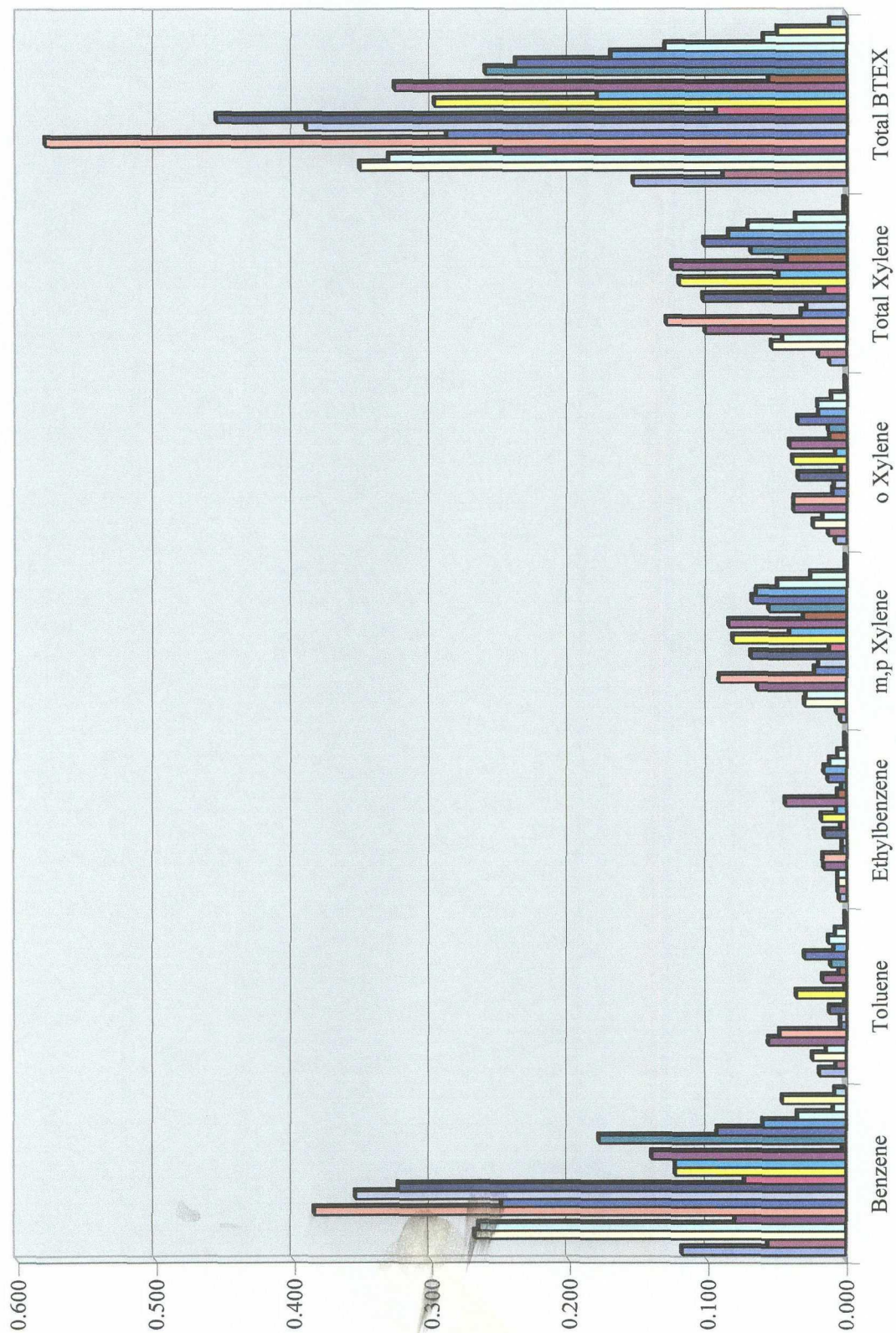
Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0306733-10	06/20/03	0.012	0.012	0.010	0.044	0.019	0.063	0.097
0307790-44	11/02/03	0.002	0.002	0.002	0.008	0.004	0.012	0.018
4A26011-04	01/24/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4J04012-04	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

Sohio A MW #4



**Monitor Well # 5
Sohio State "A"
Sampling Results**

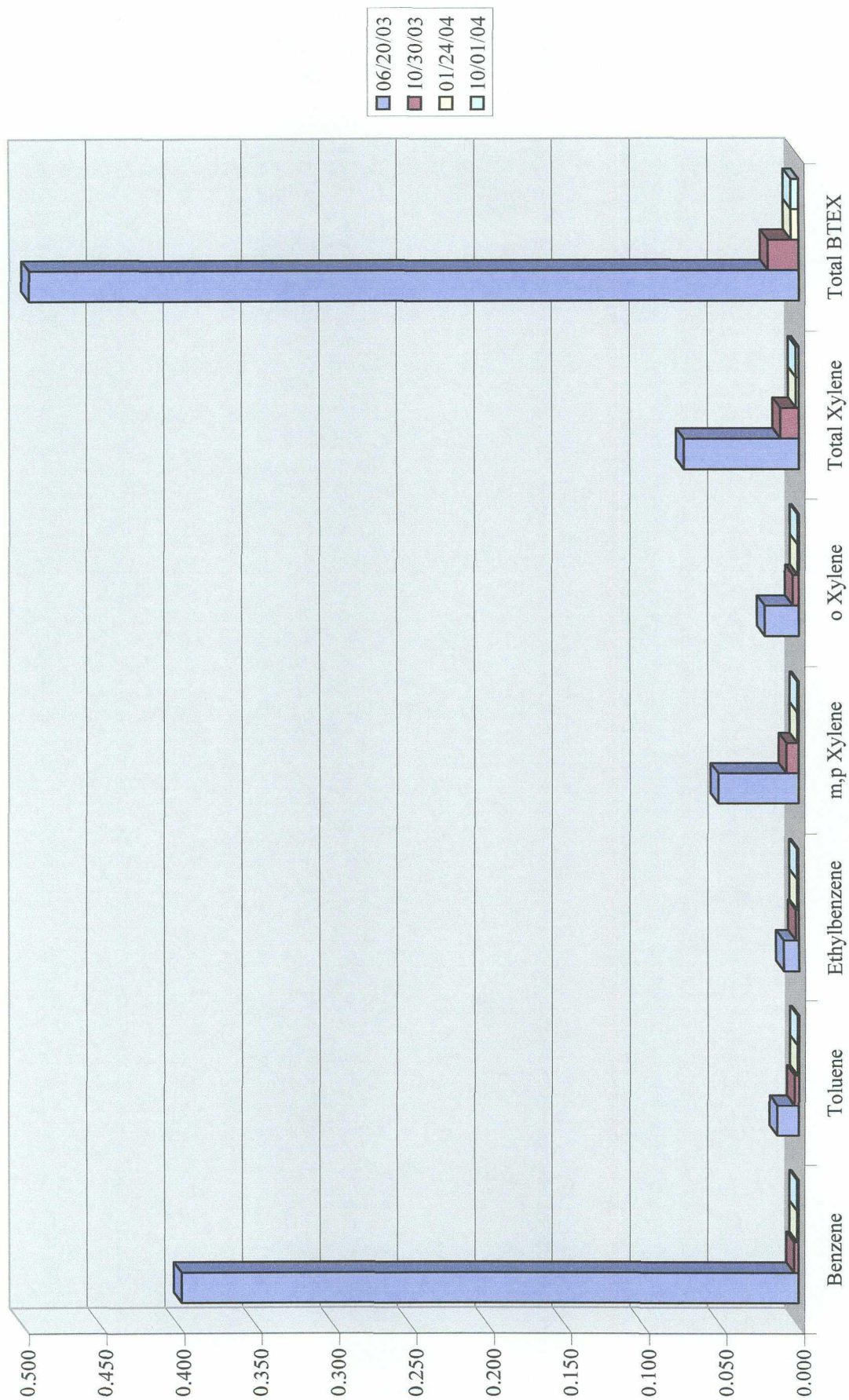
Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
17267	03/17/99	0.118	0.019	0.005	0.004	0.008	0.012	0.154
17444	04/01/99	0.056	0.007	0.006	0.007	0.013	0.020	0.089
18610	07/14/99	0.268	0.024	0.006	0.030	0.024	0.054	0.352
20621	10/06/99	0.265	0.014	0.006	0.029	0.017	0.046	0.331
22780	01/08/00	0.080	0.056	0.016	0.064	0.038	0.102	0.254
28456	07/20/00	0.385	0.048	0.017	0.092	0.038	0.130	0.580
31516	09/26/00	0.249	0.004	0.003	0.023	0.010	0.033	0.289
36153	01/05/01	0.355	0.004	0.003	0.020	0.009	0.029	0.391
38939	04/05/01	0.324	0.012	0.016	0.069	0.035	0.104	0.456
0101098-23	07/07/01	0.073	0.001	0.004	0.012	0.004	0.016	0.094
0101642-23	09/26/01	0.123	0.036	0.018	0.082	0.039	0.121	0.298
0202619-23	02/15/02	0.123	0.001	0.007	0.041	0.008	0.049	0.180
0203001-23	04/09/02	0.140	0.017	0.044	0.085	0.041	0.126	0.327
0203602-24	06/16/02	0.002	0.005	0.006	0.031	0.012	0.043	0.056
0204815-27	10/29/02	0.178	0.011	0.003	0.056	0.013	0.069	0.261
0205349-26	01/04/03	0.093	0.030	0.013	0.068	0.035	0.103	0.239
0306249-27	04/17/03	0.060	0.009	0.016	0.065	0.020	0.085	0.170
0306733-11	06/20/03	0.035	0.013	0.012	0.050	0.021	0.071	0.131
0307790-45	10/30/03	0.009	0.008	0.006	0.026	0.011	0.037	0.060
4A26011-05	01/24/04	0.046	0.001	0.001	0.001	0.001	0.002	0.050
4J04012-04	10/01/04	0.008	0.001	0.001	0.001	0.001	0.002	0.012

[illegible]

Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0306733-12	06/20/03	0.398	0.014	0.010	0.052	0.022	0.074	0.496
0307790-46	10/30/03	0.003	0.003	0.002	0.008	0.004	0.012	0.020
4A26011-06	01/24/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4J04012-06	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

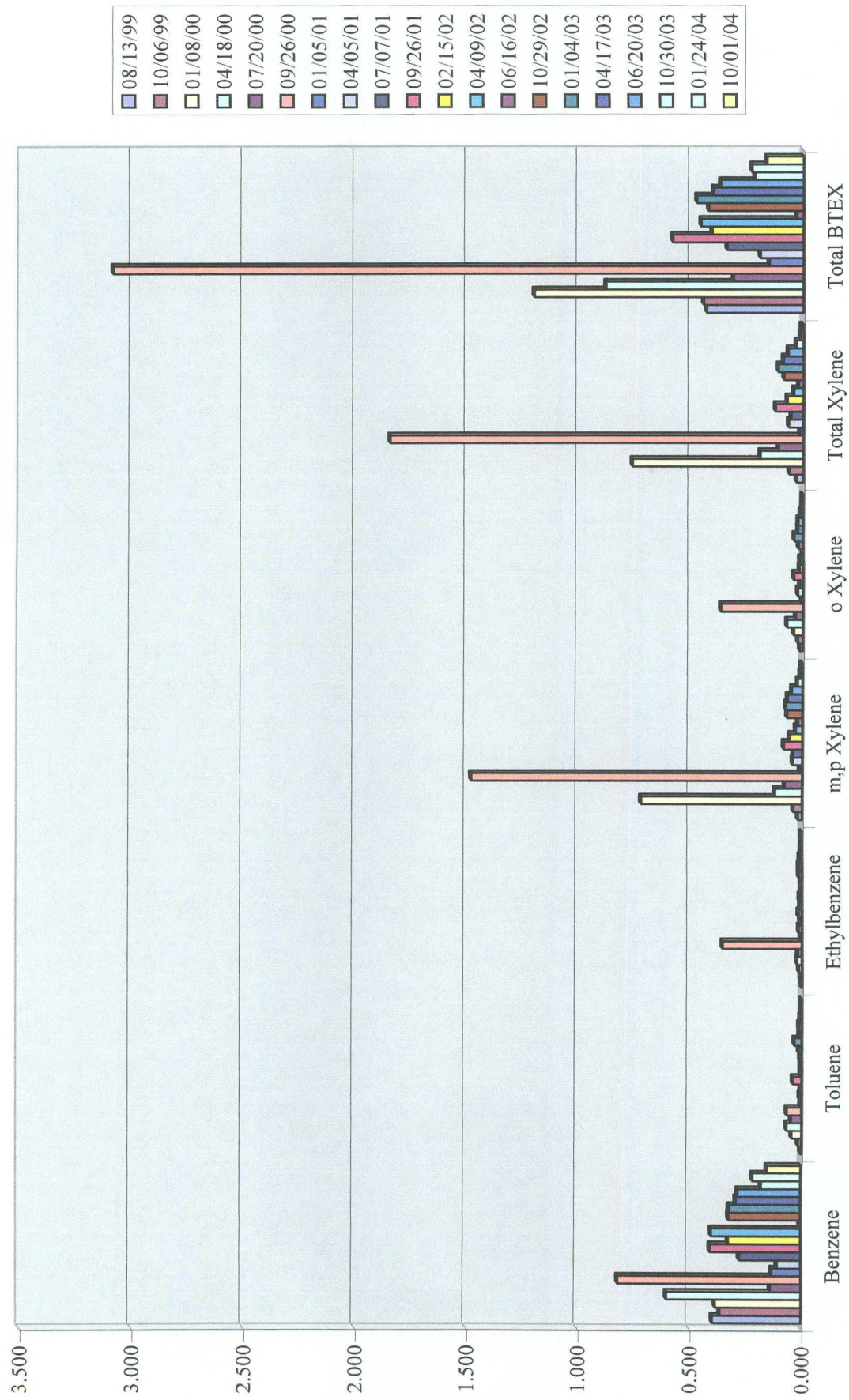
Sohio A MW #6



Monitor Well # 7
Sohio State "A"
Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
19166	08/13/99	0.396	0.004	0.001	0.017	0.012	0.029	0.430
20622	10/06/99	0.362	0.015	0.006	0.039	0.022	0.061	0.444
22787	01/08/00	0.383	0.044	0.013	0.720	0.040	0.760	1.200
25153	04/18/00	0.602	0.067	0.020	0.121	0.070	0.191	0.880
28460	07/20/00	0.137	0.046	0.017	0.078	0.032	0.110	0.310
31517	09/26/00	0.820	0.066	0.354	1.480	0.365	1.845	3.085
36162	01/05/01	0.130	0.004	0.003	0.010	0.005	0.015	0.152
38940	04/05/01	0.105	0.008	0.013	0.042	0.023	0.065	0.191
0101098-24	07/07/01	0.275	0.003	0.007	0.039	0.014	0.053	0.338
0101642-24	09/26/01	0.406	0.038	0.014	0.083	0.040	0.123	0.581
0202619-24	02/15/02	0.325	0.003	0.007	0.056	0.015	0.071	0.406
0203001-24	04/09/02	0.402	0.003	0.009	0.029	0.013	0.042	0.456
0203602-25	06/16/02	0.001	0.006	0.001	0.019	0.001	0.020	0.028
0204815-28	10/29/02	0.322	0.011	0.004	0.068	0.018	0.086	0.423
0205349-27	01/04/03	0.320	0.032	0.012	0.074	0.037	0.111	0.475
0306249-28	04/17/03	0.290	0.010	0.012	0.066	0.022	0.088	0.400
0306733-17	06/20/03	0.282	0.011	0.009	0.047	0.020	0.067	0.369
0307790-47	10/30/03	0.176	0.006	0.003	0.021	0.010	0.031	0.216
4A26011-07	01/24/04	0.215	0.001	0.001	0.009	0.004	0.013	0.230
4J04012-07	10/01/04	0.152	0.001	0.001	0.006	0.003	0.009	0.163

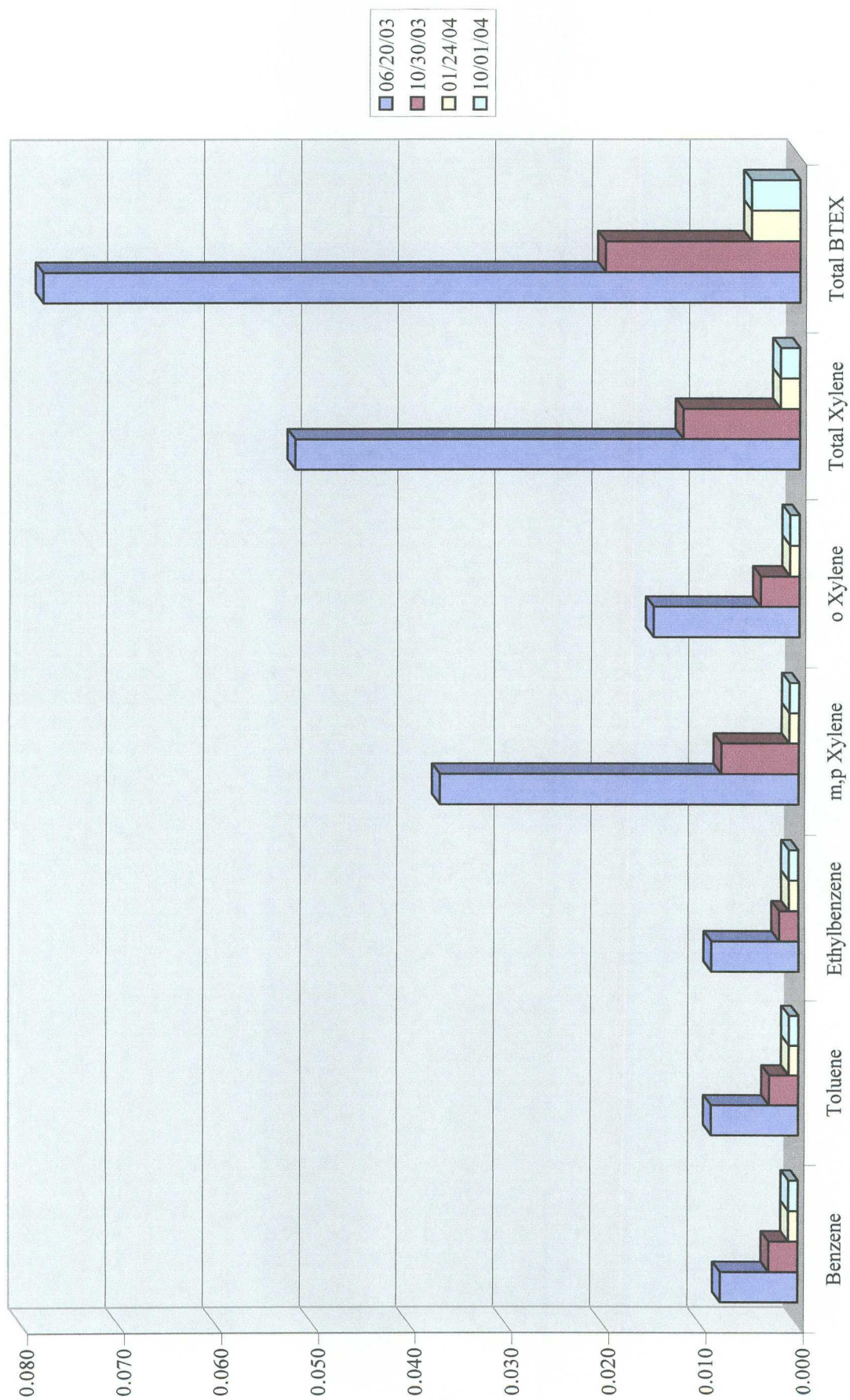
Sohio A MW #7



Monitor Well # 8 Sohio State "A" Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0306733-14	06/20/03	0.008	0.009	0.009	0.037	0.015	0.052	0.078
0307790-48	10/30/03	0.003	0.003	0.002	0.008	0.004	0.012	0.020
4A26011-08	01/24/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4J04012-08	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

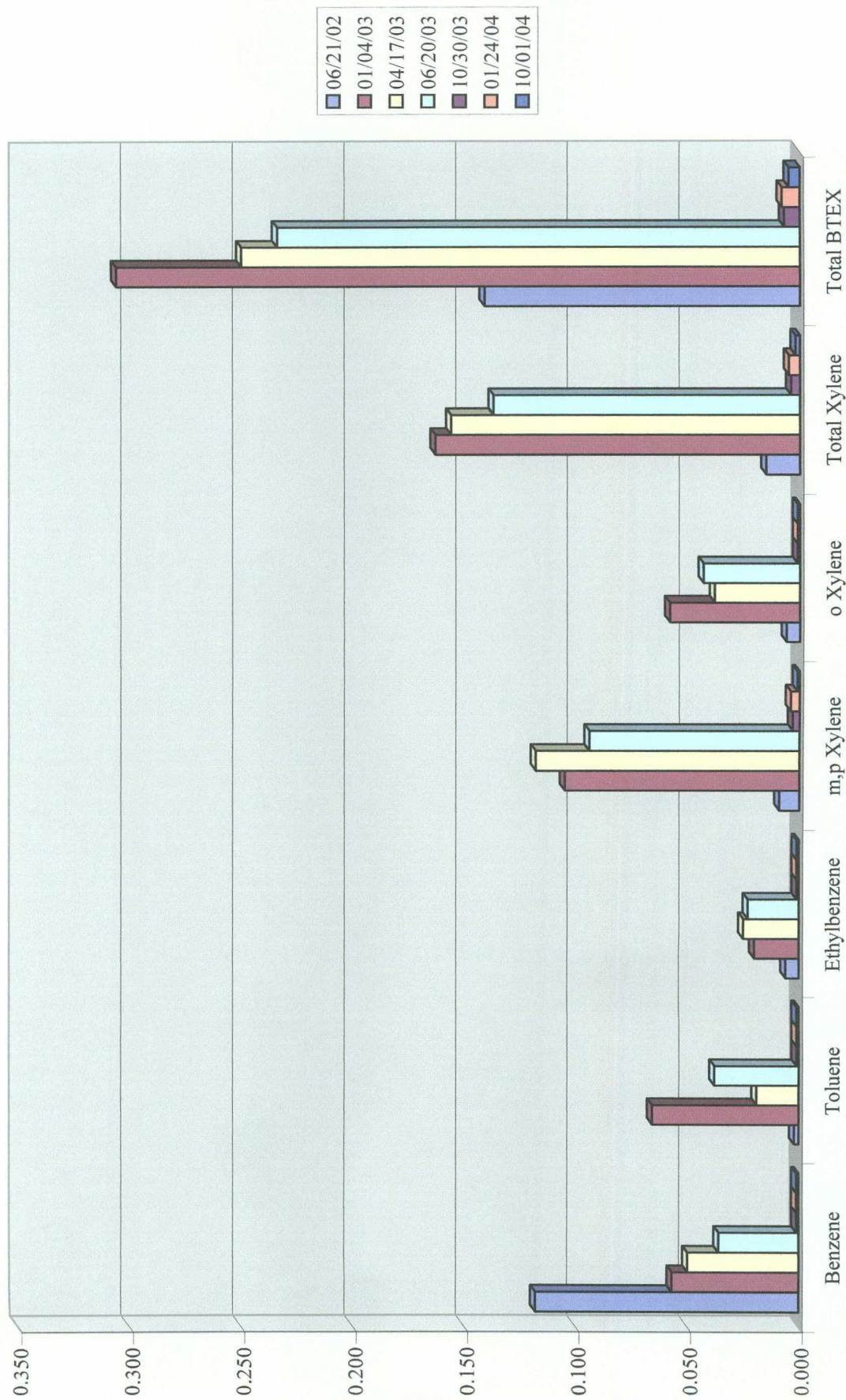
Sohio A MW #8



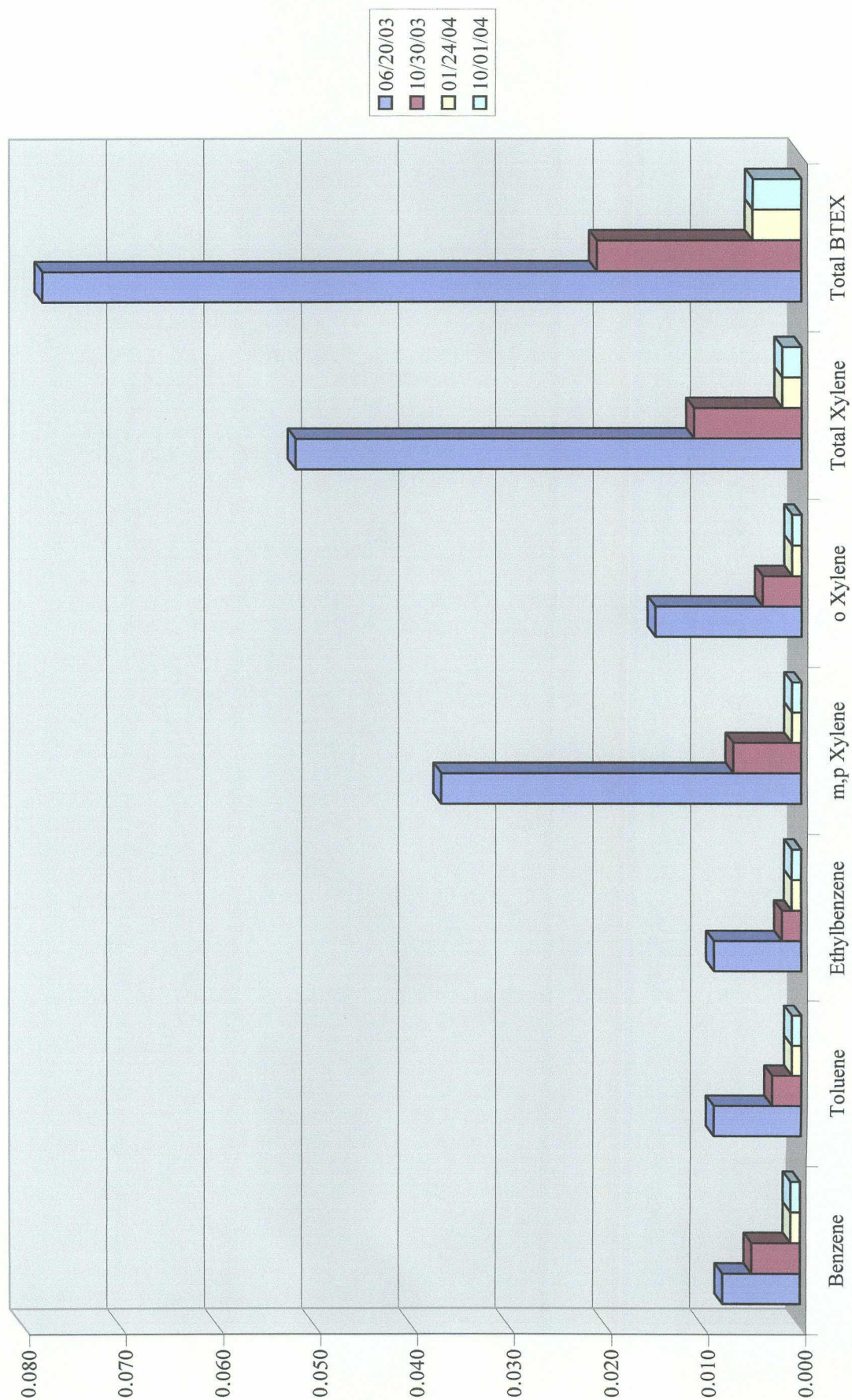
Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0203719-02	06/21/02	0.118	0.002	0.006	0.009	0.006	0.015	0.141
0205349-28	01/04/03	0.057	0.066	0.020	0.105	0.058	0.163	0.306
0306249-29	04/17/03	0.050	0.019	0.025	0.118	0.038	0.156	0.250
0306733-15	06/20/03	0.036	0.038	0.023	0.094	0.043	0.137	0.234
0307790-49	10/30/03	0.001	0.001	0.001	0.003	0.001	0.004	0.007
4A26011-09	01/24/04	0.001	0.001	0.001	0.004	0.001	0.005	0.008
4J04012-09	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

Sohio A MW #9



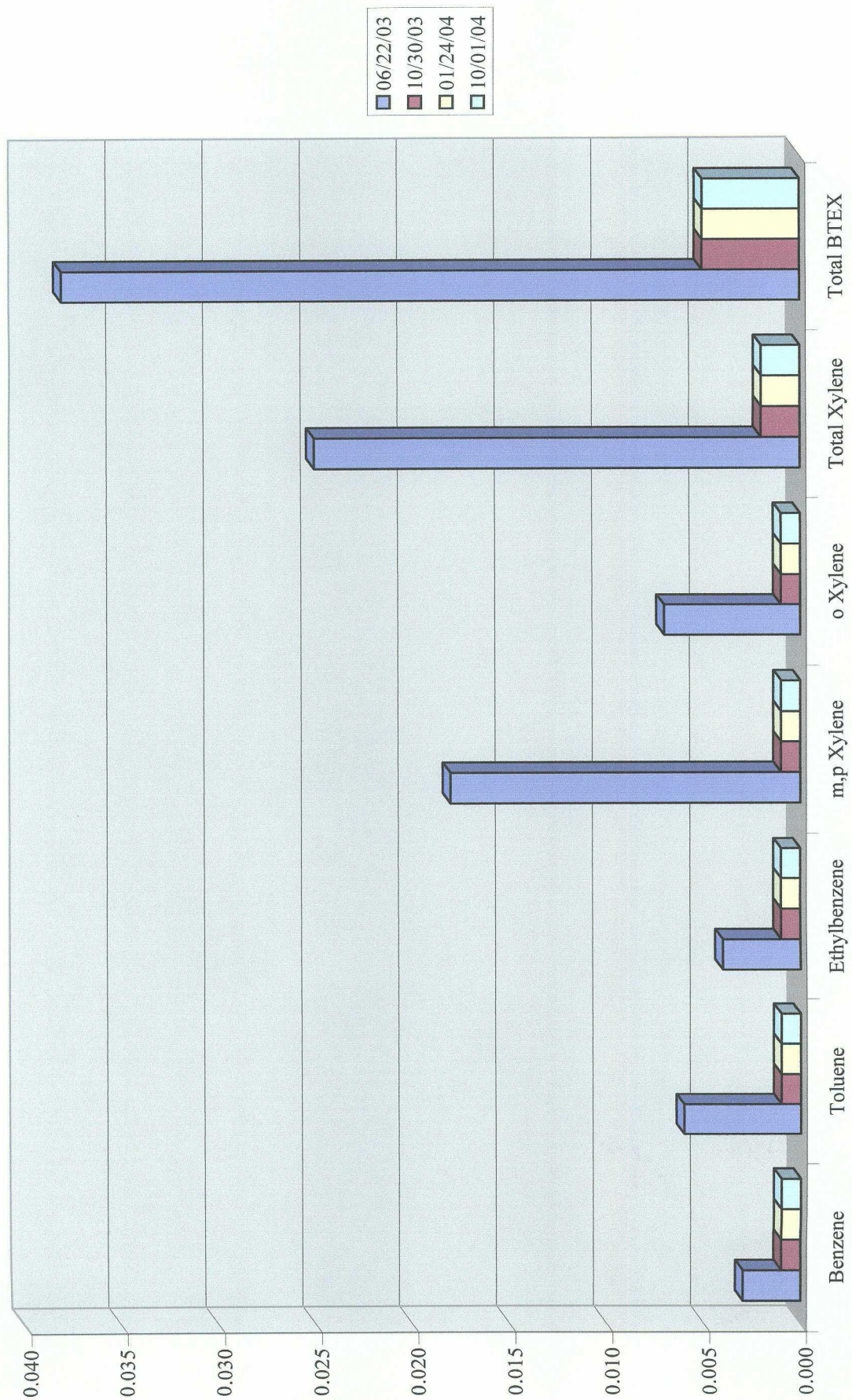
Sohio A MW #10



Monitor Well # 11 Sohio State "A" Sampling Results

Lab. #	Sample Date	Benzene	Toluene	Ethylbenzene	m,p Xylene	o Xylene	Total Xylene	Total BTEX
0306752-01	06/22/03	0.003	0.006	0.004	0.018	0.007	0.025	0.038
0307790-51	10/30/03	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4A26011-11	01/24/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005
4J04012-11	10/01/04	0.001	0.001	0.001	0.001	0.001	0.002	0.005

Sohioa MW #11





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Sohio A

Project Number: None Given

Location: None Given

Lab Order Number: 4J04012

Report Date: 10/17/04

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4J04012-01	Water	10/01/04 00:00	10/03/04 13:00
MW-2	4J04012-02	Water	10/01/04 00:00	10/03/04 13:00
MW-3	4J04012-03	Water	10/01/04 00:00	10/03/04 13:00
MW-4	4J04012-04	Water	10/01/04 00:00	10/03/04 13:00
MW-5	4J04012-05	Water	10/01/04 00:00	10/03/04 13:00
MW-6	4J04012-06	Water	10/01/04 00:00	10/03/04 13:00
MW-7	4J04012-07	Water	10/01/04 00:00	10/03/04 13:00
MW-8	4J04012-08	Water	10/01/04 00:00	10/03/04 13:00
MW-9	4J04012-09	Water	10/01/04 00:00	10/03/04 13:00
MW-10	4J04012-10	Water	10/01/04 00:00	10/03/04 13:00
MW-11	4J04012-11	Water	10/01/04 00:00	10/03/04 13:00

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04012-01) Water									
Benzene	0.00233	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000701]	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		109 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.0 %	80-120	"	"	"	"	"	
MW-2 (4J04012-02) Water									
Benzene	0.0352	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	I [0.000432]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000326]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00121	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000527]	0.00100	"	"	"	"	"	"	J
<i>Surrogate: a,a,a-Trifluorotoluene</i>		113 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	80-120	"	"	"	"	"	
MW-3 (4J04012-03) Water									
Benzene	0.0996	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	I [0.000676]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000171]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	I [0.000600]	0.00100	"	"	"	"	"	"	J
Xylene (o)	I [0.000241]	0.00100	"	"	"	"	"	"	J
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %	80-120	"	"	"	"	"	
MW-4 (4J04012-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		119 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.5 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (4J04012-05) Water									
Benzene	0.00856	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		110 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.5 %	80-120		"	"	"	"	
MW-6 (4J04012-06) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		119 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.0 %	80-120		"	"	"	"	
MW-7 (4J04012-07) Water									
Benzene	0.152	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	I [0.000921]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000257]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00625	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00265	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		119 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-120		"	"	"	"	
MW-8 (4J04012-08) Water									
Benzene	I [0.000639]	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	J
Toluene	I [0.000464]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000477]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00116	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000544]	0.00100	"	"	"	"	"	"	J
<i>Surrogate: a,a,a-Trifluorotoluene</i>		117 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (4J04012-09) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		119 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.5 %	80-120		"	"	"	"	
MW-10 (4J04012-10) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		118 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	80-120		"	"	"	"	
MW-11 (4J04012-11) Water									
Benzene	ND	0.00100	mg/L	1	EJ41301	10/11/04	10/11/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		118 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.0 %	80-120		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04012-01) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	124	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	7360	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	141	1.25	"	2.5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-2 (4J04012-02) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	256	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	3630	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	479	5.00	"	10	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-3 (4J04012-03) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	316	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	6910	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	244	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-4 (4J04012-04) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	160	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	674	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	141	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-5 (4J04012-05) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	346	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	7180	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	204	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (4J04012-06) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	214	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	3460	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	180	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-7 (4J04012-07) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	164	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	8240	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	152	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-8 (4J04012-08) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	174	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	2130	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	147	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-9 (4J04012-09) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	152	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	5140	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	249	2.50	"	5	EJ40703	10/05/04	10/05/04	EPA 375.4	
MW-10 (4J04012-10) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	86.0	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	5940	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	128	1.25	"	2.5	EJ40703	10/05/04	10/05/04	EPA 375.4	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 6 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (4J04012-11) Water									
Carbonate Alkalinity	ND	0.200	mg/L	2	EJ40903	10/09/04	10/09/04	EPA 310.2M	O-04
Bicarbonate Alkalinity	84.0	4.00	"	"	"	"	"	"	O-04
Hydroxide Alkalinity	ND	0.200	"	"	"	"	"	"	O-04
Chloride	2660	5.00	"	1	EJ40907	10/09/04	10/09/04	EPA 325.3M	
Sulfate	70.0	0.500	"	"	EJ40703	10/05/04	10/05/04	EPA 375.4	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4J04012-01) Water									
Calcium	2390	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	256	0.100	"	100	"	"	"	"	
Potassium	27.7	0.500	"	10	"	"	"	"	
Sodium	1680	10.0	"	1000	"	"	"	"	
MW-2 (4J04012-02) Water									
Calcium	1130	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	147	0.100	"	100	"	"	"	"	
Potassium	18.8	0.500	"	10	"	"	"	"	
Sodium	1250	10.0	"	1000	"	"	"	"	
MW-3 (4J04012-03) Water									
Calcium	471	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	93.7	0.100	"	"	"	"	"	"	
Potassium	33.0	0.500	"	10	"	"	"	"	
Sodium	3800	10.0	"	1000	"	"	"	"	
MW-4 (4J04012-04) Water									
Calcium	144	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	20.4	0.0100	"	10	"	"	"	"	
Potassium	5.75	0.100	"	2	"	"	"	"	
Sodium	350	1.00	"	100	"	"	"	"	
MW-5 (4J04012-05) Water									
Calcium	422	1.00	mg/L	100	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	112	0.100	"	"	"	"	"	"	
Potassium	18.5	0.500	"	10	"	"	"	"	
Sodium	4020	10.0	"	1000	"	"	"	"	
MW-6 (4J04012-06) Water									
Calcium	708	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	88.3	0.100	"	100	"	"	"	"	
Potassium	13.0	0.500	"	10	"	"	"	"	
Sodium	1440	10.0	"	1000	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 8 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (4J04012-07) Water									
Calcium	2220	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	262	0.100	"	100	"	"	"	"	
Potassium	25.5	0.500	"	10	"	"	"	"	
Sodium	3140	10.0	"	1000	"	"	"	"	
MW-8 (4J04012-08) Water									
Calcium	851	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	119	0.100	"	100	"	"	"	"	
Potassium	10.2	0.500	"	10	"	"	"	"	
Sodium	321	1.00	"	100	"	"	"	"	
MW-9 (4J04012-09) Water									
Calcium	1580	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	201	0.100	"	100	"	"	"	"	
Potassium	15.1	0.500	"	10	"	"	"	"	
Sodium	1120	10.0	"	1000	"	"	"	"	
MW-10 (4J04012-10) Water									
Calcium	2780	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	380	0.100	"	100	"	"	"	"	
Potassium	15.6	0.500	"	10	"	"	"	"	
Sodium	498	10.0	"	1000	"	"	"	"	
MW-11 (4J04012-11) Water									
Calcium	1350	10.0	mg/L	1000	EJ41303	10/12/04	10/12/04	EPA 6010B	
Magnesium	172	0.100	"	100	"	"	"	"	
Potassium	10.2	0.500	"	10	"	"	"	"	
Sodium	145	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 9 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ41301 - EPA 5030C (GC)

Blank (EJ41301-BLK1)

Prepared & Analyzed: 10/11/04

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	19.9		ug/l	20.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	17.6		"	20.0		88.0	80-120			

LCS (EJ41301-BS1)

Prepared & Analyzed: 10/11/04

Benzene	105		ug/l	100		105	80-120			
Toluene	113		"	100		113	80-120			
Ethylbenzene	112		"	100		112	80-120			
Xylene (p/m)	223		"	200		112	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.8		"	20.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			

LCS Dup (EJ41301-BSD1)

Prepared & Analyzed: 10/11/04

Benzene	101		ug/l	100		101	80-120	3.88	20	
Toluene	110		"	100		110	80-120	2.69	20	
Ethylbenzene	107		"	100		107	80-120	4.57	20	
Xylene (p/m)	214		"	200		107	80-120	4.57	20	
Xylene (o)	106		"	100		106	80-120	4.61	20	
Surrogate: a,a,a-Trifluorotoluene	20.6		"	20.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	18.5		"	20.0		92.5	80-120			

Calibration Check (EJ41301-CCV1)

Prepared & Analyzed: 10/11/04

Benzene	110		ug/l	100		110	80-120			
Toluene	112		"	100		112	80-120			
Ethylbenzene	107		"	100		107	80-120			
Xylene (p/m)	222		"	200		111	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.1		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 10 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ41301 - EPA 5030C (GC)

Matrix Spike (EJ41301-MS1)

Source: 4J04012-09

Prepared & Analyzed: 10/11/04

Benzene	114		ug/l	100	ND	114	80-120			
Toluene	117		"	100	ND	117	80-120			
Ethylbenzene	110		"	100	ND	110	80-120			
Xylene (p/m)	227		"	200	ND	114	80-120			
Xylene (o)	115		"	100	ND	115	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	23.5		"	20.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 11 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ40703 - General Preparation (WetChem)

Blank (EJ40703-BLK1)

Prepared & Analyzed: 10/05/04

Sulfate	ND	0.500	mg/L							
---------	----	-------	------	--	--	--	--	--	--	--

Calibration Check (EJ40703-CCV1)

Prepared & Analyzed: 10/05/04

Sulfate	49.0		mg/L	50.0		98.0	80-120			
---------	------	--	------	------	--	------	--------	--	--	--

Duplicate (EJ40703-DUP1)

Source: 4128007-01

Prepared & Analyzed: 10/05/04

Sulfate	86.8	1.25	mg/L		89.0			2.50	20	
---------	------	------	------	--	------	--	--	------	----	--

Batch EJ40903 - General Preparation (WetChem)

Blank (EJ40903-BLK1)

Prepared & Analyzed: 10/09/04

Carbonate Alkalinity	ND	0.200	mg/L							
----------------------	----	-------	------	--	--	--	--	--	--	--

Bicarbonate Alkalinity	ND	4.00	"							
------------------------	----	------	---	--	--	--	--	--	--	--

Hydroxide Alkalinity	ND	0.200	"							
----------------------	----	-------	---	--	--	--	--	--	--	--

Duplicate (EJ40903-DUP1)

Source: 4J04012-01

Prepared & Analyzed: 10/09/04

Carbonate Alkalinity	0.00	0.200	mg/L		0.00				20	O-04
----------------------	------	-------	------	--	------	--	--	--	----	------

Bicarbonate Alkalinity	122	4.00	"		124			1.63	20	O-04
------------------------	-----	------	---	--	-----	--	--	------	----	------

Hydroxide Alkalinity	0.00	0.200	"		0.00				20	O-04
----------------------	------	-------	---	--	------	--	--	--	----	------

Reference (EJ40903-SRM1)

Prepared & Analyzed: 10/09/04

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
----------------------	--------	--	------	--------	--	-----	--------	--	--	--

Batch EJ40907 - General Preparation (WetChem)

Blank (EJ40907-BLK1)

Prepared & Analyzed: 10/09/04

Chloride	ND	5.00	mg/L							
----------	----	------	------	--	--	--	--	--	--	--

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
Batch EJ40907 - General Preparation (WetChem)										
Matrix Spike (EJ40907-MS1)		Source: 4J04011-02		Prepared & Analyzed: 10/09/04						
Chloride	2180	5.00	mg/L	500	1680	100	80-120			
Matrix Spike Dup (EJ40907-MSD1)		Source: 4J04011-02		Prepared & Analyzed: 10/09/04						
Chloride	2170	5.00	mg/L	500	1680	98.0	80-120	0.460	20	
Reference (EJ40907-SRM1)		Prepared & Analyzed: 10/09/04								
Chloride	4960		mg/L	5000		99.2	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ41303 - 6010B/No Digestion

Blank (EJ41303-BLK1)

Prepared & Analyzed: 10/12/04

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

Calibration Check (EJ41303-CCV1)

Prepared & Analyzed: 10/12/04

Calcium	2.16		mg/L	2.00		108	85-115			
Magnesium	2.19		"	2.00		110	85-115			
Potassium	1.84		"	2.00		92.0	85-115			
Sodium	1.87		"	2.00		93.5	85-115			

Duplicate (EJ41303-DUP1)

Source: 4J04012-01

Prepared & Analyzed: 10/12/04

Calcium	2320	10.0	mg/L		2390			2.97	20	
Magnesium	254	0.100	"		256			0.784	20	
Potassium	27.4	0.500	"		27.7			1.09	20	
Sodium	1600	10.0	"		1680			4.88	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 14 of 15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Sohio A
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported:
10/17/04 17:16

Notes and Definitions

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

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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:

10/17/04

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 15 of 15