Geomega
2995 Baseline Road
Suite 202
Boulder, CO 80303

Tel: 303-938-8115
Fax: 303-938-8123

SITE: Chevron Orlando
BREAK: 7.2
OTHER: vol. 4

January 22, 2002

Mr. Karl Hoenke
Chevron Chemical Company
6001 Bollinger Canyon Road
San Ramon, CA 94583

Dear Karl:

Please find enclosed a copy of the *Fall 2001 Groundwater Sampling Report, Chevron Orlando, Florida Site*. This document reports on the sample collection and analytical data collected as part of the required semi-annual site monitoring.

If you have any questions, please contact Andy Davis at 303-938-8115 or me at 303-442-2549 x116 or.

Sincerely,

George Fennemore, Ph.D.
Principal Mathematician

Cc: Bill Denman
Judie Kean
Susan Tobin

10477942

Good Science *Hard Work* *Creative Thinking*

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Executive Summary

Executive Summary

This document is an adjunct to previous submittals, describing the results of the October 2001 groundwater sampling event at the Chevron Orlando site. The current data set continues to support the various lines of evidence discussed in those documents, namely:

- With the possible exception of MW-15, downgradient wells remain uninfluenced by site conditions (see Section 4),
- COC concentrations responded to variation in water table elevation as expected,
- site water table elevations respond discernibly to local precipitation and dry periods, and
- the BHC-isomer plume in groundwater remains stable.

These data have been synthesized into the site interpretation and will be utilized in the ongoing assessment of the efficacy of natural attenuation as a groundwater remedy.

1.0 Introduction

This communication reports on the data collection activities that were conducted on the Chevron Orlando, Florida site from October 15-17, 2001. In addition, smaller sampling events were conducted on November 13, 2001 and December, 10, 2001 and are also presented in this report. The data collection was conducted by personnel from TASK Environmental, Inc. (Tampa, FL). The objective of the data collection was to fulfill the semi-annual monitoring requirements as set forth in the site's Record of Decision (ROD).

2.0 Site Maintenance Activities

TASK Environmental, Inc. (TASK) performs site maintenance activities on a monthly or bi-monthly basis, depending on rainfall (monthly during wet season, bi-monthly during dry season). Site maintenance activities include mowing the grass, removing weeds and vegetation along the fence-line, trimming trees, repair of the chain-link fence, replacement of warning signs, collection and disposal of garbage and debris, and painting the block wall and monitor well covers.

3.0 Water Quality Data

The data collected from site wells (Figure 3-1) during the October 2001 sampling included:

- water level measurements,
- field geochemical data (pH, ORP, specific conductivity, dissolved oxygen, temperature, and ferrous iron), and
- laboratory analyses (chlorinated pesticides via EPA Method 8081 and volatile organic compounds via EPA Method 8021).

These data were collected in conformance with the *Proposed Changes to the Sampling & Analytical Plan for the Chevron Orlando, Florida Site* (Geomega, March 2001). The following wells were inadvertently excluded from the 8021 VOC analysis: MW-4S, MW-4D, MW-16S, MW-16D, and MW-17. These wells will be sampled for 8021 VOCs in the spring of 2002.

Laboratory analyses (chlorinated pesticides via EPA Method 8081) were also performed on samples collected from several wells sampled in November and December 2001.

3.1 Water Level Measurements

Water level measurements are important at the Orlando, Florida site because water table fluctuations influence analytical chemistry (Section 4.1 and Appendix B). These data were collected on October 15, 2001 for 16 on-site and 11 off-site wells (Table 3-1), using an electronic water level indicator. Measurements were taken as part of the standard semi-annual well sampling and for use in the evaluation of water level elevation versus concentration comparison (Section 4.1).

Consistent with the historic pattern, October 2001 groundwater elevations in individual monitoring wells were generally higher than levels measured during the April 2001 sampling event. The October 2001 water elevations on average increased 1.2 ft over the April 2001 levels (Appendix C). The maximum decrease was 0.07 ft at MW-4S and the maximum increase was 1.81 ft at MW-3S.

3.2 Field Parameters

Field parameters were measured using a flow-through cell while purging three to five well volumes from the wells, prior to sampling. Purging ceased either after five well volumes or when geochemical readings (e.g., conductivity, ORP, pH, temperature, and dissolved oxygen) had stabilized, whichever occurred sooner (Table 3-2).

With the exception of MW-4S and MW-5S, on- and off-site groundwater has a relatively low specific conductivity (≤350 μS/cm) (microSiemens/centimeter). The conductivity in MW-4S was 1050 μS/cm and 700 μS/cm in MW-5S, which are higher than recent sampling events (MW-4S was 410 μS/cm and MW-5S was 395 μS/cm in April 2001). However, the conductivity for MW-4S and MW-5S has fluctuated from 120 to 1100 μS/cm and 320 to 900 μS/cm, respectively since 1993. ORP measurements ranged from –279.5 mV to 280.9 mV, and dissolved oxygen ranged from 0.12 mg/l to 1.68 mg/l. Dissolved oxygen was lower in deep wells (average 0.29 mg/l) than in shallow wells

(average 1.1 mg/l). On- and off-site groundwater is moderately acidic (pH between 3.53 and 5.96) with the lowest pH wells off-site. In October 2001, these pH's generally increased compared to the historic low values measured in April 2001.

3.3 HACH Spectrophotometer Analyses

Following purging, groundwater was passed through a 0.45 μm filter and analyzed for ferrous iron in the field using a HACH DR2000 spectrophotometer. This measurement was used to determine the redox state of each well (Table 3-3). The reduced form of iron was found in all monitoring wells. The reduced elemental form indicates that site geochemical conditions are generally reducing and, therefore, favorable to reductive dechlorination of the COCs.

3.4 Standard Semi-Annual Analyses

Groundwater samples were collected with dedicated disposable Teflon bailers from 19 wells as part of the semi-annual sampling event. Each well was purged prior to sample collection with a peristaltic pump. Three to five well volumes of water were removed from each well prior to sampling. Purge water was collected and treated on-site.

3.4.1 Analytical Results

An optimized sampling plan was presented in March (Proposed Changes to the Sampling & Analytical Plan for the Chevron Orlando, Florida Site, Geomega, March 2001). Groundwater samples collected in October 2001 were analyzed by SunLabs for the optimized semi-annual parameters (chlorinated pesticides by EPA Method 8081 and volatile organic compounds via EPA Method 8021) (Table 3-4a; Appendix A). These analytical data were combined with historical groundwater data to update the site interpretation (Section 4). Additional samples were collected in November and December 2001 and analyzed for chlorinated pesticides by EPA Method 8081 (Table 3-4b).

In general, numerical results for site COCs (α-, β-, γ-, δ-BHC, and BTEX compounds) conformed to the historic pattern where higher groundwater elevations result in lower COC concentrations (see Section 4.1).

3.4.2 Duplicate Analyses

Duplicate samples were taken in October 2001 from wells MW-2D, MW-3D, MW-10S and MW-16S and analyzed at SunLabs to determine lab precision. All duplicate analytical results were within 15% of each other (Table 3-4a).

A duplicate sample was taken in December 2001 from MW-15 and analyzed at SunLabs (Table 3-4b). The only detection was α-BHC in the original sample at a concentration of 0.06 μg/l. α-BHC was not detected in the duplicate sample at <0.008 μg/l. This is a difference of 86.7%.

4.0 Data Analysis

4.1 Water Level Elevation vs. Concentration

An analysis of water level elevation versus COC concentration in the Comprehensive Data Review & Hydrogeochemical Conceptualization of the Chevron Orlando Site (Geomega, 1999) showed that short-term temporal variability in COC concentrations was associated with changes in water level elevation. A correlation was established between average total BHC concentrations and depth to water, suggesting that the rise and fall observed in site water levels controls groundwater BHC concentrations.

The correlation with depth to water is less significant for BTEX compounds because these compounds do not sorb strongly to soils. Therefore, BTEX groundwater concentrations are not as dependent on sorption/desorption mechanisms as the BHC isomers. Previously, it has been recognized that COC concentrations must be examined in conjunction with water level elevations to accurately interpret temporal evolution in COC concentrations. This theory was strengthened with the results of the October 2001 sampling because while the water level increased from the previous sampling event, the

COC concentrations in general decreased over the same time period (Figure 4-1). The exception to this theory is β-BHC for October 2001. However, this deviation was mainly caused by β-BHC increases in MW-10S and MW-16D. Appendix B contains figures of water level versus COC concentration for each individual well.

4.2 MW-15 Results

α-BHC was detected in MW-15 at 0.07 μg/l in October 2001. BHCs have not been previously detected in MW-15 and this detection occurred without detecting any other COCs. A similar concentration of δ-BHC was reported for MW-12 in April 2000, but that detection was not repeated during confirmation sampling. BHCs had never been detected before in MW-12 and this detection occurred without detecting any other COCs. MW-12 was sampled twice since the confirmation sampling and no COCs have been detected since the isolated occurrence in April 2000.

Following the October 2001 sampling event, additional samples were collected in November to investigate the α-BHC detection at MW-15. Samples were collected from MW-11, MW-12, and MW-15 on November 13, 2001 (see Table 3-4b). BHCs were not detected in MW-11 or MW-12. α-BHC was detected at 0.05 μg/l in both the original and duplicate sample collected from MW-15. No other BHCs were detected in MW-15. Following the November sampling event, another round of samples was collected on December 10, 2001. Duplicate samples collected from MW-15 were sent to SunLabs as blind samples (see Table 3-4b). α-BHC was detected at 0.06 μg/l from the original MW-15 sample, but not detected at a detection limit of <0.008 μg/l in the duplicate sample. No other BHCs were detected at MW-15. The results of the October, November, and December MW-15 analyses illustrate the analytical difficulties associated with low BHC concentrations.

EPA recognizes analytical interferences for BHC analyses by Method 8081. Factors affecting BHC analysis include "weathered" organic compounds, solvents, and sulfur (EPA 1996). In addition, the State of Florida considers alternative Practical Quantitation Limits (PQLs) for environmental analyses (F.A.C. Rules 62-4.246). Given the difficulty

analyzing low-level concentrations of BHCs, an analysis to determine at what concentration an analytical laboratory can reasonably determine the concentration of BHCs in Chevron Orlando site groundwater was performed. Historic and current replicate/duplicate samples were analyzed to quantify overall variability within the BHC results, and by acknowledging identified matrix interferences (e.g., sulfide), upper confidence limits on PQL concentrations were calculated (CFR 1984, Appendix D).

Briefly, the analysis showed:

- Variability in the BHC concentrations is homoscedastic, i.e., the amount of error variability is independent of the mean error difference between replicate/duplicate analyses.
- There is no statistically significant correlation in percent error and analysis date; i.e., older analysis have the same error as newer analysis.

The variability of the error, as calculated by its standard deviation, was applied to develop 95% upper confidence limits (UCL) for each statistically significant detection of BHC isomer.

Chemical	95% UCL PQLs µg/l
α-BHC	0.25
β-BHC	0.24
δ-BHC	0.21
γ-BHC (Lindane)	0.44
Σ-BHC	1.25*

*Σ-BHC was calculated from Σ-BHC data rather than summing the α-, β-, γ-, and δ-BHC 95% UCL PQL.

The results of this analysis lead to the conclusion that low level detections (i.e., 0.05-0.07 µg/l) of α-BHC in MW-15 are within the range of analytical uncertainty without further future sampling to confirm or disprove the presence of α-BHC at this location.

MW-15 will be sampled again in Spring 2002. In addition, samples will be collected from MW-11 and MW-12 in Spring 2002 to determine whether or not BHCs are present at these locations.

4.3 Non-Detect Summary

An analysis was performed of samples collected in 2001 (see Table 4-1). COC analyses were evaluated from all wells sampled in 2001 to determine the frequency at which COCs are detected (Table 4-1). Four wells (MW-2S, MW-5S, MW-5D, and MW-8D) have non-detect COC results at detection limits below the cleanup standard for at least the last two consecutive sampling events (i.e., April 2001 and October 2001). Based on these results, monitoring at these locations can be discontinued.

5.0 Conclusions

The results of the Fall 2001 semi-annual sampling and analysis confirm the interpretations presented in October 1999 (Geomega 1999), namely:

- Water level fluctuations correlate strongly with groundwater pesticide concentrations.
- The BHC isomer groundwater plume location remains stable with the mass of ΣBHC in groundwater continuing to decrease at approximately 10% per annum since 1993 (*BHC in Chevron Orlando Groundwater: Evidence for Plume Attenuation and Stability*, Geomega, December 13, 2000).
- MW-15 should be monitored due to the anomalous BHC detection. MW-11 and MW-12 will also be added to the monitoring program until MW-15 results have been resolved.
- Sampling should be discontinued at MW-2S, MW-5S, MW-5D, and MW-8D based on evidence that COCs are not present at these locations.

6.0 References

CFR 1984. Appendix B to Part 136 – Definition and Procedure for the Determination of Method Detection Limit – Revision 1.11; in Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act; 40 CFR Part 136; Federal Register, Vol. 49, No. 209, October 26, 1984, p. 198.

EPA, Test Methods for Evaluating Solid Waste (SW-846) Method 8081A, Revision 1, December, 1996

F.A.C. Rules 62-4.246 Sampling, Testing Methods, and Method Detection Limits for Water Pollution Sources.

Table 3-1. Water level elevations for Chevron Orlando, Florida October 2001

Well	Date	Depth to Water (ft BLS)	Top of Casing Elevation (ft MSL)	Water Elevation (ft MSL)
MW-1S	10/15/01	9.65	100.93	91.28
MW-1D	10/15/01	9.82	100.89	91.07
MW-2S	10/15/01	6.52	99.11	92.59
MW-2D	10/15/01	6.6	99.16	92.56
MW-3S	10/15/01	8.1	101.82	93.72
MW-3D	10/15/01	8.05	101.65	93.6
MW-4S	10/15/01	9.9	102.51	92.61
MW-4D	10/15/01	9.3	101.93	92.63
MW-5S	10/15/01	10.24	101.24	91
MW-5D	10/15/01	9.99	100.81	90.82
MW-6S	10/15/01	9.58	99.8	90.22
MW-6D	10/15/01	9.51	99.69	90.18
MW-7S	10/15/01	5.88	100.05	94.17
MW-7D	10/15/01	8.08	102.27	94.19
MW-8S	10/15/01	7.27	102.17	94.9
MW-8D	10/15/01	8.2	103.04	94.84
MW-9D	10/15/01	7.73	102.59	94.86
MW-10S	10/15/01	9.2	103.31	94.11
MW-10D	10/15/01	10.32	104.35	94.03
MW-11	10/15/01	6.97	96.24	89.27
MW-12	10/15/01	7.16	97.95	90.79
MW-15	10/15/01	9.2	99.21	90.01
MW-16S	10/15/01	12.76	104.03	91.27
MW-16D	10/15/01	12.6	103.7	91.1
MW-17	10/15/01	9.65	103.23	93.58
MW-D	10/15/01	7.9	102.96	95.06
MW-A	10/15/01	11.15	105.01	93.86

Table 3-3. HACH Spectrophotometer analyses for Chevron Orlando, Florida October 2001

Well	Fe^{2+} (mg/l)
MW-1S	1.13
MW-1D	0.64
MW-2S	0.12
MW-2D	0.41
MW-3S	0.41
MW-3D	2.76
MW-4S	0.30
MW-4D	0.27
MW-5S	0.24
MW-5D	0.34
MW-8S	0.07
MW-8D	0.89
MW-9D	2.20
MW-10S	0.08
MW-10D	0.61
MW-15	0.06
MW-16S	0.06
MW-16D	2.86
MW-17	0.34

Table 3-4a. Groundwater analyses for Chevron Orlando, Florida October 2001

	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	δ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Toluene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	DDD µg/l	MTBE µg/l
Cleanup Standard	**0.05**	**0.1**	**0.2**	**--**	**1**	**700**	**--**	**10,000**	**2**	**2**	**0.1**	**--**
MW-1S	**0.92**	**0.33**	<0.1	0.28	<0.9	<0.9	<1.2	<2.2	<0.2	<0.2	<0.1	<5
MW-1D	**0.12**	**0.82**	<0.05	0.52	<0.9	1.1	<1.2	<2.2	<0.1	<0.1	<0.05	<5
MW-2S	<0.04	<0.05	<0.05	<0.03					<0.1	<0.1	<0.05	
MW-2D	<0.04	<0.05	**0.3**	<0.03					<0.1	<0.1	<0.05	
MW-2D (Dup)	<0.04	<0.05	**0.28**	<0.03					<0.1	<0.1	<0.05	
MW-3S	**0.55**	<0.05	<0.05	<0.03	**1.4**	1.1	<1.2	2.1	<0.1	<0.1	<0.05	<5
MW-3D	**0.06**	<0.05	<0.05	<0.03	<0.9	<0.9	<1.2	<2.2	<0.1	<0.1	<0.05	<5
MW-3D (Dup)	**0.07**	<0.05	<0.05	<0.03	<0.9	<0.9	<1.2	<2.2	<0.1	<0.1	<0.05	<5
MW-4S	**3.1**	**9.5**	<0.5	7					<1	<1	<0.5	
MW-4D	**5.1**	**3.6**	<0.5	10					<1	<1	<0.5	
MW-5S	<0.04	<0.05	<0.05	<0.03					<0.1	<0.1	<0.05	
MW-5D	<0.04	<0.05	<0.05	<0.03					<0.1	<0.1	<0.05	
MW-8S	<0.04	**0.29**	<0.05	0.09					<0.1	<0.1	<0.05	
MW-8D	<0.04	<0.05	<0.05	<0.03					<0.1	<0.1	<0.05	
MW-9D	**0.06**	**0.34**	<0.05	0.82	<0.9	<0.9	<1.2	<2.2	<0.1	<0.1	**0.73**	<5
MW-10S	**1.8**	**59**	<1.25	19	<0.9	<0.9	<1.2	<2.2	<2.5	<2.5	<1.25	<5
MW-10S (Dup)	**1.6**	**60**	<1.25	19	<0.9	<0.9	<1.2	<2.2	<2.5	<2.5	<1.25	<5
MW-10D	<0.04	<0.05	<0.05	<0.03	<0.9	<0.9	<1.2	<2.2	<0.1	<0.1	<0.05	<5
MW-15	**0.07**	<0.05	<0.05	<0.03	<0.9	<0.9	<1.2	<2.2	<0.1	<0.1	<0.05	<5
MW-16S	**0.9**	**8.3**	**0.6**	2					<1	<1	<0.5	
MW-16S (Dup)	**0.9**	**8**	**0.6**	2					<1	<1	<0.5	
MW-16D	**0.86**	**12**	**0.7**	3.9					<0.1	<0.1	<0.05	
MW-17	**1.6**	**2.2**	**0.48**	4.1					<1	<1	<0.5	

***bolded** values indicate exceedances of cleanup standards

Table 3-4b. BHC analyses for Chevron Orlando, Florida
October, November, and December 2001

		α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	δ-BHC µg/l
Cleanup Standard		**0.05**	**0.1**	**0.2**	--
MW-15	10/16/01	**0.07**	<0.05	<0.05	<0.03
MW-11	11/13/01	<0.04	<0.05	<0.05	<0.03
MW-12	11/13/01	<0.04	<0.05	<0.05	<0.03
MW-15	11/13/01	**0.05**	<0.05	<0.05	<0.03
MW-15 dup	11/13/01	**0.05**	<0.05	<0.05	<0.03
MW-15	12/10/01	**0.06**	<0.01	<0.01	<0.006
MW-15 dup	12/10/01	<0.008	<0.01	<0.01	<0.006

***bolded** values indicate a detection

Table 4-1. Non-detect summary for samples collected in 2001, Chevron Orlando, Florida

	α-BHC µg/l		β-BHC µg/l		γ-BHC µg/l		δ-BHC µg/l		Benzene µg/l	
Cleanup Standard	0.05		0.1		0.2				1	
Well	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01
MW-1S	0.11/0.11	0.92	0.49/0.49	0.33	**<0.05/<0.05**	**<0.1**	1.5/1.5	0.28	**<0.9/<0.9**	**<0.9**
MW-1D	2	0.12	1.6	0.82	0.16	<0.05	3	0.52	2.9	<0.9
MW-2S	**<0.04**	**<0.04**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.03**	**<0.03**		
MW-2D	**<0.04/<0.04**	**<0.04/<0.04**	**<0.05/<0.05**	**<0.05/<0.05**	<0.05/<0.05	0.3/0.28	**<0.03/<0.03**	**<0.03/<0.03**		
MW-3S	0.54	0.55	**<0.1**	**<0.05**	**<0.1**	**<0.05**	**<0.06**	**<0.03**	<0.9	1.4
MW-3D	0.12	0.06/0.07	**<0.05**	**<0.05/<0.05**	**<0.05**	**<0.05/<0.05**	<0.03	<0.03/<0.03	**<0.9**	**<0.9/<0.9**
MW-4S	8.4	3.1	8.4	9.5	1.4	<0.5	20	7	11	
MW-4D	4.3	5.1	3.3	3.6	**<0.05**	**<0.5**	6.7	10	19	
MW-5S	**<0.04**	**<0.04**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.03**	**<0.03**		
MW-5D	**<0.04/<0.04**	**<0.04**	**<0.05/<0.05**	**<0.05**	**<0.05/<0.05**	**<0.05**	**<0.03/<0.03**	**<0.03**		
MW-7S									<0.9	
MW-7D									<0.9	
MW-8S	**<0.04**	**<0.04**	<0.05	0.29	**<0.05**	**<0.05**	<0.03	0.09	<0.9	
MW-8D	**<0.04**	**<0.04**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.03**	**<0.03**	<0.9	
MW-9D	<0.04	0.06	0.38	0.34	**<0.05**	**<0.05**	0.2	0.82	**<0.9**	**<0.9**
MW-10S	1.6	1.8/1.6	24	59/60	2.1	<1.25/<1.25	6.5	19/19	**<0.9**	**<0.9/<0.9**
MW-10D	**<0.04**	**<0.04**	0.19	<0.05	**<0.05**	**<0.05**	**<0.03**	**<0.03**	1.6	<0.9
MW-12	<0.04		<0.05		<0.05		<0.03			
MW-15	<0.04	0.07	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.03**	**<0.03**	**<0.9**	**<0.9**
MW-16S	1.8/1.7	0.9/0.9	27/26	8.3/8	1.1/1	0.6/0.6	8.5/7.7	2/2	<0.9/<0.9	
MW-16D	<0.04	0.86	1.8	12	<0.05	0.7	0.29	3.9	3.3	
MW-17	1.9	1.6	2.1	2.2	<0.05	0.48	6.5	4.1	4.8	
MW-D									<0.9	
number of wells sampled	20	19	20	19	20	19	20	19	18	8
detections	9	12	10	10	4	4	9	10	6	1
non-detects	11	7	10	9	16	15	11	9	12	7

regular/duplicate

Bold values indicate non-detects for two consecutive sampling events.

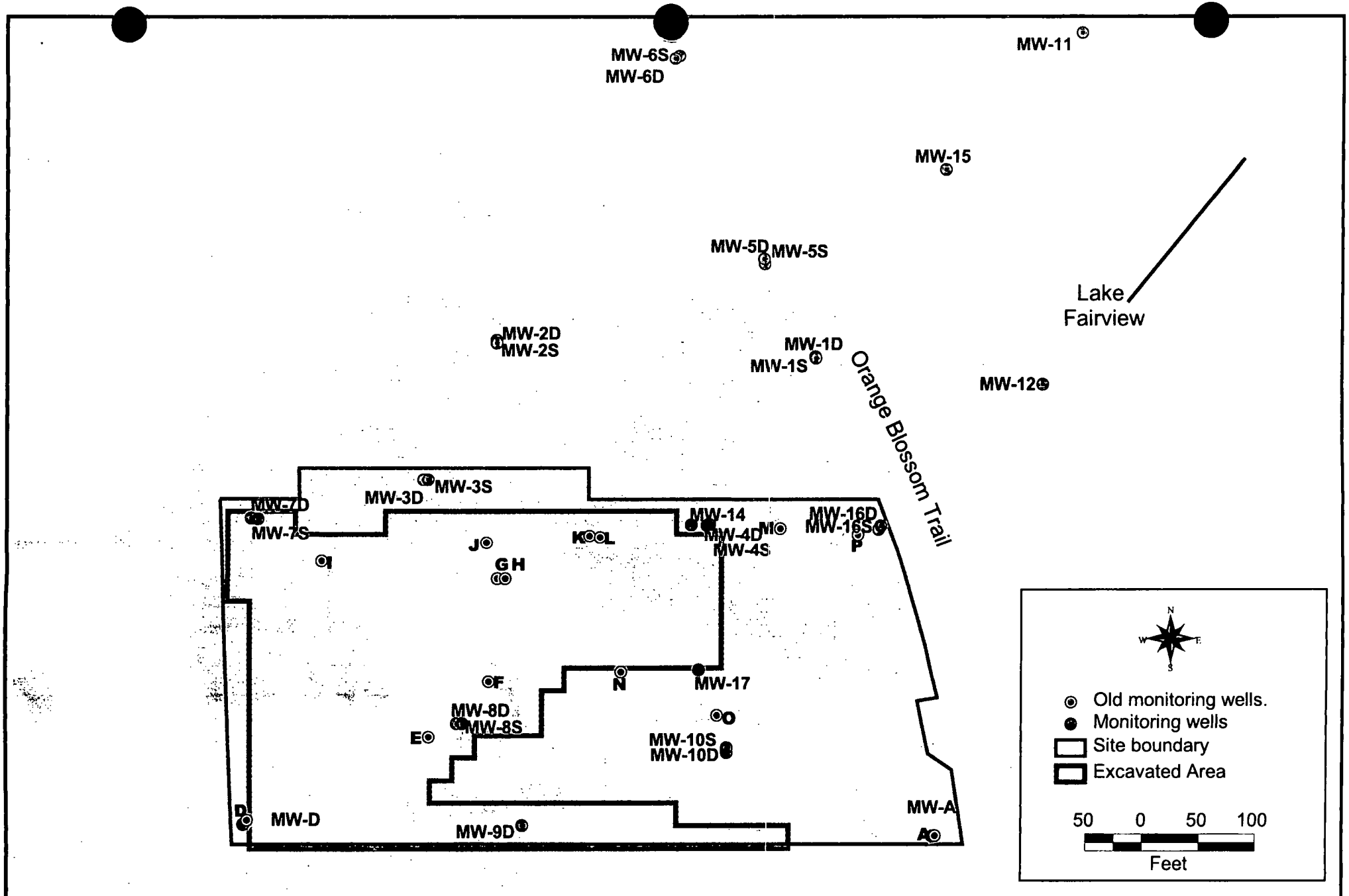
Table 4-1. Non-detect summary for samples collected in 2001, Chevron Orlando, Florida

	Ethylbenzene µg/l		Toluene µg/l		Xylenes µg/l		α-Chlordane µg/l		γ-Chlordane µg/l		DDD µg/l		MTBE µg/l	
Cleanup Standard	700				10,000		2		2		0.1			
Well	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01	Apr-01	Oct-01
MW-1S	**<1.1/<1.1**	**<0.9**	**<1/<1**	**<1.2**	**<1.1/<1.1**	**<2.2**	**<0.1/<0.1**	**<0.2**	**<0.1/<0.1**	**<0.2**	**<0.05/<0.05**	**<0.1**	**<5/<5**	**<5**
MW-1D	63	1.1	**<1**	**<1.2**	120	<2.2	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	**<5**	**<5**
MW-2S							**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**		
MW-2D							**<0.1/<0.1**	**<0.1/<0.1**	**<0.1/<0.1**	**<0.1/<0.1**	**<0.05/<0.05**	**<0.05/<0.05**		
MW-3S	11	1.1	**<1**	**<1.2**	11	2.1	**<0.2**	**<0.1**	**<0.2**	**<0.1**	2.6	<0.05	**<5**	**<5**
MW-3D	**<1.1**	**<0.9/<0.9**	**<1**	**<1.2/<1.2**	**<1.1**	**<2.2/<2.2**	**<0.1**	**<0.1/<0.1**	**<0.1**	**<0.1/<0.1**	**<0.05**	**<0.05/<0.05**	**<5**	**<5/<5**
MW-4S	37		2.2		100		**<0.1**	**<1**	**<0.1**	**<1**	**<0.05**	**<0.5**	<5	
MW-4D	230		13		560		**<0.1**	**<1**	**<0.1**	**<1**	**<0.05**	**<0.5**	<5	
MW-5S							**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**		
MW-5D							**<0.1/<0.1**	**<0.1**	**<0.1/<0.1**	**<0.1**	**<0.05/<0.05**	**<0.05**		
MW-7S	<1.1		<1		<1.1								<5	
MW-7D	<1.1		<1		<1.1								<5	
MW-8S	<1.1		<1		<1.1		**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	<5	
MW-8D	<1.1		<1		<1.1		**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	<5	
MW-9D	**<1.1**	**<0.9**	**<1**	**<1.2**	**<1.1**	**<2.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	<0.05	0.73	**<5**	**<5**
MW-10S	**<1.1**	**<0.9/<0.9**	**<1**	**<1.2/<1.2**	**<1.1**	**<2.2/<2.2**	**<0.1**	**<2.5/<2.5**	2.7	<2.5/<2.5	**<0.05**	**<1.25/<1.25**	**<5**	**<5/<5**
MW-10D	**<1.1**	**<0.9**	**<1**	**<1.2**	**<1.1**	**<2.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	37	<5
MW-12							<0.1		<0.1		<0.05			
MW-15	**<1.1**	**<0.9**	**<1**	**<1.2**	**<1.1**	**<2.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	**<5**	**<5**
MW-16S	<1.1/<1.1		<1/<1		<1.1/<1.1		**<0.1/<0.1**	**<1/<1**	3.3/2.9	<1/<1	**<0.05/<0.05**	**<0.5/<0.5**	<5/<5	
MW-16D	<1.1		<1		<1.1		**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**	5.4	
MW-17	3.1		<1		<1.1		**<0.1**	**<1**	1.5	<1	**<0.05**	**<0.5**	<5	
MW-D	<1.1		<1		<1.1								<5	
number of wells sampled	18	8	18	8	18	8	20	19	20	19	20	19	18	8
detections	5	2	2	0	4	1	0	0	3	0	1	1	2	0
non-detects	13	6	16	8	14	7	20	19	17	19	19	18	16	8

regular/duplicate

Bold values indicate non-detects for two consecutive sampling events.

FIGURES

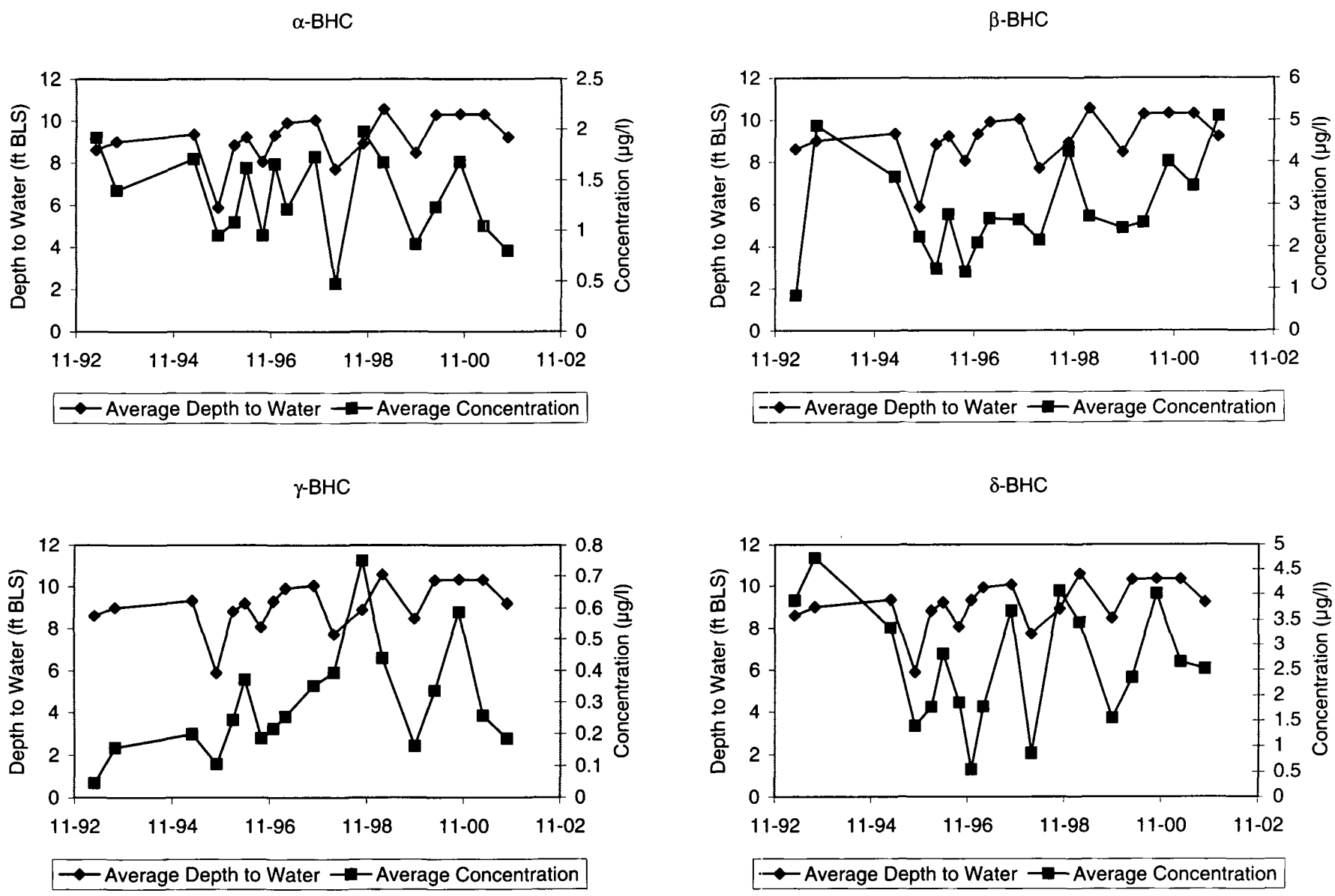


Genration Date: 5/30/01

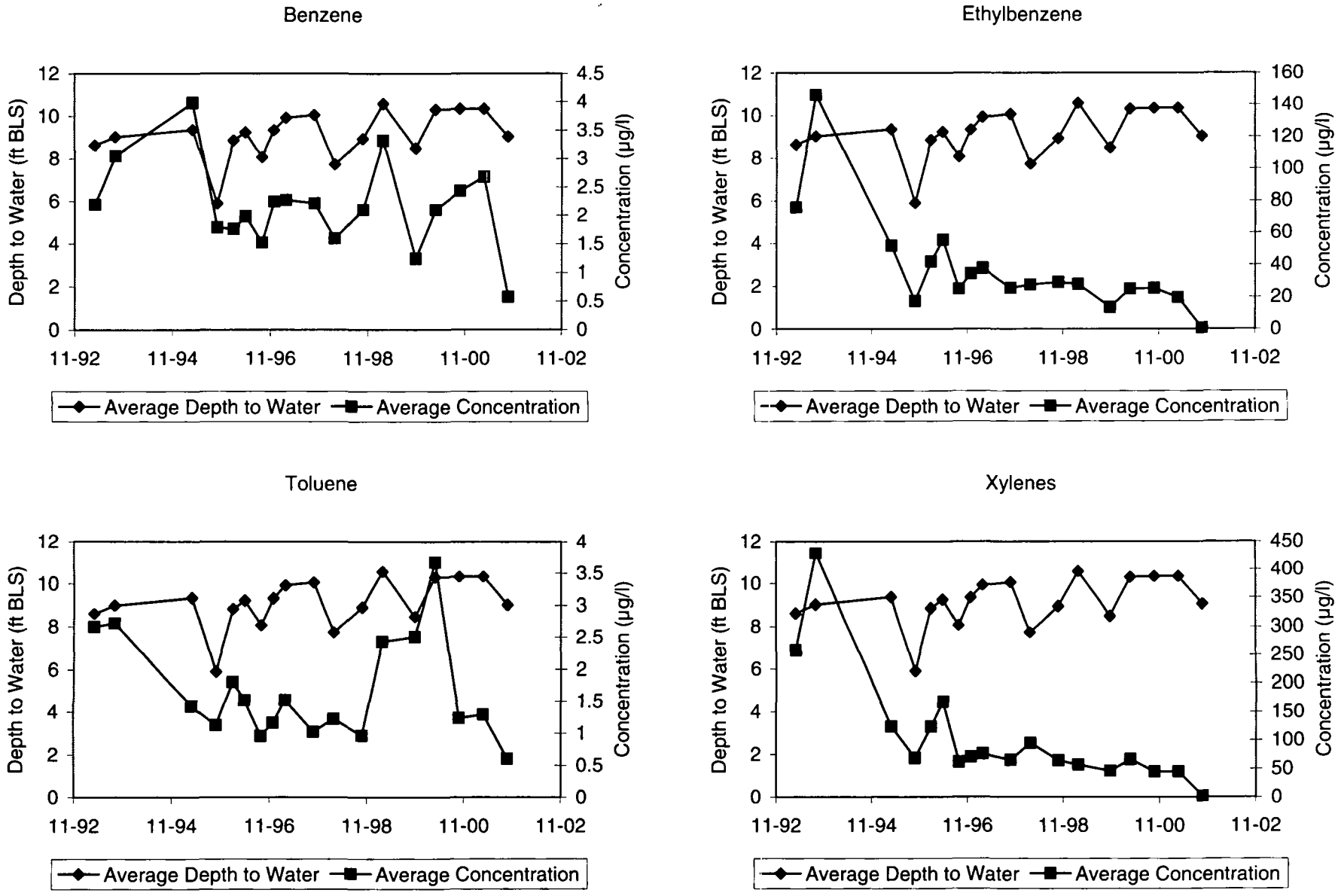
Figure 3-1. Basemap of Chevron Orlando, Florida, site boundary, approximate excavation surface, and monitoring well locations.

Geomega

I:\projects\chevron\orlando\images\characterization.apr surface and wells



Generation Date: 12/03/01	Figure 4-1a. Average depth to water vs. average concentration at Chevron Orlando, Florida.	Geomega



Generation Date: 12/03/01	Figure 4-1b. Average depth to water vs. average concentration at Chevron Orlando, Florida.	Geomega

Appendix A. SunLabs Data Sheets

SunLabs data reports for groundwater samples collected in October, November, and December 2001.

October 25, 2001

Task Environmental Consultants, Inc.
501 South Boulevard
Tampa, FL 33606

Re SunLabs Project Number: **011017.01**
Client Project Description: **Chevron Orlando**

Dear Ms. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
10971	CO-MW-15	10/16/01
10972	CO-MW-5S	10/16/01
10973	CO-MW-5D	10/16/01
10974	CO-MW-16S	10/16/01
10975	CO-MW-116S	10/16/01
10976	CO-EQBLNK-1	10/16/01
10977	CO-MW-16D	10/16/01
10978	CO-MW-8S	10/16/01
10979	CO-EQBLNK-2	10/16/01
10980	CO-MW-8D	10/16/01
10981	CO-MW-9D	10/16/01
10982	CO-MW-10S	10/16/01
10983	CO-MW-110S	10/16/01
10984	CO-MW-10D	10/16/01
10985	Travel Blank	10/16/01
11007	CO-EQBLNK-3	10/17/01
11008	CO-MW-17	10/17/01
11009	CO-MW-1S	10/17/01
11010	CO-MW-1D	10/17/01
11011	CO-MW-2S	10/17/01
11012	CO-MW-2D	10/17/01
11013	CO-MW-102D	10/17/01
11014	CO-FB-1	10/17/01
11015	CO-MW-3S	10/17/01
11016	CO-MW-3D	10/17/01
11017	CO-MW-103D	10/17/01
11018	CO-MW-4S	10/17/01
11019	CO-MW-4D	10/17/01
11020	Travel Blank	10/17/01

SunLabs,Inc.

P.O. Box 260454
Tampa, FL 33685

Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Sample Number	Sample Description	Date Collected

Footnotes are given at the end of the report, when applicable.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

SunLabs, Inc.

P.O. Box 260454
Tampa, FL 33685

Phone 813 881-9401
Fax 813. 881-9401
email sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10971
Sample Designation			CO-MW-15
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/22/01**
Surrogate	8081	%	**90**
a-BHC	8081	ug/L	**0.07**
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/18/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10972
Sample Designation			CO-MW-5S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/22/01**
Surrogate	8081	%	**93**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881 9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10973
Sample Designation	CO-MW-5D
Date Collected	10/16/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/22/01**
Surrogate	8081	%	**92**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10974
Sample Designation			CO-MW-16S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/17/01
Date Analyzed			10/22/01
Surrogate	8081	%	105
a-BHC	8081	ug/L	0.90
b-BHC	8081	ug/L	8.3
Lindane	8081	ug/L	0.60
d-BHC	8081	ug/L	2.0
Heptachlor	8081	ug/L	<0.4
Aldrin	8081	ug/L	<0.4
Heptachlor epoxide	8081	ug/L	<0.5
a-Chlordane	8081	ug/L	<1
g-Chlordane	8081	ug/L	<1
Endosulfan I	8081	ug/L	<0.5
Dieldrin	8081	ug/L	<0.3
p,p'-DDE	8081	ug/L	<1
Endrin	8081	ug/L	<1
Endosulfan II	8081	ug/L	<1
p,p'-DDD	8081	ug/L	<0.5
Endrin aldehyde	8081	ug/L	<1
Endosulfan sulfate	8081	ug/L	<1
p,p'-DDT	8081	ug/L	<1
Endrin ketone	8081	ug/L	<1
Methoxychlor	8081	ug/L	<1
Toxaphene	8081	ug/L	<30

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10975
Sample Designation			CO-MW-116S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/22/01**
Surrogate	8081	%	**97**
a-BHC	8081	ug/L	**0.90**
b-BHC	8081	ug/L	**8.0**
Lindane	8081	ug/L	**0.60**
d-BHC	8081	ug/L	**2.0**
Heptachlor	8081	ug/L	<0.4
Aldrin	8081	ug/L	<0.4
Heptachlor epoxide	8081	ug/L	<0.5
a-Chlordane	8081	ug/L	<1
g-Chlordane	8081	ug/L	<1
Endosulfan I	8081	ug/L	<0.5
Dieldrin	8081	ug/L	<0.3
p,p'-DDE	8081	ug/L	<1
Endrin	8081	ug/L	<1
Endosulfan II	8081	ug/L	<1
p,p'-DDD	8081	ug/L	<0.5
Endrin aldehyde	8081	ug/L	<1
Endosulfan sulfate	8081	ug/L	<1
p,p'-DDT	8081	ug/L	<1
Endrin ketone	8081	ug/L	<1
Methoxychlor	8081	ug/L	<1
Toxaphene	8081	ug/L	<30

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10976
Sample Designation	CO-EQBLNK-1
Date Collected	10/16/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/22/01**
Surrogate	8081	%	77
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/18/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10977
Sample Designation			CO-MW-16D
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/17/01
Date Analyzed			10/22/01
Surrogate	8081	%	79
a-BHC	8081	ug/L	0.86
b-BHC	8081	ug/L	12
Lindane	8081	ug/L	0.70
d-BHC	8081	ug/L	3.9
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10978
Sample Designation			CO-MW-8S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**86**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	**0.29**
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	**0.09**
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10979
Sample Designation	CO-EQBLNK-2
Date Collected	10/16/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/17/01
Date Analyzed			10/23/01
Surrogate	8081	%	89
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/18/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10980
Sample Designation	CO-MW-8D
Date Collected	10/16/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**53**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10981
Sample Designation			CO-MW-9D
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**88**
a-BHC	8081	ug/L	**0.06**
b-BHC	8081	ug/L	**0.34**
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	**0.82**
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	**0.19**
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	**0.73**
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10982
Sample Designation			CO-MW-10S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**0** SD
a-BHC	8081	ug/L	**1.8**
b-BHC	8081	ug/L	**59**
Lindane	8081	ug/L	<1.25
d-BHC	8081	ug/L	**19**
Heptachlor	8081	ug/L	<1
Aldrin	8081	ug/L	<1
Heptachlor epoxide	8081	ug/L	<1.25
a-Chlordane	8081	ug/L	<2.5
g-Chlordane	8081	ug/L	<2.5
Endosulfan I	8081	ug/L	<1.25
Dieldrin	8081	ug/L	<0.75
p,p'-DDE	8081	ug/L	<2.5
Endrin	8081	ug/L	<2.5
Endosulfan II	8081	ug/L	<2.5
p,p'-DDD	8081	ug/L	<1.25
Endrin aldehyde	8081	ug/L	<2.5
Endosulfan sulfate	8081	ug/L	<2.5
p,p'-DDT	8081	ug/L	<2.5
Endrin ketone	8081	ug/L	<2.5
Methoxychlor	8081	ug/L	<2.5
Toxaphene	8081	ug/L	<75
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/18/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			10983
Sample Designation			CO-MW-110S
Date Collected			10/16/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/17/01
Date Analyzed			10/23/01
Surrogate	8081	%	0 SD
a-BHC	8081	ug/L	1.6
b-BHC	8081	ug/L	60
Lindane	8081	ug/L	<1.25
d-BHC	8081	ug/L	19
Heptachlor	8081	ug/L	<1
Aldrin	8081	ug/L	<1
Heptachlor epoxide	8081	ug/L	<1.25
a-Chlordane	8081	ug/L	<2.5
g-Chlordane	8081	ug/L	<2.5
Endosulfan I	8081	ug/L	<1.25
Dieldrin	8081	ug/L	<0.75
p,p'-DDE	8081	ug/L	<2.5
Endrin	8081	ug/L	<2.5
Endosulfan II	8081	ug/L	<2.5
p,p'-DDD	8081	ug/L	<1.25
Endrin aldehyde	8081	ug/L	<2.5
Endosulfan sulfate	8081	ug/L	<2.5
p,p'-DDT	8081	ug/L	<2.5
Endrin ketone	8081	ug/L	<2.5
Methoxychlor	8081	ug/L	<2.5
Toxaphene	8081	ug/L	<75
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/18/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10984
Sample Designation	CO-MW-10D
Date Collected	10/16/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/17/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**69**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	10985
Sample Designation	Travel Blank
Date Collected	10/16/01

Parameters	Method	Units	Results
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/18/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11007
Sample Designation	CO-EQBLNK-3
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**87**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			11008
Sample Designation			CO-MW-17
Date Collected			10/17/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**84**
a-BHC	8081	ug/L	**1.6**
b-BHC	8081	ug/L	**2.2**
Lindane	8081	ug/L	**0.48**
d-BHC	8081	ug/L	**4.1**
Heptachlor	8081	ug/L	<0.4
Aldrin	8081	ug/L	<0.4
Heptachlor epoxide	8081	ug/L	<0.5
a-Chlordane	8081	ug/L	<1
g-Chlordane	8081	ug/L	<1
Endosulfan I	8081	ug/L	<0.5
Dieldrin	8081	ug/L	<0.3
p,p'-DDE	8081	ug/L	<1
Endrin	8081	ug/L	<1
Endosulfan II	8081	ug/L	<1
p,p'-DDD	8081	ug/L	<0.5
Endrin aldehyde	8081	ug/L	<1
Endosulfan sulfate	8081	ug/L	<1
p,p'-DDT	8081	ug/L	<1
Endrin ketone	8081	ug/L	<1
Methoxychlor	8081	ug/L	<1
Toxaphene	8081	ug/L	<30

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11009
Sample Designation	CO-MW-1S
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/22/01
Date Analyzed			10/23/01
Surrogate	8081	%	93
a-BHC	8081	ug/L	0.92
b-BHC	8081	ug/L	0.33
Lindane	8081	ug/L	<0.1
d-BHC	8081	ug/L	0.28
Heptachlor	8081	ug/L	<0.08
Aldrin	8081	ug/L	<0.08
Heptachlor epoxide	8081	ug/L	<0.1
a-Chlordane	8081	ug/L	<0.2
g-Chlordane	8081	ug/L	<0.2
Endosulfan I	8081	ug/L	<0.1
Dieldrin	8081	ug/L	<0.06
p,p'-DDE	8081	ug/L	<0.2
Endrin	8081	ug/L	<0.2
Endosulfan II	8081	ug/L	<0.2
p,p'-DDD	8081	ug/L	<0.1
Endrin aldehyde	8081	ug/L	<0.2
Endosulfan sulfate	8081	ug/L	<0.2
p,p'-DDT	8081	ug/L	<0.2
Endrin ketone	8081	ug/L	<0.2
Methoxychlor	8081	ug/L	<0.2
Toxaphene	8081	ug/L	<6
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/22/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

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Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11010
Sample Designation	CO-MW-1D
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/22/01
Date Analyzed			10/23/01
Surrogate	8081	%	71
a-BHC	8081	ug/L	0.12
b-BHC	8081	ug/L	0.82
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	0.52
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	2.5
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/22/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	1.1
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	1.1

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11011
Sample Designation	CO-MW-2S
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/22/01
Date Analyzed			10/23/01
Surrogate	8081	%	83
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11012
Sample Designation	CO-MW-2D
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**57**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	**0.30**
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

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SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11013
Sample Designation	CO-MW-102D
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**93**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	**0.28**
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email. sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			11014
Sample Designation			CO-FB-1
Date Collected			10/17/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	92
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11015
Sample Designation	CO-MW-3S
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**83**
a-BHC	8081	ug/L	**0.55**
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	**1.4**
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	**1.1**
Total Xylenes	8021	ug/L	**2.1**
Total VOA	8021	ug/L	**4.6**

FDEP CompQAP 970077

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P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs			11016
Sample Designation			CO-MW-3D
Date Collected			10/17/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**106**
a-BHC	8081	ug/L	**0.06**
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11017
Sample Designation	CO-MW-103D
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			10/22/01
Date Analyzed			10/23/01
Surrogate	8081	%	88
a-BHC	8081	ug/L	0.07
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0
Volatile Organic Compounds by Method 8021			
Date Analyzed			10/22/01
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11018
Sample Designation	CO-MW-4S
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	**95**
a-BHC	8081	ug/L	**3.1**
b-BHC	8081	ug/L	**9.5**
Lindane	8081	ug/L	<0.5
d-BHC	8081	ug/L	**7.0**
Heptachlor	8081	ug/L	<0.4
Aldrin	8081	ug/L	<0.4
Heptachlor epoxide	8081	ug/L	<0.5
a-Chlordane	8081	ug/L	<1
g-Chlordane	8081	ug/L	<1
Endosulfan I	8081	ug/L	<0.5
Dieldrin	8081	ug/L	<0.3
p,p'-DDE	8081	ug/L	<1
Endrin	8081	ug/L	<1
Endosulfan II	8081	ug/L	<1
p,p'-DDD	8081	ug/L	<0.5
Endrin aldehyde	8081	ug/L	<1
Endosulfan sulfate	8081	ug/L	<1
p,p'-DDT	8081	ug/L	<1
Endrin ketone	8081	ug/L	<1
Methoxychlor	8081	ug/L	<1
Toxaphene	8081	ug/L	<30

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11019
Sample Designation	CO-MW-4D
Date Collected	10/17/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**10/22/01**
Date Analyzed			**10/23/01**
Surrogate	8081	%	74
a-BHC	8081	ug/L	5.1
b-BHC	8081	ug/L	3.6
Lindane	8081	ug/L	<0.5
d-BHC	8081	ug/L	10
Heptachlor	8081	ug/L	<0.4
Aldrin	8081	ug/L	<0.4
Heptachlor epoxide	8081	ug/L	<0.5
a-Chlordane	8081	ug/L	<1
g-Chlordane	8081	ug/L	<1
Endosulfan I	8081	ug/L	<0.5
Dieldrin	8081	ug/L	<0.3
p,p'-DDE	8081	ug/L	<1
Endrin	8081	ug/L	<1
Endosulfan II	8081	ug/L	<1
p,p'-DDD	8081	ug/L	<0.5
Endrin aldehyde	8081	ug/L	<1
Endosulfan sulfate	8081	ug/L	<1
p,p'-DDT	8081	ug/L	<1
Endrin ketone	8081	ug/L	<1
Methoxychlor	8081	ug/L	<1
Toxaphene	8081	ug/L	<30

FDEP CompQAP 970077

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

SunLabs	11020
Sample Designation	Travel Blank
Date Collected	10/17/01

Parameters	Method	Units	Results
Volatile Organic Compounds by Method 8021			
Date Analyzed			**10/22/01**
MTBE	8021	ug/L	<5.0
Benzene	8021	ug/L	<0.9
Toluene	8021	ug/L	<1.2
Ethylbenzene	8021	ug/L	<0.9
Total Xylenes	8021	ug/L	<2.2
Total VOA	8021	ug/L	<0.9

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011017.01	Project Description: Chevron Orlando

October 25, 2001

Footnotes

LCS	*Laboratory Control Sample*
LCSD	*Laboratory Control Sample Duplicate*
MB	*Method Blank*
MI	*Matrix Interference*
MS	*Matrix Spike*
MSD	*Matrix Spike Duplicate*
RPD	*Relative Percent Difference*
SD	*Surrogate diluted out of range.*

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685

Phone 813. 881-9401
Fax 813 881-9401
email. sunlabs@aol.com

Quality Control Data

Batch No: B1747

TestCode: 8081-w

Associated Samples
10971, 10972, 10973, 10974, 10975, 10976, 10977, 10978, 10979, 10980, 10981, 10982, 10983, 10984

Compound	Method Blanks 1	2	3	4	5	LCS	LCSD	RPD	MS	MSD	RPD	Duplicate
Date	10/17/01											
Parent Sample Number												
Date Extracted	10/17/01											
Date Analyzed	10/22/01											
Surrogate	100											
a-BHC	<0.04											
b-BHC	<0.05											
Lindane	<0.05					104	117	12%				
d-BHC	<0.03											
Heptachlor	<0.04					79	92	15%				
Aldrin	<0.04					69	86	22%				
Heptachlor epoxide	<0.05											
a-Chlordane	<0.1											
g-Chlordane	<0.1											
Endosulfan I	<0.05											
Dieldrin	<0.03					107	121	12%				
p,p'-DDE	<0.10											
Endrin	<0.10					107	121	12%				
Endosulfan II	<0.10											
p,p'-DDD	<0.05											
Endrin aldehyde	<0.10											
Endosulfan sulfate	<0.10											
p,p'-DDT	<0.10					108	120	11%				
Endrin ketone	<0.10											
Methoxychlor	<0.10											
Toxaphene	<3.0											

Batch No: B1750

TestCode: BTEX-w

Associated Samples
10971, 10976, 10979, 10982, 10985

Compound	Method Blanks 1	2	3	4	5	LCS	LCSD	RPD	MS	MSD	RPD	Duplicate
Date	10/19/01											
Parent Sample Number									10962	10962		
Date Analyzed	10/18/01											
MTBE	<5.0											
Benzene	<0.9					97	94	3%	106	110	4%	
Toluene	<1.2					98	95	3%	107	108	1%	
Ethylbenzene	<0.9											
Total Xylenes	<2.2											
Total VOA	<0.9											

SunLabs, Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813 831-9401
Fax 813 831-9401
email: sunlabs@aol.com

Quality Control Data

Batch No: b1754

TestCode: 8081-w

Associated Samples
11007, 11008, 11009, 11010, 11011, 11012, 11013, 11014, 11015, 11016, 11017, 11018, 11019

Compound	Method Blanks 1	2	3	4	5	LCS	LCSD	RPD	MS	MSD	RPD	Duplicate
Date	10/22/01											
Parent Sample Number												
Date Extracted	10/22/01											
Date Analyzed	10/23/01											
Surrogate	90											
a-BHC	<0.04											
b-BHC	<0.05											
Lindane	<0.05					110	118	7%				
d-BHC	<0.03											
Heptachlor	<0.04					75	77	3%				
Aldrin	<0.04					63	74	16%				
Heptachlor epoxide	<0.05											
a-Chlordane	<0.1											
g-Chlordane	<0.1											
Endosulfan I	<0.05											
Dieldrin	<0.03					114	128	12%				
p,p'-DDE	<0.10											
Endrin	<0.10					116	127	9%				
Endosulfan II	<0.10											
p,p'-DDD	<0.05											
Endrin aldehyde	<0.10											
Endosulfan sulfate	<0.10											
p,p'-DDT	<0.10					106	119	12%				
Endrin ketone	<0.10											
Methoxychlor	<0.10											
Toxaphene	<3.0											

Batch No: B1757

TestCode: BTEX-w

Associated Samples
11014, 11015, 11016, 11017, 11020

Compound	Method Blanks 1	2	3	4	5	LCS	LCSD	RPD	MS	MSD	RPD	Duplicate
Date	10/23/01											
Parent Sample Number									11014	11014		
Date Analyzed	10/22/01											
MTBE	<5.0											
Benzene	<0.9					95	92	3%	96	91	5%	
Toluene	<1.2					96	93	3%	96	93	3%	
Ethylbenzene	<0.9											
Total Xylenes	<2.2											
Total VOA	<0.9											

SunLabs Inc.
P.O. Box 260454
Tampa, FL 33685

Phone 813. 881-9401
Fax 813. 881-9401
email. sunlabs@aol.com

Quality Control Data

Batch No: B1758

TestCode: 8021A-w

Associated Samples
10981, 10983, 10984, 11007, 11009, 11010

Compound	Method Blanks 1	2	3	4	5	LCS	LCSD	RPD	MS	MSD	RPD	Duplicate
Date	10/23/01											
Parent Sample Number												
Date Analyzed	10/22/01											
Surrogate	95											
MTBE	<5.0											
Benzene	<0.9					102	100	2%				
Toluene	<1.0					114	114	0%				
Ethylbenzene	<1.1											
Chlorobenzene	<1.0					102	104	2%				
Total Xylenes	<1.1											
1,3-Dichlorobenzene	<1.0											
1,4-Dichlorobenzene	<1.0											
1,2-Dichlorobenzene	<1.0											
Total VOA	<0.9											

SunLabs Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813-881-9401
Fax 813-881-9401
email: sunlabs@aol.com

SunLabs, Inc. Chain of Custody

4240

Client Name: TASK ENVIRONMENTAL, INC.
Contact: S. TOBIN
Address: 501 S. BOULEVARD
TAMPA, FL 33606
Phone #: (813) 254-8838
FAX #: (813) 254-8484

SunLabs Projects # 011017.01

Project Name: CHEVRON ORLANDO
Project #: E0126
PO #:
Alt Bill To:

Bottle Type	40ml	1L
Preservative	H	I
Matrix	GW	GW
Analyses / Method Requested	8021*	1688

Due Date Requested:

SubLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	8021*	1688
10971	CO-MW-15	10/16/01	0925	4	✓	✓
10972	CO-MW-5S	10/16/01	1035	1		✓
10973	CO-MW-5D	10/16/01	1110	1		✓
10974	CO-MW-16S	10/16/01	1155	1		✓
10975	CO-MW-11GS	10/16/01	1200	1		✓
10976	CO-EQBLNK-1	10/16/01	1230	4	✓	✓
10977	CO-MW-16D	10/16/01	1235	1		✓
10978	CO-MW-8S	10/16/01	1415	1		✓
10979	CO-EQBLNK-2	10/16/01	1410	4	✓	✓
10980	CO-MW-8D	10/16/01	1500	1		✓
10981	CO-MW-9D	10/16/01	1545	4	✓	✓
10982	CO-MW-10S	10/16/01	1620	4	✓	✓
10983	CO-MW-11OS	10/16/01	1655	4	✓	✓
10984	CO-MW-10D	10/16/01	1755	4	✓	✓

Remarks / Comments:
* BTEX AND MTBE ONLY
- NEED EDD PACKAGE FOR ALL

Sampler Signature / Date: K. [signature] 10/16/01
Printed Name / Affiliation: KEVIN C. MURPHY / TASK ENV.

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED / UNRETURNED SAMPLE KITS AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
[signature]	[signature]		
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By: K. [signature]	Relinquished To:	Date: 10/16/01	Time:
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			

Internal Use Only
Shipping Info:
Shipping Method:
Airbill #:
PIF#:
Cooler Temp: _____ C

Matrix Codes:
A = Air
DW = Drinking Water
GW = Ground Water
SE = Sediment
SO = Soil
SW = Surface Water
W = Water (Blanks)
O = Other (Specify)

Preservative Codes:
H = Hydrochloric Acid + Ice
I = Ice only
N = Nitric Acid + Ice
S = Sulfuric Acid + Ice
O = Other (Specify)

* 10985 Travel Blank

SunLabs, Inc. Chain of Custody

Client Name: TASK ENVIRONMENTAL, INC.
Contact: S. TOBIN
Address: 501 S. BOULEVARD
TAMPA, FL 33606
Phone #: (813) 254-8838
FAX #: (813) 254-8484

SunLabs Projects # 011018.09

Project Name: CHEVRON ORLANDO
Project #: E0126
PO #:
Alt Bill To:

Bottle Type	40ML	AJ
Preservative	H	I
Matrix	GW	GW
Analyses / Method Requested	8021*	8081

SubLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	8021*	8081
11007	CO-EQBLNK-3	10/17/01	0830	4	✓	✓
11008	CO-MW-17	10/17/01	0855	1		✓
11009	CO-MW-1S	10/17/01	0925	4	✓	✓
11010	CO-MW-1Δ	10/17/01	1010	4	✓	✓
11011	CO-MW-2S	10/17/01	1050	1		✓
11012	CO-MW-2Δ	10/17/01	1130	1		✓
11013	CO-MW-102Δ	10/17/01	1135	1		✓
11014	CO-FB-1	10/17/01	1310	4	✓	✓
11015	CO-MW-3S	10/17/01	1345	4	✓	✓
11016	CO-MW-3Δ	10/17/01	1435	4	✓	✓
11017	CO-MW-103Δ	10/17/01	1440	4	✓	✓
11018	CO-MW-4S	10/17/01	1525	1		✓
11019	CO-MW-4Δ	10/17/01	1615	1		✓
11020	TRAVEL BLANK				✓	

Due Date Requested:

Remarks / Comments:
*BTEX AND MTBE ONLY
- NEED EDD PACKAGE FOR ALL

Sampler Signature / Date: [signature] 10/17/01

Printed Name / Affiliation: KEVIN C. MURPHY / TASK ENVIRONMENTAL

Internal Use Only
Shipping Info:
Shipping Method:
Airbill #:
PIF#:
Cooler Temp: _____ C

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED / UNRETURNED SAMPLE KITS AND TO RETURN UNUSED SAMPLES.

Relinquished By:	Relinquished To:	Date:	Time:
[signature]	[signature]		
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By: [signature]	Relinquished To: [signature]	Date: 10/18/01	Time: 1045
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			

Matrix Codes:
A = Air
DW = Drinking Water
GW = Ground Water
SE = Sediment
SO = Soil
SW = Surface Water
W = Water (Blanks)
O = Other (Specify)

Preservative Codes:
H = Hydrochloric Acid + Ice
I = Ice only
N = Nitric Acid + Ice
S = Sulfuric Acid + Ice
O = Other (Specify)

November 21, 2001

Task Environmental Consultants, Inc.
501 South Boulevard
Tampa, FL 33606

Re SunLabs Project Number: **011114.01**
Client Project Description: **Chevron Orlando**

Dear Ms. Tobin:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
11313	CO-MW-11	11/13/01
11314	CO-MW-12	11/13/01
11315	CO-MW-15	11/13/01
11316	CO-MW-115	11/13/01
11317	CO-EQBLNK-1	11/13/01

Footnotes are given at the end of the report, when applicable.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

SunLabs, Inc.

P.O. Box 260454
Tampa, FL 33685

Phone 813. 881-9401
Fax 813 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

SunLabs			11313
Sample Designation			CO-MW-11
Date Collected			11/13/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**11/15/01**
Date Analyzed			**11/16/01**
Surrogate	8081	%	71
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685
Phone 813. 881-9401
Fax 813. 881-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

SunLabs	11314
Sample Designation	CO-MW-12
Date Collected	11/13/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**11/15/01**
Date Analyzed			**11/16/01**
Surrogate	8081	%	**60**
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

SunLabs			11315
Sample Designation			CO-MW-15
Date Collected			11/13/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**11/15/01**
Date Analyzed			**11/16/01**
Surrogate	8081	%	**70**
a-BHC	8081	ug/L	**0.05**
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

SunLabs	11316
Sample Designation	CO-MW-115
Date Collected	11/13/01

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			**11/15/01**
Date Analyzed			**11/1655/01**
Surrogate	8081	%	**64**
a-BHC	8081	ug/L	**0.05**
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

SunLabs			11317
Sample Designation			CO-EQBLNK-1
Date Collected			11/13/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			11/15/01
Date Analyzed			11/16/01
Surrogate	8081	%	68
a-BHC	8081	ug/L	<0.04
b-BHC	8081	ug/L	<0.05
Lindane	8081	ug/L	<0.05
d-BHC	8081	ug/L	<0.03
Heptachlor	8081	ug/L	<0.04
Aldrin	8081	ug/L	<0.04
Heptachlor epoxide	8081	ug/L	<0.05
a-Chlordane	8081	ug/L	<0.1
g-Chlordane	8081	ug/L	<0.1
Endosulfan I	8081	ug/L	<0.05
Dieldrin	8081	ug/L	<0.03
p,p'-DDE	8081	ug/L	<0.10
Endrin	8081	ug/L	<0.10
Endosulfan II	8081	ug/L	<0.10
p,p'-DDD	8081	ug/L	<0.05
Endrin aldehyde	8081	ug/L	<0.10
Endosulfan sulfate	8081	ug/L	<0.10
p,p'-DDT	8081	ug/L	<0.10
Endrin ketone	8081	ug/L	<0.10
Methoxychlor	8081	ug/L	<0.10
Toxaphene	8081	ug/L	<3.0

FDEP CompQAP 970077

SunLabs,Inc.
P.O. Box 260454
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Phone 813 831-9401
Fax 813. 831-9401
email: sunlabs@aol.com

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011114.01	Project Description: Chevron Orlando

November 21, 2001

Footnotes

LCS	*Laboratory Control Sample*
LCSD	*Laboratory Control Sample Duplicate*
MB	*Method Blank*
MI	*Matrix Interference*
MS	*Matrix Spike*
MSD	*Matrix Spike Duplicate*
RPD	*Relative Percent Difference*

SunLabs,Inc.
P.O. Box 260454
Tampa, FL 33685

Phone 813. 881-9401
Fax 813. 881-9401
email sunlabs@aol.com

SunLabs, Inc. Chain of Custody

4238

Client Name: TASK ENVIRONMENTAL, INC.
Contact: S. TERZI
Address: 501 S. BOULEVARD
TAMPA, FL 33606
Phone #: (813) 254-8838
FAX #: (813) 254-8484

SunLabs Projects # 011114.01

Project Name: CHEVRON ORLANDO
Project #: E0126
PO #:
Alt Bill To:

Bottle Type	AJ										
Preservative	I										
Matrix	GW										
Analyses / Method Requested	8081										

SubLabs Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	8081
11313	CO-MW-11	11/13/01	1105	1	✓
11314	CO-MW-12	11/13/01	1155	1	✓
11315	CO-MW-15	11/13/01	1255	1	✓
11316	CO-MW-115	11/13/01	1300	1	✓
11317	CO-EQBLNK-01	11/13/01	~~1206~~ 1250	1	✓

Due Date Requested:

Remarks / Comments:
* NEED EDD PACKAGE FOR ALL

Sampler Signature / Date: K. Murphy 11/13/01

Printed Name / Affiliation: KEVIN C MURPHY / TASK ENVIRONMENTAL

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED / UNRETURNED SAMPLE KITS AND TO RETURN UNUSED SAMPLES.

Internal Use Only
Shipping Info:
Shipping Method:
Airbill #:
PIF#:
Cooler Temp: _____ C

Relinquished By:	Relinquished To:	Date:	Time:
M P [illegible]	K. Murphy		
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By: K. Murphy	Relinquished To: [illegible]	Date: 11/14/01	Time: 11:30
Print Name / Affiliation: KEVIN MURPHY / TASK ENV.			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			
Relinquished By:	Relinquished To:	Date:	Time:
Print Name / Affiliation:			

Matrix Codes:
A = Air
DW = Drinking Water
GW = Ground Water
SE = Sediment
SO = Soil
SW = Surface Water
W = Water (Blanks)
O = Other (Specify)

Preservative Codes:
H = Hydrochloric Acid + Ice
I = Ice only
N = Nitric Acid + Ice
S = Sulfuric Acid + Ice
O = Other (Specify)

Report of Laboratory Analysis

SunLabs Project Number	Task Environmental Consultants, Inc.
011211.03	Project Description: Royal Palms

December 21, 2001

SunLabs	11528	
Sample Designation	RP-GW-MW-3R	MW-15
Date Collected	12/10/01	

Parameters	Method	Units	Results
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			12/12/01
Date Analyzed			12/17/01
Surrogate	8081	%	82
a-BHC	8081	ug/L	0.06
b-BHC	8081	ug/L	<0.01
Lindane	8081	ug/L	<0.01
d-BHC	8081	ug/L	<0.006
Heptachlor	8081	ug/L	<0.008
Aldrin	8081	ug/L	<0.008
Heptachlor epoxide	8081	ug/L	<0.01
a-Chlordane	8081	ug/L	<0.02
g-Chlordane	8081	ug/L	<0.02
Endosulfan I	8081	ug/L	<0.01
Dieldrin	8081	ug/L	<0.006
p,p'-DDE	8081	ug/L	<0.02
Endrin	8081	ug/L	<0.02
Endosulfan II	8081	ug/L	<0.02
p,p'-DDD	8081	ug/L	<0.01
Endrin aldehyde	8081	ug/L	<0.02
Endosulfan sulfate	8081	ug/L	<0.02
p,p'-DDT	8081	ug/L	<0.02
Endrin ketone	8081	ug/L	<0.02
Methoxychlor	8081	ug/L	<0.02
Toxaphene	8081	ug/L	<0.6

FDEP CompQAP 970077

Report of Laboratory Analysis

SunLabs Project Number: 011211.03

Task Environmental Consultants, Inc.

Project Description: Royal Palms

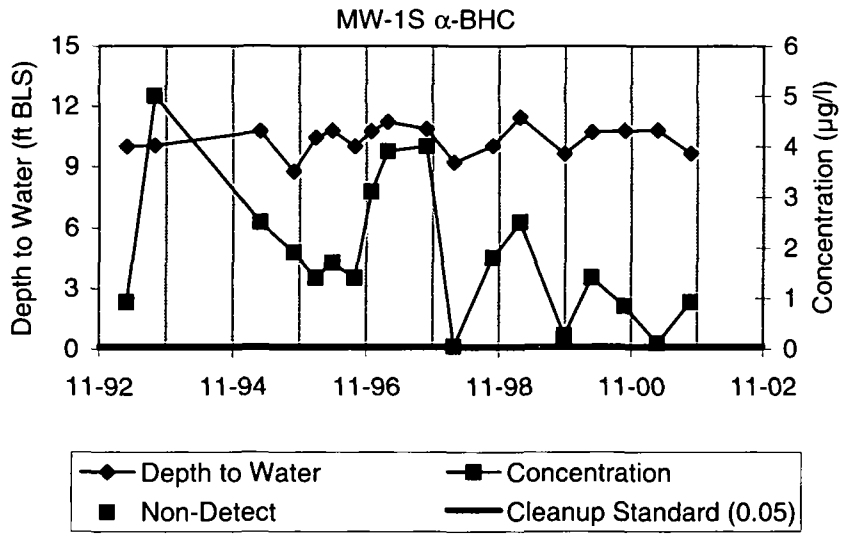
December 21, 2001

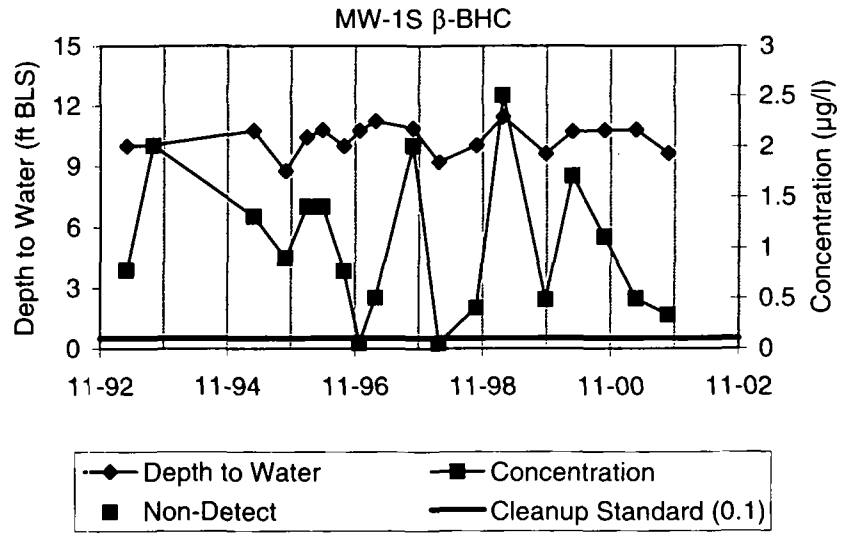
SunLabs			11530
Sample Designation			RP-GW-MW-5 MW-15 (Duplicate)
Date Collected			12/10/01
Parameters	**Method**	**Units**	**Results**
Organochlorine Pesticides by EPA Method 8081			
Date Extracted			12/12/01
Date Analyzed			12/17/01
Surrogate	8081	%	65
a-BHC	8081	ug/L	<0.008
b-BHC	8081	ug/L	<0.01
Lindane	8081	ug/L	<0.01
d-BHC	8081	ug/L	<0.006
Heptachlor	8081	ug/L	<0.008
Aldrin	8081	ug/L	<0.008
Heptachlor epoxide	8081	ug/L	<0.01
a-Chlordane	8081	ug/L	<0.02
g-Chlordane	8081	ug/L	<0.02
Endosulfan I	8081	ug/L	<0.01
Dieldrin	8081	ug/L	<0.006
p,p'-DDE	8081	ug/L	<0.02
Endrin	8081	ug/L	<0.02
Endosulfan II	8081	ug/L	<0.02
p,p'-DDD	8081	ug/L	<0.01
Endrin aldehyde	8081	ug/L	<0.02
Endosulfan sulfate	8081	ug/L	<0.02
p,p'-DDT	8081	ug/L	<0.02
Endrin ketone	8081	ug/L	<0.02
Methoxychlor	8081	ug/L	<0.02
Toxaphene	8081	ug/L	<0.6

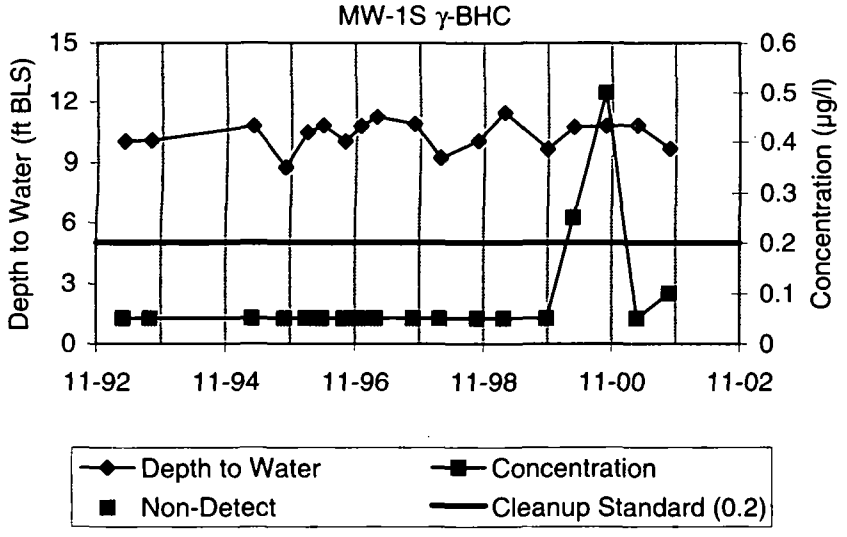
FDEP CompQAP 970077

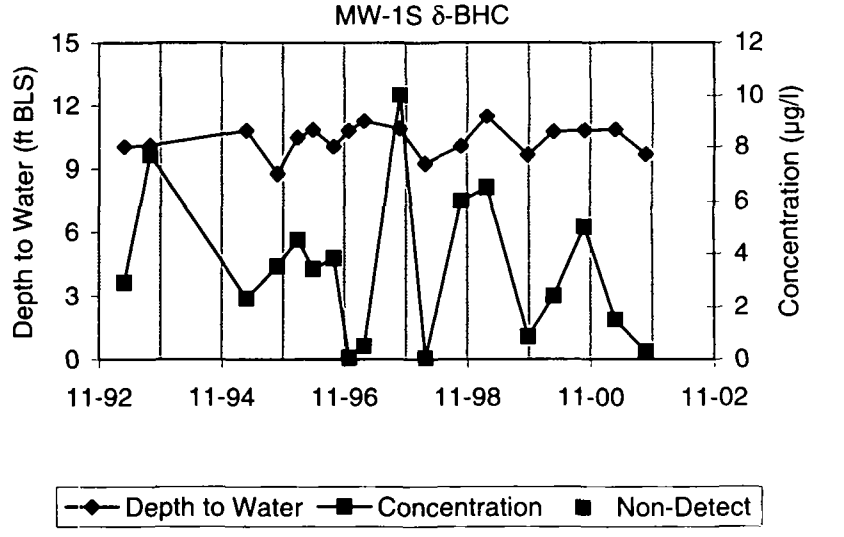
Appendix B. Depth to Water vs. Concentration at Chevron, Orlando

Plots of water levels and COC concentrations.

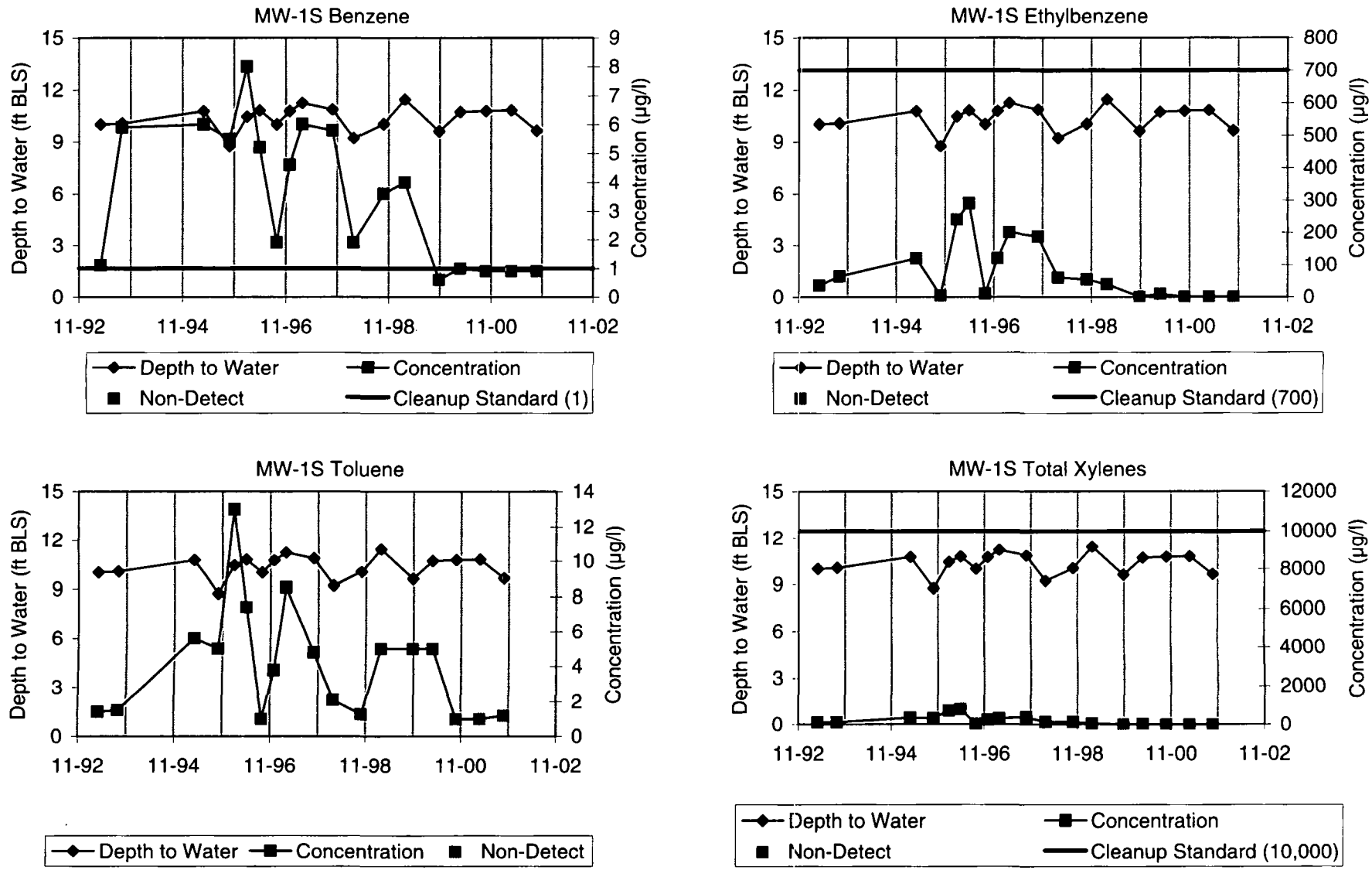




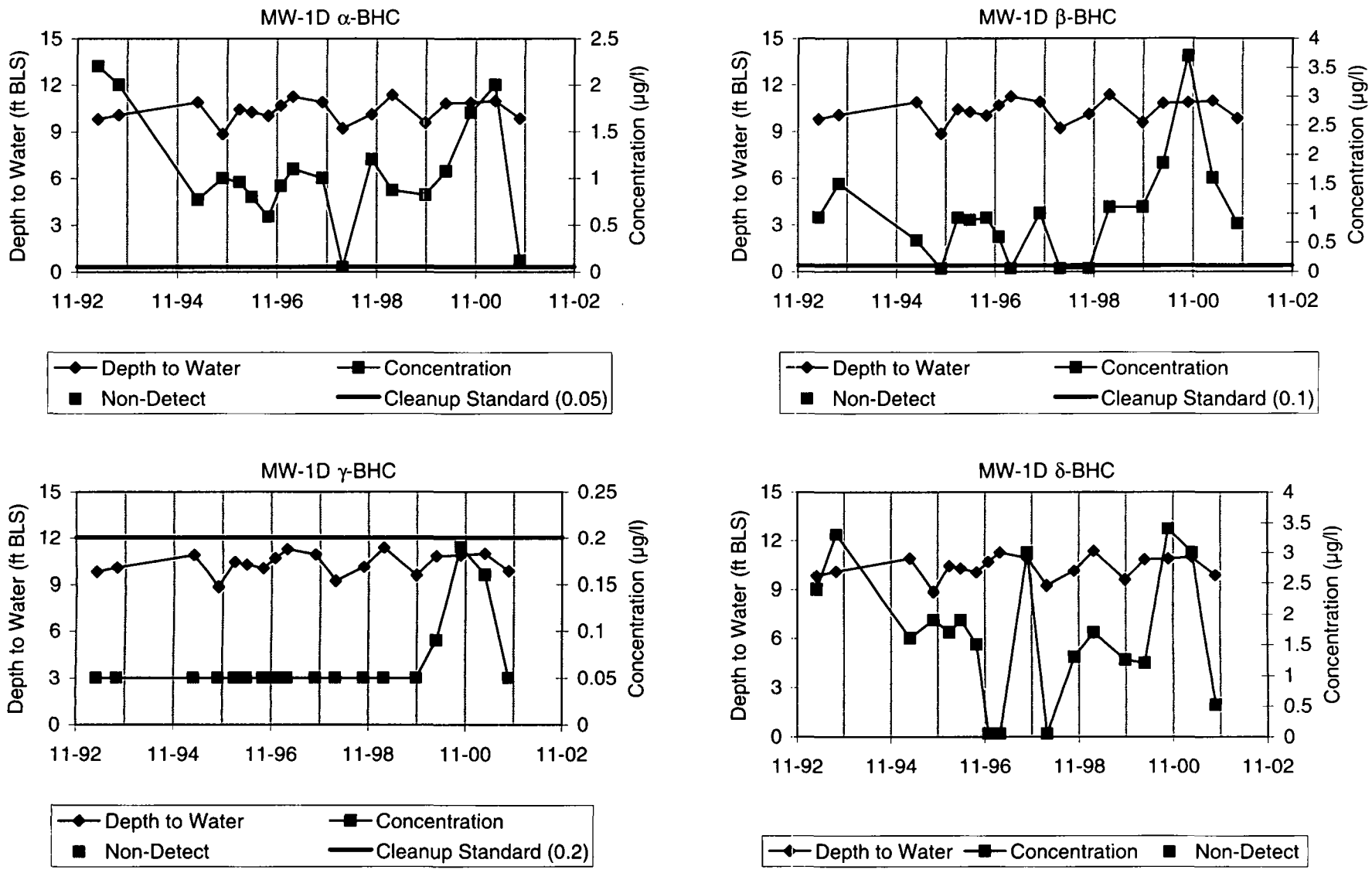




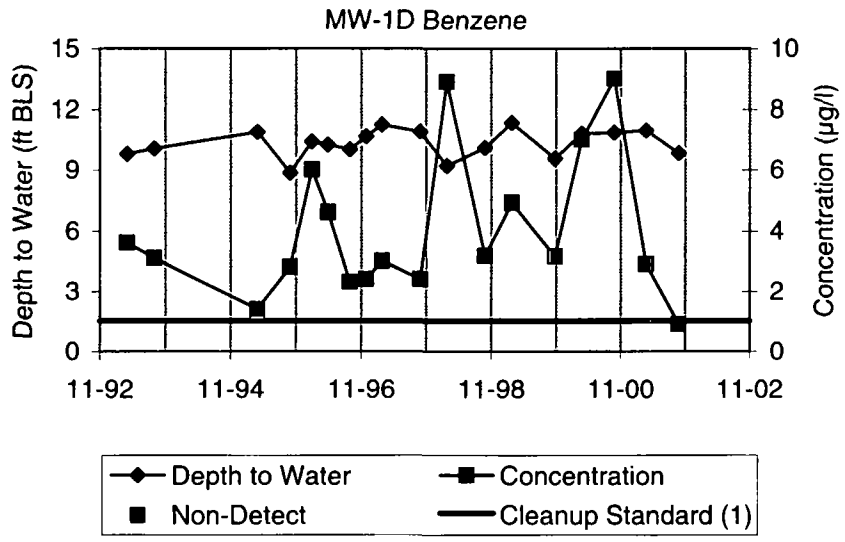
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

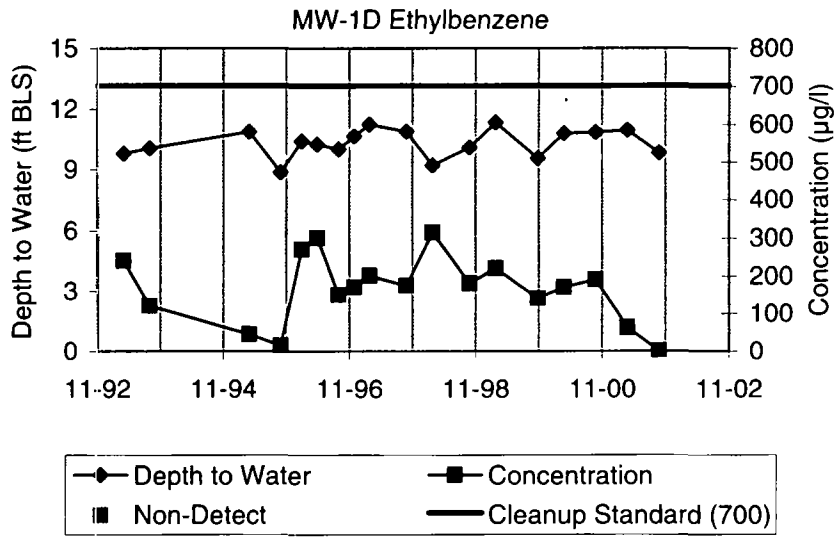


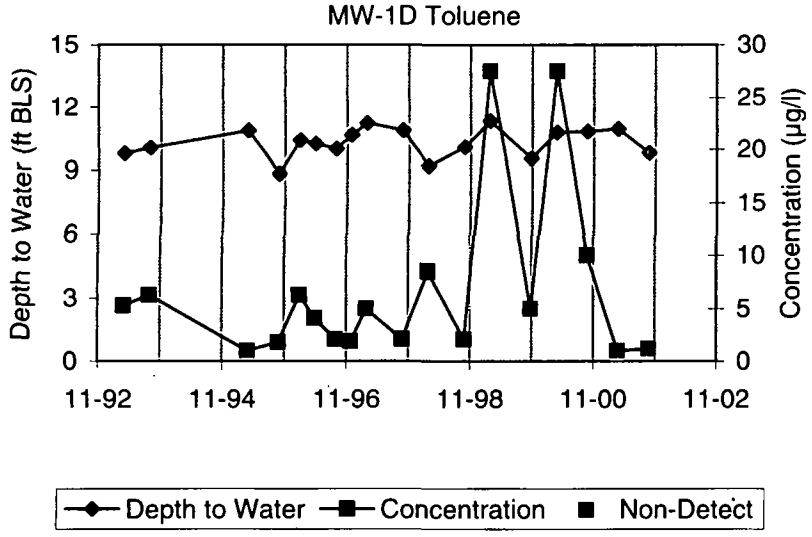
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

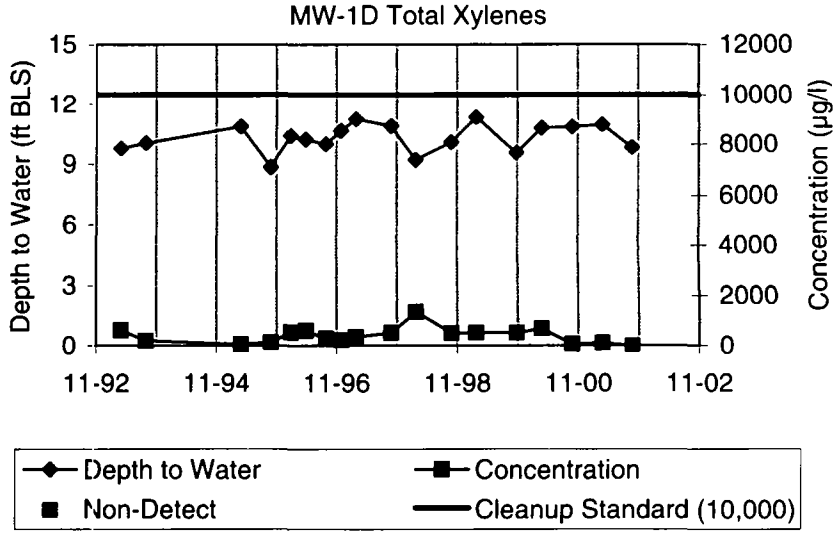


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

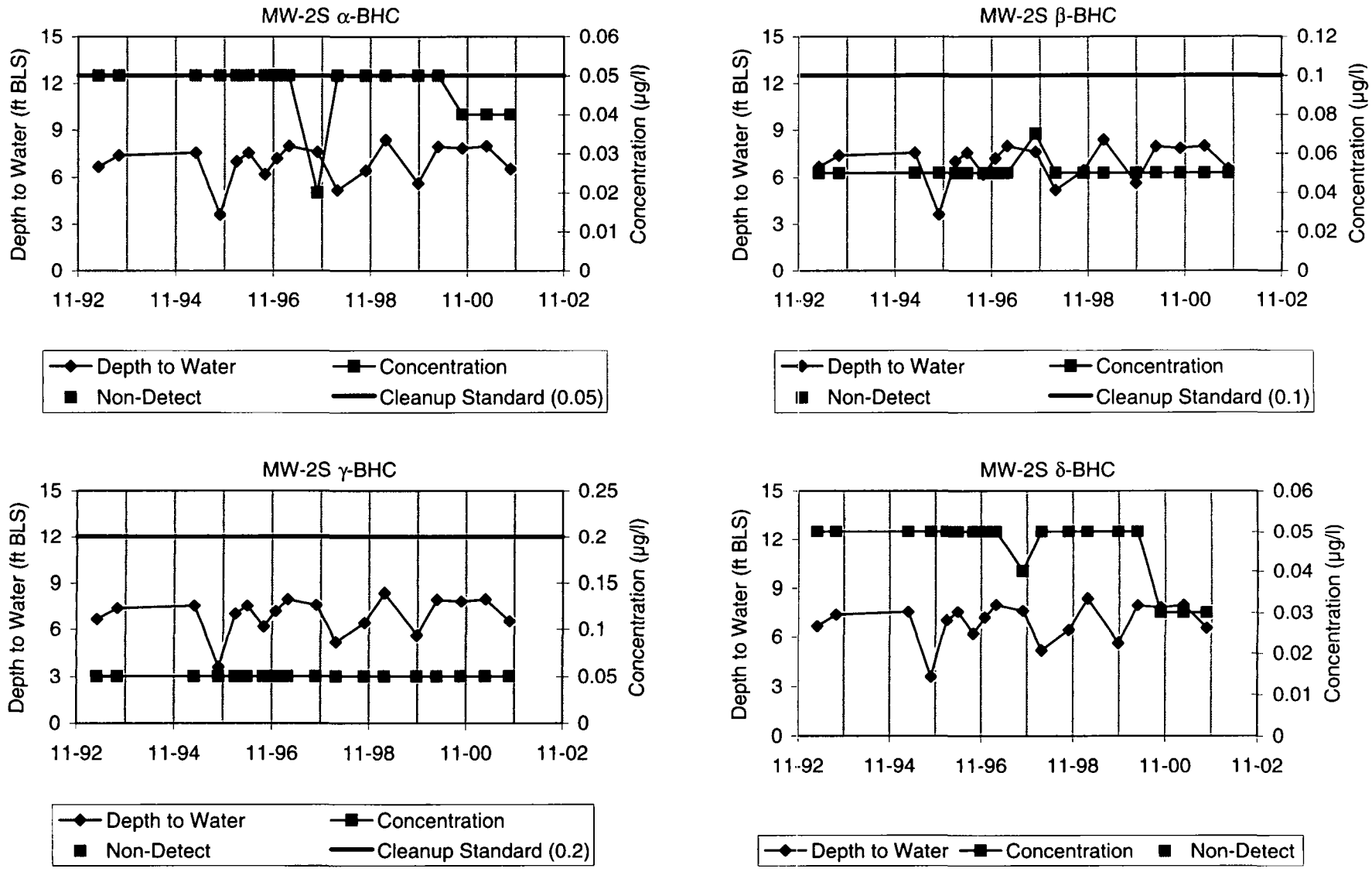




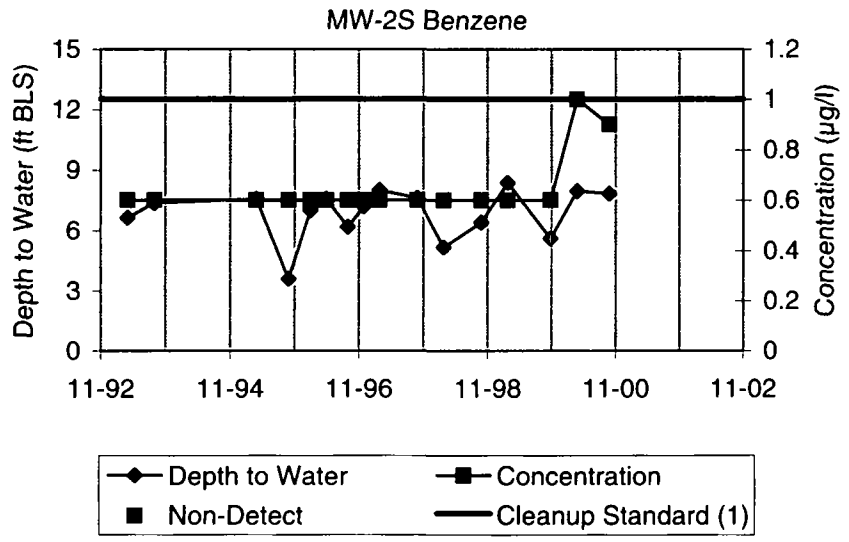


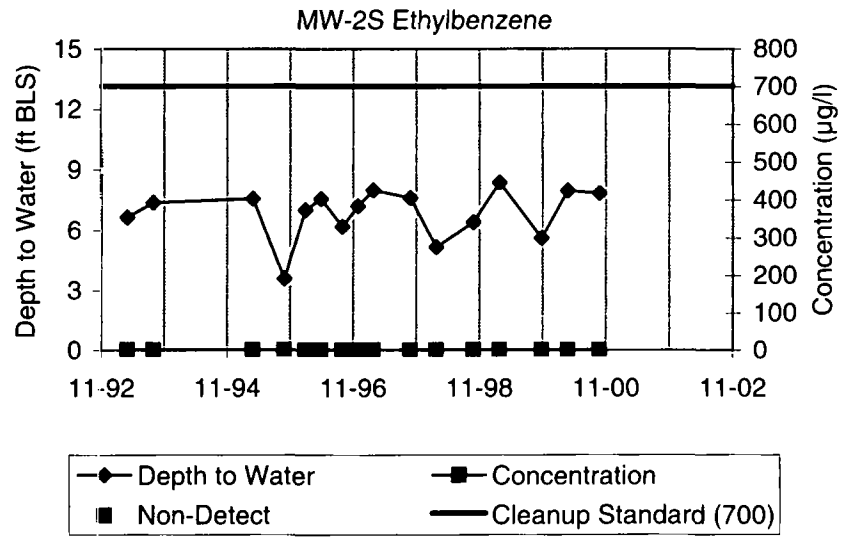


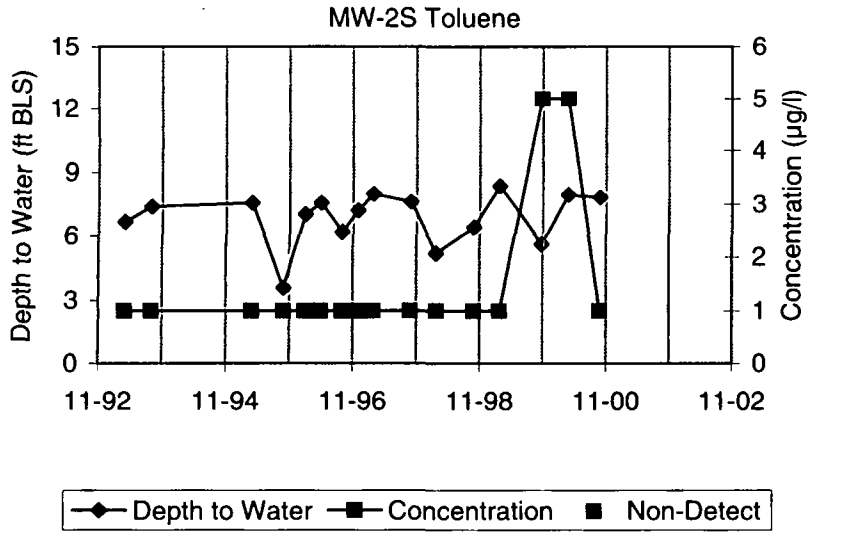
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

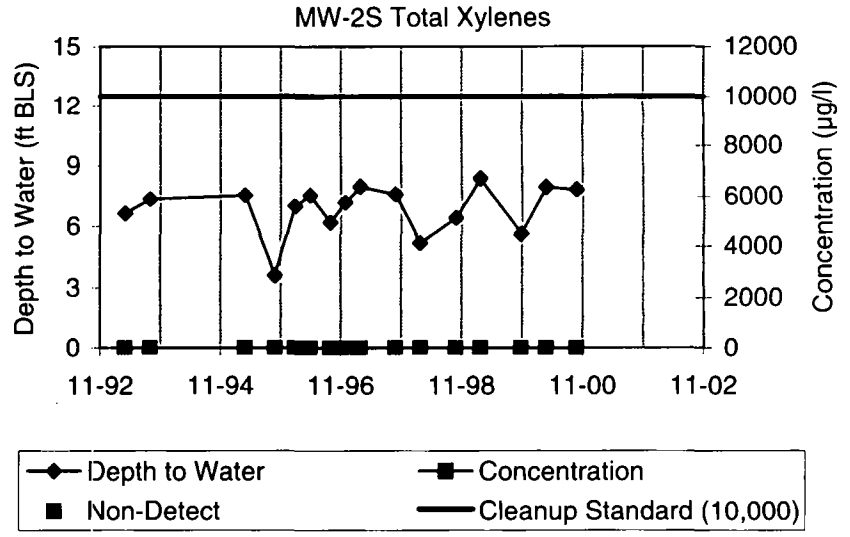


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

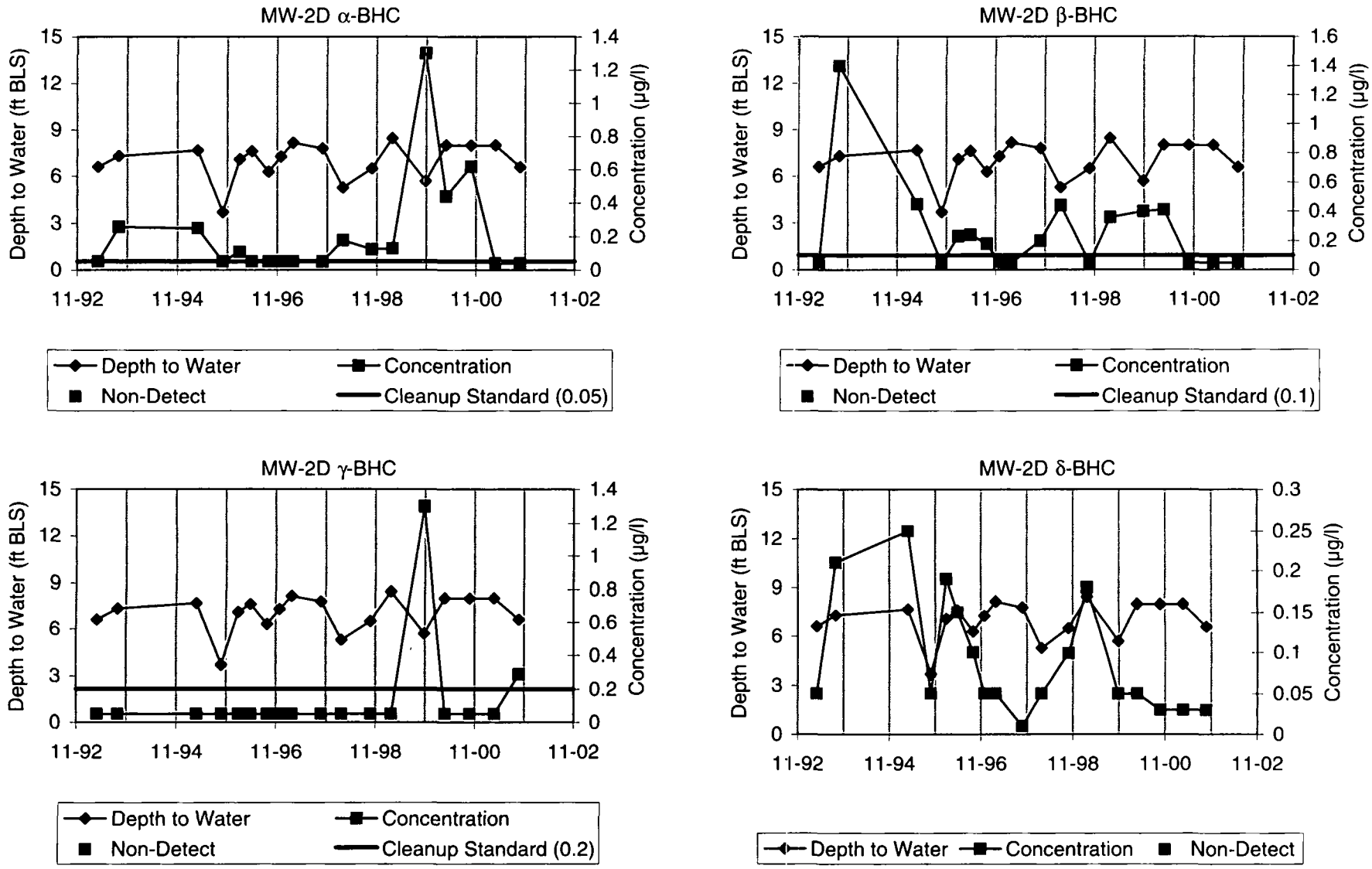




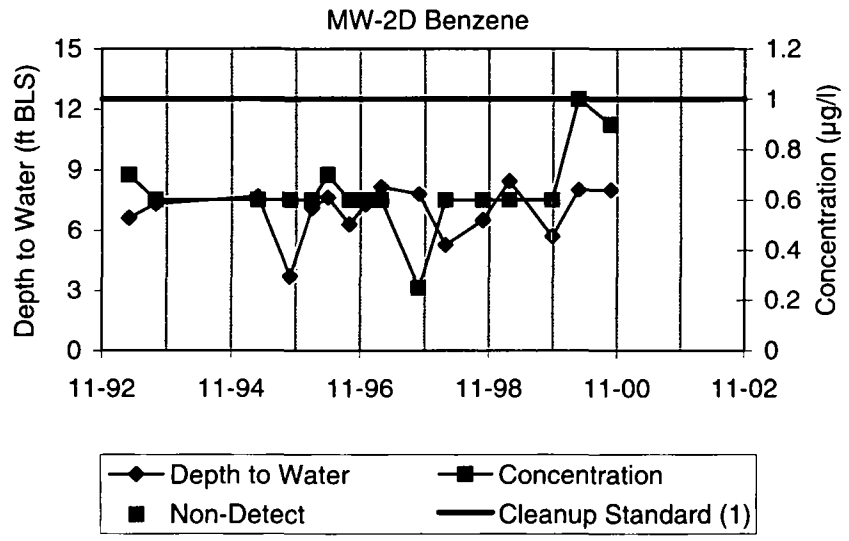


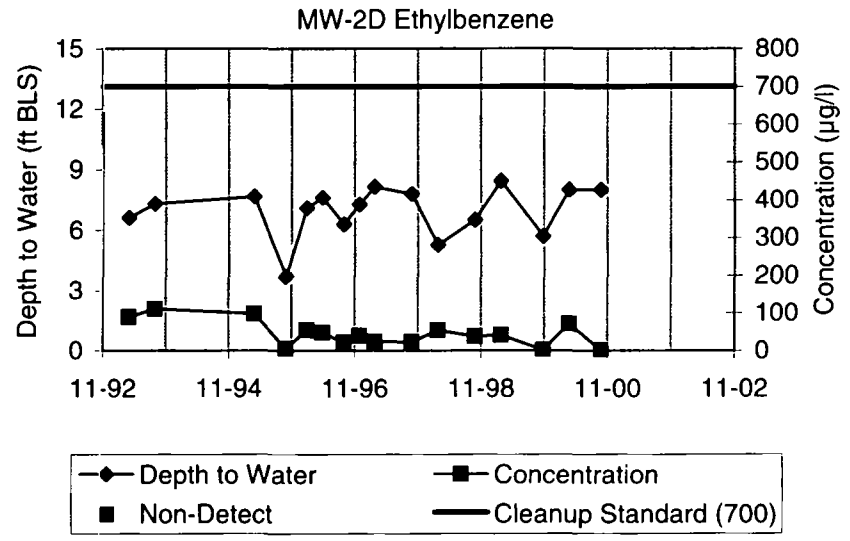


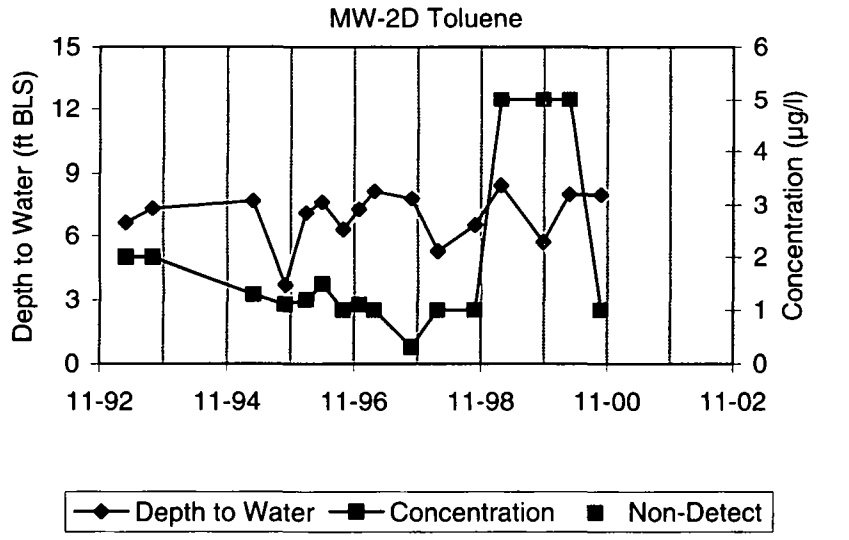
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-2S not sampled for BTEX in October 2001.)	Geomega

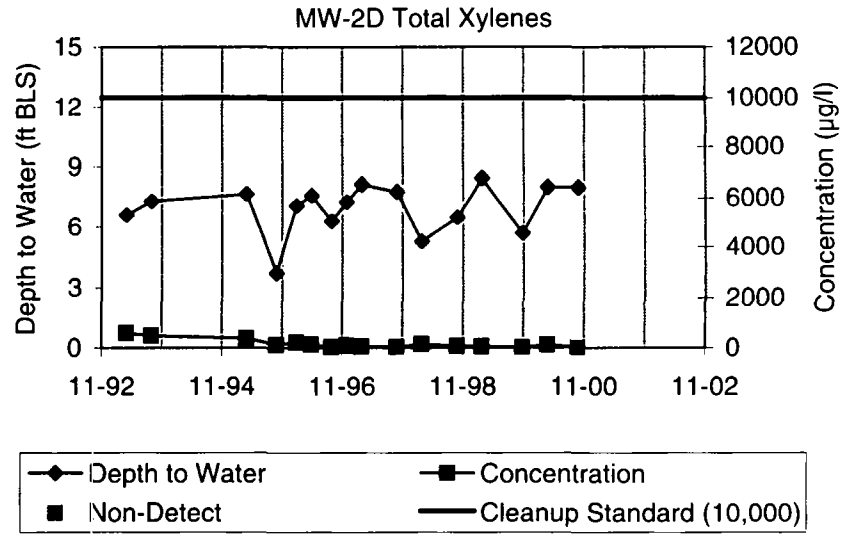


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

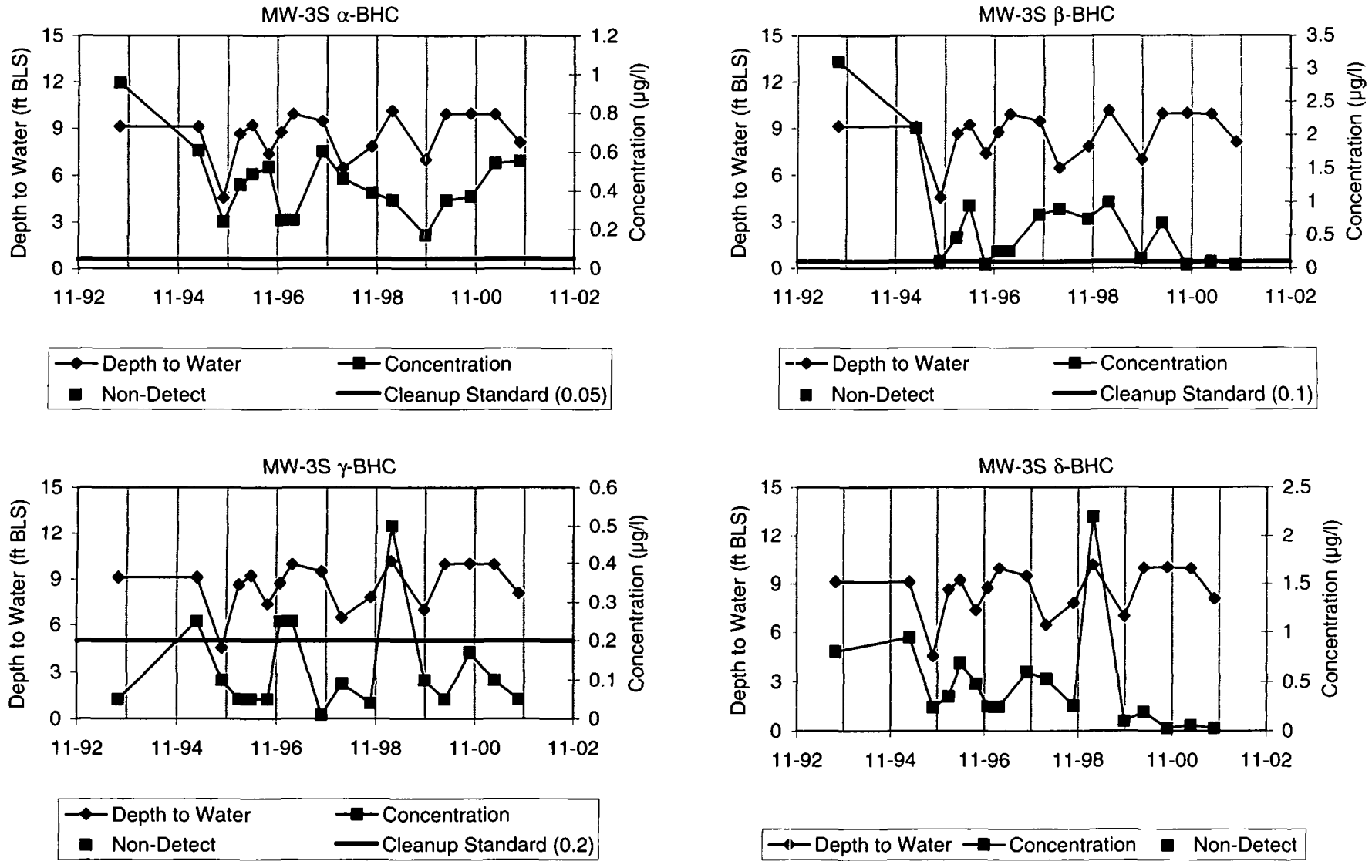




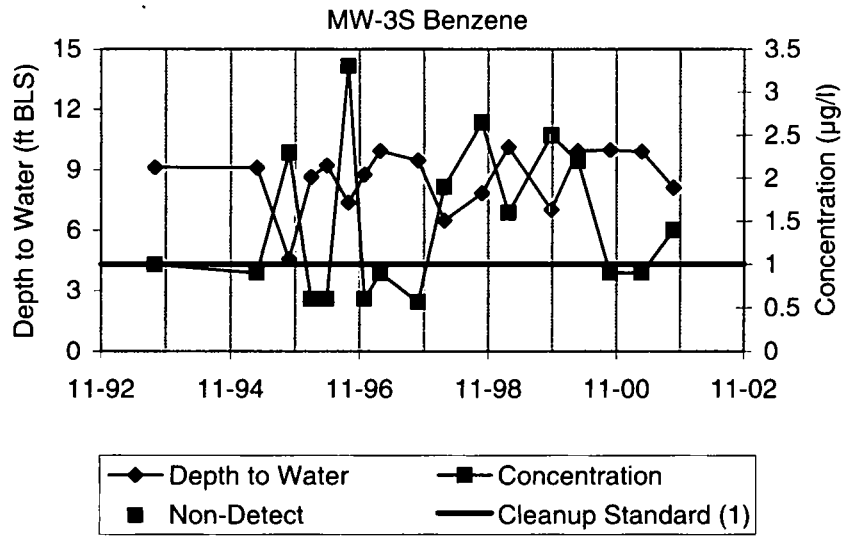


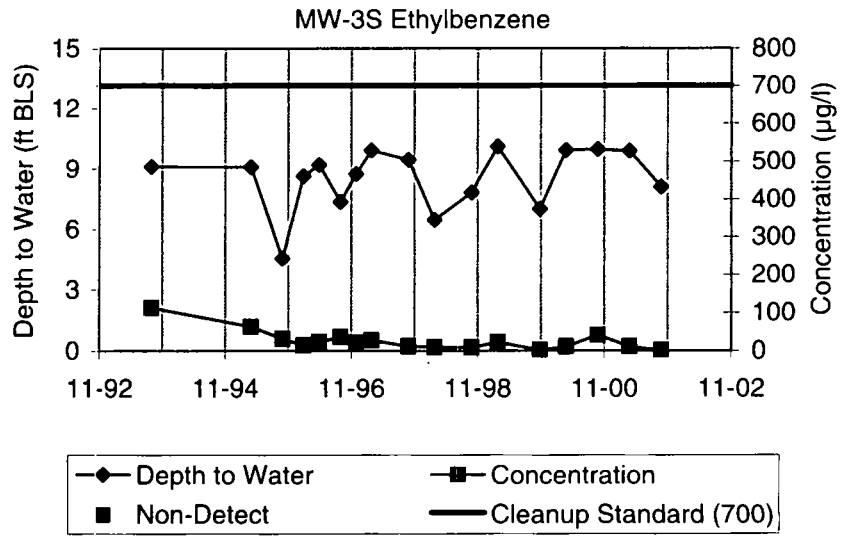


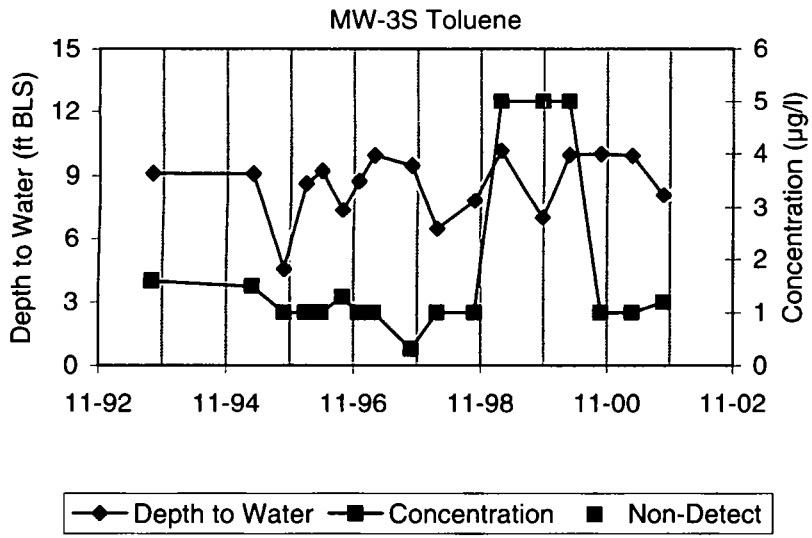
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-2D not sampled for BTEX in October 2001.)	Geomega

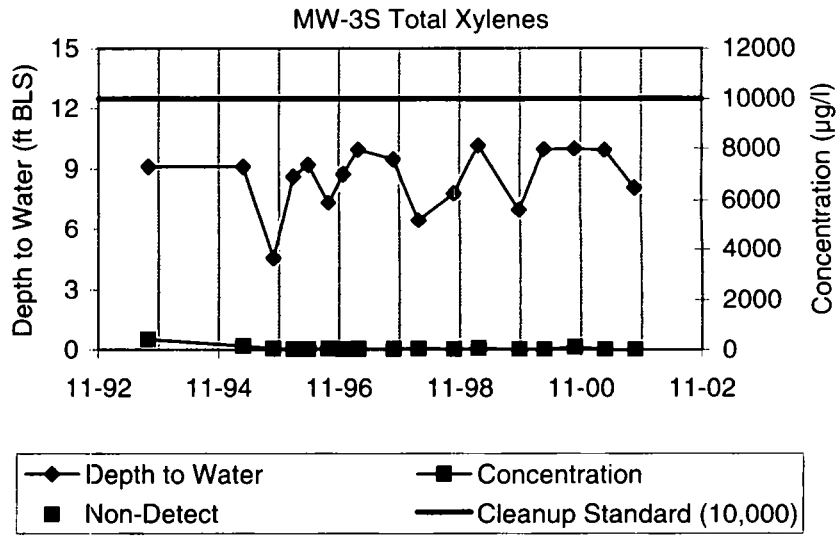


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

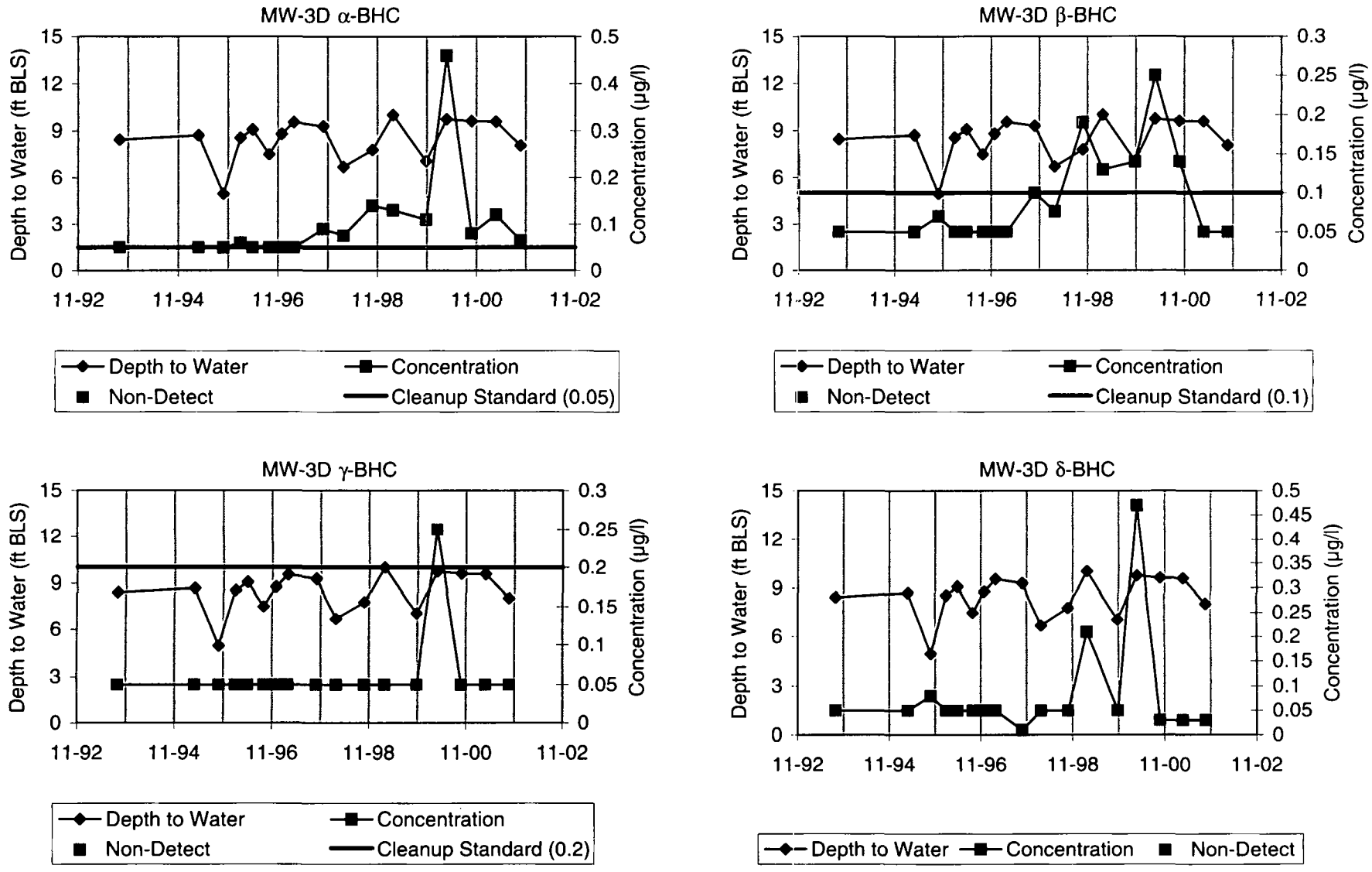




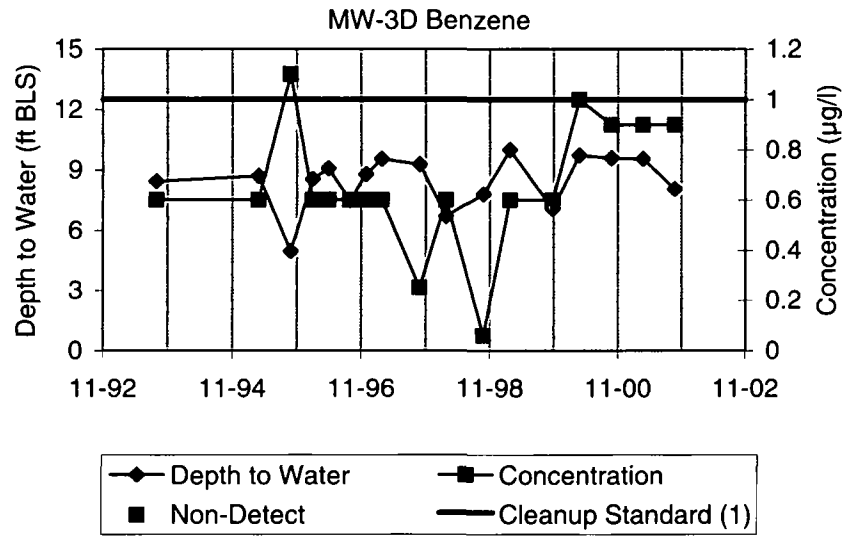


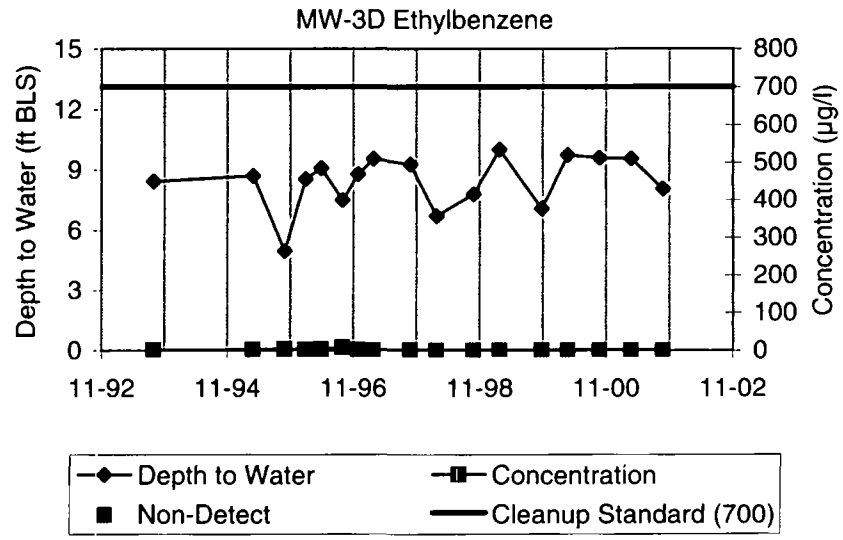


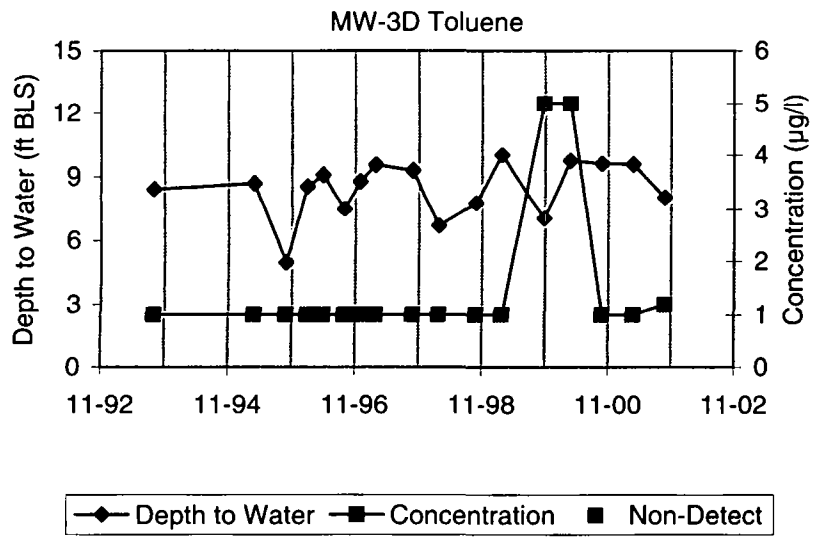
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

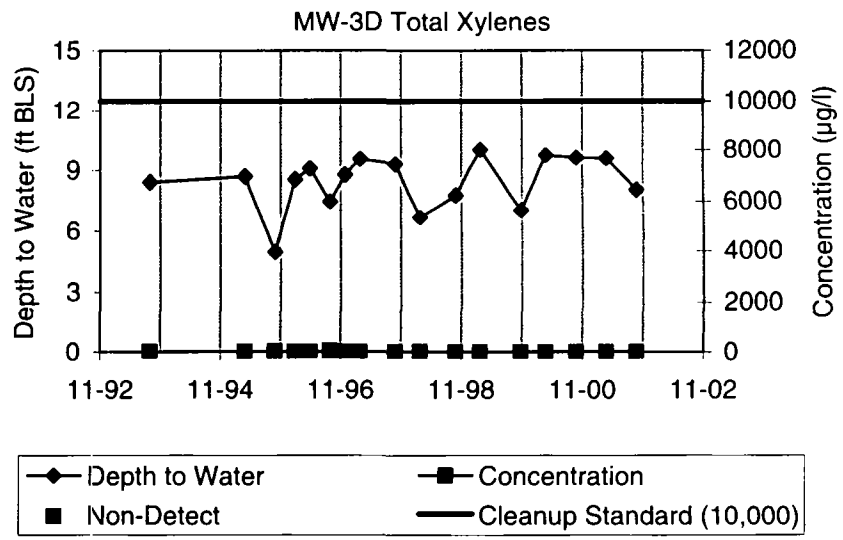


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

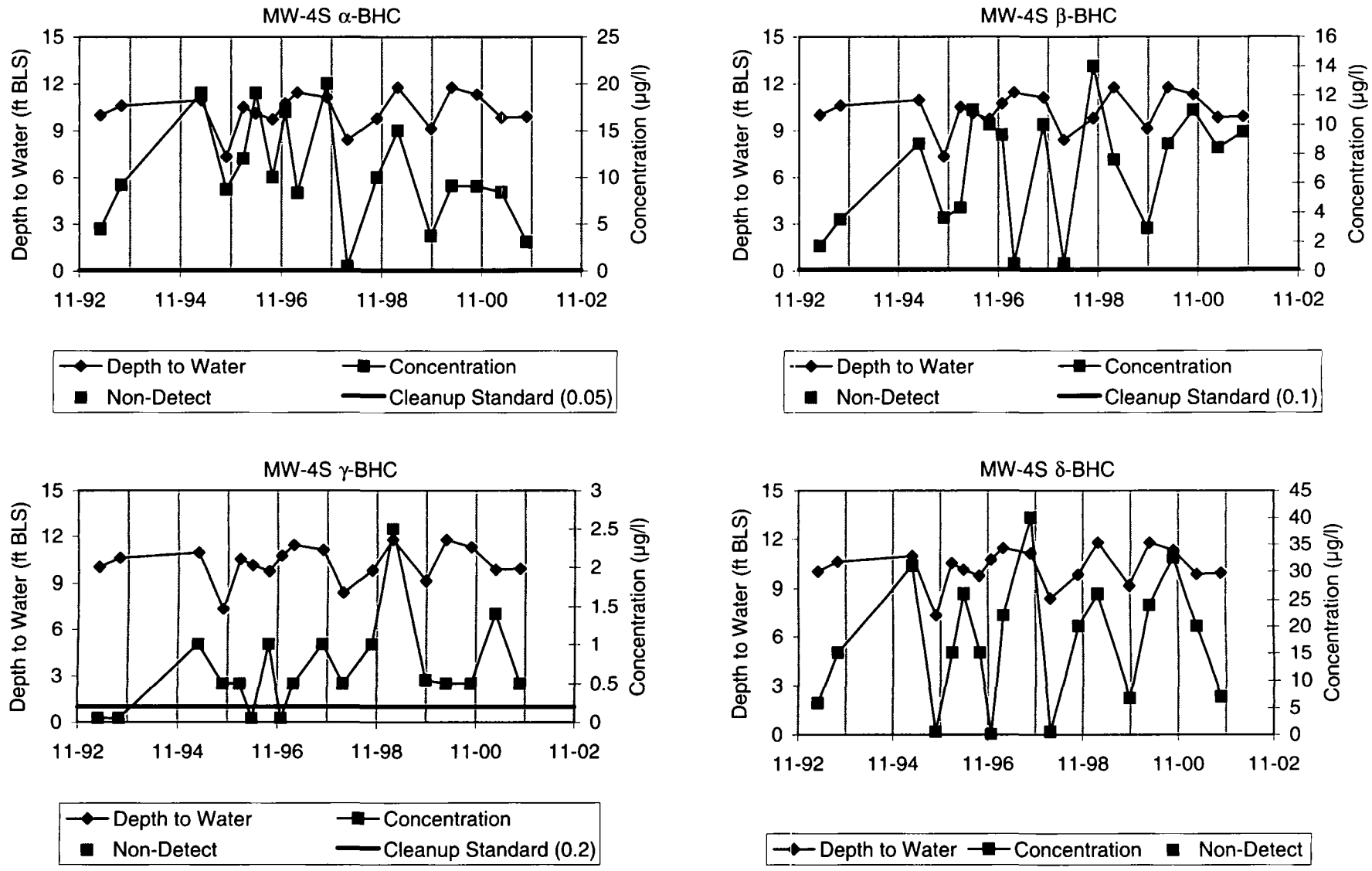




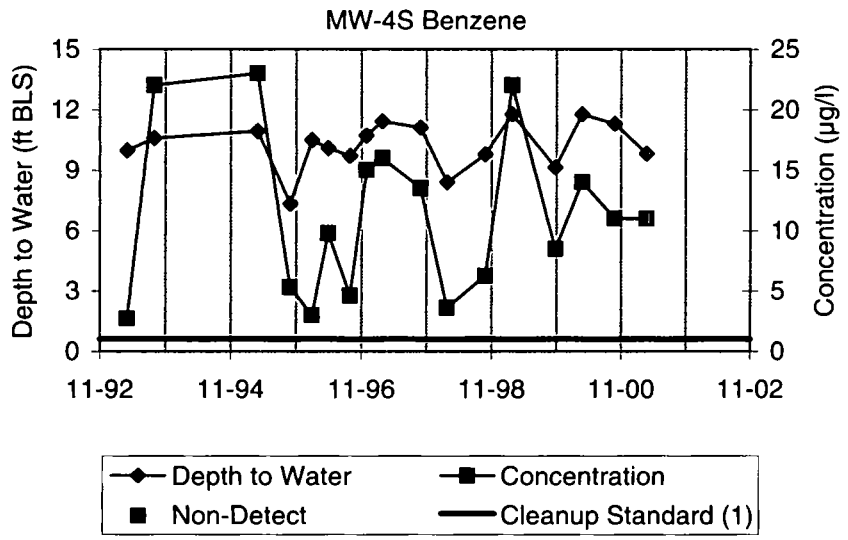


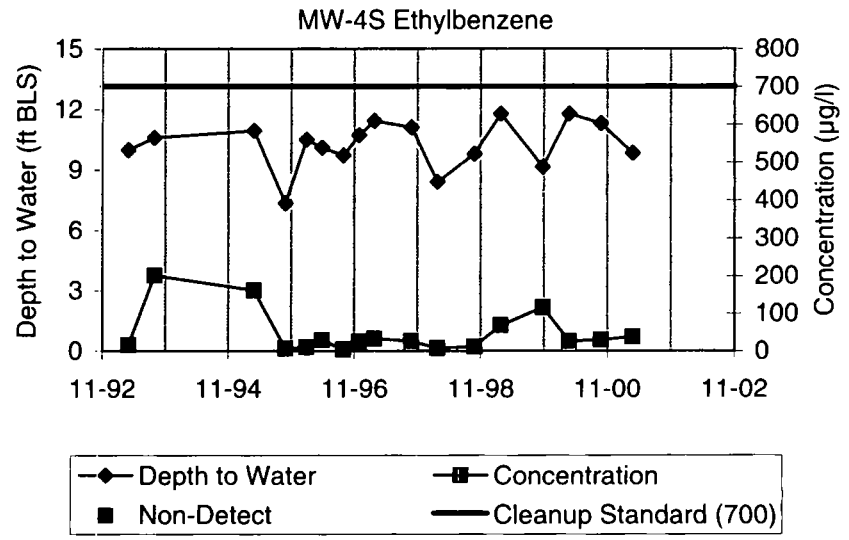


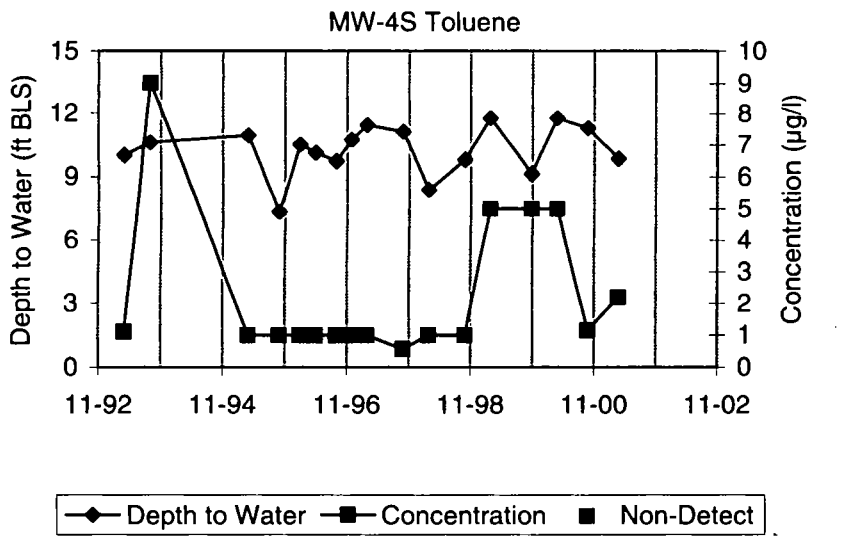
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

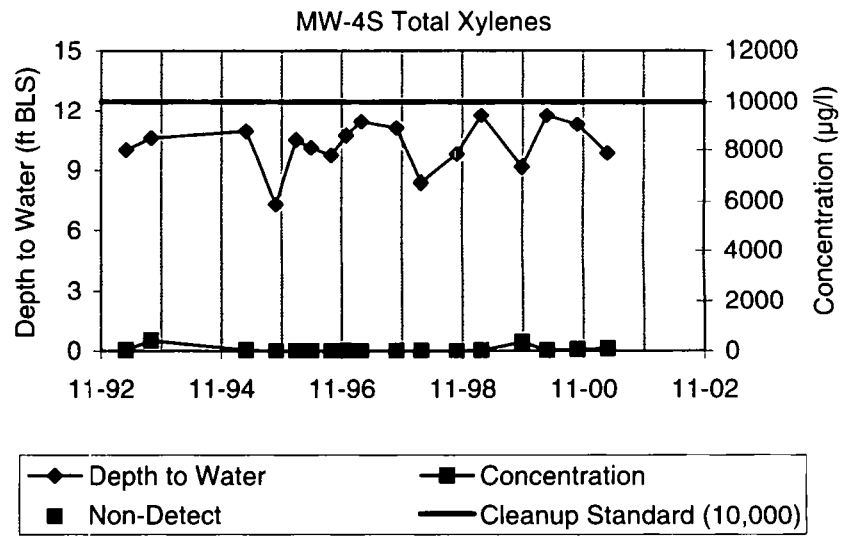


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

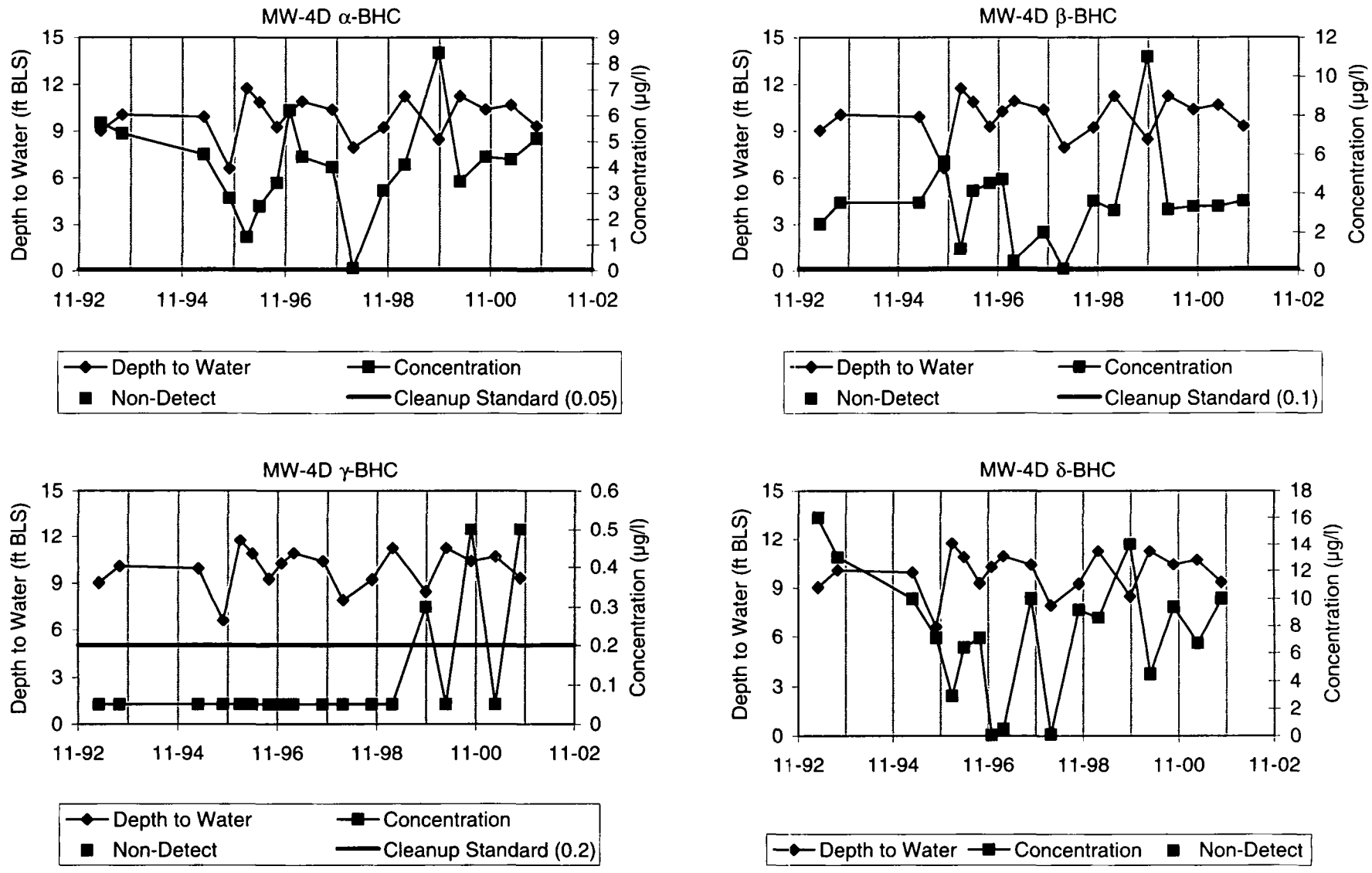




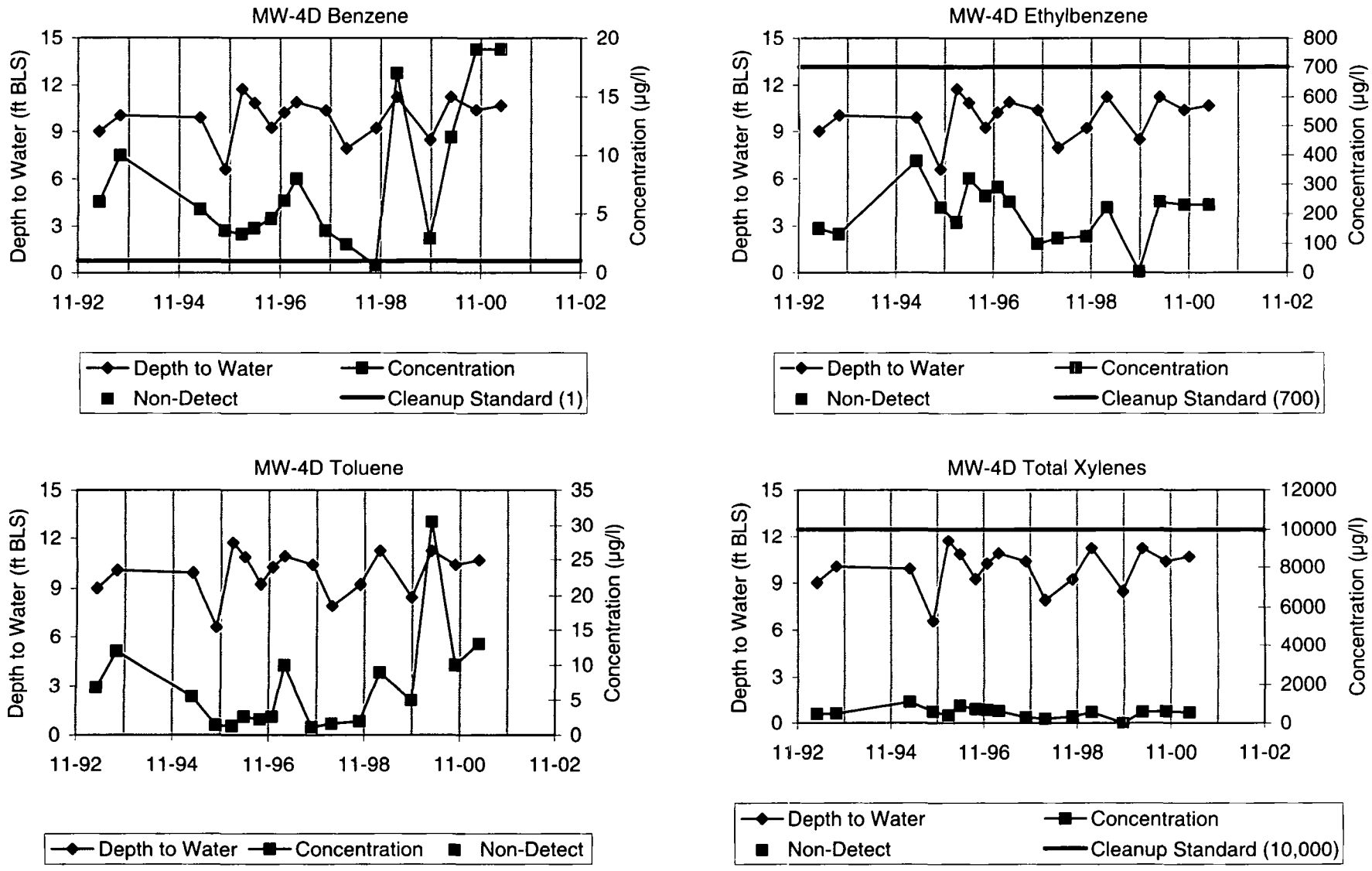




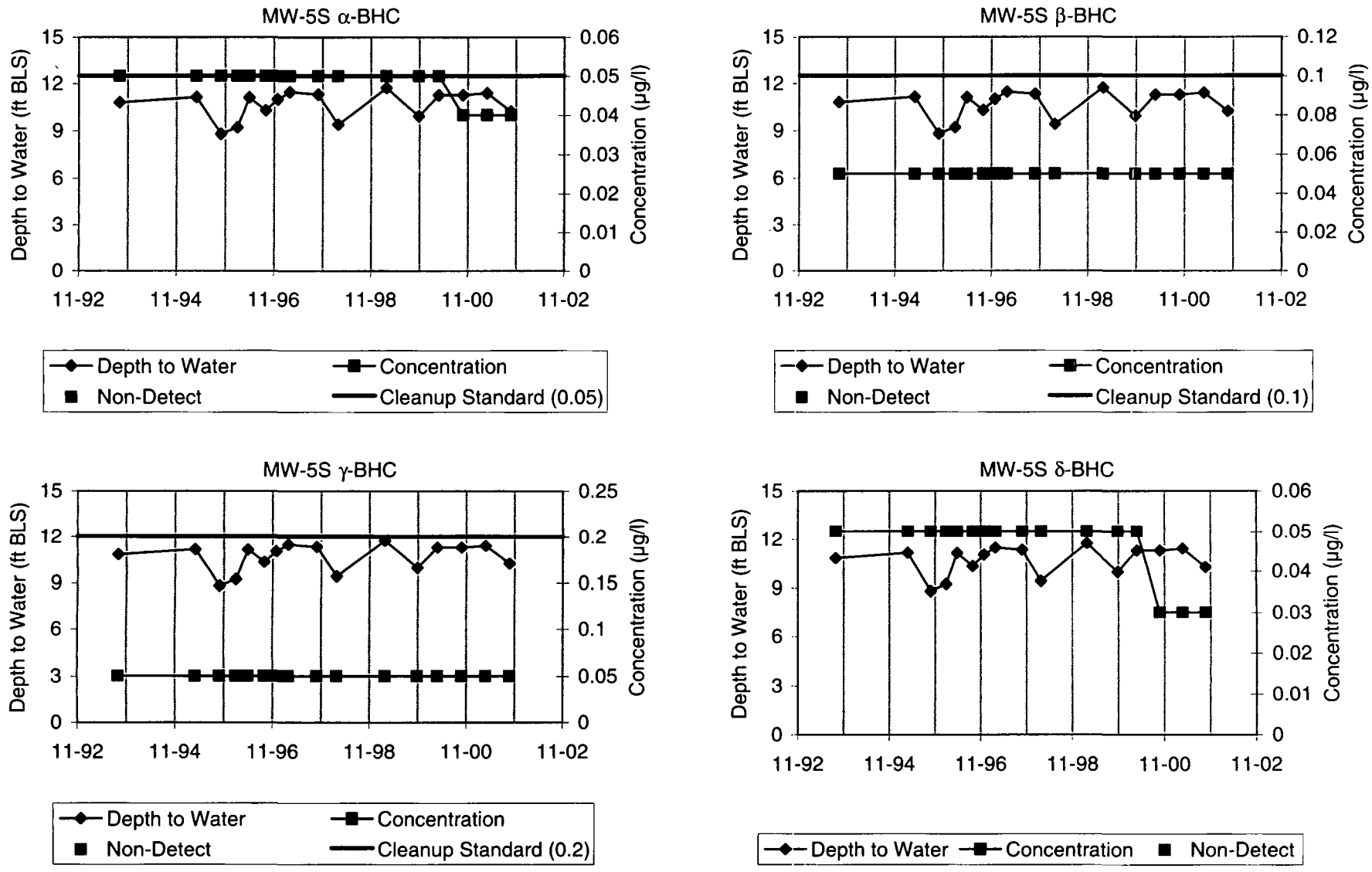
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-4S not sampled for BTEX in October 2001.)	Geomega



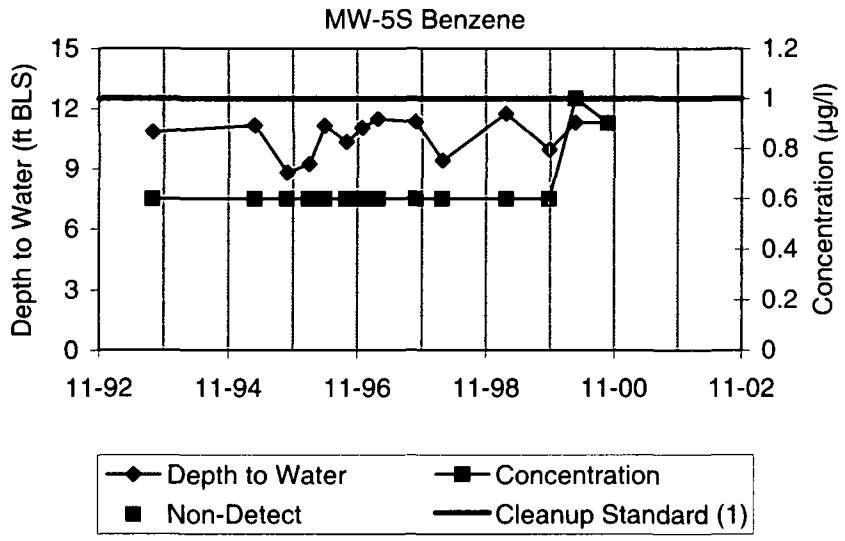
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

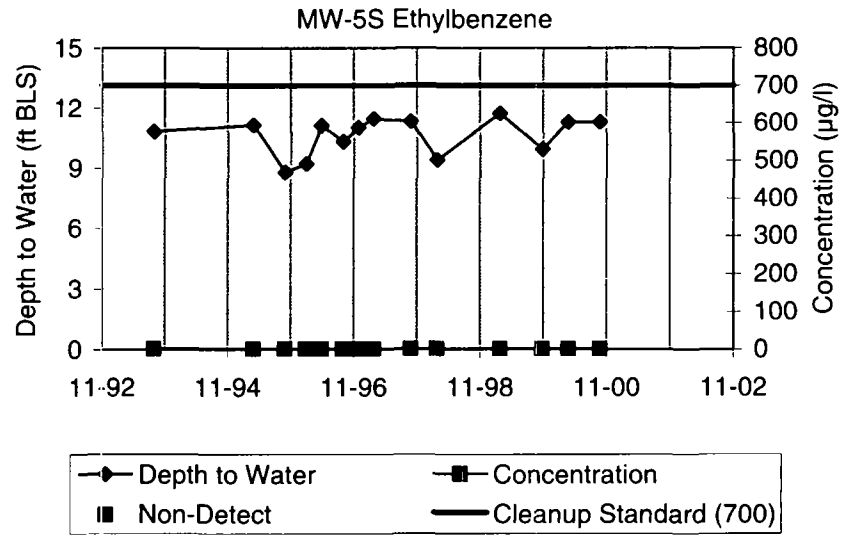


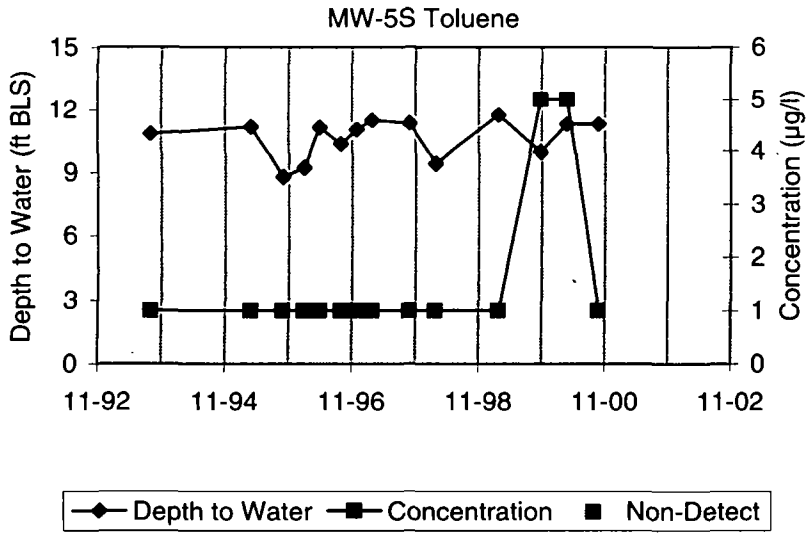
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-4D not sampled for BTEX in October 2001.)	Geomega

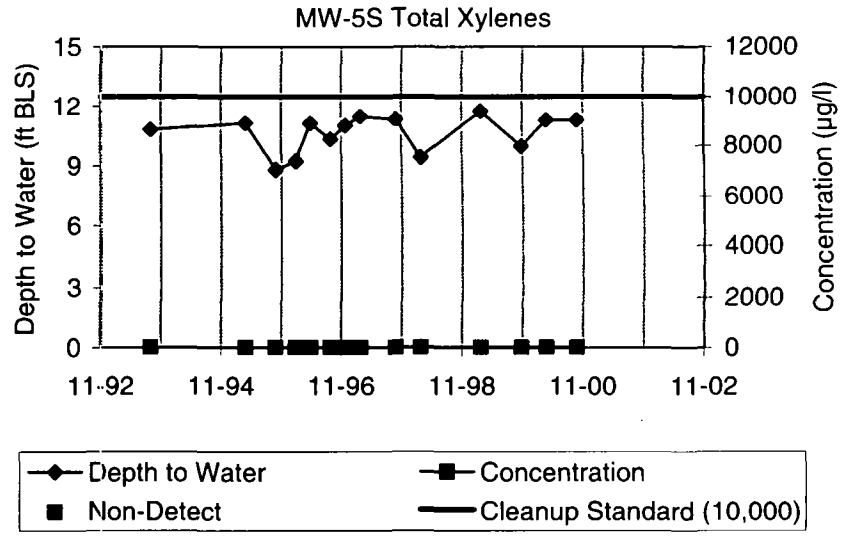


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

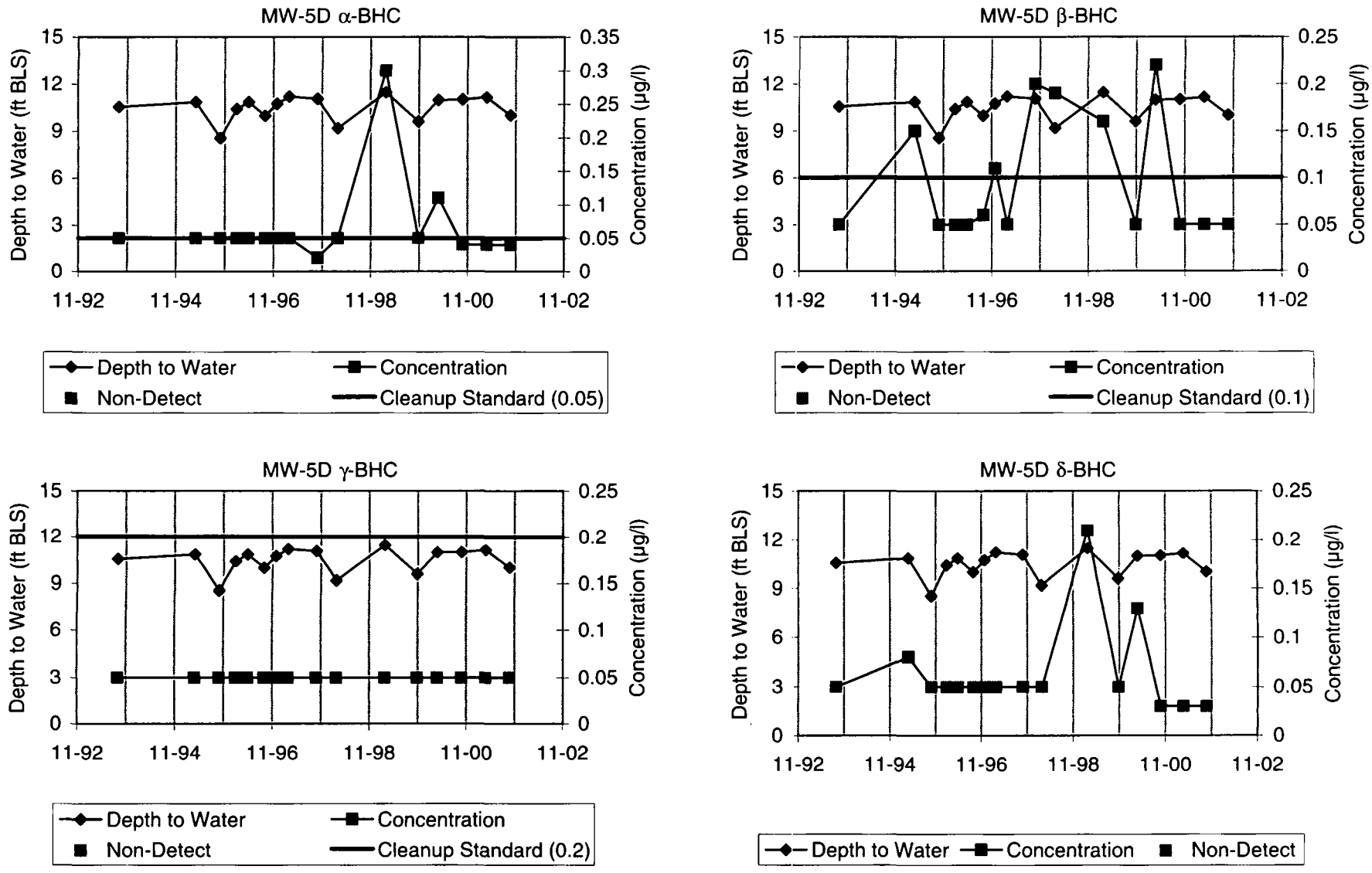




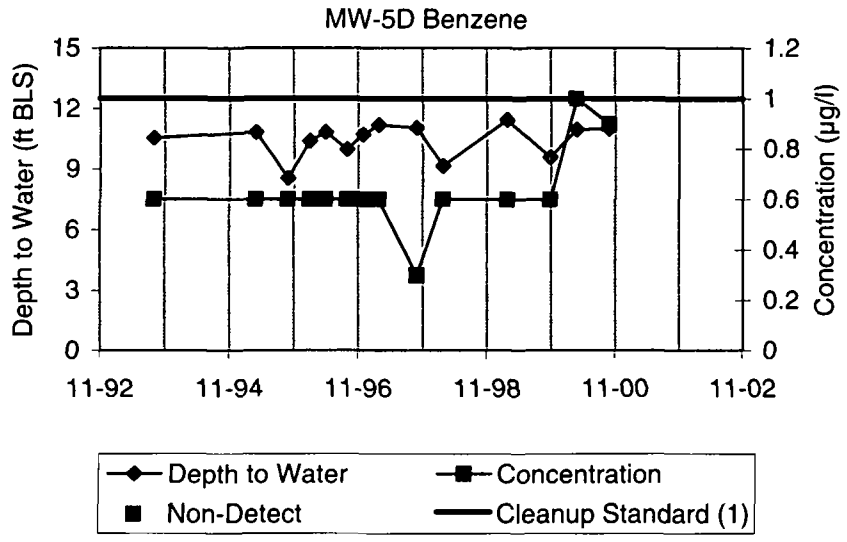


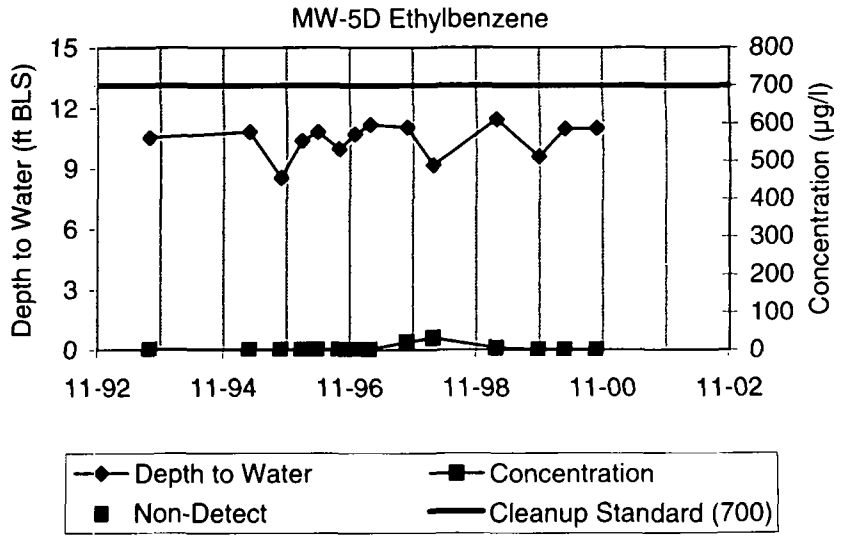


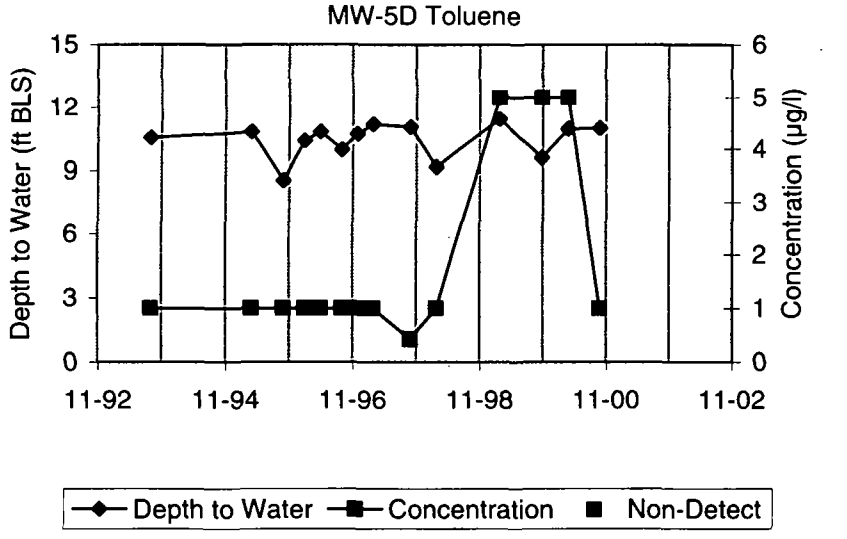
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-5S not sampled for BTEX in October 2001.)	Geomega

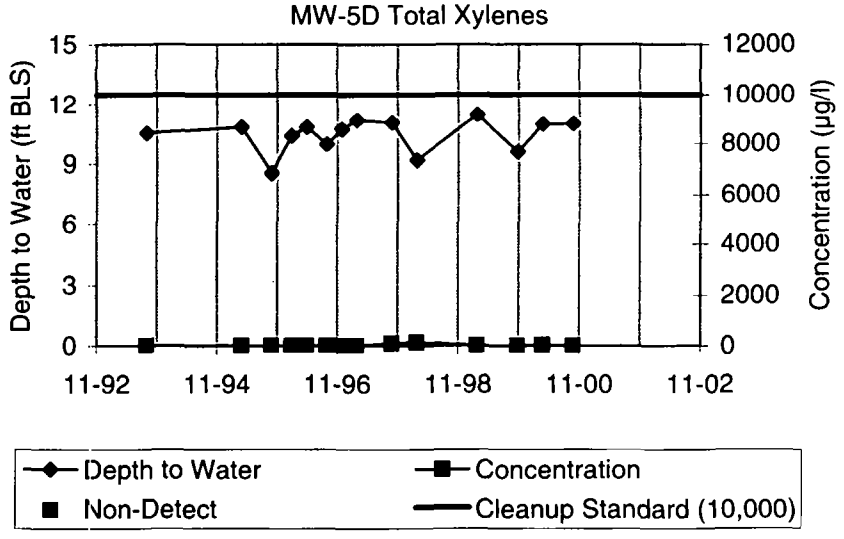


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

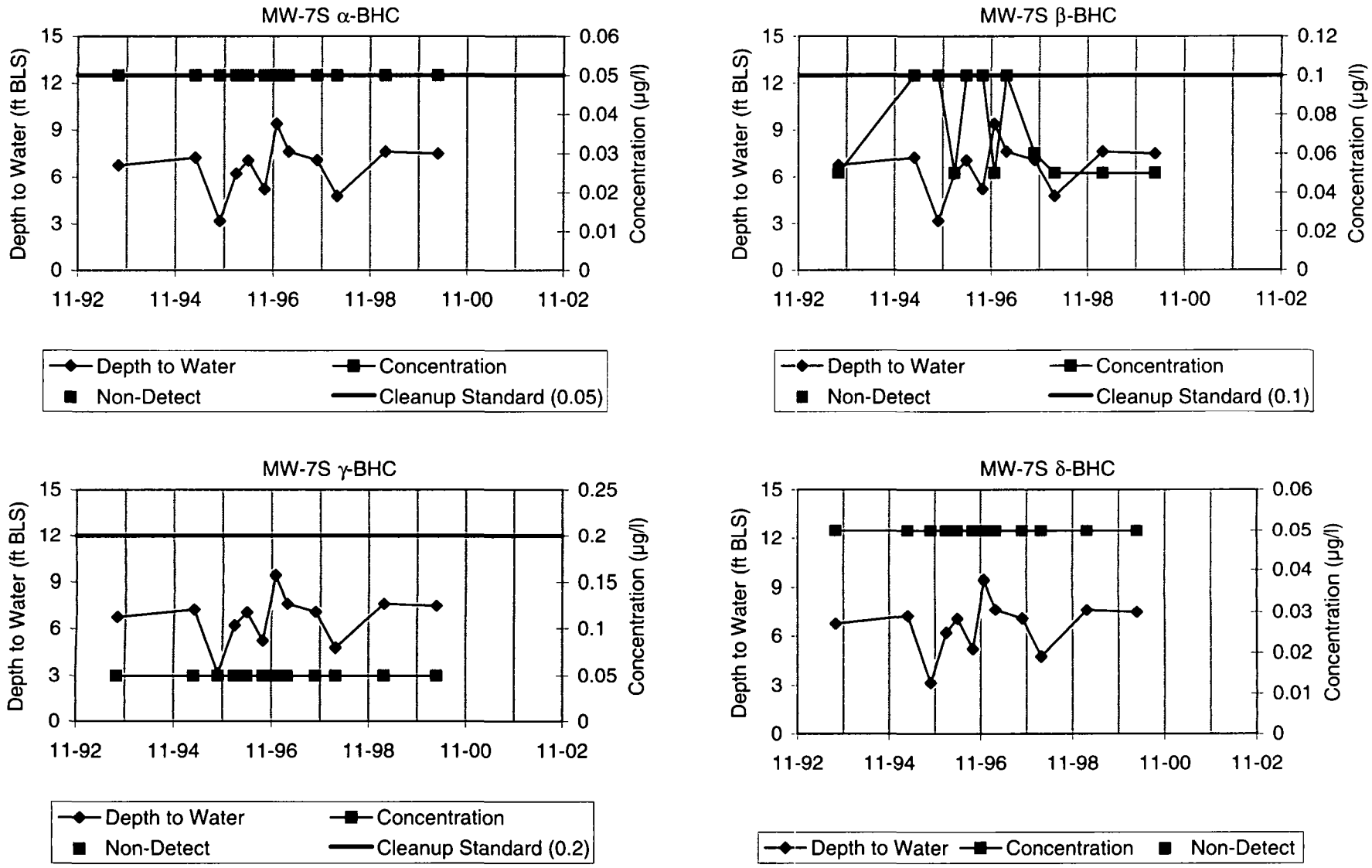




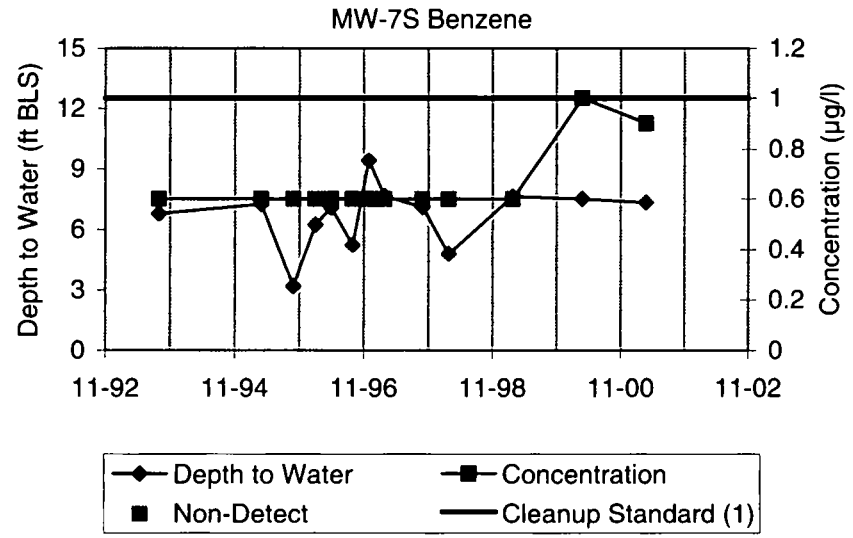


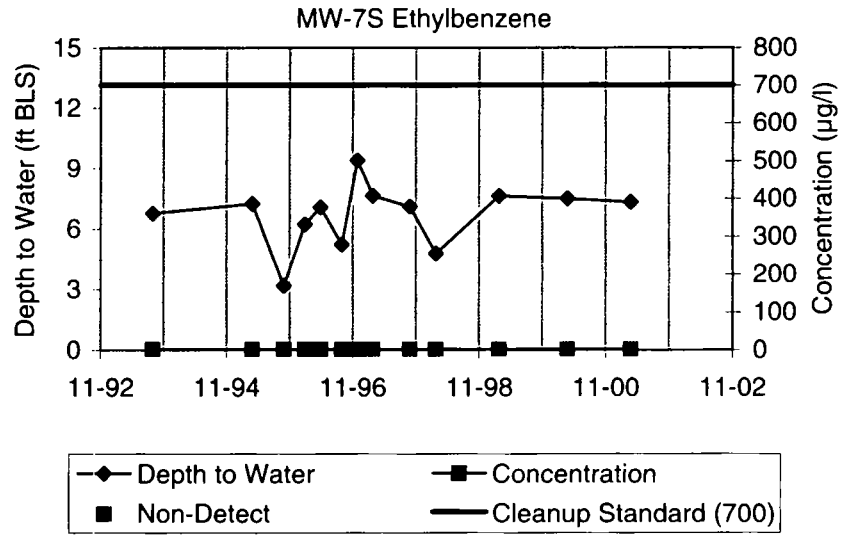


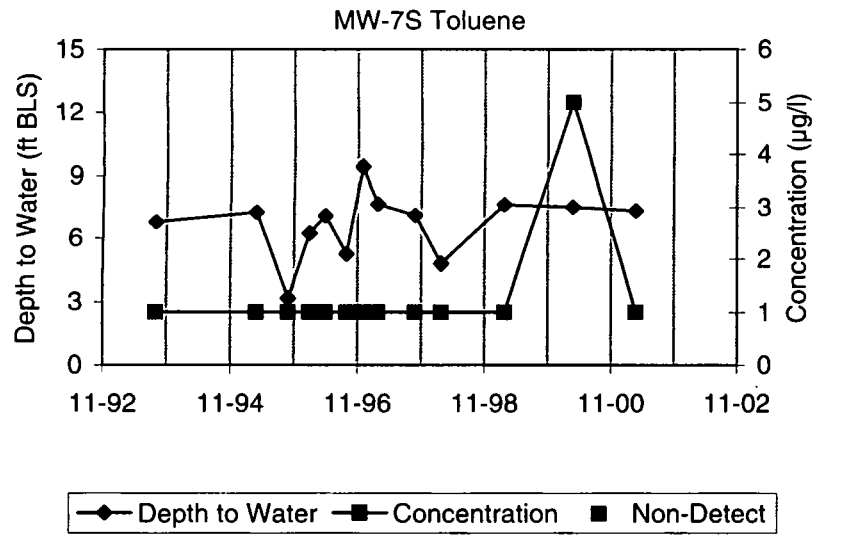
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-5D not sampled for BTEX in October 2001.)	Geomega

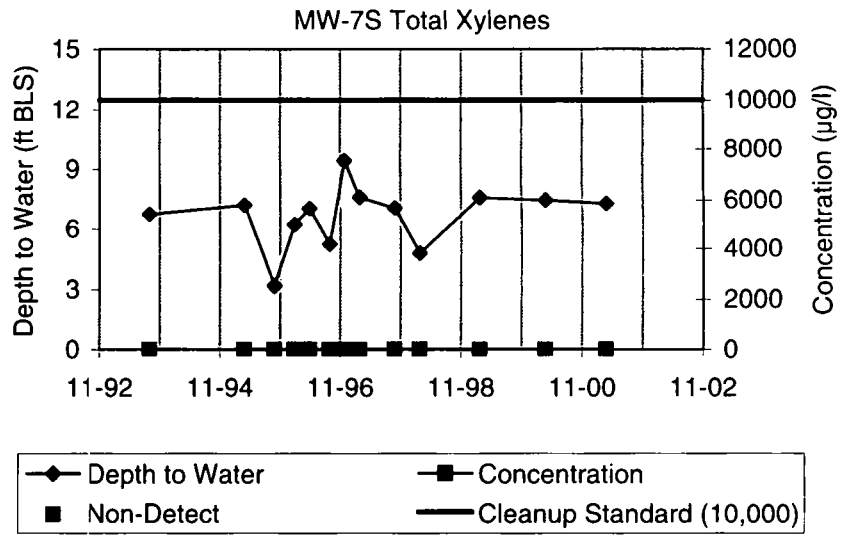


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-7S not sampled for BHCs in October 2001.)	Geomega

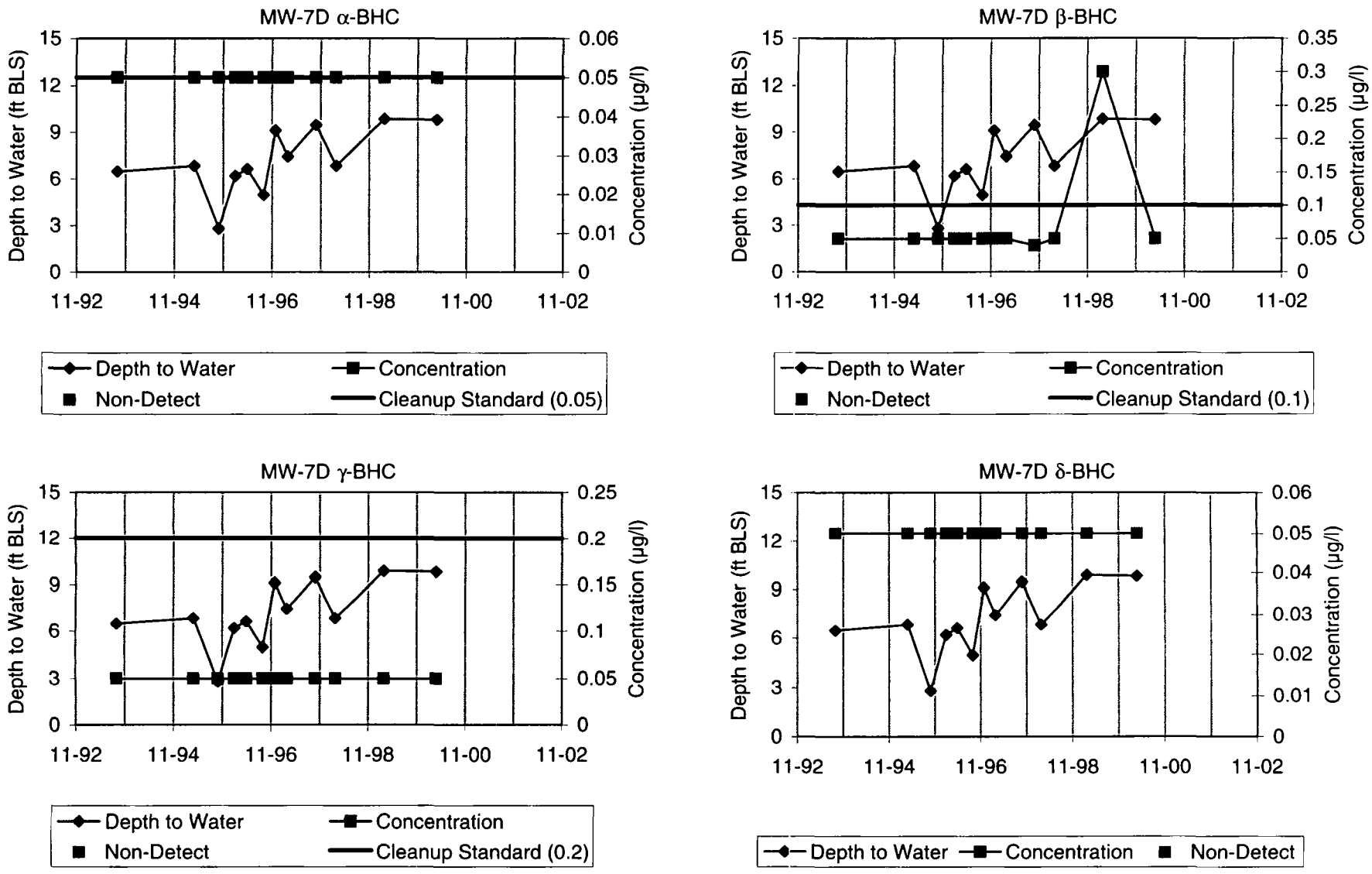




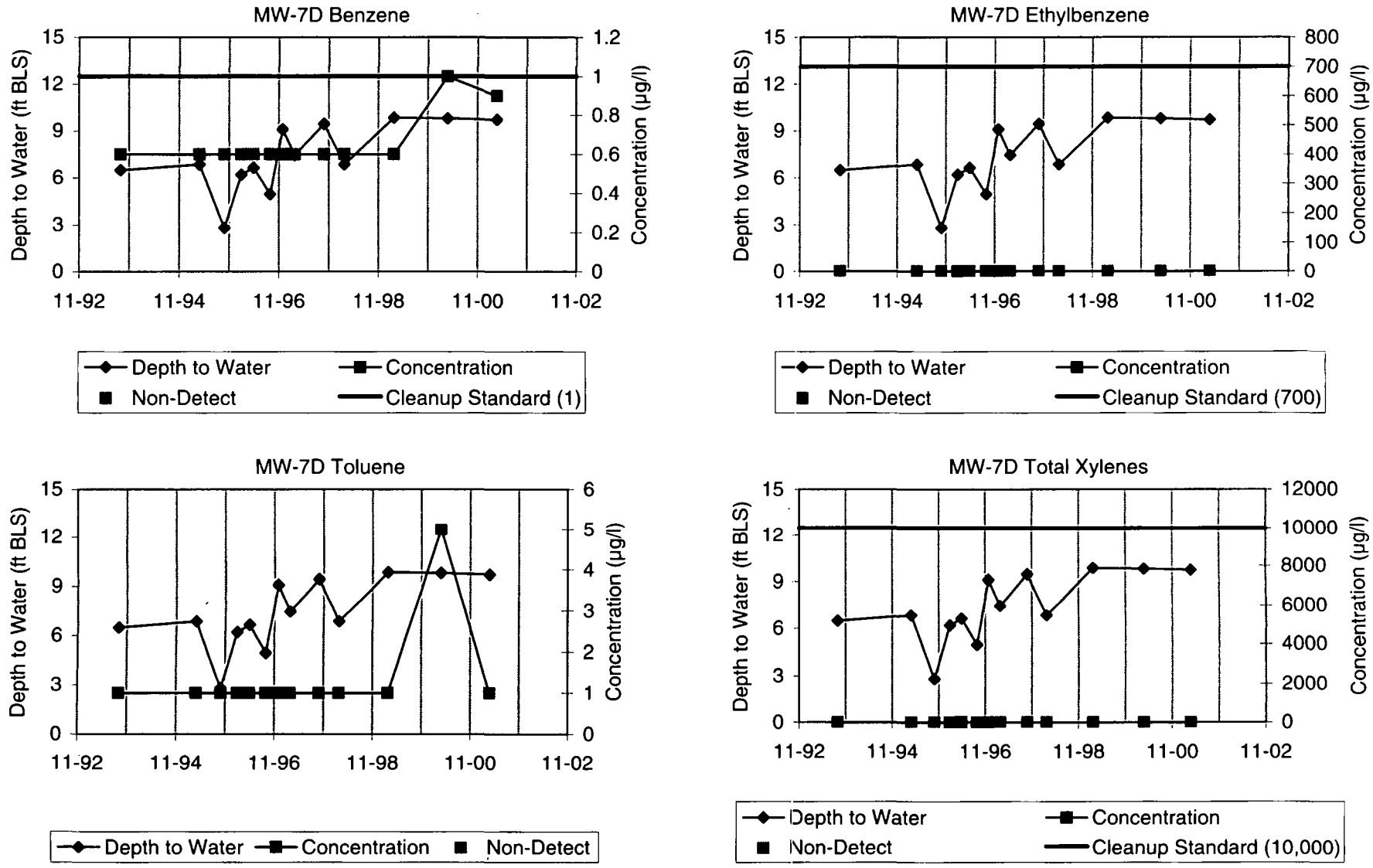




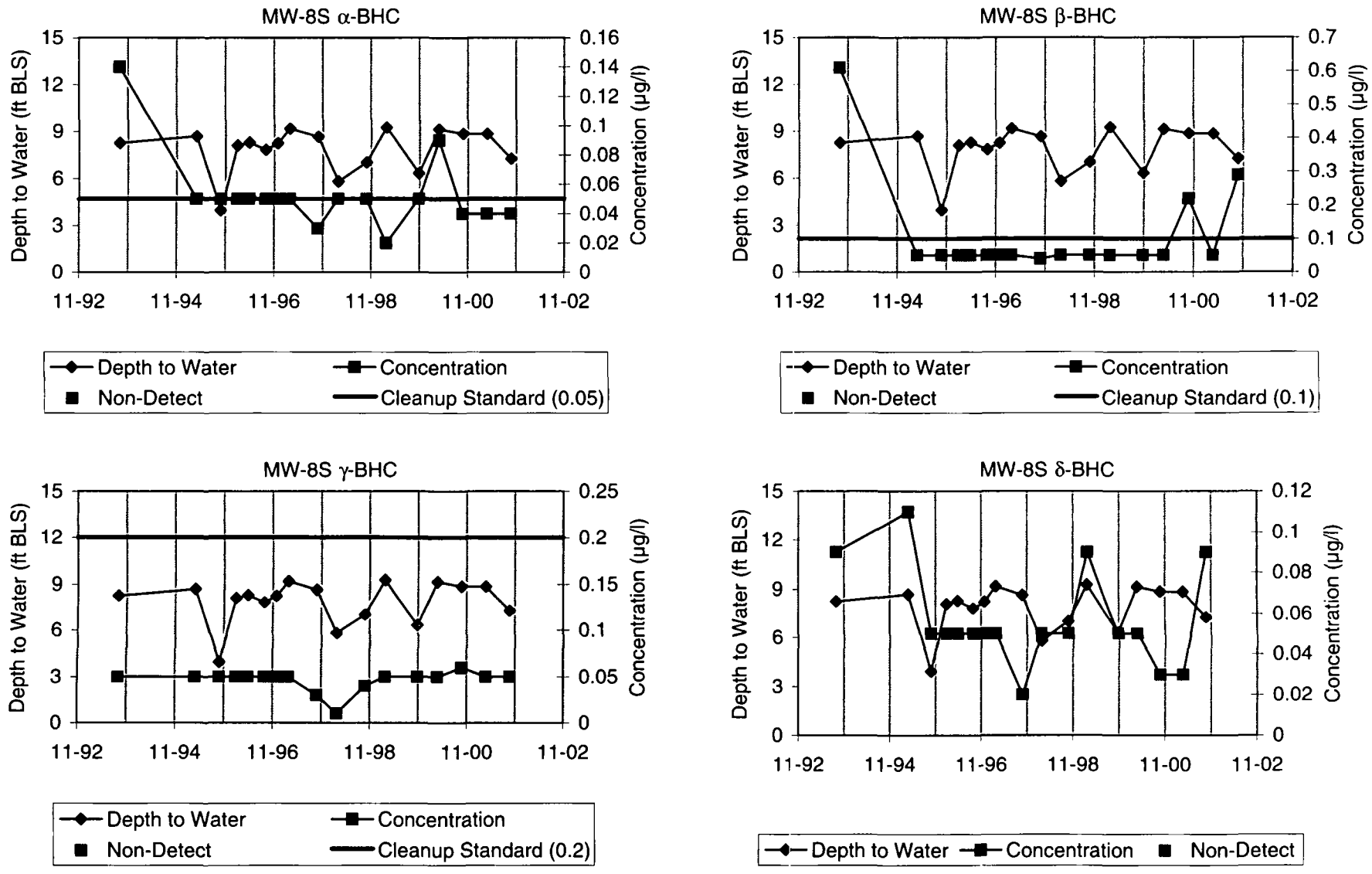
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-7S not sampled for BTEX in October 2001.)	Geomega



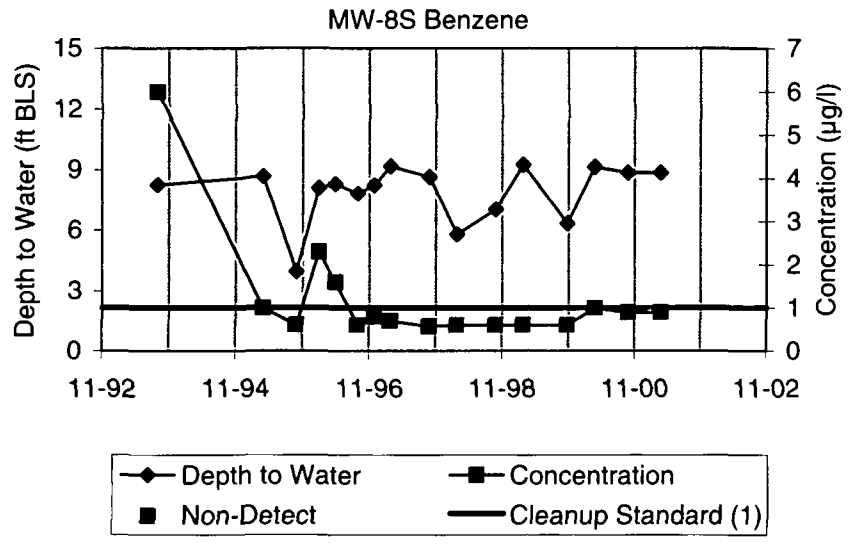
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-7D not sampled for BHCs in October 2001.)	Geomega

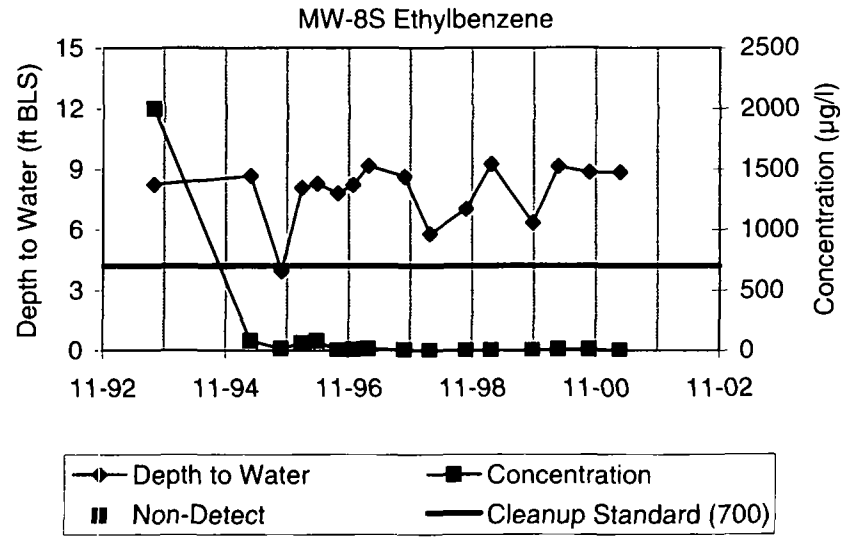


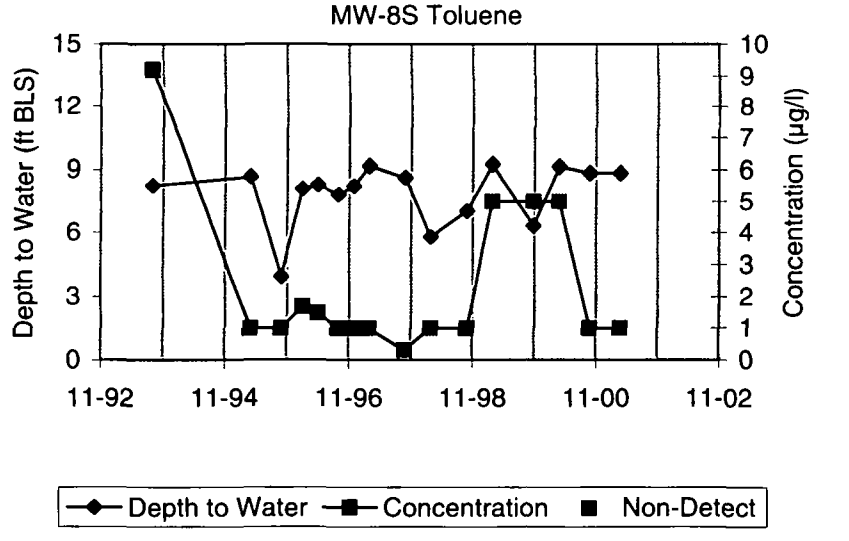
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-7D not sampled for BTEX in October 2001.)	Geomega

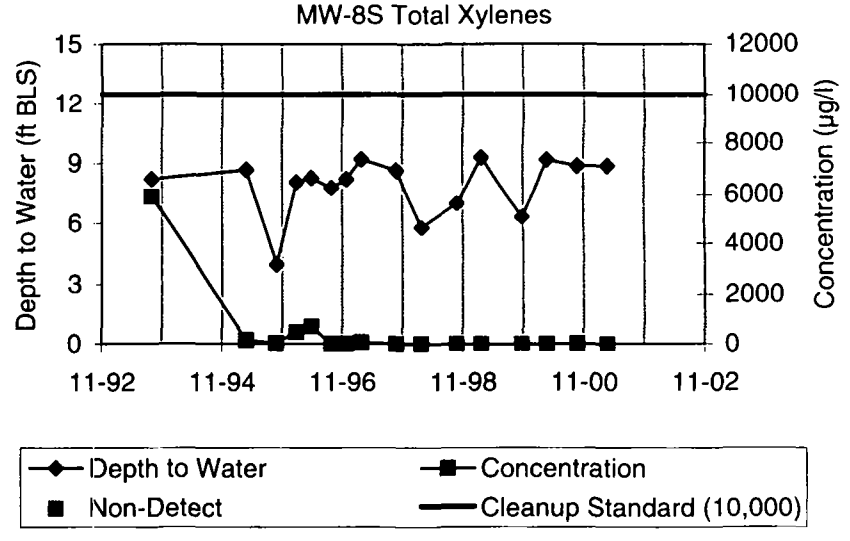


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

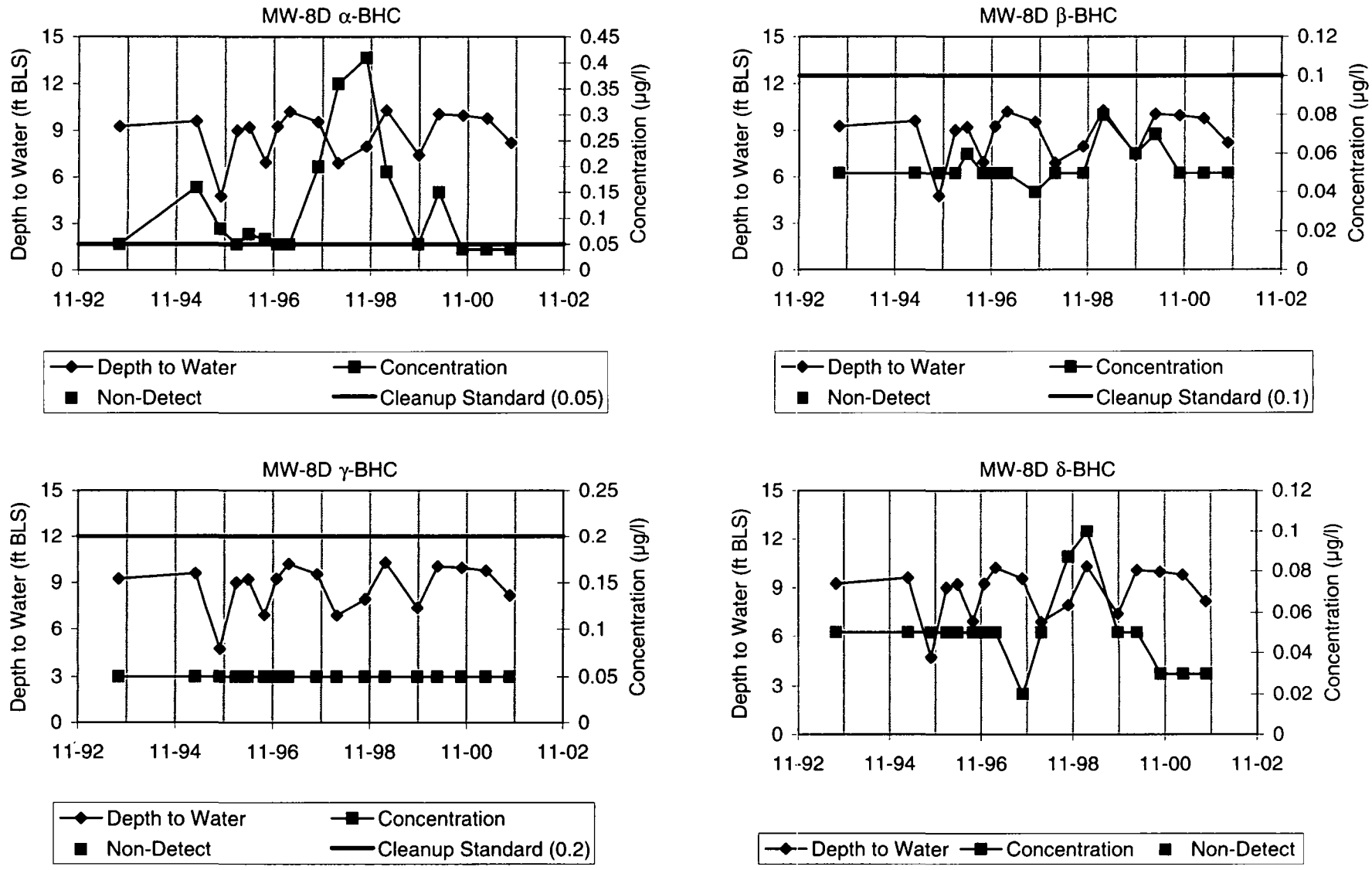




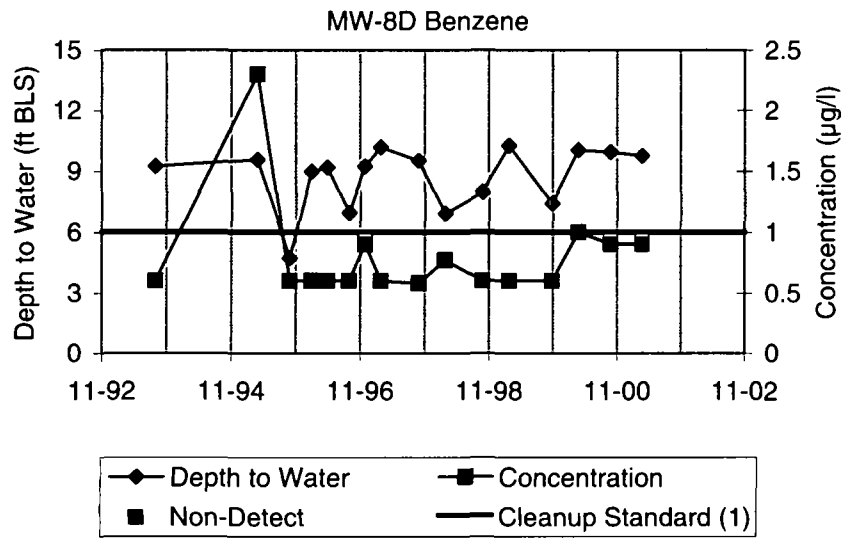


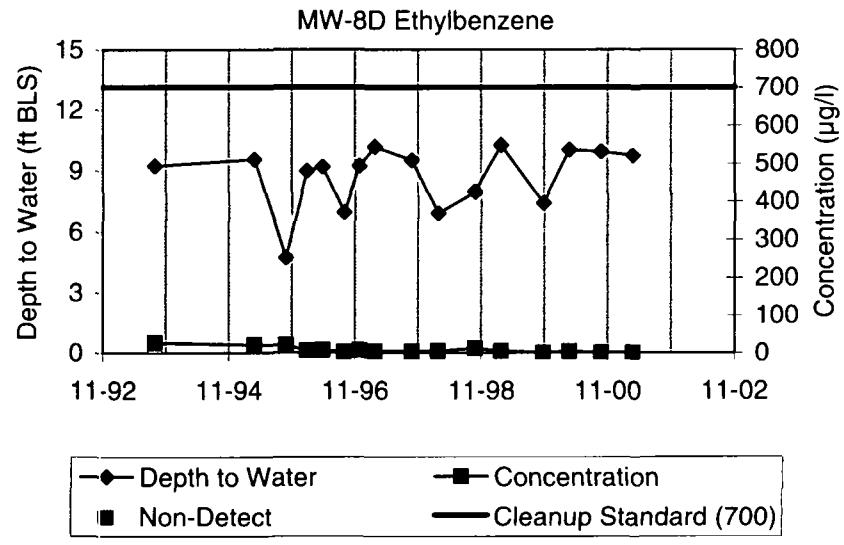


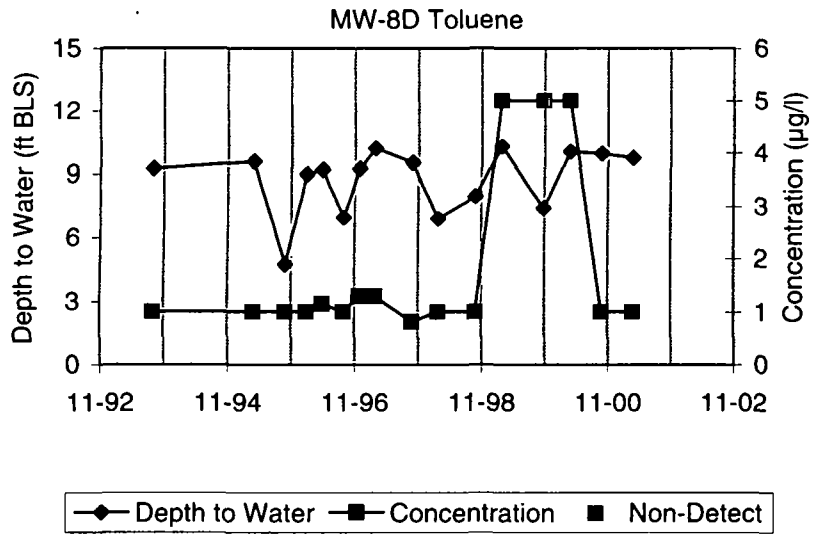
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-8S not sampled for BTEX in October 2001.)	Geomega

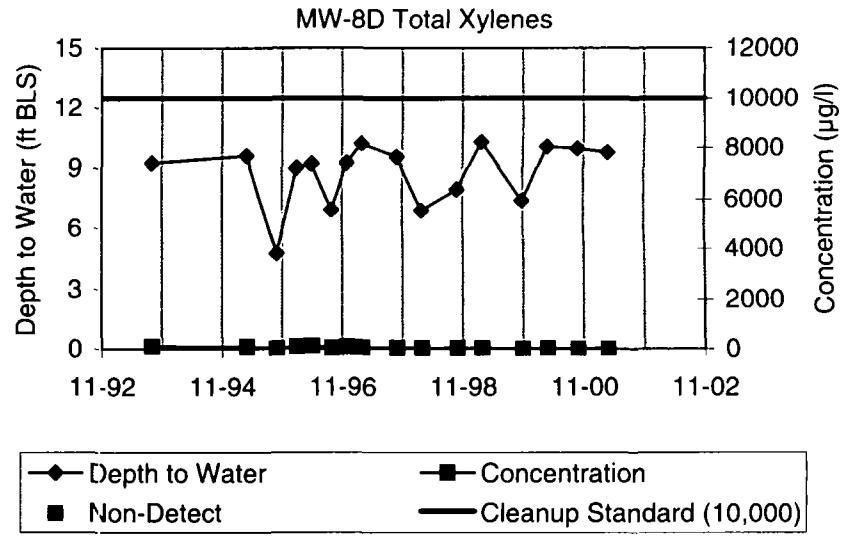


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

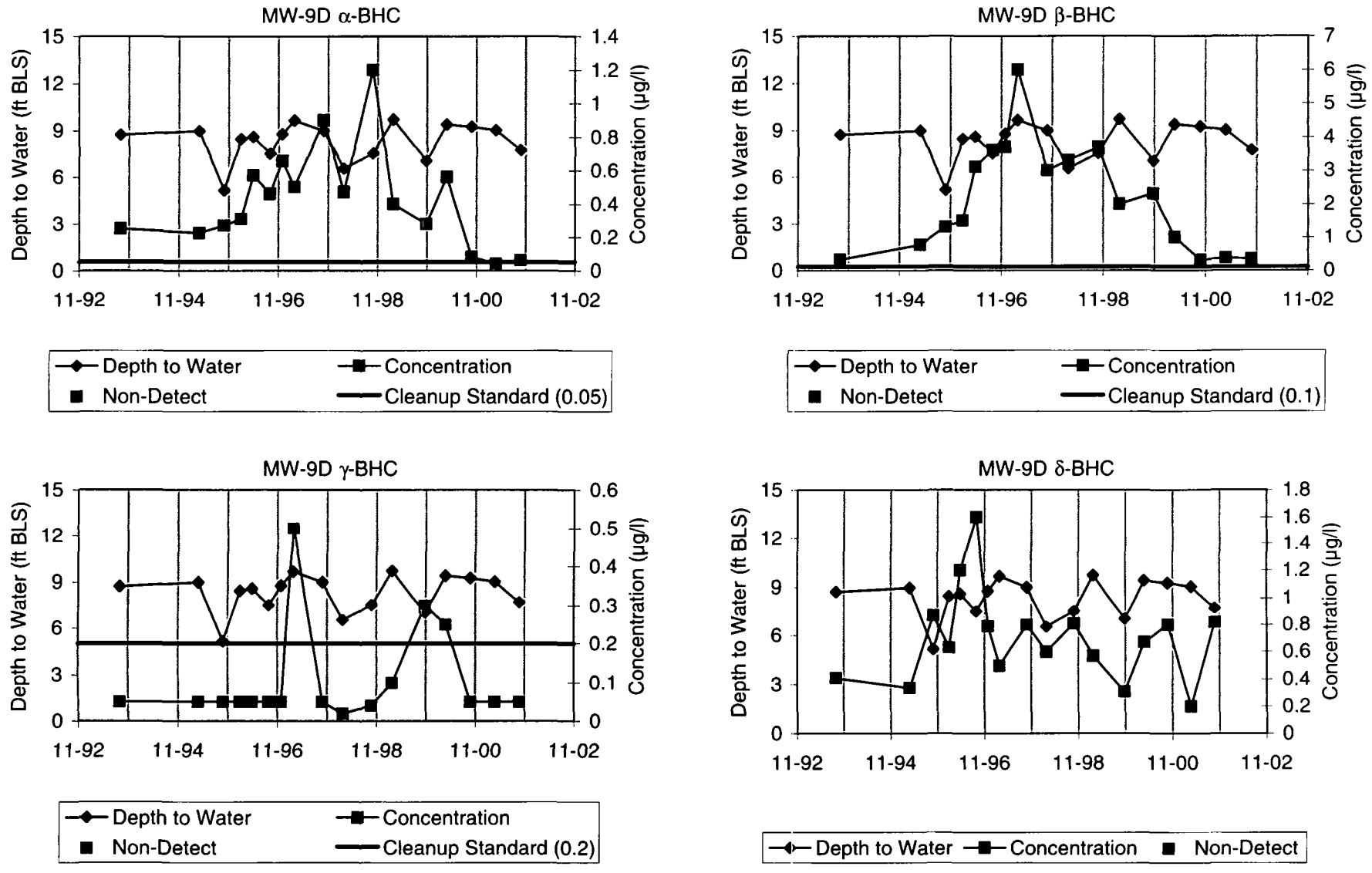




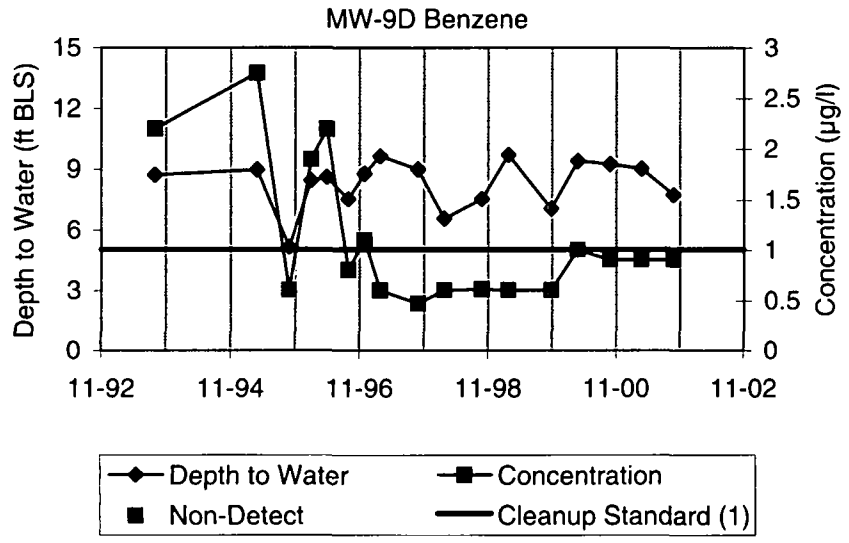


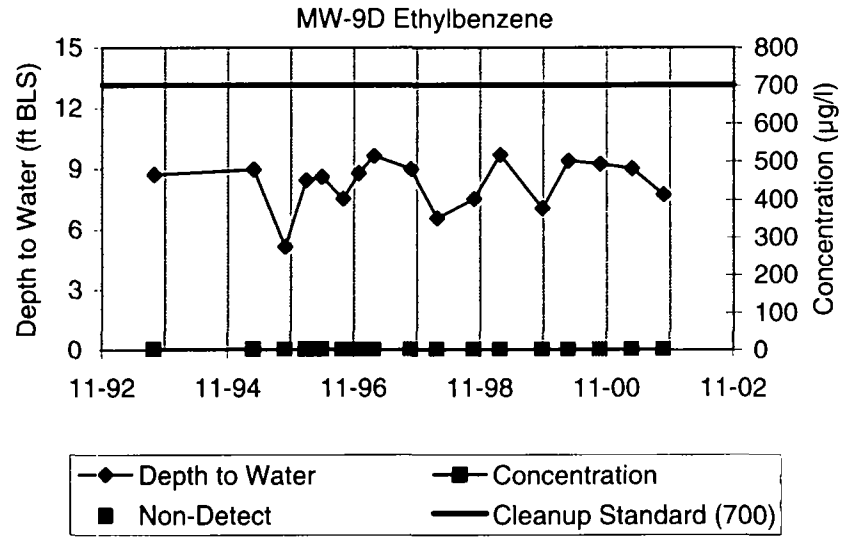


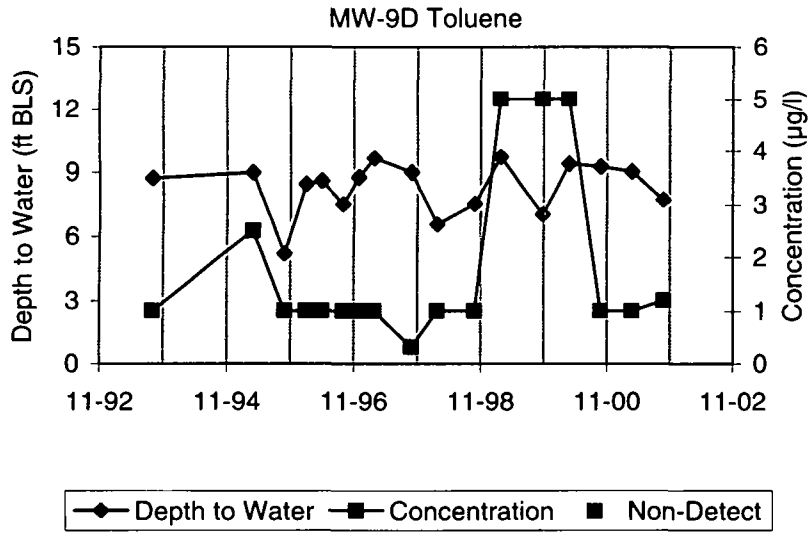
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-8D not sampled for BTEX in October 2001.)	Geomega

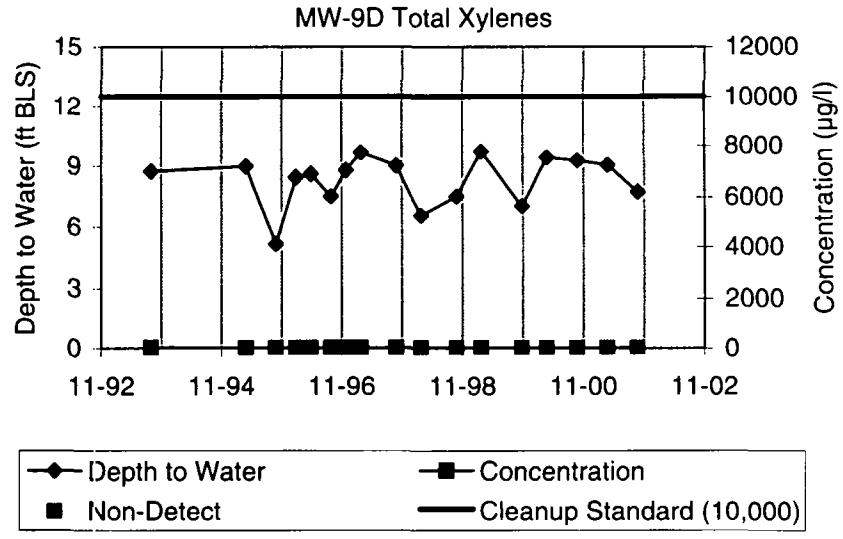


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

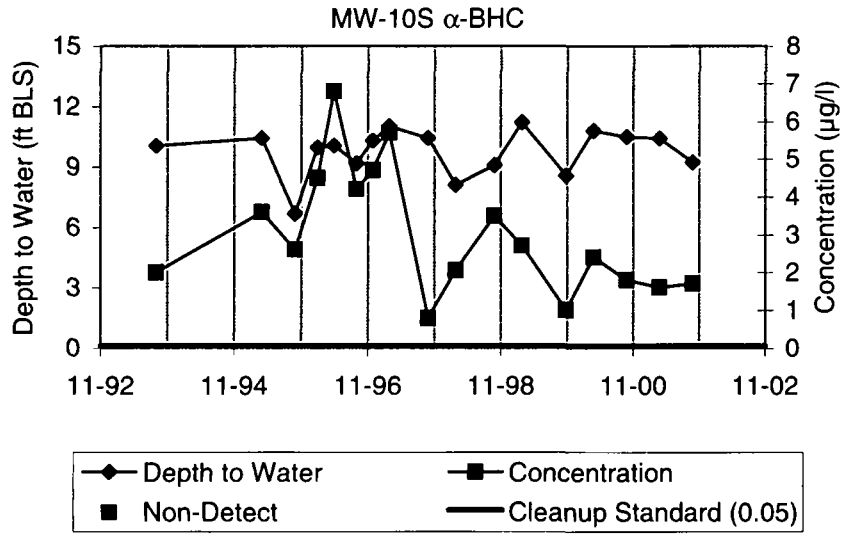


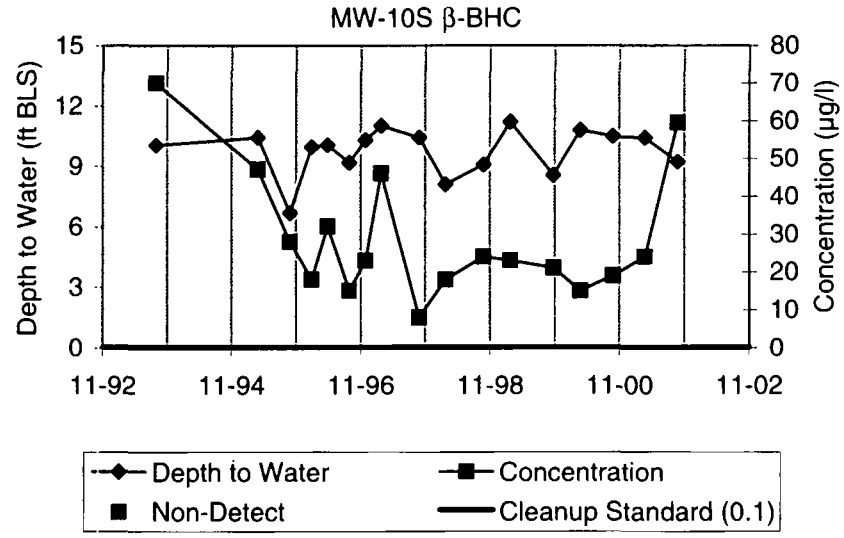


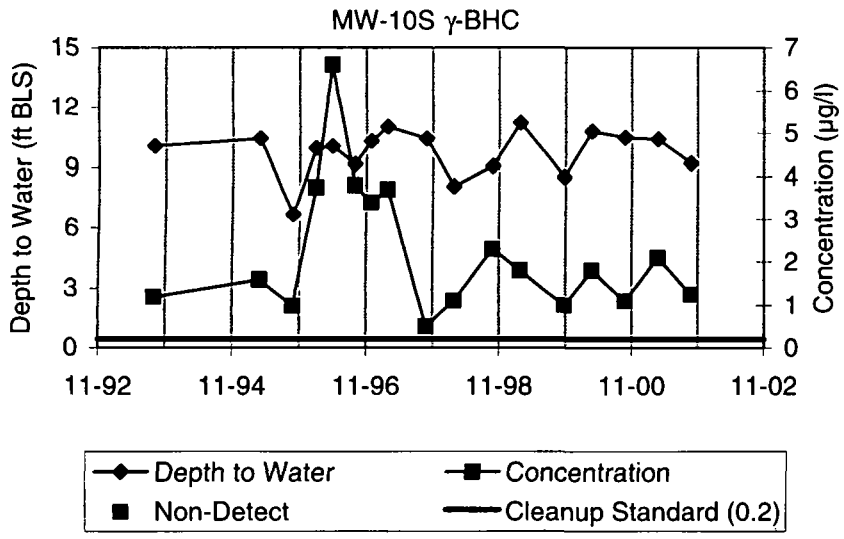


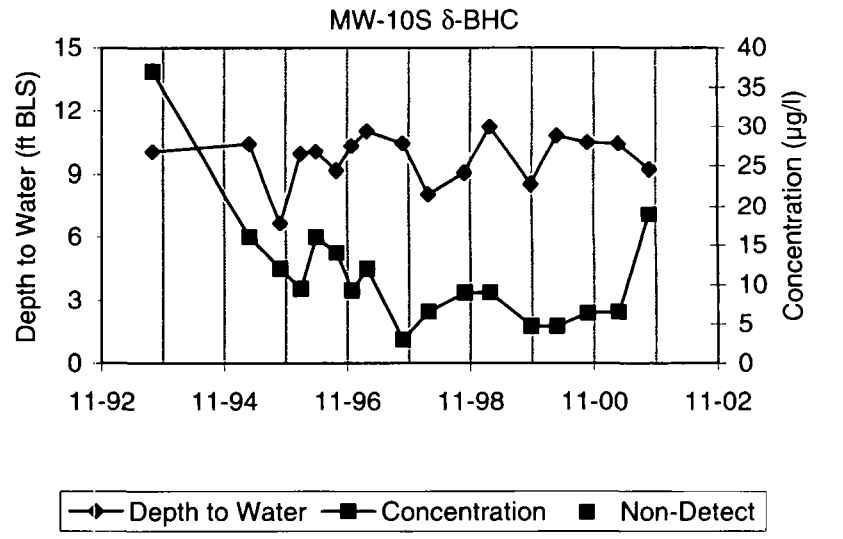


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

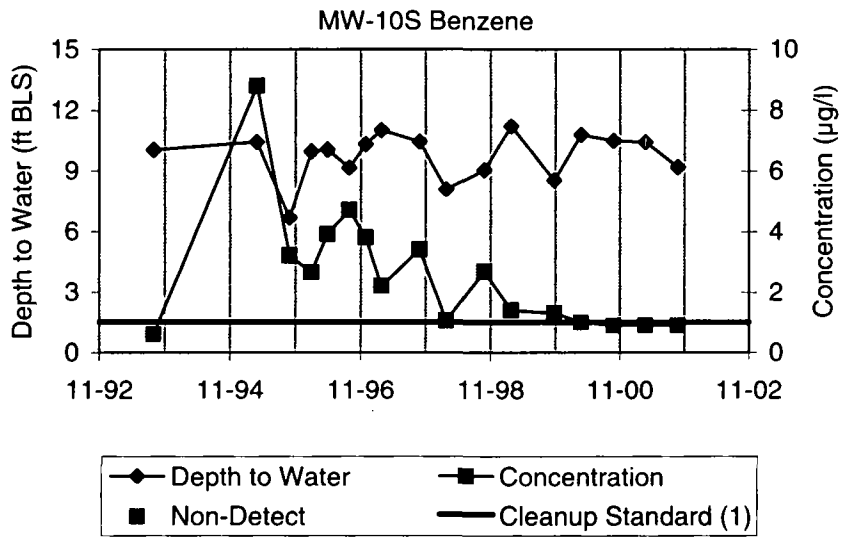


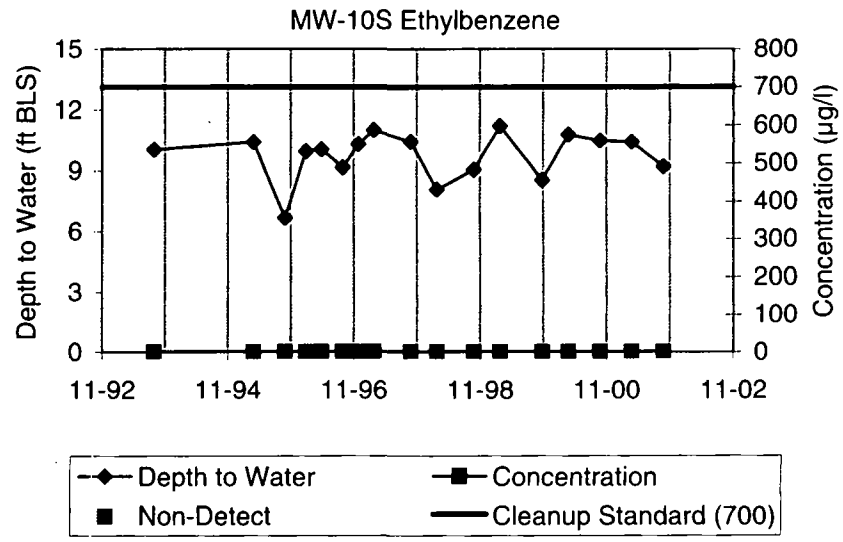


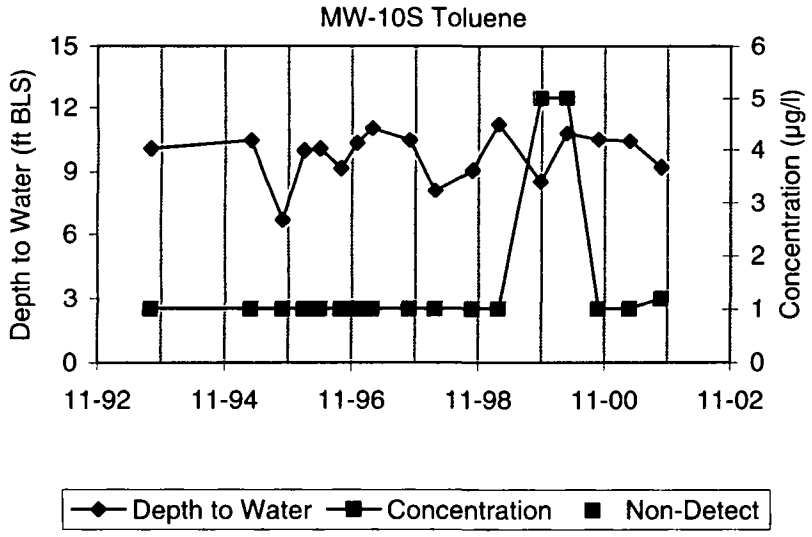


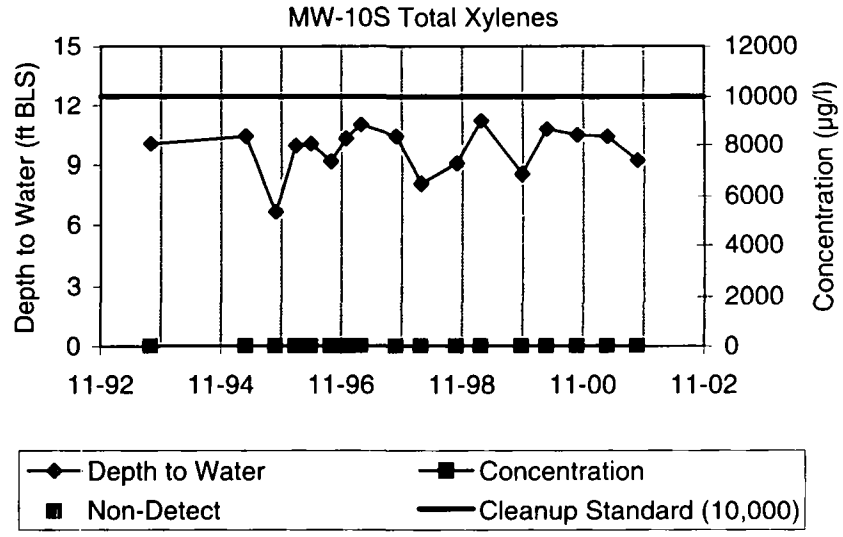


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

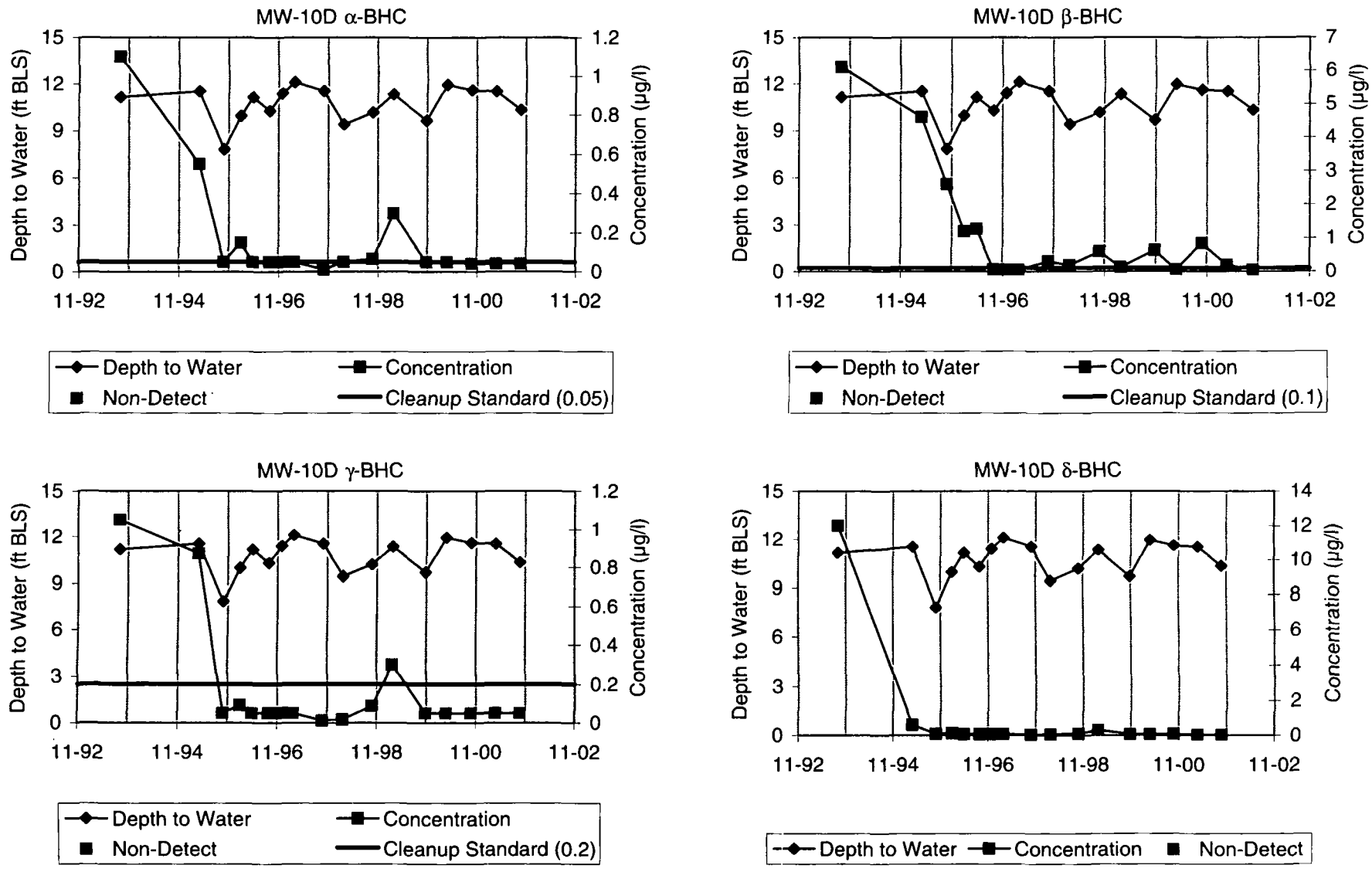




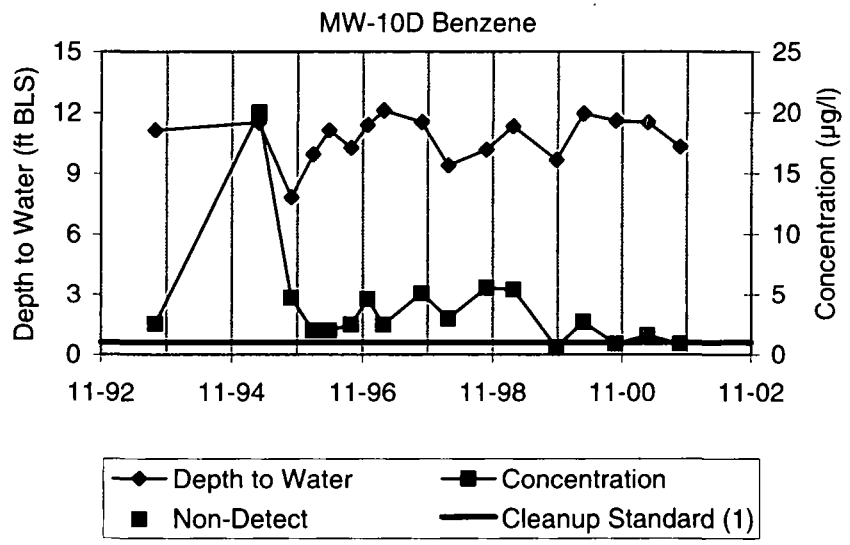


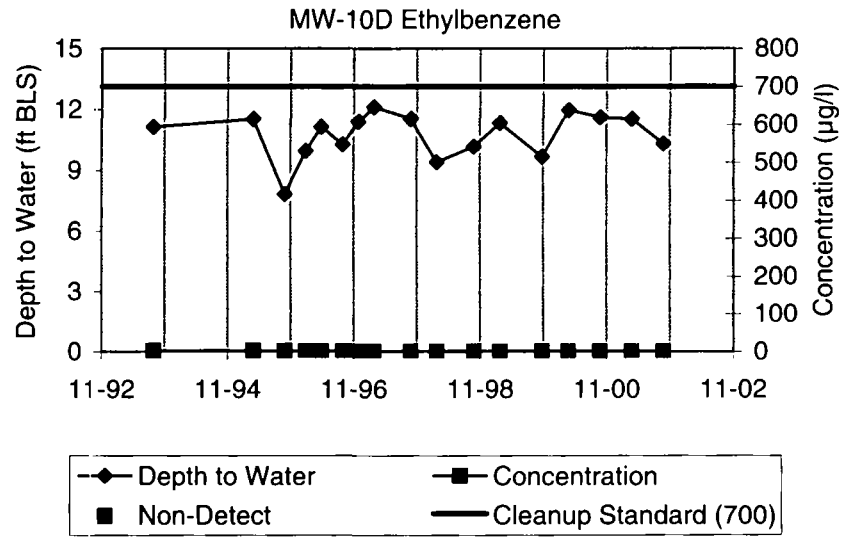


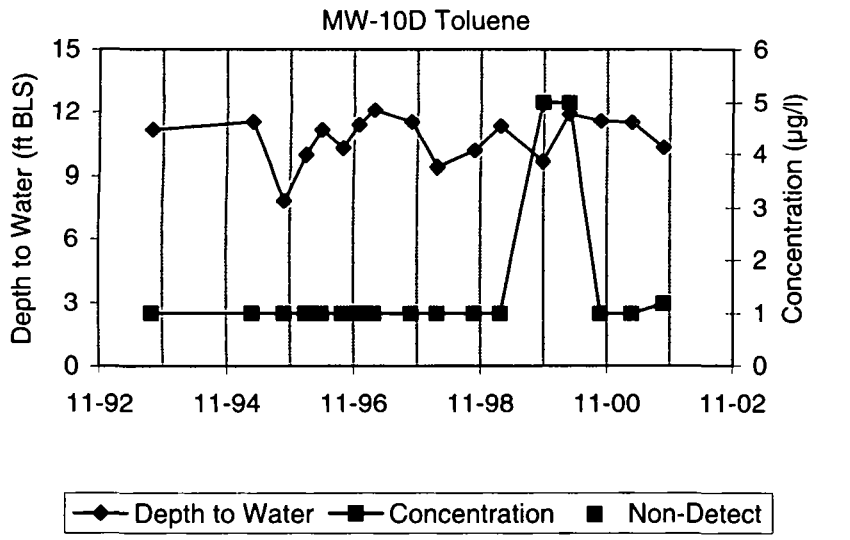
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

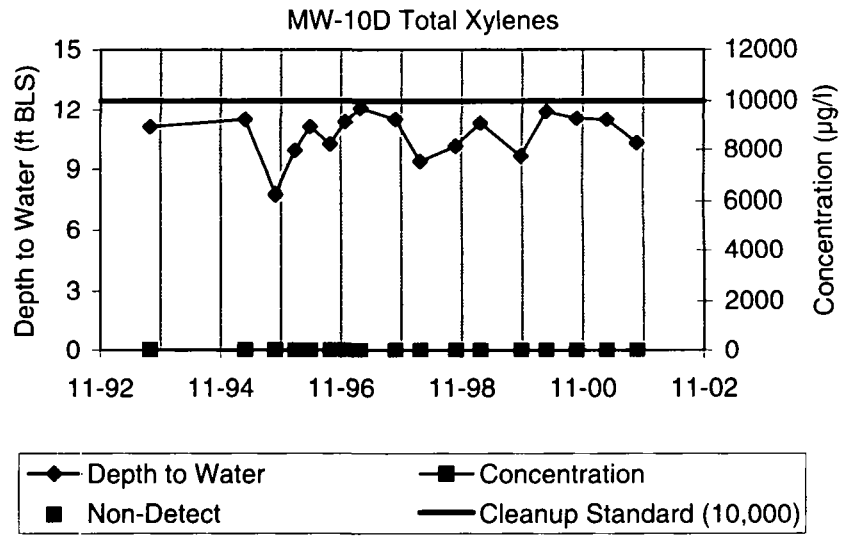


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

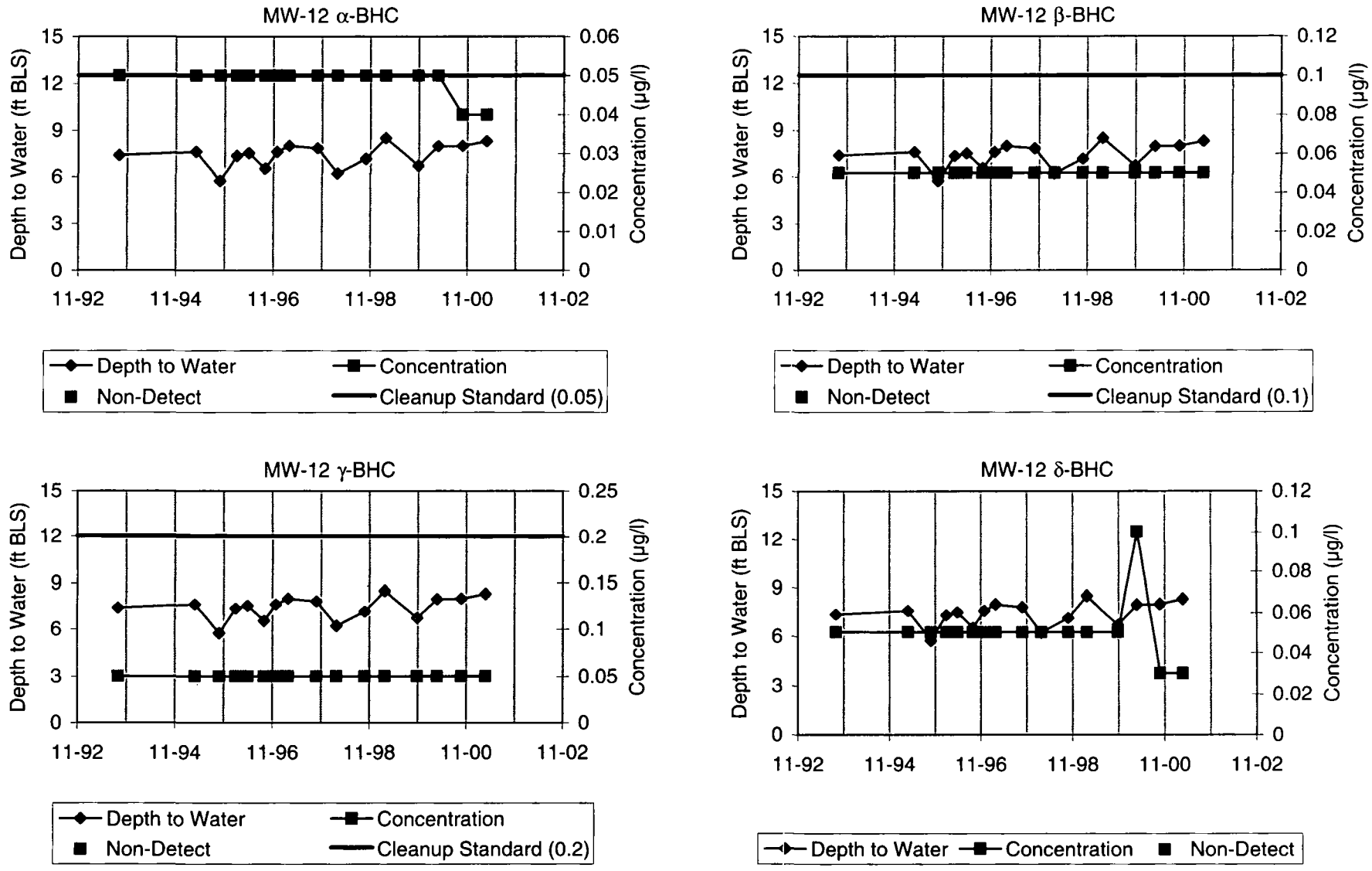




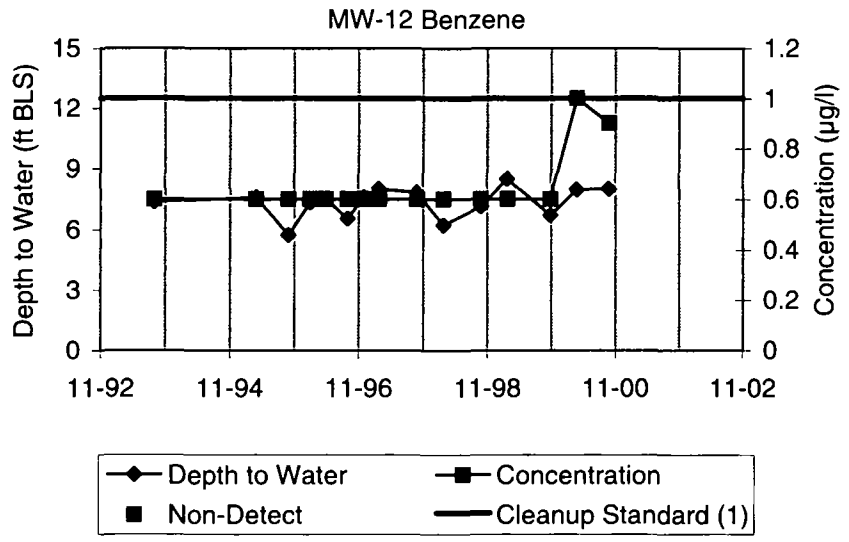


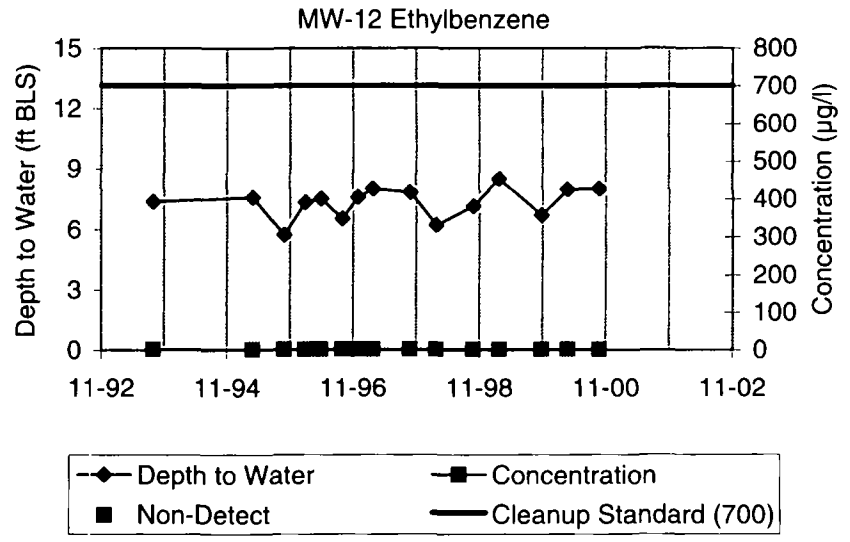


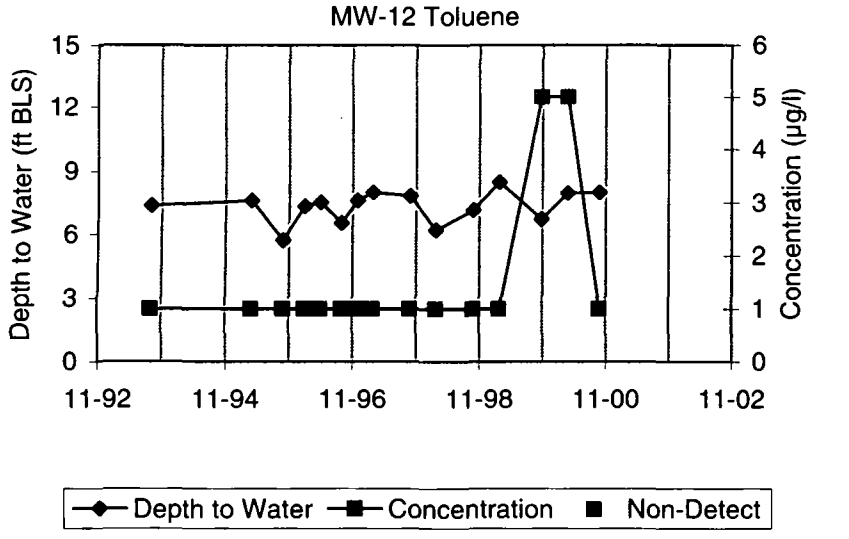
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

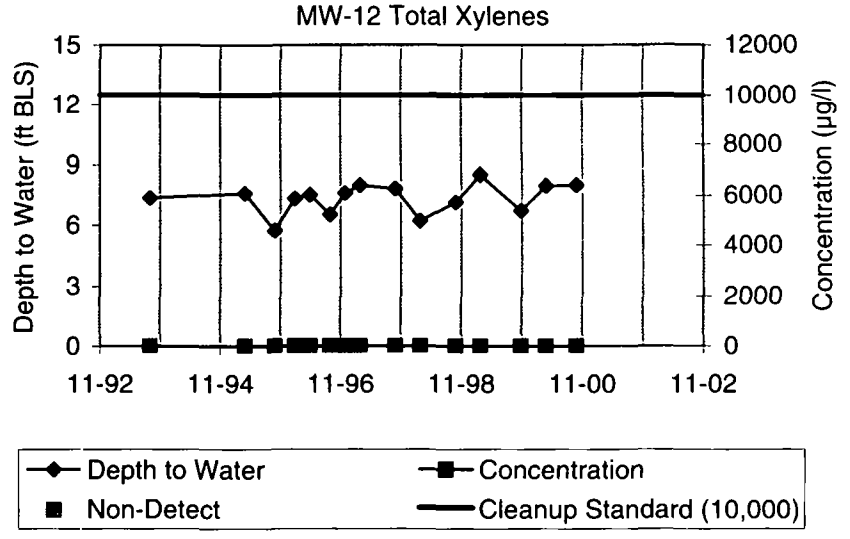


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-12 not sampled for BHCs in October 2001.)	Geomega

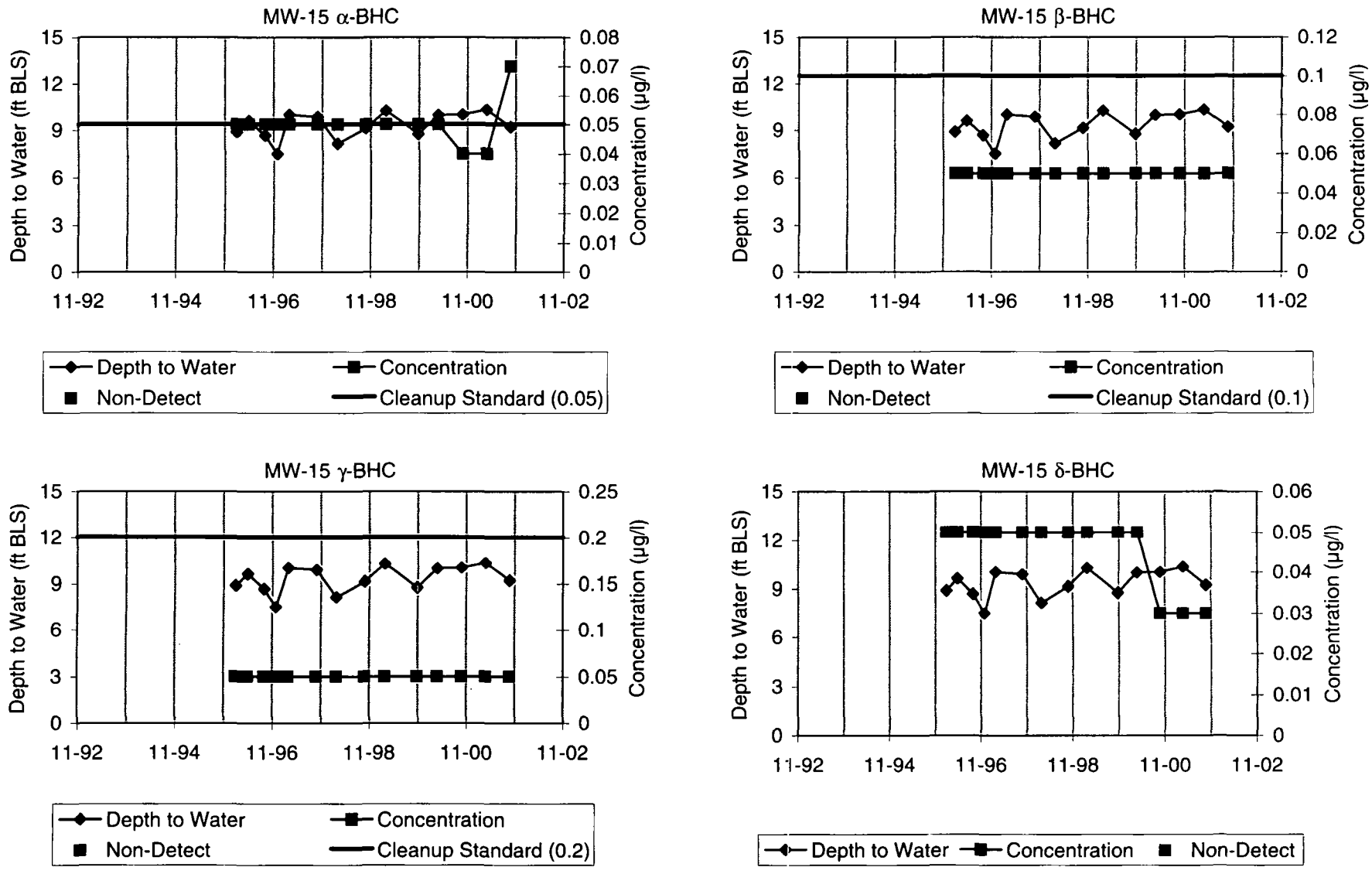




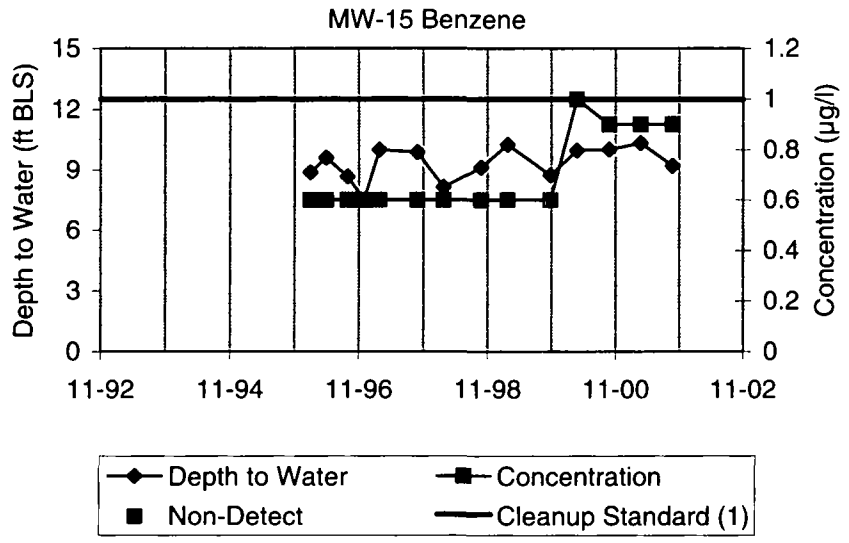


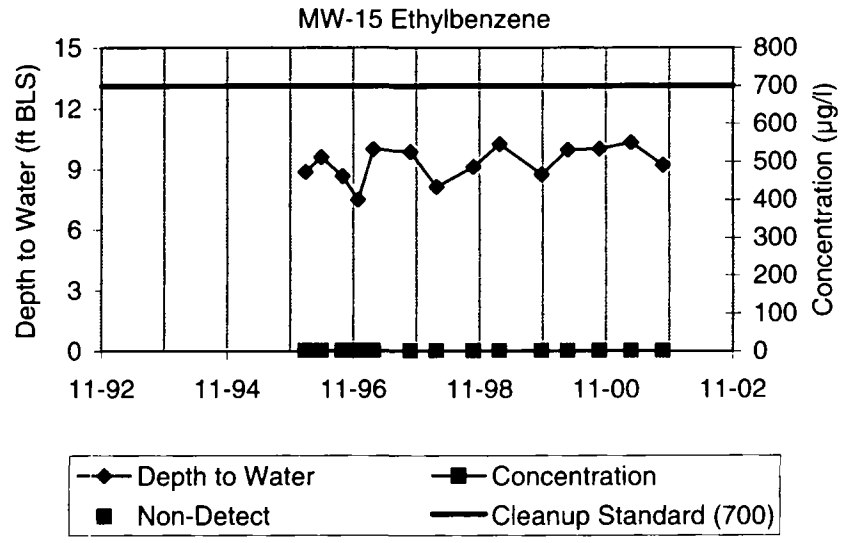


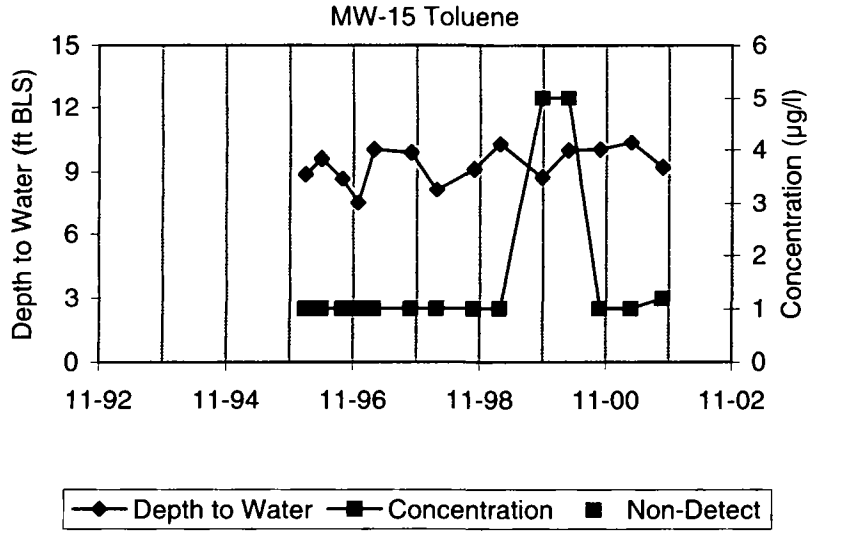
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-12 not sampled for BTEX in October 2001.)	Geomega

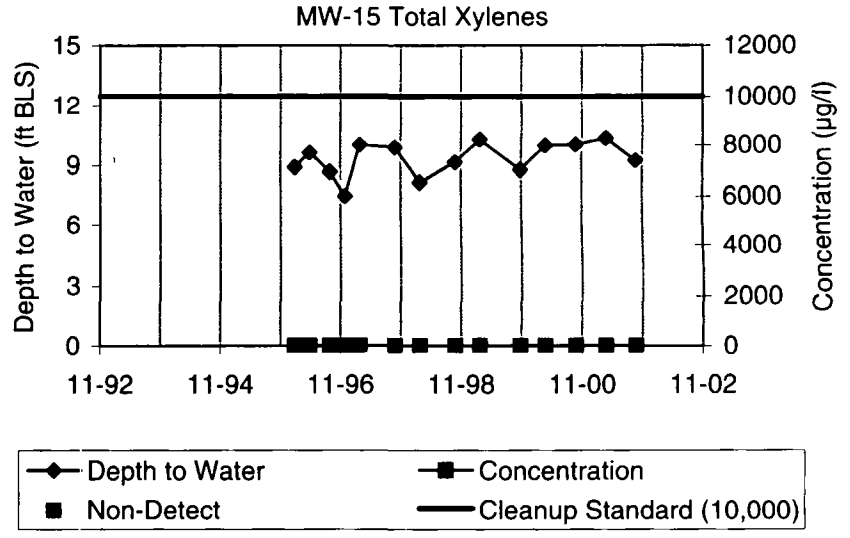


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

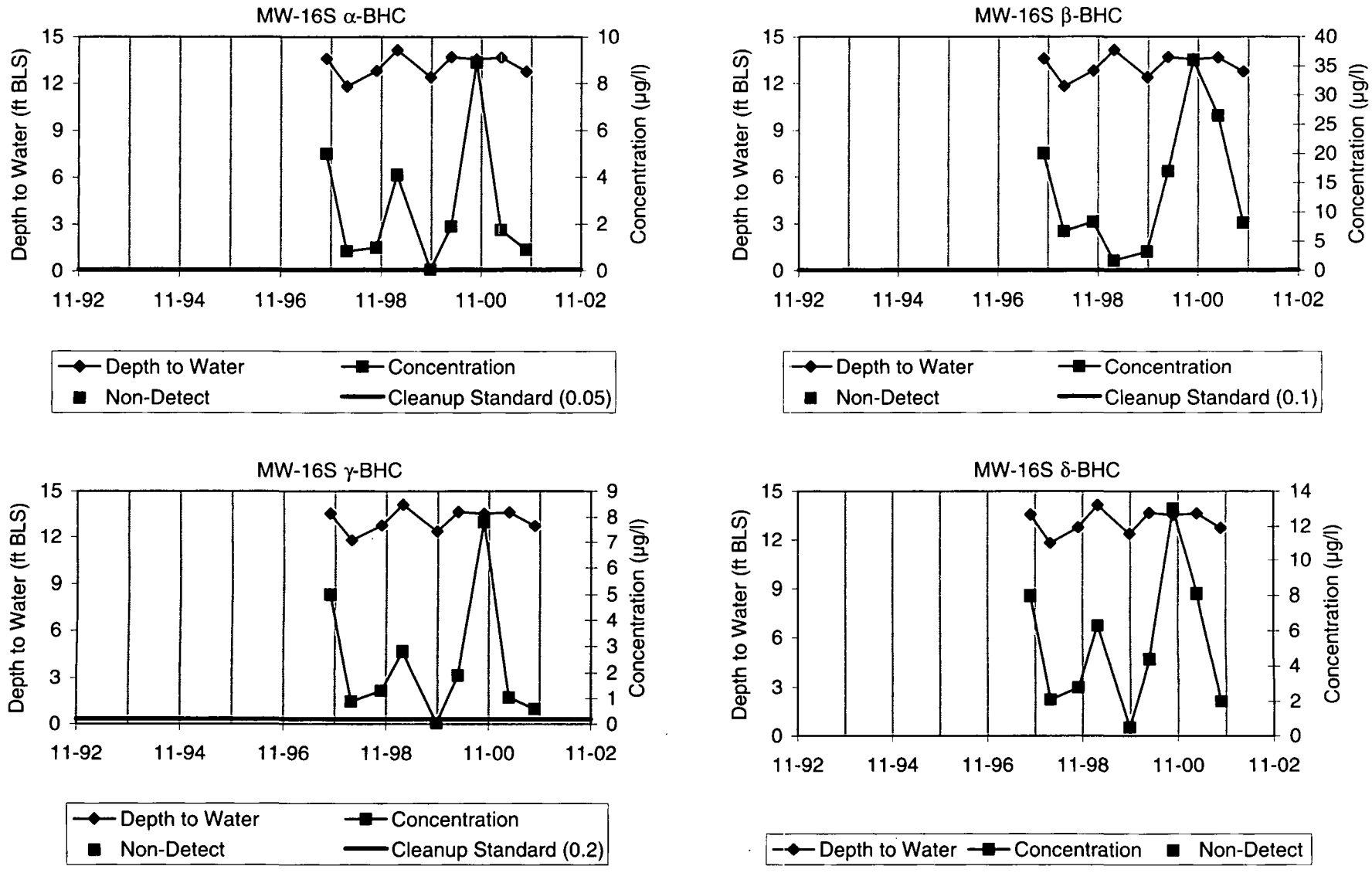




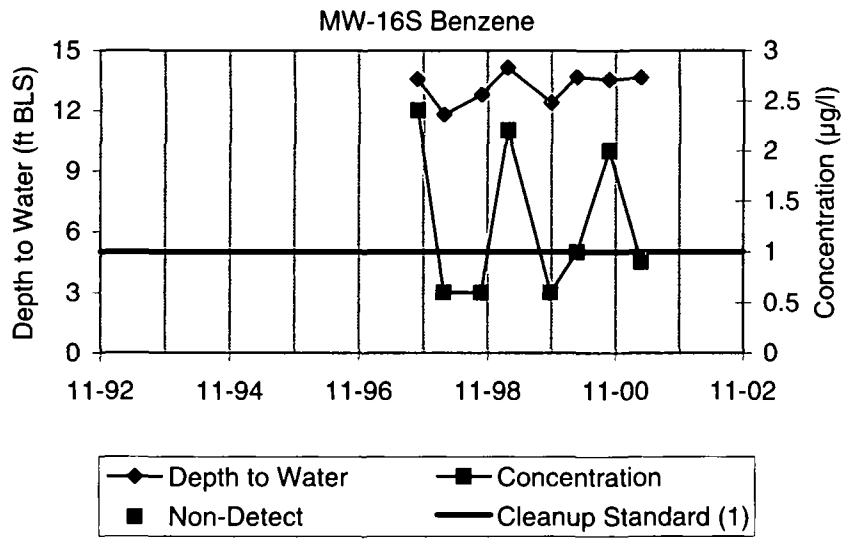


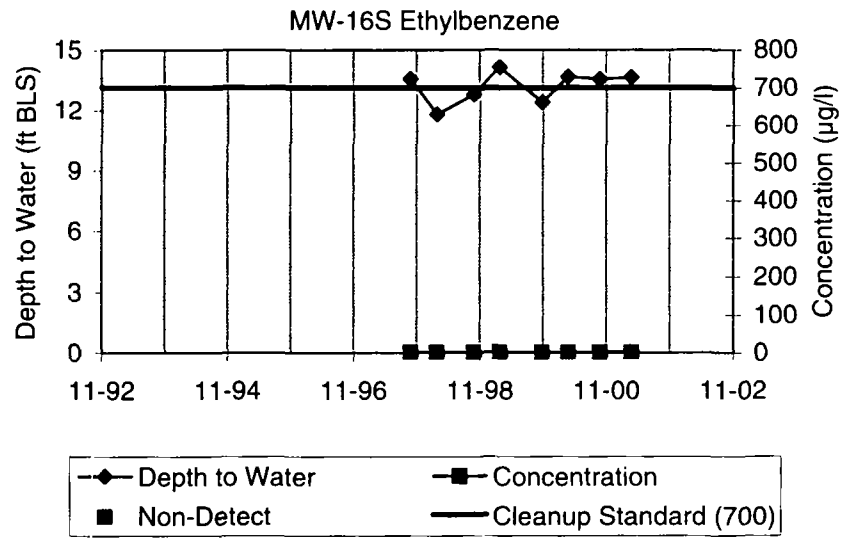


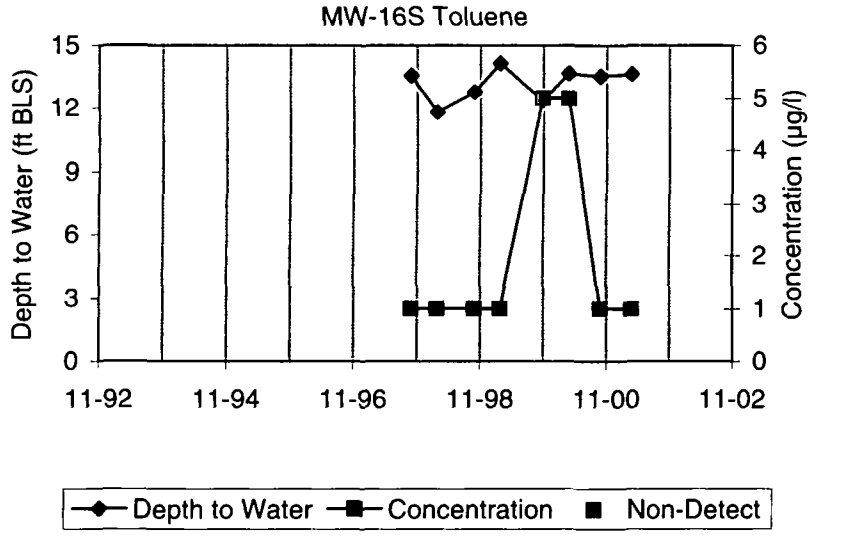
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

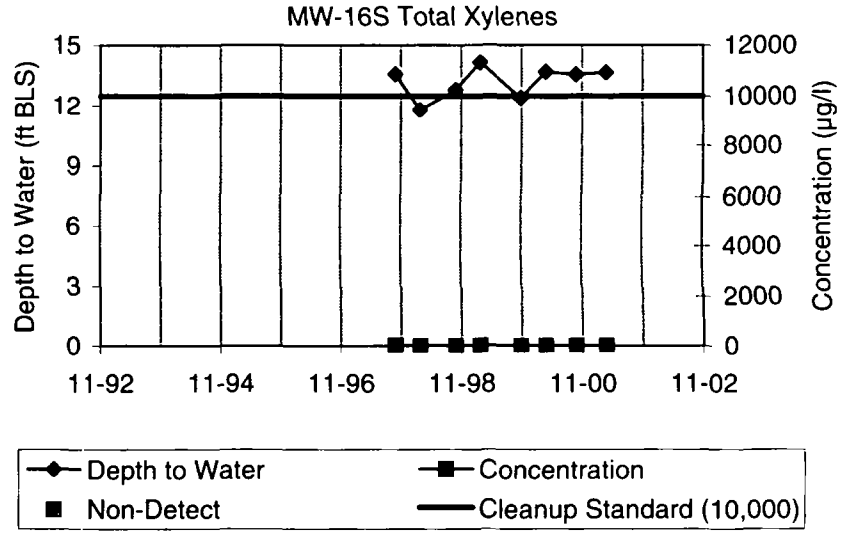


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

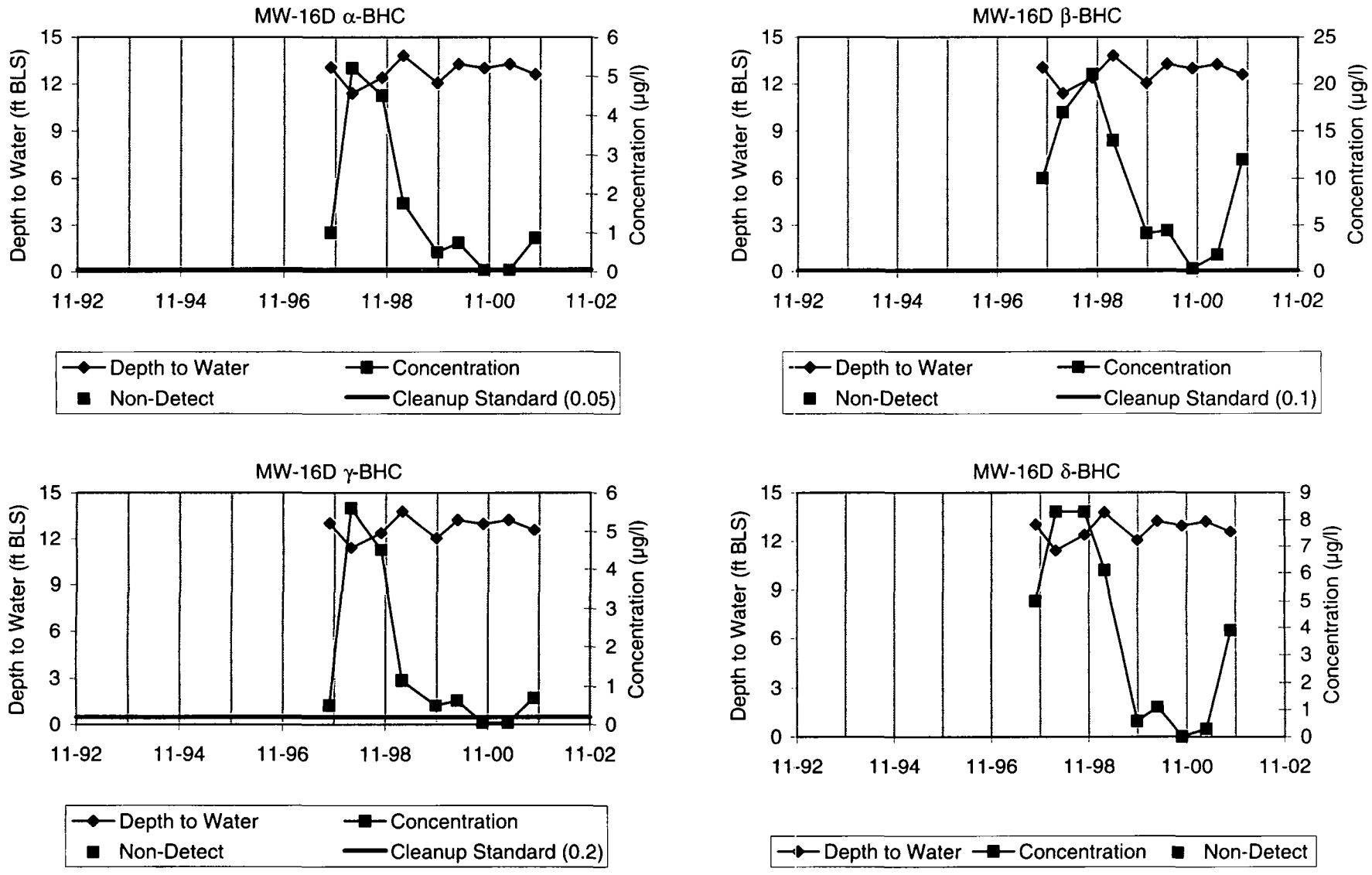




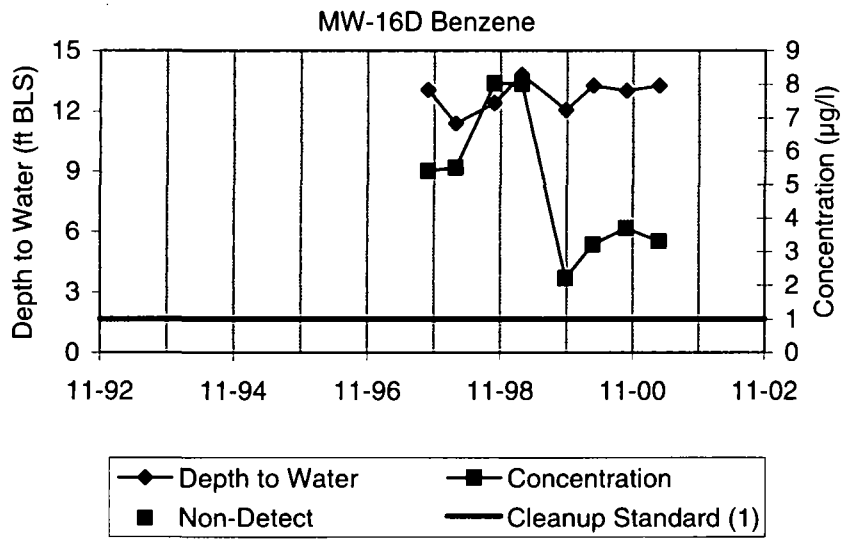


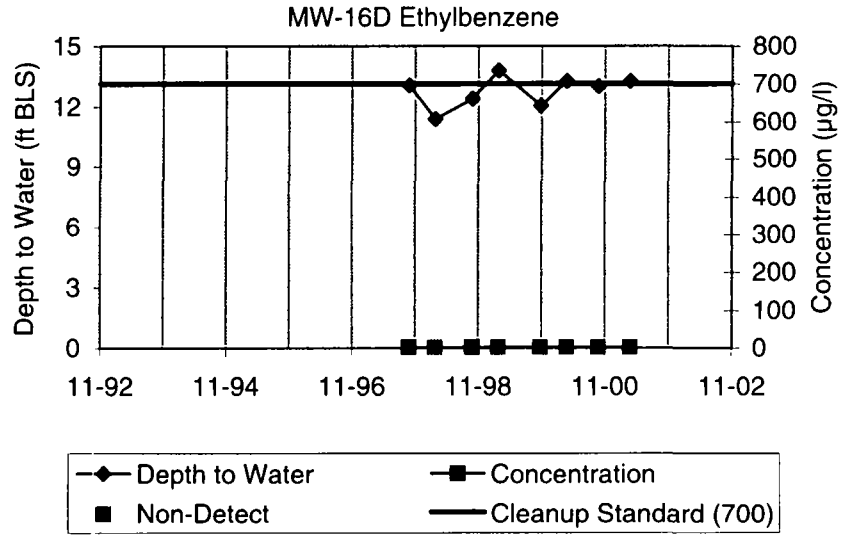


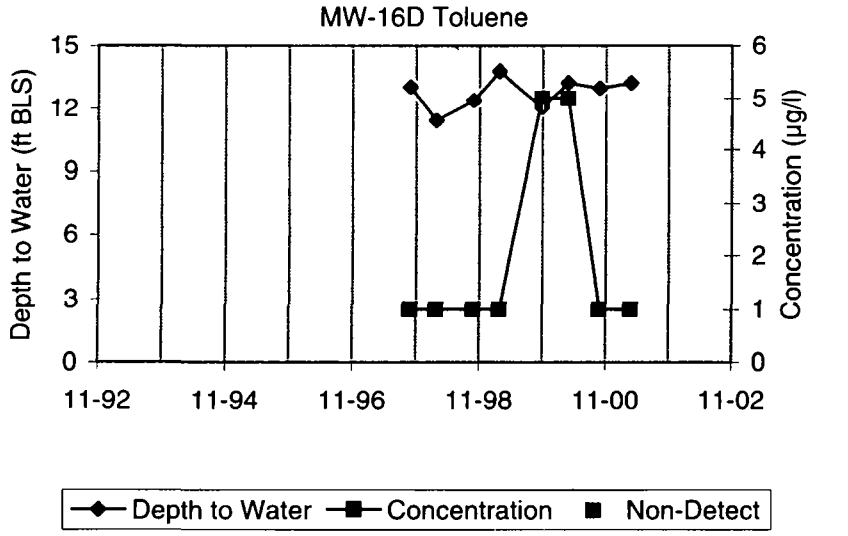
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-16S not sampled for BTEX in October 2001.)	Geomega

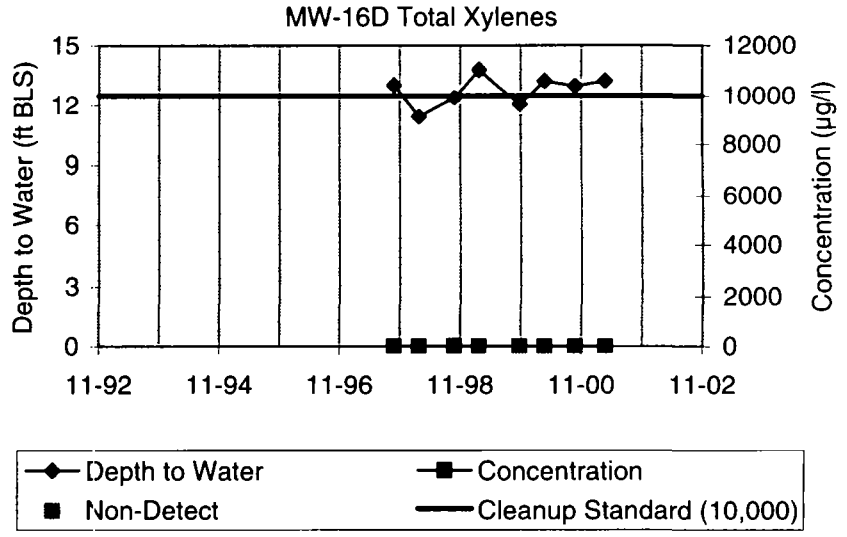


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

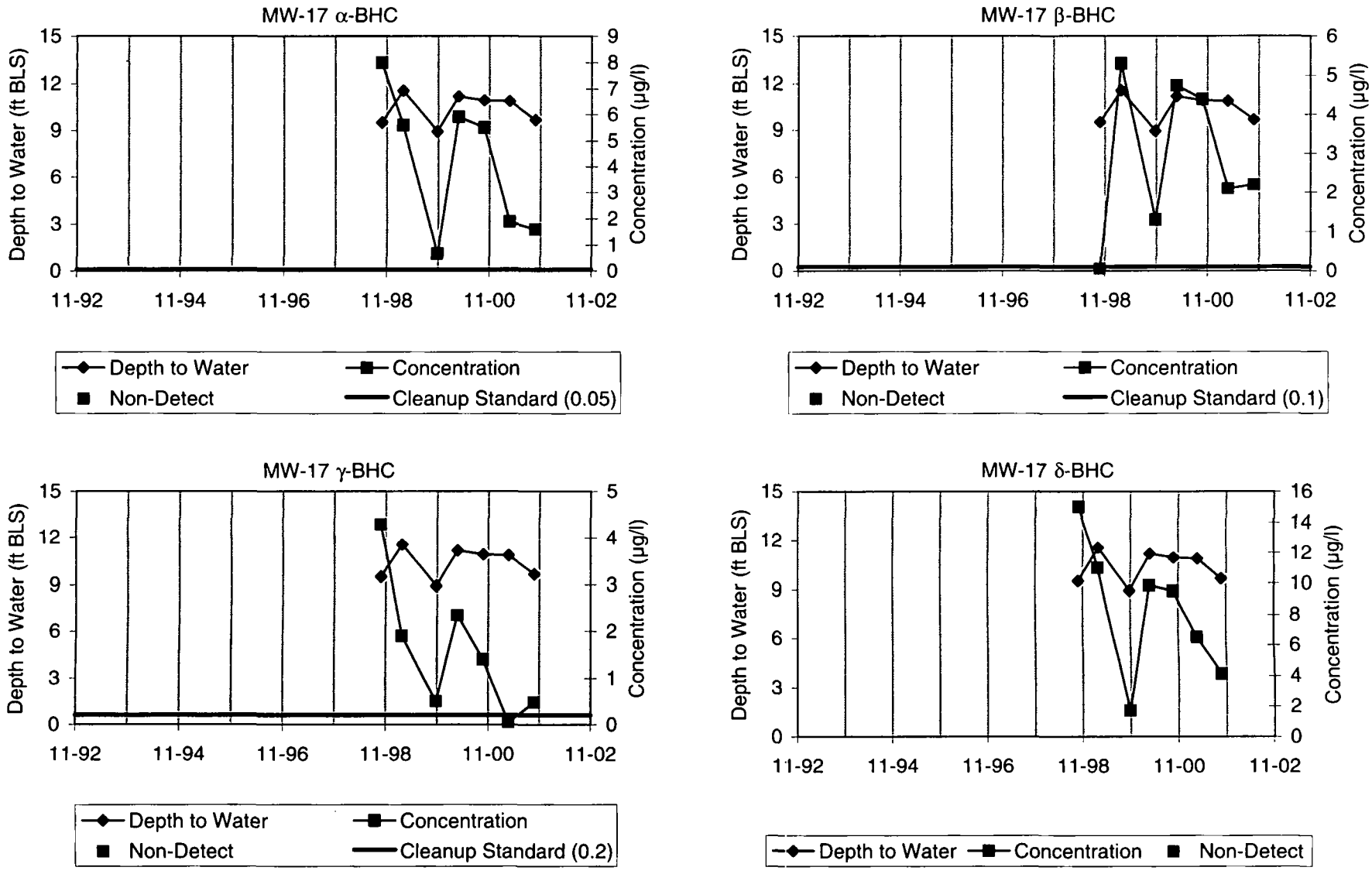




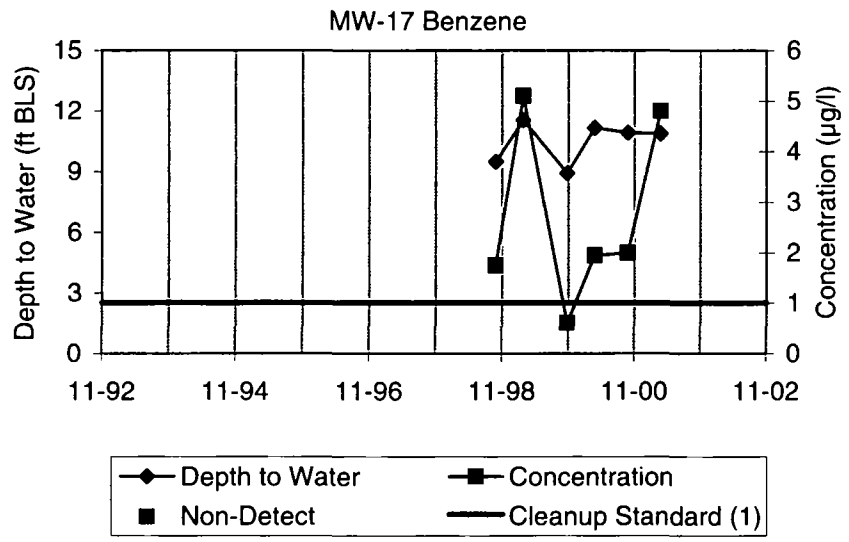


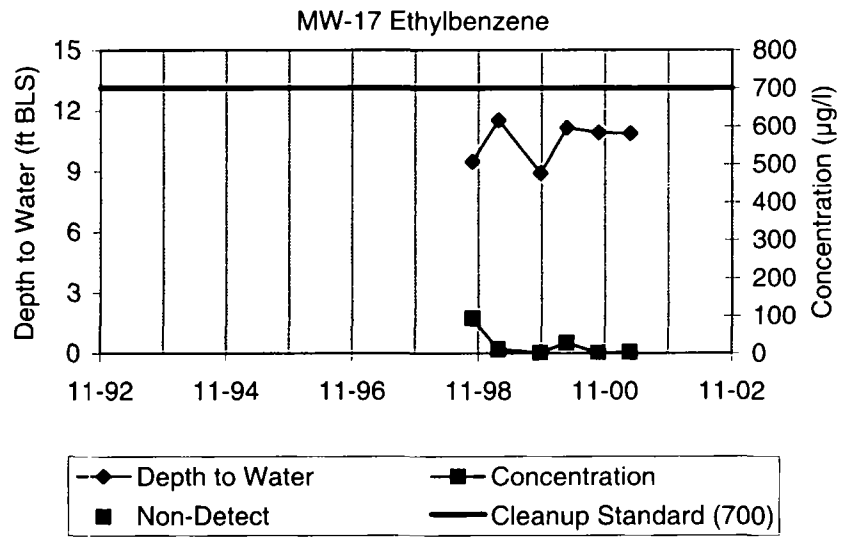


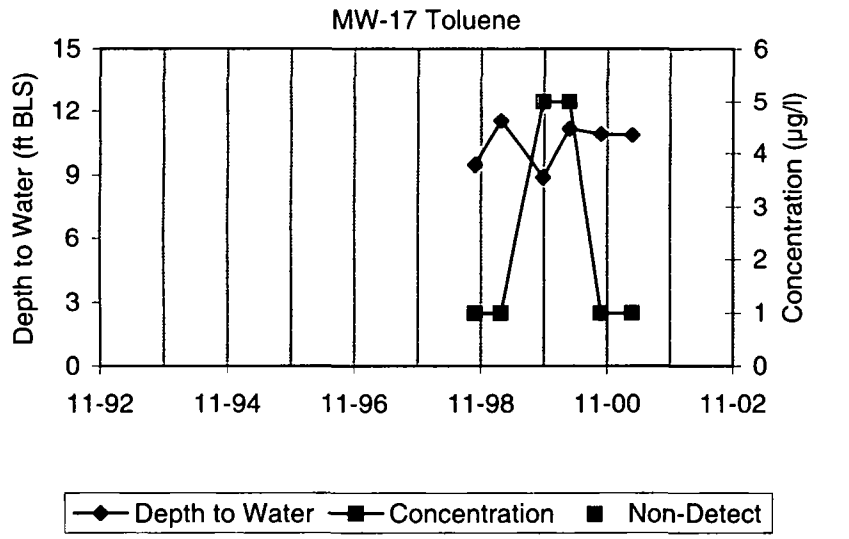
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-16D not sampled for BTEX in October 2001.)	Geomega

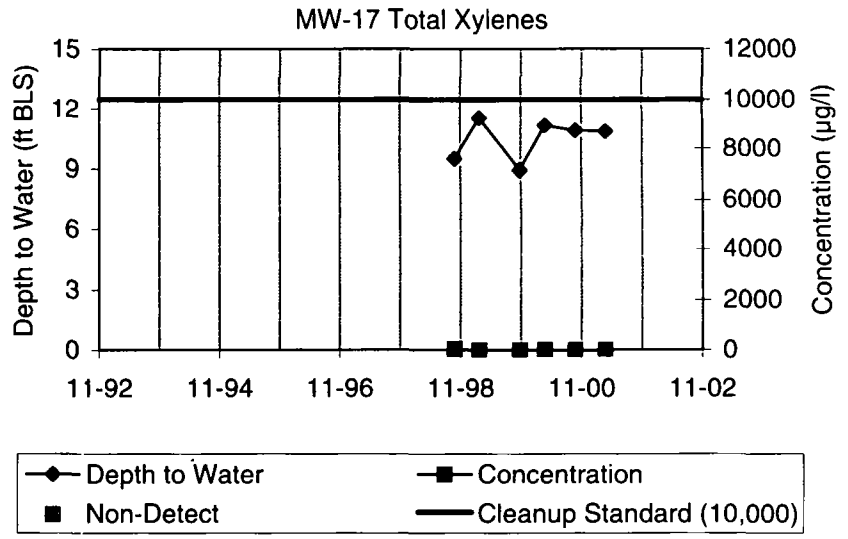


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida.	Geomega

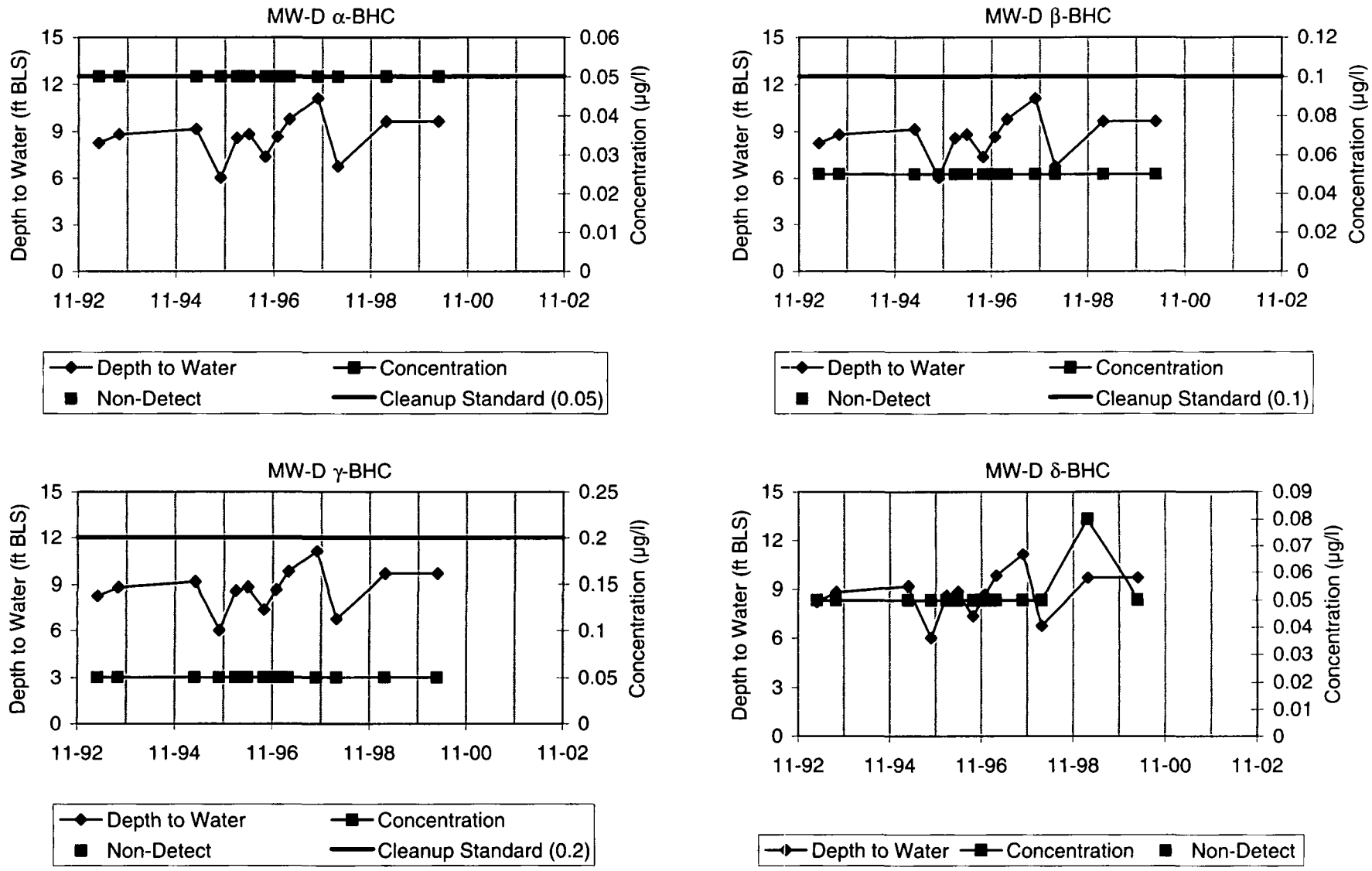




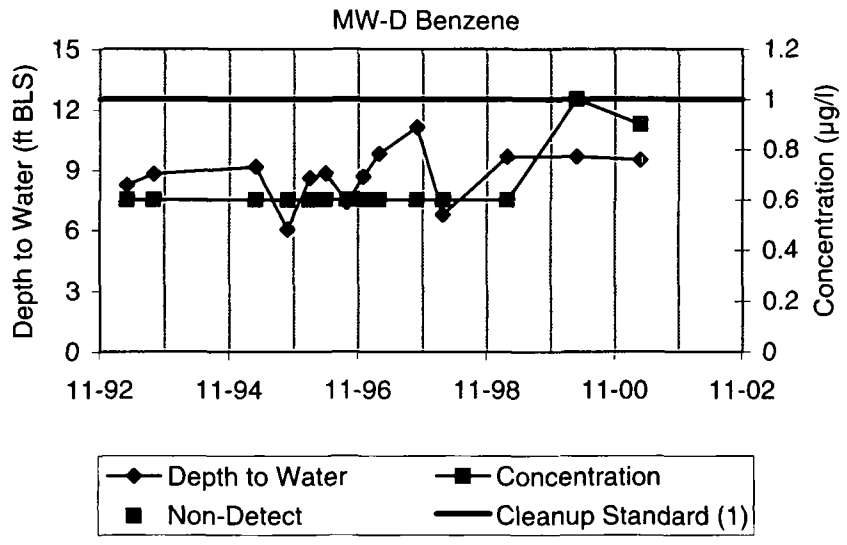


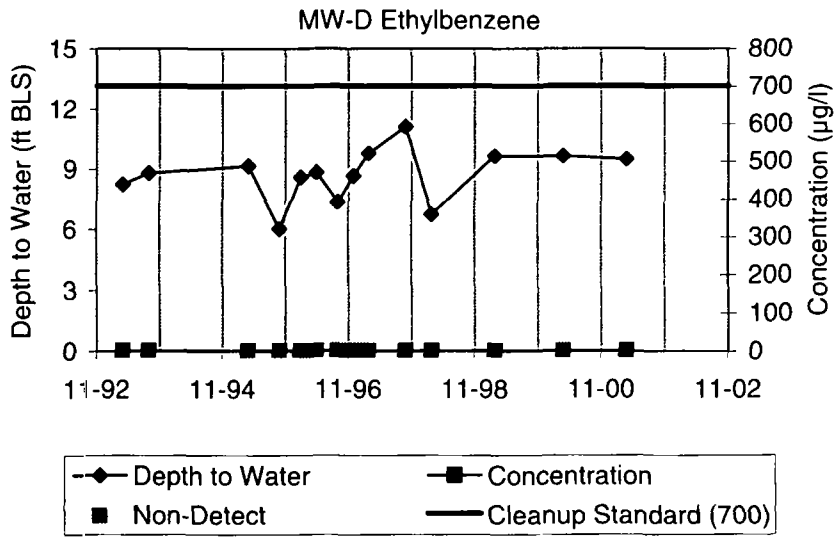


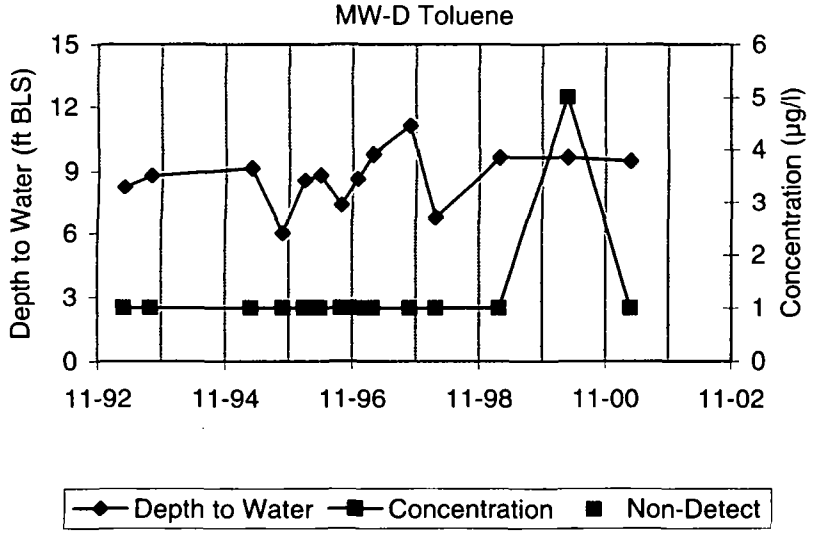
Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-17 not sampled for BTEX in October 2001.)	Geomega

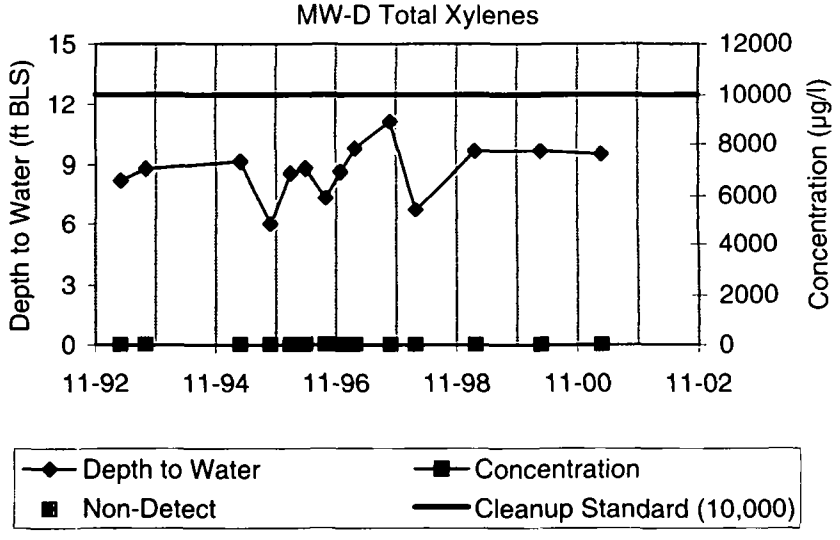


Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-D not sampled for BHCs in October 2001.)	Geomega









Generation Date: 01/21/02	Figure B-1. Depth to water vs. concentration at Chevron Orlando, Florida. (MW-D not sampled for BTEX in October 2001.)	Geomega

Appendix C. Summary of COC Analyses, Chevron, Orlando

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-1S	Oct-91		0.26	0.4	ND	5.4	53	55			ND	ND	<1.8
MW-1S	Apr-93		0.92	0.77	ND	1.1	35	100			ND	ND	<5
MW-1S	Sep-93		5	2	ND	5.9	63	120			ND	ND	<5
MW-1S	Apr-95		2.5	1.3	ND	6	120	360			ND	ND	13
MW-1S	Oct-95		1.9	0.89	ND	5.5	<4.5	320			ND	ND	<25
MW-1S	Feb-96		1.4	1.4	ND	8	240	720			ND	ND	6.8
MW-1S	May-96		1.7	1.4	ND	5.2	290	800			ND	ND	<5
MW-1S	Sep-96		1.4	0.76	ND	1.9	10	29			ND	ND	<5
MW-1S	Dec-96		3.1	<0.05	ND	4.6	120	240			ND	ND	<5
MW-1S	Mar-97		3.9	<0.5	ND	6	200	320			ND	ND	<25
MW-1S	Oct-97		4	2	ND	5.8	187	374.2			ND	ND	<0.63
MW-1S	Mar-98		<0.05	<0.05	ND	1.9	60.6	129.2			ND	ND	<5
MW-1S	Oct-98		1.8	<0.4	ND	3.6	54.1	128.9			ND	ND	<5
MW-1S	Mar-99		2.5	2.5	ND	4	39	49			ND	ND	<5
MW-1S	Nov-99		0.26	0.48	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-1S	Apr-00		1.4	1.7	<0.25	<1	8.8	10	<0.25	<0.25		<0.5	<5
MW-1S	Oct-00		0.84	1.1	<0.5	<0.9	<1.1	<1.1	<1	<1		<0.5	<5
MW-1S	Apr-01		0.11	0.49	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-1S	Apr-01	Duplicate	0.11	0.49	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-1S	Oct-01		0.92	0.33	<0.1	<0.9	<0.9	<2.2	<0.2	<0.2		<0.1	<5
MW-1D	Oct-91		<1	<1	ND	<1.2	67	520			ND	ND	ND
MW-1D	Apr-93		2.2	0.93	ND	3.6	240	620			ND	ND	ND
MW-1D	Sep-93		2	1.5	ND	3.1	120	200			ND	ND	ND
MW-1D	Apr-95		0.77	0.53	ND	1.4	45	57			ND	ND	ND
MW-1D	Oct-95		1	<0.05	ND	2.8	14	140			ND	ND	ND
MW-1D	Feb-96		0.96	0.92	ND	6	270	530			ND	ND	ND
MW-1D	May-96		0.8	0.88	ND	4.6	300	610			ND	ND	ND
MW-1D	Sep-96		0.59	0.92	ND	2.3	150	290			ND	ND	ND
MW-1D	Dec-96		0.92	0.59	ND	2.4	170	230			ND	ND	ND
MW-1D	Mar-97		1.1	<0.05	ND	3	200	350			ND	ND	ND
MW-1D	Oct-97		1	1	ND	2.4	174	518.6			ND	ND	ND
MW-1D	Mar-98		<0.05	<0.05	ND	8.9	315	1357			ND	ND	ND
MW-1D	Oct-98		1.2	<0.05	ND	3.17	180	501.7			ND	ND	ND
MW-1D	Mar-99		0.93	1.1	ND	<6	230	540			ND	ND	ND
MW-1D	Mar-99	Duplicate	0.81	1.1		3.8	210	500					
MW-1D	Nov-99		0.74	1.1	<0.05	3.5	150	530			<1	<0.1	<5

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-1D	Nov-99	Duplicate	0.9	1.1	<0.05	2.8	130	520			<1	<0.1	<5
MW-1D	Nov-99	Replicate	0.66	0.45	<0.05	2.9	150	500	<0.1	<0.1		<0.05	<5
MW-1D	Apr-00		0.95	1.7	<0.05	<10	150	680	<0.05	<0.05		<0.1	<50
MW-1D	Apr-00	Duplicate	1.2	2	0.13	4	190	700	<0.05	<0.05		<0.1	<5
MW-1D	Oct-00		1.7	3.7	0.19	<9	190	58	<0.1	<0.1		<0.05	<50
MW-1D	Apr-01		2	1.6	0.16	2.9	63	120	<0.1	<0.1		<0.05	<5
MW-1D	Oct-01		0.12	0.82	<0.05	<0.9	1.1	<2.2	<0.1	<0.1		<0.05	<5
MW-2S	Oct-91		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Apr-93		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Sep-93		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Apr-95		<0.05	<0.05	ND	ND	1.1	4.6			ND	ND	ND
MW-2S	Oct-95		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Feb-96		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	May-96		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Sep-96		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Dec-96		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Mar-97		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Oct-97		0.02	0.07	ND	ND	<0.43	<1			ND	ND	ND
MW-2S	Mar-98		<0.05	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Oct-98		<0.05	0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-2S	Mar-99		<0.05	<0.05	ND	ND	<1	<2			ND	ND	ND
MW-2S	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-2S	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-2S	Apr-00	Replicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-2S	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-2S	Apr-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-2S	Oct-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-2D	Oct-91		0.68	<0.5	ND	5.7	240	600			ND	ND	ND
MW-2D	Apr-93		<0.05	<0.05	ND	0.7	88	570			ND	ND	ND
MW-2D	Sep-93		0.26	1.4	ND	<0.6	110	470			ND	ND	ND
MW-2D	Apr-95		<0.25	0.45	ND	<0.6	97	370			ND	ND	ND
MW-2D	Oct-95		<0.05	<0.05	ND	0.6	5.1	120			ND	ND	ND
MW-2D	Feb-96		0.11	0.23	ND	<0.6	54	200			ND	ND	ND
MW-2D	May-96		<0.05	0.24	ND	0.7	47	130			ND	ND	ND
MW-2D	Sep-96		<0.05	0.18	ND	<0.6	21	30			ND	ND	ND
MW-2D	Dec-96		<0.05	<0.05	ND	<0.6	39	91			ND	ND	ND

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-2D	Mar-97		<0.05	<0.05	ND	<0.6	24	49			ND	ND	ND
MW-2D	Oct-97		0.05	0.2	ND	<0.25	22.1	29.5			ND	ND	ND
MW-2D	Mar-98		0.18	0.44	ND	<0.6	53.1	137			ND	ND	ND
MW-2D	Oct-98		0.14	<0.05	ND	<0.6	35.6	63.9			ND	ND	ND
MW-2D	Oct-98	Duplicate	0.11	<0.05		<0.6	38.9	71.2					
MW-2D	Mar-99		0.13	0.36	ND	<0.6	41	50			ND	ND	ND
MW-2D	Nov-99		1.3	0.4	1.3	<0.6	1	2			<1	<0.1	12
MW-2D	Apr-00		T0.44	0.41	<0.05	<1	70	120	<0.05	<0.05		<0.1	<5
MW-2D	Apr-00	Replicate	<0.04	<0.05	<0.05	<0.9	58	93	<0.1	<0.1		<0.05	<5
MW-2D	Oct-00		0.62	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-2D	Apr-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-2D	Apr-01	Duplicate	<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-2D	Oct-01		<0.04	<0.05	0.3				<0.1	<0.1		<0.05	
MW-2D	Oct-01	Duplicate	<0.04	<0.05	0.28				<0.1	<0.1		<0.05	
MW-3S	Oct-91		<0.15	0.61	<0.15	<3	120	930			5.8	1.8	ND
MW-3S	Sep-93		0.81	2.2	<0.05	<0.6	95	190			12	2.3	ND
MW-3S	Sep-93	Duplicate	1.1	4	<0.05	1.4	130	650			13	2.7	
MW-3S	Apr-95		0.58	2.2	<0.25	<1.2	62	150			17	2.2	ND
MW-3S	Apr-95	Duplicate	0.63	2	<0.25	<0.6	64	150			17	3.3	
MW-3S	Oct-95		0.24	<0.1	<0.1	2.3	31	47			<2	<0.2	ND
MW-3S	Feb-96		0.43	0.45	<0.05	<0.6	14	14			2.9	0.5	ND
MW-3S	May-96		0.47	0.94	<0.05	<0.6	22	22			<1	<0.1	ND
MW-3S	May-96	Duplicate	0.5	0.94	<0.05	<0.6	23	23			<1	<0.1	
MW-3S	Sep-96		0.52	<0.05	<0.05	3.3	36	57			<1	<0.1	ND
MW-3S	Dec-96		<0.25	<0.25	<0.25	<0.6	21	22			<5	<0.5	ND
MW-3S	Mar-97		<0.25	<0.25	<0.25	0.9	28	34			<5	<0.5	ND
MW-3S	Oct-97		0.8	0.9	<0.01	0.57	11.6	35.8			<0.75	0.4	ND
MW-3S	Oct-97	Duplicate	0.4	0.7	<0.01	0.56	11.4	35.2			<0.75	0.9	
MW-3S	Mar-98		0.46	0.89	0.09	1.9	9.4	49.3			<0.75	0.46	ND
MW-3S	Oct-98		0.39	0.74	<0.04	2.65	8.15	28.1			<0.23	<0.04	ND
MW-3S	Mar-99		0.35	0.99	<0.5	1.6	23	59			<1	2.3	ND
MW-3S	Nov-99		0.17	0.14	<0.1	2.5	2	21			<2	<0.2	<5
MW-3S	Apr-00		0.35	0.68	<0.05	2.2	11	14	<0.05	<0.05		<0.1	<5
MW-3S	Oct-00		0.37	<0.05	0.17	<0.9	41	120	<0.1	<0.1		<0.05	<5
MW-3S	Apr-01		0.54	<0.1	<0.1	<0.9	11	11	<0.2	<0.2		2.6	<5
MW-3S	Oct-01		0.55	<0.05	<0.05	1.4	1.1	2.1	<0.1	<0.1		<0.05	<5

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-3D	Oct-91		<0.25	<0.25	ND	<6	96	1100			ND	ND	ND
MW-3D	Sep-93		<0.05	<0.05	ND	<0.6	0.9	4			ND	ND	ND
MW-3D	Apr-95		<0.05	0.05	ND	<0.6	1.7	2.8			ND	ND	ND
MW-3D	Oct-95		0.05	0.07	ND	1.1	3.4	12			ND	ND	ND
MW-3D	Feb-96		0.06	<0.05	ND	<0.6	2.1	4.8			ND	ND	ND
MW-3D	May-96		<0.05	<0.05	ND	0.6	2.8	2.9			ND	ND	ND
MW-3D	Sep-96		<0.05	<0.05	ND	<0.6	8	32			ND	ND	ND
MW-3D	Dec-96		<0.05	<0.05	ND	<0.6	1.3	1.5			ND	ND	ND
MW-3D	Mar-97		<0.05	<0.05	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-3D	Mar-97	Duplicate	<0.05	<0.05		<0.6	<0.9	<0.9					
MW-3D	Oct-97		0.09	0.1	ND	<0.25	0.79	1.4			ND	ND	ND
MW-3D	Mar-98		0.07	0.06	ND	<0.6	<0.9	1			ND	ND	ND
MW-3D	Mar-98	Duplicate	0.082	0.092		<0.6	<0.9	<0.9					
MW-3D	Oct-98		0.14	0.19	ND	<0.06	<0.9	<0.9			ND	ND	ND
MW-3D	Mar-99		0.13	0.13	ND	<0.6	<1	<2			ND	ND	ND
MW-3D	Nov-99		0.11	0.14	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-3D	Apr-00		0.46	<0.25	<0.25	<1	<1	<2	<0.25	<0.25		<0.5	<5
MW-3D	Oct-00		0.08	0.14	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-3D	Apr-01		0.12	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-3D	Oct-01		0.06	<0.05	<0.05	<0.9	<0.9	<2.2	<0.1	<0.1		<0.05	<5
MW-3D	Oct-01	Duplicate	0.07	<0.05	<0.05	<0.9	<0.9	<2.2	<0.1	<0.1		<0.05	<5
MW-4S	Oct-91		1.3	1.6	<0.05	<1.2	<1.8	<1.8			ND	ND	ND
MW-4S	Apr-93		4.5	1.7	<0.05	2.7	15	37			ND	ND	ND
MW-4S	Sep-93		9.2	3.5	<0.05	22	200	420			ND	ND	ND
MW-4S	Apr-95		19	8.7	<1	23	160	34			ND	ND	ND
MW-4S	Oct-95		8.7	3.6	<0.5	5.3	5.6	<0.9			ND	ND	ND
MW-4S	Feb-96		12	4.3	<0.5	3	9.1	2.3			ND	ND	ND
MW-4S	May-96		19	11	<0.05	9.8	28	5.1			ND	ND	ND
MW-4S	Sep-96		10	10	1	4.6	3.6	<0.9			ND	ND	ND
MW-4S	Dec-96		17	9.3	<0.05	15	24	1.3			ND	ND	ND
MW-4S	Mar-97		8.3	<0.5	<0.5	16	32	<0.9			ND	ND	ND
MW-4S	Oct-97		20	10	1	13.5	25	4			ND	ND	ND
MW-4S	Mar-98		<0.5	<0.5	<0.5	3.6	6.9	<0.9			ND	ND	ND
MW-4S	Mar-98	Duplicate	NA	NA	NA	NA	NA	NA					
MW-4S	Oct-98		10	14	<1	6.24	11.1	<0.9			ND	ND	ND
MW-4S	Mar-99		15	7.6	<2.5	22	68	23			ND	ND	ND

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-4S	Nov-99		3	2.7	<1	8.3	110	340			<20	<2	<5
MW-4S	Nov-99	Duplicate	4.5	3.1	0.09	8.7	120	360			<1	<0.1	<5
MW-4S	Nov-99	Replicate	4.3	2.1	<0.05	7.8	120	300	<0.1	<0.1		<0.05	<5
MW-4S	Apr-00		9.1	8.7	<0.5	14	25	25	<0.5	<0.5		<1	<5
MW-4S	Apr-00	Replicate	7.6	7.5	<0.05	16	23	13	<0.1	<0.1		<0.05	<50
MW-4S	Oct-00		8.8	11	<0.5	11	29	61	<1	<1		<0.5	<5
MW-4S	Oct-00	Duplicate	9.3	11	<0.5	11	29	62	<1	<1		<0.5	<5
MW-4S	Oct-00	Replicate	2.9	3.1	<0.2	10	27	56			<0.5	<0.2	<1
MW-4S	Apr-01		8.4	8.4	1.4	11	37	100	<0.1	<0.1		<0.05	<5
MW-4S	Oct-01		3.1	9.5	<0.5				<1	<1		<0.5	
MW-4D	Oct-91		3.2	4.9	ND	17	360	1100			ND	ND	ND
MW-4D	Apr-93		5.7	2.4	ND	6	150	470			ND	ND	ND
MW-4D	Sep-93		5.3	3.5	ND	10	130	500			ND	ND	ND
MW-4D	Apr-95		4.5	3.5	ND	5.4	380	1100			ND	ND	ND
MW-4D	Oct-95		2.8	5.6	ND	3.6	220	590			ND	ND	ND
MW-4D	Feb-96		1.3	1.1	ND	3.3	170	400			ND	ND	ND
MW-4D	May-96		2.5	4.1	ND	3.8	320	910			ND	ND	ND
MW-4D	Sep-96		3.4	4.5	ND	4.6	260	740			ND	ND	ND
MW-4D	Dec-96		6.2	4.7	ND	6.1	290	700			ND	ND	ND
MW-4D	Mar-97		4.4	<0.5	ND	8	240	630			ND	ND	ND
MW-4D	Oct-97		4	2	ND	3.6	98.2	304.8			ND	ND	ND
MW-4D	Mar-98		<0.1	<0.1	ND	2.4	117	223.9			ND	ND	ND
MW-4D	Oct-98		3.1	3.6	ND	<0.6	123	341.3			ND	ND	ND
MW-4D	Mar-99		4.1	3.1	ND	17	220	570			ND	ND	ND
MW-4D	Nov-99		8.4	11	<0.3	2.9	2	<2			<5	<0.5	<5
MW-4D	Apr-00		3.3	2.9	<0.05	13	250	620	<0.05	<0.05		<0.1	<50
MW-4D	Apr-00	Duplicate	3.6	3.4	<0.05	10	230	560	<0.05	<0.05		<0.1	<5
MW-4D	Apr-00	Replicate	3.9	<0.05	<0.05	12	210	480	<0.1	<0.1		<0.05	<50
MW-4D	Oct-00		4.4	3.3	<0.5	19	230	620	<1	<1		<0.5	<5
MW-4D	Apr-01		4.3	3.3	<0.05	19	230	560	<0.1	<0.1		<0.05	<5
MW-4D	Oct-01		5.1	3.6	<0.5				<1	<1		<0.5	
MW-5S	Sep-93		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Apr-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Oct-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Feb-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	May-96		ND	ND	ND	ND	ND	ND			ND	ND	ND

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-5S	Sep-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Dec-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Mar-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Oct-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Mar-98		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Mar-99		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-5S	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-5S	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-5S	Apr-00	Replicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-5S	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-5S	Apr-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-5S	Oct-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-5D	Sep-93		<0.05	<0.05	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	Apr-95		<0.05	0.15	ND	<0.6	<0.9	13			ND	ND	ND
MW-5D	Oct-95		<0.05	<0.05	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	Feb-96		<0.05	<0.05	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	May-96		<0.05	<0.05	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	Sep-96		<0.05	0.06	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	Dec-96		<0.05	0.11	ND	<0.6	<0.9	<0.9			ND	ND	ND
MW-5D	Mar-97		<0.05	<0.05	ND	<0.6	2	<0.9			ND	ND	ND
MW-5D	Oct-97		0.02	0.2	ND	0.3	21	95.8			ND	ND	ND
MW-5D	Mar-98		0.05	0.19	ND	<0.6	31.4	145			ND	ND	ND
MW-5D	Mar-99		<0.3	0.16	ND	<0.6	5	13			ND	ND	ND
MW-5D	Mar-99	Duplicate	<0.3	0.16		<0.6	5	13					
MW-5D	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-5D	Nov-99	Duplicate	<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-5D	Nov-99	Replicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-5D	Apr-00		0.11	0.22	<0.05	<1	<1	38	<0.05	<0.05		<0.1	<5
MW-5D	Apr-00	Replicate	<0.04	<0.05	<0.05	<0.9	17	35	<0.1	<0.1		<0.05	<5
MW-5D	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-5D	Oct-00	Duplicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-5D	Oct-00	Replicate	<0.02	<0.02	<0.02	<1	<1	<3			<0.05	<0.02	<1
MW-5D	Apr-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-5D	Apr-01	Duplicate	<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-5D	Oct-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-6S	Sep-93		ND	ND	ND	1.1	ND	ND			<1	ND	ND

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-6S	Apr-95		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Oct-95		ND	ND	ND	<0.6	ND	ND			1.34	ND	ND
MW-6S	Feb-96		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	May-96		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Sep-96		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Dec-96		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Mar-97		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Oct-97		ND	ND	ND	<0.25	ND	ND			<0.75	ND	ND
MW-6S	Mar-98		ND	ND	ND	<0.6	ND	ND			<0.75	ND	ND
MW-6S	Mar-98	Duplicate				<0.6					<0.76		
MW-6S	Mar-99		ND	ND	ND	<0.6	ND	ND			<1	ND	ND
MW-6S	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-6S	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-6D	Sep-93		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Apr-95		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Oct-95		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Feb-96		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	May-96		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Sep-96		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Dec-96		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Mar-97		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Oct-97		ND	ND	ND	ND	ND	ND			<0.75	ND	ND
MW-6D	Mar-98		ND	ND	ND	ND	ND	ND			<0.75	ND	ND
MW-6D	Mar-99		ND	ND	ND	ND	ND	ND			<1	ND	ND
MW-6D	Apr-00		0.11	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-6D	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-6D	Oct-00	Duplicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-6D	Oct-00	Replicate	<0.02	<0.02	<0.02	<1	<1	<3			<0.05	<0.02	<1
MW-7S	Sep-93		ND	<0.05	ND	ND	ND	ND			<1	ND	ND
MW-7S	Apr-95		ND	<0.1	ND	ND	ND	ND			3.4	ND	ND
MW-7S	Oct-95		ND	<0.1	ND	ND	ND	ND			8.2	ND	ND
MW-7S	Oct-95	Duplicate		<0.1							6.5		
MW-7S	Feb-96		ND	<0.05	ND	ND	ND	ND			4.7	ND	ND
MW-7S	May-96		ND	<0.1	ND	ND	ND	ND			3.4	ND	ND
MW-7S	Sep-96		ND	<0.1	ND	ND	ND	ND			11	ND	ND
MW-7S	Sep-96	Duplicate		<0.1							9.2		

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-7S	Dec-96		ND	<0.05	ND	ND	ND	ND			<1	ND	ND
MW-7S	Mar-97		ND	<0.1	ND	ND	ND	ND			<1	ND	ND
MW-7S	Oct-97		ND	0.06	ND	ND	ND	ND			<0.75	ND	ND
MW-7S	Mar-98		ND	<0.05	ND	ND	ND	ND			<0.77	ND	ND
MW-7S	Mar-99		ND	<0.05	ND	ND	ND	ND			<1	ND	ND
MW-7S	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	0.12		<0.1	<5
MW-7S	Apr-01					<0.9	<1.1	<1.1					<5
MW-7D	Sep-93		ND	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-7D	Apr-95		ND	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-7D	Oct-95		ND	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-7D	Feb-96		ND	<0.05	ND	ND	1	4.8			ND	ND	ND
MW-7D	Feb-96	Duplicate		<0.05			<0.9	<0.9					
MW-7D	May-96		ND	<0.05	ND	ND	<0.9	24			ND	ND	ND
MW-7D	Sep-96		ND	<0.05	ND	ND	<0.9	5.1			ND	ND	ND
MW-7D	Dec-96		ND	<0.05	ND	ND	1.1	1.2			ND	ND	ND
MW-7D	Dec-96	Duplicate		<0.05			<0.9	1.1					
MW-7D	Mar-97		ND	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-7D	Oct-97		ND	0.04	ND	ND	<0.43	<1			ND	ND	ND
MW-7D	Mar-98		ND	<0.05	ND	ND	<0.9	<0.9			ND	ND	ND
MW-7D	Mar-99		ND	<0.3	ND	ND	<1	<2			ND	ND	ND
MW-7D	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-7D	Apr-01					<0.9	<1.1	<1.1					<5
MW-8S	Sep-93		0.14	0.61	<0.05	6	2000	5900			<1	<0.1	ND
MW-8S	Apr-95		0.05	<0.05	<0.05	1	83	160			1.1	0.15	ND
MW-8S	Oct-95		<0.05	<0.05	<0.05	<0.6	17	46			<1	<0.1	ND
MW-8S	Feb-96		<0.05	<0.05	<0.05	2.3	60	490			<1	<0.1	ND
MW-8S	May-96		<0.05	<0.05	<0.05	1.6	80	710			<1	<0.1	ND
MW-8S	Sep-96		<0.05	<0.05	<0.05	<0.6	<0.9	19			<1	<0.1	ND
MW-8S	Dec-96		<0.05	<0.05	<0.05	0.8	8.5	30			<1	<0.1	ND
MW-8S	Mar-97		<0.05	<0.05	<0.05	0.7	17	75			<1	<0.1	ND
MW-8S	Oct-97		0.03	0.04	0.03	0.57	6.6	9.2			<0.78	<0.01	ND
MW-8S	Mar-98		<0.05	<0.05	<0.01	<0.6	1.3	10.8			<0.75	<0.01	ND
MW-8S	Oct-98		<0.05	<0.05	<0.04	<0.6	<0.9	<0.9			<0.23	<0.04	ND
MW-8S	Mar-99		0.02	<0.05	<0.05	<0.6	1	<2			<1	<0.1	ND
MW-8S	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-8S	Apr-00		0.09	<0.05	<0.05	<1	11	14	<0.05	<0.05		0.1	<5

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-8S	Oct-00		<0.04	0.22	0.06	<0.9	9.7	22	<0.1	<0.1		<0.05	<5
MW-8S	Apr-01		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-8S	Oct-01		<0.04	0.29	<0.05				<0.1	<0.1		<0.05	
MW-8D	Sep-93		<0.05	<0.05	ND	<0.6	26	87			ND	<0.1	ND
MW-8D	Apr-95		0.16	<0.05	ND	2.3	21	79			ND	0.12	ND
MW-8D	Oct-95		0.08	<0.05	ND	<0.6	20	15			ND	<0.1	ND
MW-8D	Feb-96		<0.05	<0.05	ND	0.6	6.1	85			ND	<0.1	ND
MW-8D	May-96		0.08	0.06	ND	<0.6	7	120			ND	<0.1	ND
MW-8D	May-96	Duplicate	0.06	0.06		<0.6	6.1	120				<0.1	
MW-8D	Sep-96		0.06	0.05	ND	<0.6	1.8	23			ND	<0.1	ND
MW-8D	Dec-96		<0.05	<0.05	ND	0.9	6.7	80			ND	<0.1	ND
MW-8D	Mar-97		<0.05	<0.05	ND	<0.6	4.5	54			ND	<0.1	ND
MW-8D	Oct-97		0.2	0.04	ND	0.58	3.8	40.3			ND	0.05	ND
MW-8D	Mar-98		0.36	<0.05	ND	0.77	4.3	16.8			ND	0.055	ND
MW-8D	Oct-98		0.41	<0.05	ND	<0.6	11.5	29.24			ND	<0.04	ND
MW-8D	Mar-99		0.19	0.08	ND	<0.6	4	7			ND	<0.1	ND
MW-8D	Nov-99		0.05	0.06	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-8D	Apr-00		0.15	0.07	<0.05	<1	3	3.3	<0.05	<0.05		0.11	<5
MW-8D	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-8D	Apr-01		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-8D	Oct-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-9D	Sep-93		0.25	0.32	<0.05	2.2	2	7.4			ND	3	<5
MW-9D	Apr-95		0.21	0.74	<0.05	2.9	1.7	2.8			ND	0.71	<5
MW-9D	Apr-95	Duplicate	0.24	0.78	<0.05	2.6	3.6	<0.9				0.55	<5
MW-9D	Oct-95		0.27	1.3	<0.05	<0.6	<0.9	<0.9			ND	0.87	<5
MW-9D	Feb-96		0.31	1.5	<0.05	1.9	2.8	<0.9			ND	1.1	3.9
MW-9D	May-96		0.57	3.1	<0.05	2.2	2.6	<0.9			ND	<0.1	<5
MW-9D	Sep-96		0.46	3.6	<0.05	0.8	1.1	<0.9			ND	<0.1	<5
MW-9D	Dec-96		0.63	3.5	<0.05	1.1	<0.9	<0.9			ND	<0.1	5.9
MW-9D	Dec-96	Duplicate	0.68	3.9	<0.05	1.1	<0.9	<0.9				<0.1	<5
MW-9D	Mar-97		<0.5	6.7	<0.5	0.6	<0.9	<0.9			ND	<1	<5
MW-9D	Mar-97	Duplicate	<0.5	5.3	<0.5	0.6	<0.9	<0.9				<1	<5
MW-9D	Oct-97		0.9	3	<0.05	0.47	<0.43	0.66			ND	0.2	4.6
MW-9D	Mar-98		0.47	3.3	0.019	<0.6	<0.9	<0.9			ND	0.18	<5
MW-9D	Oct-98		1.2	3.7	<0.04	0.61	<0.9	<0.9			ND	0.21	<5
MW-9D	Mar-99		0.4	2	<0.1	<0.6	<1	<2			ND	0.12	<5

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-9D	Nov-99		0.28	2.3	<0.3	<0.6	<1	<2			<5	<0.5	<5
MW-9D	Nov-99	Replicate	0.25	1.13	0.62	<0.9	<1.1	<1.1	<0.1	<0.1		2.1	<5
MW-9D	Apr-00		0.56	1	<0.25	<1	<1	<2	<0.25	<0.25		0.54	<5
MW-9D	Oct-00		0.08	0.31	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-9D	Apr-01		<0.04	0.38	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-9D	Oct-01		0.06	0.34	<0.05	<0.9	<0.9	<2.2	<0.1	<0.1		0.73	<5
MW-10S	Sep-93		2	70	1.2	<0.6	ND	ND			<1	<0.1	ND
MW-10S	Apr-95		3.6	47	1.6	8.8	ND	ND			<10	<1	ND
MW-10S	Oct-95		2.6	28	0.98	3.2	ND	ND			<10	<1	ND
MW-10S	Feb-96		4	17	3.4	2.6	ND	ND			<10	<1	ND
MW-10S	Feb-96	Duplicate	5	19	4.1	2.7					<10	<1	
MW-10S	May-96		6.8	32	6.6	3.9	ND	ND			7.5	<0.1	ND
MW-10S	Sep-96		<4.2	<15	<3.8	4.7	ND	ND			<1	<0.1	ND
MW-10S	Dec-96		4.7	23	3.4	3.8	ND	ND			<1	<0.1	ND
MW-10S	Mar-97		5.7	46	3.7	2.2	ND	ND			<10	<1	ND
MW-10S	Oct-97		0.8	8	0.5	3.4	ND	ND			<0.77	<0.1	ND
MW-10S	Mar-98		2.2	19	1.1	1	ND	ND			<0.75	<0.2	ND
MW-10S	Mar-98	Duplicate	1.9	17	1.1	1.1					<0.75	<0.3	
MW-10S	Oct-98		3.5	24	2.3	2.69	ND	ND			<0.23	0.73	ND
MW-10S	Mar-99		2.7	23	1.8	1.4	ND	ND			<20	<2	ND
MW-10S	Nov-99		1	21	<1	1.3	<1	<2			<20	<2	<5
MW-10S	Apr-00		2.4	15	1.8	<1	<1	<2	<1	<1		<2	<5
MW-10S	Oct-00		1.8	19	1.1	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-10S	Apr-01		1.6	24	2.1	<0.9	<1.1	<1.1	<0.1	2.7		<0.05	<5
MW-10S	Oct-01		1.8	59	<1.25	<0.9	<0.9	<2.2	<2.5	<2.5		<1.25	<5
MW-10S	Oct-01	Duplicate	1.6	60	<1.25	<0.9	<0.9	<2.2	<2.5	<2.5		<1.25	<5
MW-10D	Sep-93		1	6.2	1	2.4	1.4	7			ND	ND	<5
MW-10D	Sep-93	Duplicate	1.2	6	1.1	2.7	1.9	8.6					<5
MW-10D	Apr-95		0.55	4.6	0.87	20	1.5	5.8			ND	ND	20
MW-10D	Oct-95		<0.05	2.6	<0.05	4.7	1.1	2.1			ND	ND	11
MW-10D	Feb-96		0.15	1.2	0.09	2	<0.9	<0.9			ND	ND	<2
MW-10D	May-96		<0.05	1.27	<0.05	2	<0.9	<0.9			ND	ND	67
MW-10D	Sep-96		0.05	0.05	0.05	2.5	<0.9	<0.9			ND	ND	81
MW-10D	Dec-96		<0.05	<0.05	<0.05	4.6	<0.9	<0.9			ND	ND	160
MW-10D	Mar-97		<0.05	<0.05	<0.05	2.5	<0.9	<0.9			ND	ND	120
MW-10D	Oct-97		<0.01	0.3	<0.01	5.1	<0.43	<1			ND	ND	298

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-10D	Mar-98		<0.05	0.19	0.015	3	<0.9	<0.9			ND	ND	246
MW-10D	Oct-98		0.065	0.6	0.086	5.56	<0.9	<0.9			ND	ND	289
MW-10D	Mar-99		<0.3	0.12	<0.3	5.4	<1	<2			ND	ND	210
MW-10D	Nov-99		<0.05	0.63	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-10D	Apr-00		<0.05	<0.05	<0.05	2.7	<1	<2	<0.05	<0.05		<0.1	120
MW-10D	Oct-00		<0.04	0.84	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	17
MW-10D	Apr-01		<0.04	0.19	<0.05	1.6	<1.1	<1.1	<0.1	<0.1		<0.05	37
MW-10D	Oct-01		<0.04	<0.05	<0.05	<0.9	<0.9	<2.2	<0.1	<0.1		<0.05	<5
MW-11	Sep-93		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Apr-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Oct-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Feb-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	May-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Sep-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Dec-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Mar-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Oct-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Mar-98		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Mar-99		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-11	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-12	Sep-93		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Sep-93	Duplicate										<0.1	
MW-12	Apr-95		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Oct-95		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Feb-96		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	May-96		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Sep-96		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Dec-96		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Mar-97		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Oct-97		ND	ND	ND	ND	ND	ND			ND	0.04	ND
MW-12	Mar-98		ND	ND	ND	ND	ND	ND			ND	0.03	ND
MW-12	Oct-98		ND	ND	ND	ND	ND	ND			ND	<0.04	ND
MW-12	Mar-99		ND	ND	ND	ND	ND	ND			ND	<0.1	ND
MW-12	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-12	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		0.11	<5
MW-12	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-12	Oct-00	Duplicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-12	Oct-00	Replicate	<0.02	<0.02	<0.02	<1	<1	<3			<0.05	<0.02	<1
MW-12	Apr-01		<0.04	<0.05	<0.05				<0.1	<0.1		<0.05	
MW-15	Feb-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	May-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Sep-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Dec-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Mar-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Oct-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Mar-98		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Oct-98		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Mar-99		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-15	Nov-99		<0.05	<0.05	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-15	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-15	Oct-00		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-15	Apr-01		<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-15	Oct-01		0.07	<0.05	<0.05	<0.9	<0.9	<2.2	<0.1	<0.1		<0.05	<5
MW-16S	Oct-97		5	20	5	2.4	<0.43	2.1			ND	<0.3	<0.63
MW-16S	Mar-98		0.84	6.7	0.88	<0.6	<0.9	<0.9			ND	<0.1	<5
MW-16S	Oct-98		1	8.3	1.3	<0.6	<0.9	<0.9			ND	<0.04	<5
MW-16S	Mar-99		4.1	1.7	2.8	2.2	<1	<2			ND	<1	<5
MW-16S	Nov-99		<0.05	3.2	<0.05	<0.6	<1	<2			<1	<0.1	<5
MW-16S	Apr-00		1.9	17	1.9	<1	<1	<2	<0.25	<0.25		<0.5	<5
MW-16S	Oct-00		8.9	36	7.8	2	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-16S	Apr-01		1.8	27	1.1	<0.9	<1.1	<1.1	<0.1	3.3		<0.05	<5
MW-16S	Apr-01	Duplicate	1.7	26	1	<0.9	<1.1	<1.1	<0.1	2.9		<0.05	<5
MW-16S	Oct-01		0.9	8.3	0.6				<1	<1		<0.5	
MW-16S	Oct-01	Duplicate	0.9	8	0.6				<1	<1		<0.5	
MW-16D	Oct-97		1	10	0.5	5.4	0.55	<1			ND	0.3	40.6
MW-16D	Mar-98		5.2	17	5.6	5.5	<0.9	<0.9			ND	<0.01	43.9
MW-16D	Oct-98		4.5	21	4.5	8.02	1.41	2.44			ND	<1	46.5
MW-16D	Mar-99		1.9	15	1.2	8	<1	<2			ND	<1	46
MW-16D	Mar-99	Duplicate	1.6	13	1.1	8	<1	<2				<1	45
MW-16D	Nov-99		<0.5	4.1	<0.5	2.2	<1	<2			<10	<1	48
MW-16D	Apr-00		0.74	4.4	0.63	3.2	<1	<2	<0.25	<0.25		<0.5	43
MW-16D	Oct-00		<0.04	0.31	<0.05	3.7	<1.1	<1.1	<0.1	<0.1		<0.05	11

Table C-1. Summary of COC analyses, Chevron Orlando, Florida

Well ID	Date	Duplicate	α-BHC µg/l	β-BHC µg/l	γ-BHC µg/l	Benzene µg/l	Ethylbenzene µg/l	Xylenes µg/l	α-Chlordane µg/l	γ-Chlordane µg/l	Chlordane µg/l	DDD µg/l	MTBE µg/l
MW-16D	Apr-01		<0.04	1.8	<0.05	3.3	<1.1	<1.1	<0.1	<0.1		<0.05	5.4
MW-16D	Oct-01		0.86	12	0.7				<0.1	<0.1		<0.05	
MW-17	Oct-98		7.5	<ND	3.8	1.76	95.7	51			ND	ND	ND
MW-17	Oct-98	Duplicate	8.5	<ND	4.8	1.74	89.9	46.8					
MW-17	Mar-99		5.6	5.3	1.9	5.1	11	2			ND	ND	ND
MW-17	Nov-99		0.68	1.3	<0.5	<0.6	2	5			<10	<1	<5
MW-17	Apr-00		5.9	4.5	2.4	2	28	2.3	T2.3	<0.25		<0.5	<5
MW-17	Apr-00	Duplicate	5.9	5	2.3	1.9	27	<2	T2.2	<0.05		<0.1	<5
MW-17	Oct-00		5.5	4.4	1.4	2	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-17	Apr-01		1.9	2.1	<0.05	4.8	3.1	<1.1	<0.1	1.5		<0.05	<5
MW-17	Oct-01		1.6	2.2	0.48				<1	<1		<0.5	
MW-D	Oct-90		<0.01	<0.01	<0.01	ND	ND	ND			ND	ND	ND
MW-D	Oct-90	Duplicate	<0.01	<0.01	<0.01								
MW-D	Oct-91		<0.05	<0.05	<0.05	ND	ND	ND			ND	ND	ND
MW-D	Apr-93		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Sep-93		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Apr-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Oct-95		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Feb-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	May-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Sep-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Dec-96		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Mar-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Oct-97		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Mar-98		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Mar-99		ND	ND	ND	ND	ND	ND			ND	ND	ND
MW-D	Apr-00		<0.05	<0.05	<0.05	<1	<1	<2	<0.05	<0.05		<0.1	<5
MW-D	Apr-00	Replicate	<0.04	<0.05	<0.05	<0.9	<1.1	<1.1	<0.1	<0.1		<0.05	<5
MW-D	Apr-01					<0.9	<1.1	<1.1					<5

Appendix D. Practical Quantification Limits Calculation

Appendix D – Practical Quantification Limits Calculation

In measuring low concentrations of groundwater constituents, there is some probability of a sample being mis-quantified and reported as a positive above the detection limit. This error is termed a Type I error or a false positive. Analytical results have been evaluated and the numerical value representative of an actual detection with 95% confidence has been empirically calculated based on site monitoring data (Table D-1).

The calculation is as follows:

$$PQL = \mu + h\frac{\sigma}{\sqrt{n}}$$

where μ is the mean of the analytical difference between duplicate/replicate results, σ is the standard deviation, n is the number of duplicate replicate pairs, and h is determined based on the number of pairs and confidence limit from Gilbert (1987).

The following table shows the values used in the calculation based on the differences between duplicate/replicate analytical results:

Constituent	Mean (µg/l)	Standard Deviation (µg/l)	h-Statistic	95% UCL of the PQL (µg/l)
α-BHC	0.1	0.40	2.042	0.25
β-BHC	0.1	0.35	2.048	0.24
γ-BHC	0.2	0.39	2.179	0.44
δ-BHC	0.1	0.24	2.069	0.21

Reference

Gilbert, R. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold, New York.

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-A	Duplicate	10/18/90	a-BHC	BDL	0.01	<	Pace
MW-A		10/18/90	a-BHC	BDL	0.01	<	Pace
MW-D	Duplicate	10/18/90	a-BHC	BDL	0.01	<	Pace
MW-D		10/18/90	a-BHC	BDL	0.01	<	Pace
MW-H	Duplicate	10/19/90	a-BHC	2.8			Pace
MW-H		10/19/90	a-BHC	2.4			Pace
MW-E	Duplicate	10/2/91	a-BHC	BDL	0.5	<	Pace
MW-E		10/2/91	a-BHC	BDL	0.5	<	Pace
MW-10D	Duplicate	9/1/93	a-BHC	1.2			Pace
MW-10D		9/1/93	a-BHC	1			Pace
MW-3S	Duplicate	9/1/93	a-BHC	1.1			Pace
MW-3S		9/1/93	a-BHC	0.81			Pace
MW-3S	Duplicate	4/1/95	a-BHC	0.63			Pace
MW-3S		4/1/95	a-BHC	0.58			Pace
MW-9D	Duplicate	4/1/95	a-BHC	0.24			Pace
MW-9D		4/1/95	a-BHC	0.21			Pace
MW-P	Duplicate	4/1/95	a-BHC	2.8			Pace
MW-P		4/1/95	a-BHC	3			Pace
MW-P	Duplicate	10/1/95	a-BHC	2.3			Pace
MW-P		10/1/95	a-BHC	2.3			Pace
MW-10S	Duplicate	2/1/96	a-BHC	5			Pace
MW-10S		2/1/96	a-BHC	4			Pace
MW-3S	Duplicate	5/1/96	a-BHC	0.5			Pace
MW-3S		5/1/96	a-BHC	0.47			Pace
MW-8D	Duplicate	5/1/96	a-BHC	0.06			Pace
MW-8D		5/1/96	a-BHC	0.08			Pace
MW-P	Duplicate	5/1/96	a-BHC	5.6			Pace
MW-P		5/1/96	a-BHC	4.1			Pace
MW-P	Duplicate	9/1/96	a-BHC	1.1			Pace
MW-P		9/1/96	a-BHC	2.3			Pace
MW-9D	Duplicate	12/1/96	a-BHC	0.68			Pace
MW-9D		12/1/96	a-BHC	0.63			Pace
MW-3D	Duplicate	3/1/97	a-BHC	BDL	0.05	<	Core
MW-3D		3/1/97	a-BHC	BDL	0.05	<	Core
MW-9D	Duplicate	3/1/97	a-BHC	BDL	0.5	<	Core
MW-9D		3/1/97	a-BHC	BDL	0.5	<	Core
MW-3S	Duplicate	10/1/97	a-BHC	0.4			Progress
MW-3S		10/1/97	a-BHC	0.8			Progress
MW-10S	Duplicate	3/1/98	a-BHC	1.9			Progress
MW-10S		3/1/98	a-BHC	2.2			Progress
MW-3D	Duplicate	3/1/98	a-BHC	0.082			Progress
MW-3D		3/1/98	a-BHC	0.07			Progress
MW-4S		3/1/98	a-BHC	BDL	0.5	<	Progress
MW-4S	Duplicate	3/1/98	a-BHC				Progress
MW-17	Duplicate	10/1/98	a-BHC	8.5			Progress
MW-17		10/1/98	a-BHC	7.5			Progress
MW-2D	Duplicate	10/1/98	a-BHC	0.11			Progress

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-2D		10/1/98	a-BHC	0.14			Progress
MW-16D	Duplicate	3/1/99	a-BHC	1.6			STL
MW-16D		3/1/99	a-BHC	1.9			STL
MW-1D	Duplicate	3/1/99	a-BHC	0.81			STL
MW-1D		3/1/99	a-BHC	0.93			STL
MW-5D	Duplicate	3/1/99	a-BHC	BDL	0.3	<	STL
MW-5D		3/1/99	a-BHC	BDL	0.3	<	STL
MW-1D	Duplicate	11/1/99	a-BHC	0.9			STL
MW-1D	Replicate	11/1/99	a-BHC	0.66			SUN
MW-1D		11/1/99	a-BHC	0.74			STL
MW-4S	Duplicate	11/1/99	a-BHC	4.5			STL
MW-4S	Replicate	11/1/99	a-BHC	4.3			SUN
MW-4S		11/1/99	a-BHC	3			STL
MW-5D	Duplicate	11/1/99	a-BHC	BDL	0.05	<	STL
MW-5D	Replicate	11/1/99	a-BHC	BDL	0.04	<	SUN
MW-5D		11/1/99	a-BHC	BDL	0.05	<	STL
MW-17	Duplicate	4/5/00	a-BHC	5.9			STL
MW-17		4/5/00	a-BHC	5.9			STL
MW-1D	Duplicate	4/6/00	a-BHC	1.2			STL
MW-1D		4/6/00	a-BHC	0.95			STL
MW-4D	Duplicate	4/6/00	a-BHC	3.6			STL
MW-4D	Replicate	4/6/00	a-BHC	3.9			SUN
MW-4D		4/6/00	a-BHC	3.3			STL
MW-A	Duplicate	10/18/90	b-BHC	BDL	0.01	<	Pace
MW-A		10/18/90	b-BHC	BDL	0.01	<	Pace
MW-D	Duplicate	10/18/90	b-BHC	BDL	0.01	<	Pace
MW-D		10/18/90	b-BHC	BDL	0.01	<	Pace
MW-H	Duplicate	10/19/90	b-BHC	8.2			Pace
MW-H		10/19/90	b-BHC	7.7			Pace
MW-E	Duplicate	10/2/91	b-BHC	BDL	0.5	<	Pace
MW-E		10/2/91	b-BHC	BDL	0.5	<	Pace
MW-10D	Duplicate	9/1/93	b-BHC	6			Pace
MW-10D		9/1/93	b-BHC	6.2			Pace
MW-3S	Duplicate	9/1/93	b-BHC	4			Pace
MW-3S		9/1/93	b-BHC	2.2			Pace
MW-3S	Duplicate	4/1/95	b-BHC	2			Pace
MW-3S		4/1/95	b-BHC	2.2			Pace
MW-9D	Duplicate	4/1/95	b-BHC	0.78			Pace
MW-9D		4/1/95	b-BHC	0.74			Pace
MW-P	Duplicate	4/1/95	b-BHC	24			Pace
MW-P		4/1/95	b-BHC	25			Pace
MW-7S	Duplicate	10/1/95	b-BHC	BDL	0.1	<	Pace
MW-7S		10/1/95	b-BHC	BDL	0.1	<	Pace
MW-P	Duplicate	10/1/95	b-BHC	12			Pace
MW-P		10/1/95	b-BHC	10			Pace
MW-10S	Duplicate	2/1/96	b-BHC	19			Pace
MW-10S		2/1/96	b-BHC	17			Pace

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-7D	Duplicate	2/1/96	b-BHC	BDL	0.05	<	Pace
MW-7D		2/1/96	b-BHC	BDL	0.05	<	Pace
MW-3S	Duplicate	5/1/96	b-BHC	0.94			Pace
MW-3S		5/1/96	b-BHC	0.94			Pace
MW-8D	Duplicate	5/1/96	b-BHC	0.06			Pace
MW-8D		5/1/96	b-BHC	0.06			Pace
MW-P	Duplicate	5/1/96	b-BHC	34			Pace
MW-P		5/1/96	b-BHC	26			Pace
MW-7S	Duplicate	9/1/96	b-BHC	BDL	0.1	<	Pace
MW-7S		9/1/96	b-BHC	BDL	0.1	<	Pace
MW-P	Duplicate	9/1/96	b-BHC	10			Pace
MW-P		9/1/96	b-BHC	12			Pace
MW-7D	Duplicate	12/1/96	b-BHC	BDL	0.05	<	Pace
MW-7D		12/1/96	b-BHC	BDL	0.05	<	Pace
MW-9D	Duplicate	12/1/96	b-BHC	3.9			Pace
MW-9D		12/1/96	b-BHC	3.5			Pace
MW-3D	Duplicate	3/1/97	b-BHC	BDL	0.05	<	Core
MW-3D		3/1/97	b-BHC	BDL	0.05	<	Core
MW-9D	Duplicate	3/1/97	b-BHC	5.3			Core
MW-9D		3/1/97	b-BHC	6.7			Core
MW-3S	Duplicate	10/1/97	b-BHC	0.7			Progress
MW-3S		10/1/97	b-BHC	0.9			Progress
MW-10S	Duplicate	3/1/98	b-BHC	17			Progress
MW-10S		3/1/98	b-BHC	19			Progress
MW-3D	Duplicate	3/1/98	b-BHC	0.092			Progress
MW-3D		3/1/98	b-BHC	0.06			Progress
MW-4S		3/1/98	b-BHC	BDL	0.5	<	Progress
MW-4S	Duplicate	3/1/98	b-BHC				Progress
MW-17	Duplicate	10/1/98	b-BHC	BDL	0.05	<	Progress
MW-17		10/1/98	b-BHC	BDL	0.05	<	Progress
MW-2D	Duplicate	10/1/98	b-BHC	BDL	0.05	<	Progress
MW-2D		10/1/98	b-BHC	BDL	0.05	<	Progress
MW-16D	Duplicate	3/1/99	b-BHC	13			STL
MW-16D		3/1/99	b-BHC	15			STL
MW-1D	Duplicate	3/1/99	b-BHC	1.1			STL
MW-1D		3/1/99	b-BHC	1.1			STL
MW-5D	Duplicate	3/1/99	b-BHC	0.16			STL
MW-5D		3/1/99	b-BHC	0.16			STL
MW-1D	Duplicate	11/1/99	b-BHC	1.1			STL
MW-1D	Replicate	11/1/99	b-BHC	0.45			SUN
MW-1D		11/1/99	b-BHC	1.1			STL
MW-4S	Duplicate	11/1/99	b-BHC	3.1			STL
MW-4S	Replicate	11/1/99	b-BHC	2.1			SUN
MW-4S		11/1/99	b-BHC	2.7			STL
MW-5D	Duplicate	11/1/99	b-BHC	BDL	0.05	<	STL
MW-5D	Replicate	11/1/99	b-BHC	BDL	0.05	<	SUN
MW-5D		11/1/99	b-BHC	BDL	0.05	<	STL

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-17	Duplicate	4/5/00	b-BHC	5			STL
MW-17		4/5/00	b-BHC	4.5			STL
MW-1D	Duplicate	4/6/00	b-BHC	2			STL
MW-1D		4/6/00	b-BHC	1.7			STL
MW-4D	Replicate	4/6/00	b-BHC	BDL	0.05	<	SUN
MW-4D	Duplicate	4/6/00	b-BHC	3.4			STL
MW-4D		4/6/00	b-BHC	2.9			STL
MW-A	Duplicate	10/18/90	d-BHC	BDL	0.01	<	Pace
MW-A		10/18/90	d-BHC	BDL	0.01	<	Pace
MW-D	Duplicate	10/18/90	d-BHC	BDL	0.01	<	Pace
MW-D		10/18/90	d-BHC	BDL	0.01	<	Pace
MW-H	Duplicate	10/19/90	d-BHC	BDL	0.5	<	Pace
MW-H		10/19/90	d-BHC	BDL	0.5	<	Pace
MW-E	Duplicate	10/2/91	d-BHC	BDL	0.5	<	Pace
MW-E		10/2/91	d-BHC	BDL	0.5	<	Pace
MW-10D	Duplicate	9/1/93	d-BHC	12			Pace
MW-10D		9/1/93	d-BHC	12			Pace
MW-3S	Duplicate	9/1/93	d-BHC	0.88			Pace
MW-3S		9/1/93	d-BHC	0.73			Pace
MW-3S	Duplicate	4/1/95	d-BHC	1			Pace
MW-3S		4/1/95	d-BHC	0.89			Pace
MW-9D	Duplicate	4/1/95	d-BHC	0.33			Pace
MW-9D		4/1/95	d-BHC	0.34			Pace
MW-P	Duplicate	4/1/95	d-BHC	12			Pace
MW-P		4/1/95	d-BHC	13			Pace
MW-P	Duplicate	10/1/95	d-BHC	4.9			Pace
MW-P		10/1/95	d-BHC	4.3			Pace
MW-10S	Duplicate	2/1/96	d-BHC	10			Pace
MW-10S		2/1/96	d-BHC	9			Pace
MW-3S	Duplicate	5/1/96	d-BHC	0.71			Pace
MW-3S		5/1/96	d-BHC	0.67			Pace
MW-8D	Duplicate	5/1/96	d-BHC	BDL	0.05	<	Pace
MW-8D		5/1/96	d-BHC	BDL	0.05	<	Pace
MW-P	Duplicate	5/1/96	d-BHC	12			Pace
MW-P		5/1/96	d-BHC	8.4			Pace
MW-P	Duplicate	9/1/96	d-BHC	2.7			Pace
MW-P		9/1/96	d-BHC	4.2			Pace
MW-9D	Duplicate	12/1/96	d-BHC	0.81			Pace
MW-9D		12/1/96	d-BHC	0.77			Pace
MW-3D	Duplicate	3/1/97	d-BHC	BDL	0.05	<	Core
MW-3D		3/1/97	d-BHC	BDL	0.05	<	Core
MW-9D	Duplicate	3/1/97	d-BHC	BDL	0.5	<	Core
MW-9D		3/1/97	d-BHC	BDL	0.5	<	Core
MW-3S	Duplicate	10/1/97	d-BHC	0.6			Progress
MW-3S		10/1/97	d-BHC	0.6			Progress
MW-10S	Duplicate	3/1/98	d-BHC	6.5			Progress
MW-10S		3/1/98	d-BHC	6.6			Progress

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-3D	Duplicate	3/1/98	d-BHC	BDL	0.05	<	Progress
MW-3D		3/1/98	d-BHC	BDL	0.05	<	Progress
MW-4S		3/1/98	d-BHC	BDL	0.5	<	Progress
MW-4S	Duplicate	3/1/98	d-BHC				Progress
MW-17	Duplicate	10/1/98	d-BHC	16			Progress
MW-17		10/1/98	d-BHC	14			Progress
MW-2D	Duplicate	10/1/98	d-BHC	0.078			Progress
MW-2D		10/1/98	d-BHC	0.12			Progress
MW-16D	Duplicate	3/1/99	d-BHC	5.7			STL
MW-16D		3/1/99	d-BHC	6.5			STL
MW-1D	Duplicate	3/1/99	d-BHC	1.6			STL
MW-1D		3/1/99	d-BHC	1.8			STL
MW-5D	Duplicate	3/1/99	d-BHC	0.19			STL
MW-5D		3/1/99	d-BHC	0.23			STL
MW-1D	Duplicate	11/1/99	d-BHC	1.3			STL
MW-1D	Replicate	11/1/99	d-BHC	0.86			SUN
MW-1D		11/1/99	d-BHC	1.2			STL
MW-4S	Duplicate	11/1/99	d-BHC	8.1			STL
MW-4S	Replicate	11/1/99	d-BHC	6.7			SUN
MW-4S		11/1/99	d-BHC	5.4			STL
MW-5D	Duplicate	11/1/99	d-BHC	BDL	0.05	<	STL
MW-5D	Replicate	11/1/99	d-BHC	BDL	0.03	<	SUN
MW-5D		11/1/99	d-BHC	BDL	0.05	<	STL
MW-17	Duplicate	4/5/00	d-BHC	10			STL
MW-17		4/5/00	d-BHC	9.7			STL
MW-1D	Duplicate	4/6/00	d-BHC	1.2			STL
MW-1D		4/6/00	d-BHC	1.2			STL
MW-4D	Duplicate	4/6/00	d-BHC	1.5			STL
MW-4D	Replicate	4/6/00	d-BHC	6.6			SUN
MW-4D		4/6/00	d-BHC	7.5			STL
MW-A	Duplicate	10/18/90	g-BHC	BDL	0.01	<	Pace
MW-A		10/18/90	g-BHC	BDL	0.01	<	Pace
MW-D	Duplicate	10/18/90	g-BHC	BDL	0.01	<	Pace
MW-D		10/18/90	g-BHC	BDL	0.01	<	Pace
MW-H	Duplicate	10/19/90	g-BHC	1.7			Pace
MW-H		10/19/90	g-BHC	1.7			Pace
MW-E	Duplicate	10/2/91	g-BHC	BDL	0.5	<	Pace
MW-E		10/2/91	g-BHC	BDL	0.5	<	Pace
MW-10D	Duplicate	9/1/93	g-BHC	1.1			Pace
MW-10D		9/1/93	g-BHC	1			Pace
MW-3S	Duplicate	9/1/93	g-BHC	BDL	0.05	<	Pace
MW-3S		9/1/93	g-BHC	BDL	0.05	<	Pace
MW-3S	Duplicate	4/1/95	g-BHC	BDL	0.25	<	Pace
MW-3S		4/1/95	g-BHC	BDL	0.25	<	Pace
MW-9D	Duplicate	4/1/95	g-BHC	BDL	0.05	<	Pace
MW-9D		4/1/95	g-BHC	BDL	0.05	<	Pace
MW-P	Duplicate	4/1/95	g-BHC	2.4			Pace

Table D-1. Monitoring data used for PQL calculation, Chevron Orlando, Florida

Well ID	QC	Date	Parameter	Value	Detection Limit	Qualifier	Lab
MW-P		4/1/95	g-BHC	2.4			Pace
MW-P	Duplicate	10/1/95	g-BHC	2.4			Pace
MW-P		10/1/95	g-BHC	2.3			Pace
MW-10S	Duplicate	2/1/96	g-BHC	4.1			Pace
MW-10S		2/1/96	g-BHC	3.4			Pace
MW-3S	Duplicate	5/1/96	g-BHC	BDL	0.05	<	Pace
MW-3S		5/1/96	g-BHC	BDL	0.05	<	Pace
MW-P	Duplicate	5/1/96	g-BHC	5.8			Pace
MW-P		5/1/96	g-BHC	4.1			Pace
MW-P	Duplicate	9/1/96	g-BHC	1.3			Pace
MW-P		9/1/96	g-BHC	2.7			Pace
MW-9D	Duplicate	12/1/96	g-BHC	BDL	0.05	<	Pace
MW-9D		12/1/96	g-BHC	BDL	0.05	<	Pace
MW-9D	Duplicate	3/1/97	g-BHC	BDL	0.5	<	Core
MW-9D		3/1/97	g-BHC	BDL	0.5	<	Core
MW-3S	Duplicate	10/1/97	g-BHC	BDL	0.01	<	Progress
MW-3S		10/1/97	g-BHC	BDL	0.01	<	Progress
MW-10S	Duplicate	3/1/98	g-BHC	1.1			Progress
MW-10S		3/1/98	g-BHC	1.1			Progress
MW-4S		3/1/98	g-BHC	BDL	0.5	<	Progress
MW-4S	Duplicate	3/1/98	g-BHC				Progress
MW-17	Duplicate	10/1/98	g-BHC	4.8			Progress
MW-17		10/1/98	g-BHC	3.8			Progress
MW-16D	Duplicate	3/1/99	g-BHC	1.1			STL
MW-16D		3/1/99	g-BHC	1.2			STL
MW-1D	Duplicate	11/1/99	g-BHC	BDL	0.05	<	STL
MW-1D	Replicate	11/1/99	g-BHC	BDL	0.05	<	SUN
MW-1D		11/1/99	g-BHC	BDL	0.05	<	STL
MW-4S	Replicate	11/1/99	g-BHC	BDL	0.05	<	SUN
MW-4S		11/1/99	g-BHC	BDL	1	<	STL
MW-4S	Duplicate	11/1/99	g-BHC	0.09			STL
MW-5D	Duplicate	11/1/99	g-BHC	BDL	0.05	<	STL
MW-5D	Replicate	11/1/99	g-BHC	BDL	0.05	<	SUN
MW-5D		11/1/99	g-BHC	BDL	0.05	<	STL
MW-17	Duplicate	4/5/00	g-BHC	2.3			STL
MW-17		4/5/00	g-BHC	2.4			STL
MW-1D		4/6/00	g-BHC	BDL	0.05	<	STL
MW-1D	Duplicate	4/6/00	g-BHC	0.13			STL
MW-4D	Duplicate	4/6/00	g-BHC	BDL	0.05	<	STL
MW-4D	Replicate	4/6/00	g-BHC	BDL	0.05	<	SUN
MW-4D		4/6/00	g-BHC	BDL	0.05	<	STL