

GW - 114

**MONITORING
REPORTS**

DATE:

2/99

**QUARTERLY AND ANNUAL REPORT
DOWELL, A DIVISION OF
SCHLUMBERGER TECHNOLOGY CORPORATION
ARTESIA, NEW MEXICO**

February 25, 1999

Prepared For:

Dowell, a division of Schlumberger Technology Corporation
300 Schlumberger Drive
Sugar Land, Texas 77478

Prepared By:



611 Skyline Road
Laramie, Wyoming 82070

701 Antler Drive
Suite 233
Casper, WY 82601

1901 Energy Court
Suite 270
Gillette, WY 82718

1849 Terra Avenue
Sheridan, WY 82801

Western Water Consultants, Inc. has conducted its work and presents these findings in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation and no warranty or guarantee is made or intended.

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SUMMARY OF FIELD WORK	2
2.1 Monitoring Well Installation	2
2.2 Field Screening	3
2.3 Static Water Level	3
2.4 Ground-water Sampling	4
2.5 Land Farm Monitoring	5
3.0 RESULTS AND DISCUSSION	6
4.0 OPERATION AND MAINTENANCE OF SHOP AND WASH BAY SVE SYSTEMS	7
5.0 RECOMMENDATIONS	8

LIST OF FIGURES

Figure

1 – Site Map With Potentiometric Surface	9
2 – Dissolved Oxygen Data	10
3 – Potentiometric Surface and Isoconcentration Map for pH.....	11
4 – Potentiometric Surface and Total BTEX (10/28/98)	12
5 – Potentiometric Surface and Total Halocarbons (10/28/98).....	13
6 – Distribution of Chloroethenes (10/28/98).....	14

LIST OF TABLES

Table

1 – Ground-water Measurements and Elevations, Dowell, Artesia, New Mexico	15
2 – Summary of Laboratory Analytical Results - Ground-water Samples, Dowell, Artesia, New Mexico	24
3 – Field Parameters at the Dowell, a division of Schlumberger Technology Corporation Facility, Artesia, New Mexico	36
4 – Operational Conditions, Maintenance Shop SVE System, Dowell Artesia, New Mexico	38
5 – Operational Conditions, Wash Bay SVE System, Dowell, Artesia, New Mexico	39
6 – PID Readings – Volatile Organic Compounds, Maintenance Shop SVE System, Dowell Artesia, New Mexico	41
7 – PID Readings – Volatile Organic Compounds, Wash Bay SVE System, Dowell, Artesia, New Mexico	42
8 – Summary of Laboratory Analytical - SVE Soil Vapor Samples, Maintenance Shop and Wash Bay SVE Systems, Dowell, Artesia, New Mexico	45

TABLE OF CONTENTS continued

LIST OF APPENDICES

Appendix

- A – Lithologic Logs and Well Completion Diagrams
- B – Laboratory Data Sheets
- C – Bills of Lading and Scale Reports
- D – Plots of Total Halocarbons Versus Static Water Levels

1.0 INTRODUCTION

1.0 INTRODUCTION

This report documents investigation and remedial activities at the Dowell, a division of Schlumberger Technology Corporation facility in Artesia, New Mexico in 1998 (Figures 1.). Included in the report are ground-water and air quality monitoring data for 1998, soil vapor extraction (SVE) system operation and maintenance (O & M) activities, land farm monitoring and closure activities, and additional investigation fieldwork performed. In October of 1998 Dowell purchased an additional tract of property shown in bold lettering in Figure 1. The tract is north of monitoring wells MW-23, MW-25, and MW-26 and was the site of additional monitoring well installation (MW-28, MW-29, and MW-30) discussed below.

2.0 SUMMARY OF FIELD WORK

2.0 SUMMARY OF FIELDWORK

Field work conducted by Western Water Consultants, Inc. (WWC) during the four quarters of 1998 consisted of ground-water monitoring, operation and maintenance of the SVE systems, installation of three new ground-water monitoring wells, and land farm monitoring and its subsequent closure. The analytical data for the first three quarters of 1998 were presented to the New Mexico Oil and Conservation Division (NMOCD) in reports dated March 6, 1998, May 5, 1998, and September 21, 1998.

2.1 Monitoring Well Installation

From April 14-15, 1998, three 2-inch diameter ground-water monitoring wells (MW-28, MW-29, and MW-30) were installed at the facility. Authorization was granted by the NMOCD in a letter to Dowell dated June 20, 1998. The monitoring wells were located north and northeast of existing perimeter wells (MW-25, MW-26, and MW-27) to evaluate the downgradient extent of hydrocarbon contamination (Figure 1).

An air rotary drill rig with a 5 1/8-inch diameter drag bit was used to drill the monitoring wells to a total depth of 25 feet below ground surface. To eliminate the potential for cross-contamination between wells, drilling equipment was decontaminated prior to beginning each well borehole.

Drill cuttings were logged by a WWC geologist for sediment type, grain size, color, structure, moisture, and hydrocarbon contamination. The lithology consisted of a calcareous reddish brown silty clay with thin bands of carbonate clasts near the ground-water interface consistent with other areas of the property. Lithologic and well completion logs are presented as Appendix A.

The monitoring wells were developed by purging a minimum of 10 well volumes of water from each well using a Redi-flow submersible pump. Purge water was disposed in a stock tank on site to evaporate. The top of casing elevations for the monitoring wells were surveyed relative to a temporary benchmark at the northeast corner of the shop facility (Figure 1). This is the same benchmark used to establish elevation during earlier surveys of the site wells. The temporary benchmark is given the arbitrary elevation of 100.00 feet.

2.2 Field Screening

Cuttings were screened visually and with an Environmental Instruments 580D photoionization detector (PID) for the presence of volatile organic compounds while logging the cuttings. Evidence of hydrocarbon contamination was not observed in cuttings or detected with the PID during the drilling process.

2.3 Static Water Level

Static water levels were measured in all monitoring wells with an oil/water interface probe except MW-1 which could not be located under the gravel yard. Static water level measurements collected in 1998 are presented in Table 1 along with historic data for comparison. A map of the potentiometric surface generated from the 4th quarter static water level data is presented on Figure 1. The ground-water flow direction is to the northeast, consistent with earlier determinations of ground-water flow.

In addition to static water level measurements, dissolved oxygen (D.O.) was measured in all monitoring wells with a Yellow Springs dissolved oxygen meter during the fourth quarter sampling of 1998. The measurements were used to construct an isoconcentration map and is presented as Figure 2.

2.4 Ground-water Sampling

Ground-water samples were collected from all monitoring wells except MW-1 during quarterly monitoring events in 1998. Three well volumes of ground-water were purged from each well using dedicated polyethylene bailers prior to sampling. Purge water was placed into two galvanized steel stock tanks located near the wash bay and allowed to evaporate.

Ground-water samples were analyzed for volatile organic compounds by EPA Method 8260. During the fourth quarter monitoring event, duplicate samples were collected from MW-2, MW-8 and MW-26. Analytical results along with historical data are presented in Table 2. Laboratory analytical reports for the fourth quarter are presented in Appendix B. Laboratory analytical reports for the other sampling events have been provided in previous reports.

Field parameters were also collected from each monitoring well for pH, conductivity, temperature, and salinity and are presented in Table 3. An isoconcentration map was constructed using the pH data and is provided as Figure 3.

2.5 Land Farm Monitoring

The land farm at the Artesia facility was constructed in the fall of 1996 to treat impacted soil excavated at the site (Figure 1). The soil was being treated in two 6-inch lifts. Authorization to remove the upper six inches of treated soil and stockpile it was granted in a letter dated November 24, 1997 when the total petroleum hydrocarbon (TPH) concentrations decreased below 100 parts per million (ppm) in each quadrant. The upper lift of soil was removed and stockpiled March 14, 1998. Treatment of the underlying six inches of soil consisted of tilling to aerate the soil. A composite sample was collected from each quadrant of the land farm and submitted for analysis by modified 8015 for TPH as done on the previous lift. TPH concentrations reached levels below 100 ppm in August, 1998. Laboratory data sheets for the soil samples are provided in Appendix B. Authorization to close the land farm was granted in a letter dated September 15, 1998.

Closure of the land farm was performed November 30 – December 4, 1998. The treated soil was removed so the liner could be loaded into roll-offs for proper disposal. The roll-offs were then taken by truck to the ECDC Environmental, L.C. disposal facility at East Carbon City, UT. Bills of Lading and scale reports are presented as Appendix C. The treated soil was spread over the former land farm area and leveled.

3.0 RESULTS AND DISCUSSION

3.0 RESULTS AND DISCUSSION

Interpretation of the water quality data in Table 2 indicates that contaminant levels are declining in a majority of the monitoring wells since ground-water sampling began. Levels of BTEX have declined or are no longer detected in monitoring wells MW-2, 3, 4, 5, 9, and 11. An isoconcentration map for total BTEX (Figure 4) shows that BTEX remains concentrated in the area of MW-3 and MW-12 and does not appear to be migrating down gradient.

Declines in halocarbons can also be observed in monitoring wells MW-2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 17A, and 17D. These declines are more evident on the plots of total halocarbons versus static water levels presented in Appendix D. An isoconcentration for total halocarbons (Figure 5) indicates the highest concentrations remain in the area of MW-7 and MW-11 which is consistent with previous reports.

Isoconcentration maps for D.O. and pH (Figures 2 and 3) were constructed with data collected during the fourth quarter monitoring event for 1998. As shown on these figures, an area of depressed D.O. and pH remain localized around MW-3 to MW-11 consistent with previous maps constructed for these parameters. The anaerobic conditions in this area are conducive to the natural attenuation of halocarbons by reductive dehalogenation. The low pH conditions in the area of MW-12 and MW-11 indicate that chlorinated halocarbons are being biodegraded in the ground-water and lowering the pH which is normally around 7.2.

Further evidence of natural attenuation can be seen on Figure 6 which shows the percentage of chloroethenes (PCE, TCE and 1, 1-DCE) in the ground-water at each monitoring well. PCE is present as the higher percentage of chloroethenes on site but downgradient the percentage of PCE decreases while TCE and 1,1-DCE increase due to natural attenuation. With the present conditions (low D.O.) in the ground-water natural attenuation will continue to occur.

4.0 OPERATION AND MAINTENANCE OF SHOP AND WASH BAY SVE SYSTEMS

4.0 OPERATION AND MAINTENANCE OF SHOP AND WASH BAY SVE SYSTEMS

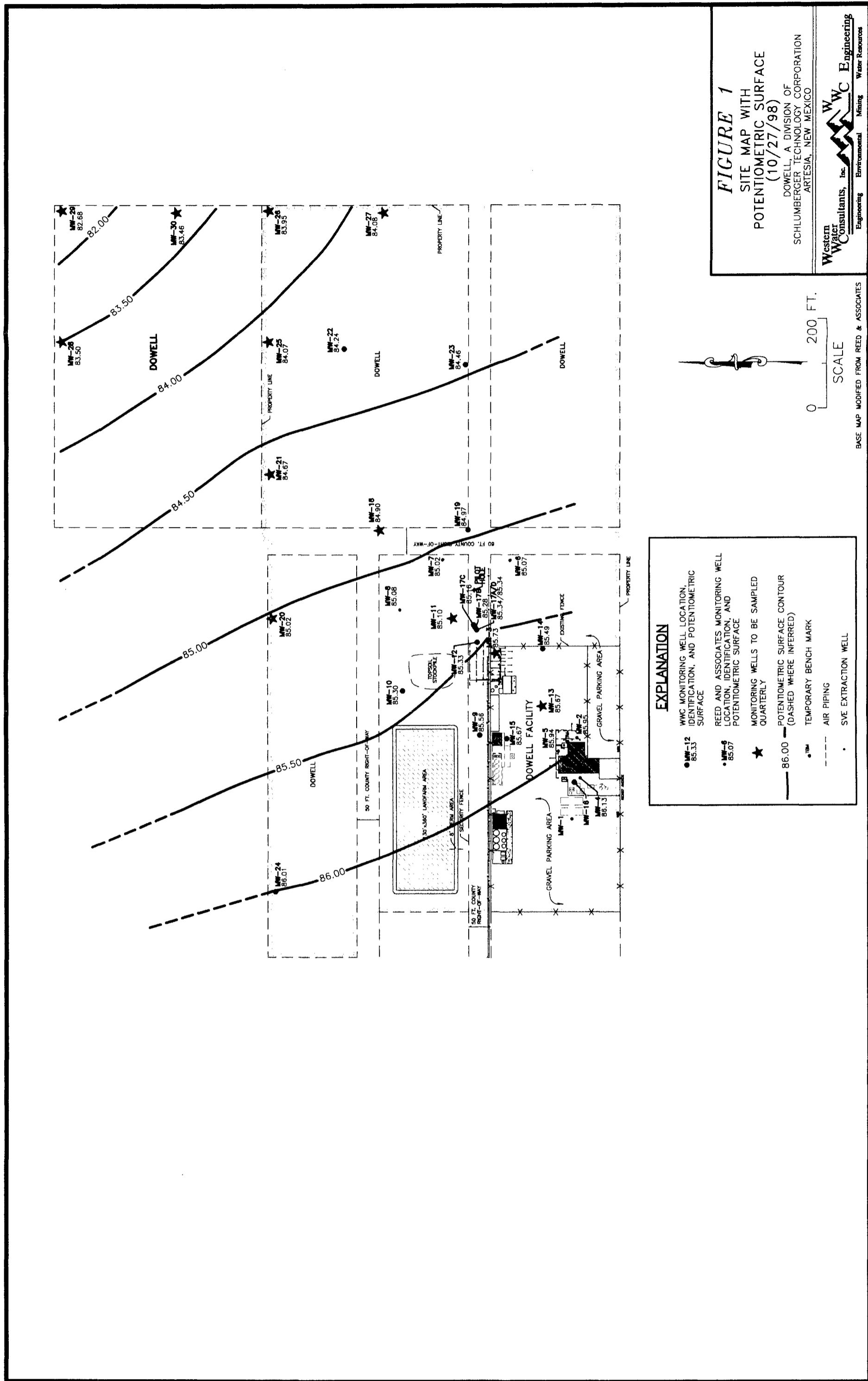
The wash bay and maintenance shop SVE systems operated almost continuously in 1998 except for minor shutdowns for maintenance. The systems are checked quarterly to monitor vacuum readings and volatile organic vapors in the extracted soil vapor and exhaust. Vacuum readings are presented in Tables 4 (maintenance shop) and 5 (wash bay). Soil vapor monitoring was performed with a PID, results are presented in Tables 6 (maintenance shop) and 7 (wash bay). Air samples are collected quarterly in one liter tedlar bags and submitted to a laboratory for analysis by EPA Method 8260. Laboratory results are not available for the second quarter due to a defect in the tedlar bag. Analytical data for the air samples are presented in Table 8. Laboratory data sheets for the fourth quarter air samples are presented in Appendix B.

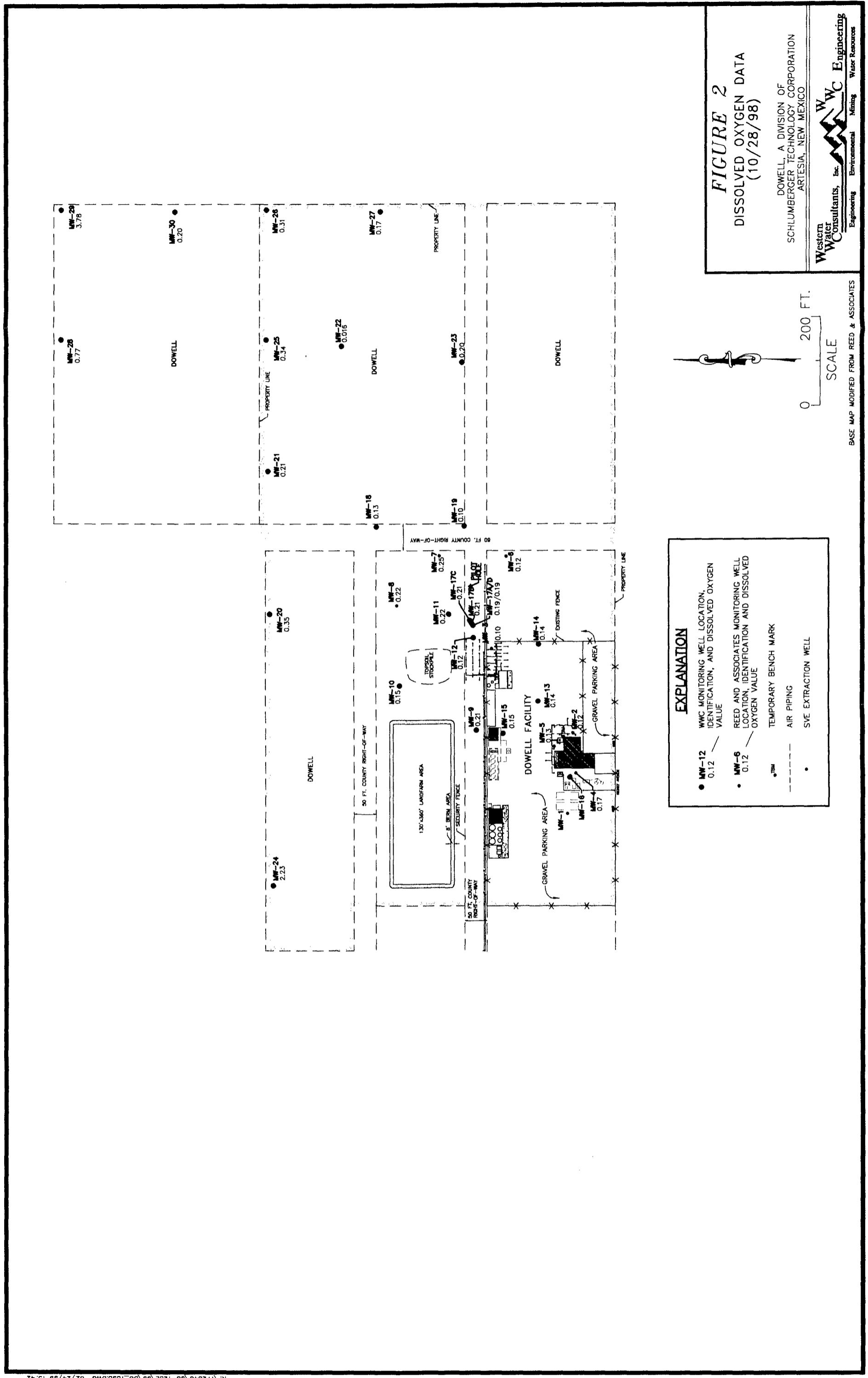
5.0 RECOMMENDATIONS

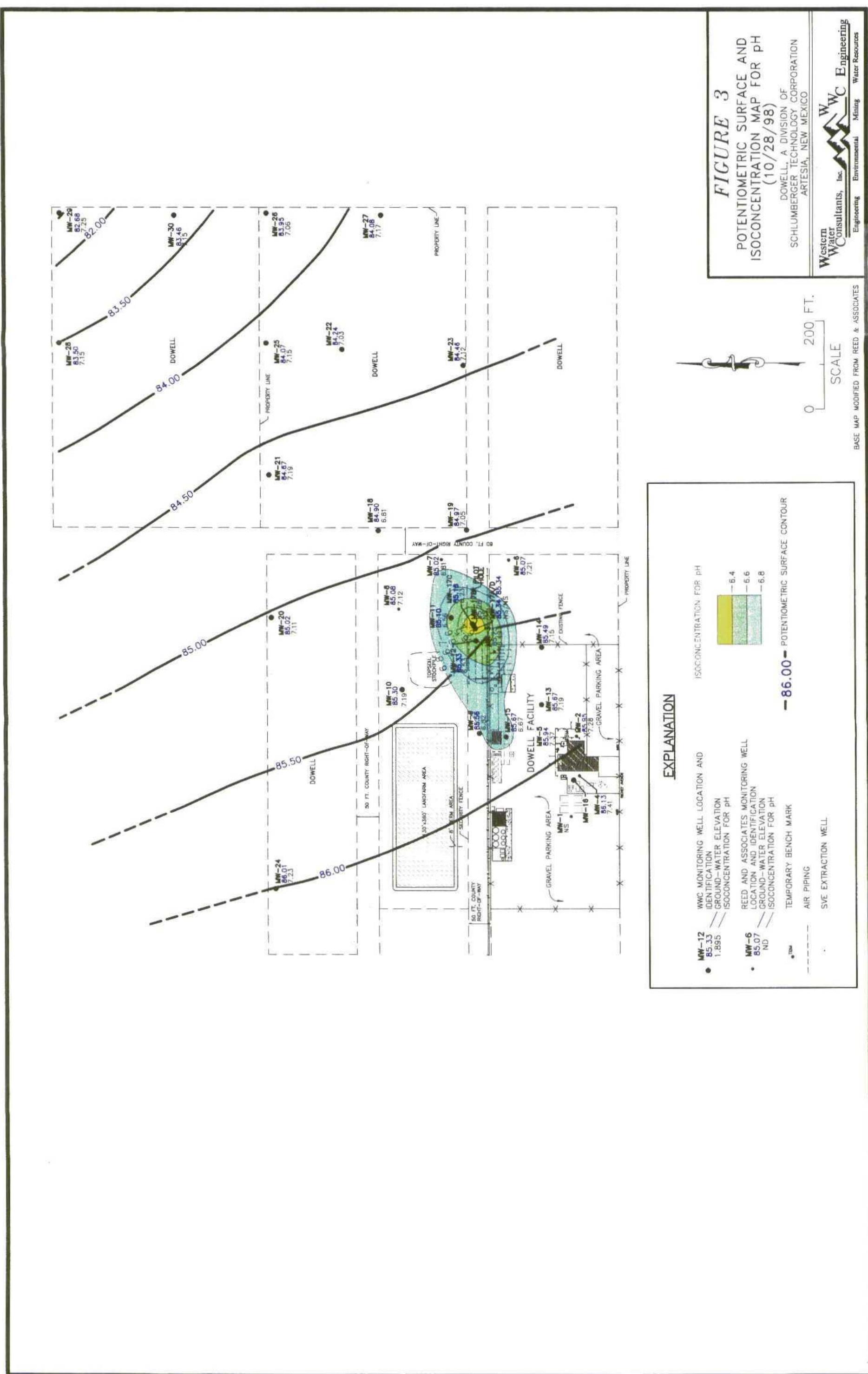
5.0 RECOMMENDATIONS

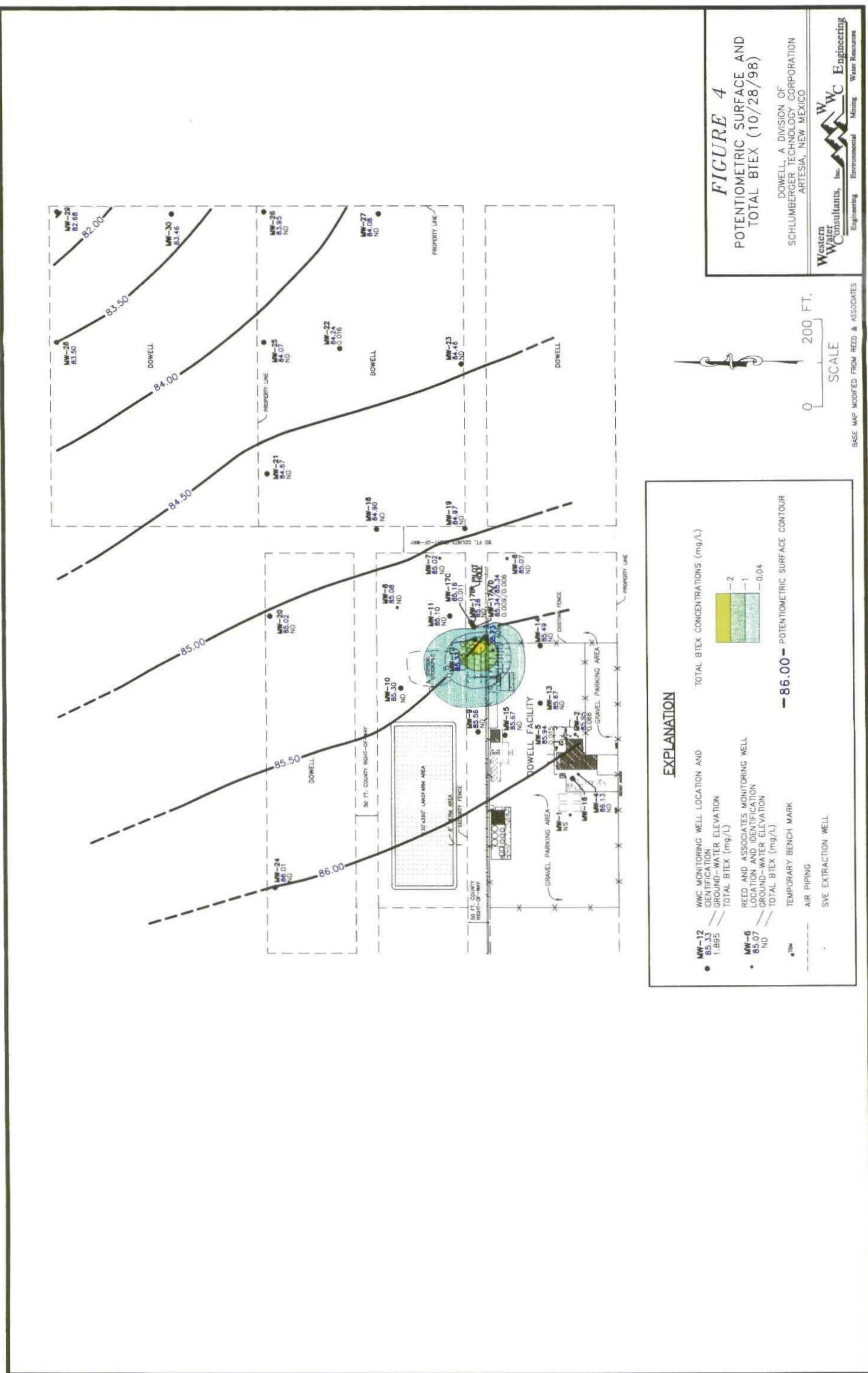
With the addition of three new monitoring wells (MW-28, MW-29, and MW-30) in 1998, Dowell feels the extent of the ground-water plume has been adequately defined. Only two monitoring wells (MW-26 and MW-30) contain any hydrocarbons in the ground-water and the concentrations are very low. Dowell is proposing that monitoring continue on a quarterly basis as conducted in 1998. Monitoring wells MW-3, MW-11, MW-13, MW-18, MW-20, MW-21, and MW-25 to MW-30 would be sampled quarterly for volatile organics by EPA Method 8260 (Figure 1). All monitoring wells would be sampled during the fourth quarter monitoring event and static water levels would be measured every quarter.

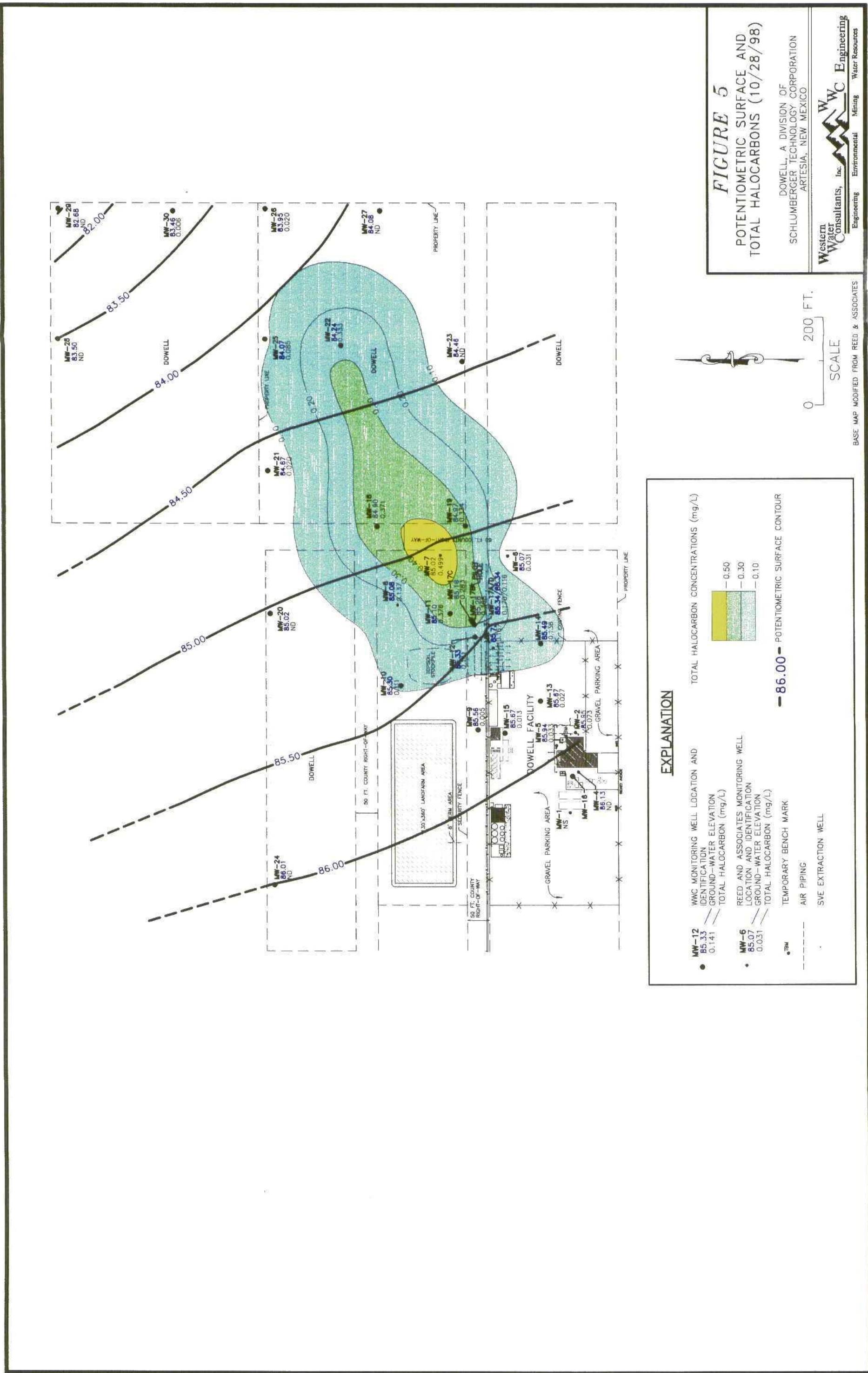
FIGURES











TABLES

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-1	01/23/91	30.00	Protective Casing	100.56	17.41	83.15	
	09/13/91				16.04	84.52	1.37
	11/22/91				14.50	86.06	1.54
	03/16/93				13.72	86.84	0.78
	01/09/94				14.62	85.94	-0.90
	04/19/94				14.48	86.08	0.14
	07/20/94				14.38	86.18	0.10
	10/24/94				14.73	85.83	-0.35
	01/24/95				14.20	86.36	0.53
	04/02/95				14.37	86.19	-0.17
	07/31/95				14.76	85.80	-0.39
	10/16/95				14.64	85.92	0.12
	01/10/96				14.59	85.97	0.05
	04/09/96				14.77	85.79	-0.18
	07/20/96				15.84	84.72	-1.07
	10/21/96				14.07	86.49	1.77
	01/21/97				13.24	87.32	0.83
	04/08/97				12.97	87.59	0.27
	07/29/97				13.87	86.69	-0.90
	10/16/97				12.26	88.30	1.61
MW-2	01/23/91	30.00	Protective Casing	99.56	16.95	82.61	
	09/13/91				15.01	84.55	1.94
	11/22/91				13.76	85.80	1.25
	03/16/93				13.16	86.40	0.60
	01/09/94				13.91	85.65	-0.75
	04/19/94				13.80	85.76	0.11
	07/20/94				13.65	85.91	0.15
	10/24/94				13.88	85.68	-0.23
	01/24/95				13.41	86.15	0.47
	04/02/95				13.67	85.89	-0.26
	07/31/95				13.81	85.75	-0.14
	10/16/95				13.78	85.78	0.03
	01/10/96				13.80	85.76	-0.02
	04/09/96				13.98	85.58	-0.18
	07/20/96				14.92	84.64	-0.94
	10/21/96				13.15	86.41	1.77
	01/21/97				12.41	87.15	0.74
	04/08/97				12.21	87.35	0.20
	07/29/97				13.15	86.41	-0.94
	10/16/97				11.63	87.93	1.52
MW-3	01/06/98	30.00	Protective Casing	98.33	17.28	81.05	
	04/14/98				14.66	83.67	2.62
	07/17/98				13.63	84.70	1.03
	10/27/98				12.89	85.44	0.74
	01/09/94				13.66	84.67	-0.77
	04/19/94				NM	NM	NM
	07/20/94				13.18	85.15	na
	10/24/94				13.27	85.06	-0.09
	01/24/95				13.23	85.10	0.04
	04/02/95				13.60	84.73	-0.37
	07/31/95				13.34	84.99	0.26
	10/16/95				13.38	84.95	-0.04
	01/10/96				13.85	84.48	-0.47
	04/09/96				13.91	84.42	-0.06
	07/20/96				14.55	83.78	-0.64
	10/21/96				12.90	85.43	1.65
	01/21/97				12.42	85.91	0.48
	04/08/97				12.43	85.90	-0.01
	07/29/97				13.18	85.15	-0.75
	10/16/97				11.83	86.50	1.35
	01/06/98				11.45	86.88	0.38

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-3 Cont.	04/14/98				11.44	86.89	0.01
	07/17/98				12.81	85.52	-1.37
	10/27/98				12.60	85.73	0.21
MW-4	01/23/91	50.00	Protective Casing	103.18	20.17	83.01	
	09/13/91				18.54	84.64	1.63
	11/22/91				17.15	86.03	1.39
	03/16/93				16.49	86.69	0.66
	01/09/94				17.28	85.90	-0.79
	04/19/94				17.15	86.03	0.13
	07/20/94				16.99	86.19	0.16
	10/24/94				17.25	85.93	-0.26
	01/24/95				16.78	86.40	0.47
	04/02/95				16.98	86.20	-0.20
	07/31/95				17.26	85.92	-0.28
	10/16/95				17.01	86.17	0.25
	01/10/96				16.95	86.23	0.06
	04/09/96				17.15	86.03	-0.20
	07/20/96				18.08	85.10	-0.93
	10/21/96				16.28	86.90	1.80
	01/21/97				15.37	87.81	0.91
	04/08/97				15.14	88.04	0.23
	07/29/97				16.05	87.13	-0.91
	10/16/97				14.44	88.74	1.61
	01/06/98				13.59	89.59	0.85
	04/14/98				13.91	89.27	-0.32
	07/17/98				16.40	86.78	-2.49
	10/27/98				17.05	86.13	-0.65
MW-5	01/23/91	30.00	Protective Casing	99.87	17.20	82.67	
	09/13/91				15.52	84.35	1.68
	11/22/91				14.19	85.68	1.33
	03/16/93				13.47	86.40	0.72
	01/09/94				14.31	85.56	-0.84
	04/19/94				14.17	85.70	0.14
	07/20/94				13.97	85.90	0.20
	10/24/94				14.21	85.66	-0.24
	01/24/95				13.78	86.09	0.43
	04/02/95				14.05	85.82	-0.27
	07/31/95				14.17	85.70	-0.12
	10/16/95				14.07	85.80	0.10
	01/10/96				14.11	85.76	-0.04
	04/09/96				14.31	85.56	-0.20
	07/20/96				15.20	84.67	-0.89
	10/21/96				13.44	86.43	1.76
	01/21/97				12.69	87.18	0.75
	04/08/97				12.52	87.35	0.17
	07/29/97				13.37	86.50	-0.85
	10/16/97				11.82	88.05	1.55
	01/06/98				11.09	88.78	0.73
	04/14/98				12.30	87.57	-1.21
	07/17/98				13.32	86.55	-1.02
	10/27/98				13.93	85.94	-0.61
MW-6	01/23/91	35.00	Protective Casing	100.84	19.59	81.25	
	09/13/91				17.43	83.41	2.16
	11/21/91				16.30	84.54	1.13
	03/16/93				15.57	85.27	0.73
	01/09/94				16.42	84.42	-0.85
	04/19/94				16.29	84.55	0.13
	07/19/94				15.79	85.05	0.50
	10/24/94				15.83	85.01	-0.04
	01/24/95				15.94	84.90	-0.11
	04/02/95				16.38	84.46	-0.44
	07/31/95				15.88	84.96	0.50
	10/16/95				16.01	84.83	-0.13
	01/10/96				16.52	84.32	-0.51

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-6 Cont.	04/09/96				16.70	84.14	-0.18
	07/21/96				17.26	83.58	-0.56
	10/21/96				15.62	85.22	1.64
	01/21/97				15.21	85.63	0.41
	04/08/97				15.30	85.54	-0.09
	07/29/97				16.01	84.83	-0.71
	10/16/97				15.01	85.83	1.00
	01/06/98				14.69	86.15	0.32
	04/14/98				14.45	86.39	0.24
	07/17/98				15.62	85.22	-1.17
	10/27/98				15.77	85.07	-0.15
MW-7	01/23/91	35.00	Protective Casing	100.23	19.01	81.22	
	09/13/91				17.43	82.80	1.58
	11/21/91				16.00	84.23	1.43
	03/16/93				14.91	85.32	1.09
	01/09/94				15.99	84.24	-1.08
	04/19/94				15.83	84.40	0.16
	07/19/94				15.24	84.99	0.59
	10/24/94				15.32	84.91	-0.08
	01/24/95				15.54	84.69	-0.22
	04/02/95				16.00	84.23	-0.46
	07/31/95				15.57	84.66	0.43
	10/16/95				15.61	84.62	-0.04
	01/10/96				16.13	84.10	-0.52
	04/09/96				16.30	83.93	-0.17
	07/21/96				16.81	83.42	-0.51
	10/21/96				15.15	85.08	1.66
	01/21/97				14.81	85.42	0.34
	04/08/97				14.91	85.32	-0.10
	07/29/97				15.48	84.75	-0.57
	10/16/97				14.52	85.71	0.96
	01/06/98				13.27	86.96	1.25
	04/14/98				14.02	86.21	-0.75
	07/17/98				15.10	85.13	-1.08
	10/27/98				15.21	85.02	-0.11
MW-8	01/23/91	35.00	Protective Casing	101.47	20.16	81.31	
	09/13/91				18.80	82.67	1.36
	11/21/91				17.29	84.18	1.51
	03/16/93				16.03	85.44	1.26
	01/09/94				17.23	84.24	-1.20
	04/19/94				17.05	84.42	0.18
	07/19/94				16.50	84.97	0.55
	10/24/94				16.56	84.91	-0.06
	01/24/95				16.79	84.68	-0.23
	04/02/95				17.24	84.23	-0.45
	07/31/95				16.94	84.53	0.30
	10/16/95				16.88	84.59	0.06
	01/10/96				17.38	84.09	-0.50
	04/09/96				17.54	83.93	-0.16
	07/21/96				18.10	83.37	-0.56
	10/21/96				16.40	85.07	1.70
	11/22/96				16.42	85.05	-0.02
	01/21/97				16.05	85.42	0.37
	04/08/97				16.11	85.36	-0.06
	07/29/97				16.69	84.78	-0.58
	10/16/97				15.69	85.78	1.00
	01/06/98				15.38	86.09	0.31
	04/14/98				15.15	86.32	0.23
	07/17/98				16.29	85.18	-1.14
	10/27/98				16.39	85.08	-0.10
MW-9	01/26/91	30.00	Protective Casing	102.18	20.08	82.10	
	09/13/91				18.93	83.25	1.15
	11/21/91				17.35	84.83	1.58
	03/16/93				16.19	85.99	1.16

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (FT)	DEPTH TO GROUND WATER (FT)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-9 Cont.	01/09/94				17.31	84.87	-1.12
	04/19/94				17.33	84.85	-0.02
	07/19/94				16.85	85.33	0.48
	10/24/94				17.05	85.13	-0.20
	01/24/95				16.92	85.26	0.13
	04/02/95				17.23	84.95	-0.31
	07/31/95				17.30	84.88	-0.07
	10/16/95				17.16	85.02	0.14
	01/10/96				17.39	84.79	-0.23
	04/09/96				17.58	84.60	-0.19
	07/21/96				18.38	83.80	-0.80
	10/21/96				16.65	85.53	1.73
	01/21/97				16.12	86.06	0.53
	04/08/97				16.04	86.14	0.08
	07/29/97				16.67	85.51	-0.63
	10/16/97				15.29	86.89	1.38
	01/06/98				14.78	87.40	0.51
	04/14/98				14.89	87.29	-0.11
	07/17/98				16.30	85.88	-1.41
	10/27/98				16.62	85.56	-0.32
MW-10	01/26/91	30.00	Protective Casing	101.34	19.68	81.66	
	09/13/91				18.56	82.78	1.12
	11/21/91				16.96	84.38	1.60
	03/16/93				15.64	85.70	1.32
	01/09/94				16.89	84.45	-1.25
	04/19/94				16.73	84.61	0.16
	07/19/94				16.29	85.05	0.44
	10/24/94				16.39	84.95	-0.10
	01/24/95				16.48	84.86	-0.09
	04/02/95				16.88	84.46	-0.40
	07/31/95				16.82	84.52	0.06
	10/16/95				16.65	84.69	0.17
	01/10/96				17.01	84.33	-0.36
	04/09/96				17.20	84.14	-0.19
	07/21/96				17.85	83.49	-0.65
	10/21/96				16.13	85.21	1.72
	01/21/97				15.73	85.61	0.40
	04/08/97				15.70	85.64	0.03
	07/29/97				16.28	85.06	-0.58
	10/16/97				15.16	86.18	1.12
	01/06/98				14.74	86.60	0.42
	04/14/98				14.65	86.69	0.09
	07/17/98				15.90	85.44	-1.25
	10/27/98				16.04	85.30	-0.14
MW-11	01/26/91	30.00	Protective Casing	100.60	19.27	81.33	
	09/13/91				17.81	82.79	1.46
	11/21/91				16.35	84.25	1.46
	03/16/93				15.20	85.40	1.15
	01/09/94				16.31	84.29	-1.11
	04/19/94				16.17	84.43	0.14
	07/19/94				15.63	84.97	0.54
	10/24/94				15.72	84.88	-0.09
	01/24/95				15.89	84.71	-0.17
	04/02/95				16.33	84.27	-0.44
	07/31/95				16.03	84.57	0.30
	10/16/95				16.00	84.60	0.03
	01/10/96				16.45	84.15	-0.45
	04/09/96				16.62	83.98	-0.17
	07/21/96				17.21	83.39	-0.59
	10/21/96				15.52	85.08	1.69
	01/21/97				15.15	85.45	0.37
	04/08/97				15.19	85.41	-0.04
	07/29/97				15.78	84.82	-0.59
	10/16/97				14.75	85.85	1.03
	01/06/98				14.44	86.16	0.31

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (FT)	DEPTH TO GROUND WATER (FT)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-11 Cont.	04/14/98				14.22	86.38	0.22
	07/17/98				15.41	85.19	-1.19
	10/27/98				15.50	85.10	-0.09
MW-12	01/26/91	34.00	Protective Casing	100.69	19.24	81.45	
	09/13/91				17.59	83.10	1.65
	11/21/91				16.21	84.48	1.38
	03/16/93				15.22	85.47	0.99
	01/09/94				16.25	84.44	-1.03
	04/19/94				16.13	84.56	0.12
	07/19/94				15.63	85.06	0.50
	10/24/94				15.73	84.96	-0.10
	01/24/95				15.80	84.89	-0.07
	04/02/95				16.23	84.46	-0.43
	07/31/95				15.96	84.73	0.27
	10/16/95				15.93	84.76	0.03
	01/10/96				16.35	84.34	-0.42
	04/09/96				16.52	84.17	-0.17
	07/21/96				17.15	83.54	-0.63
	10/21/96				15.48	85.21	1.67
	01/21/97				15.04	85.65	0.44
	04/08/97				15.10	85.59	-0.06
	07/29/97				15.73	84.96	-0.63
	10/16/97				14.57	86.12	1.16
	01/06/98				14.22	86.47	0.35
	04/14/98				14.09	86.60	0.13
	07/17/98				15.35	85.34	-1.26
	10/27/98				15.36	85.33	-0.01
MW-13	09/13/91	45.00	Protective Casing	99.25	15.10	84.15	
	11/21/91				13.95	85.30	1.15
	03/16/93				13.22	86.03	0.73
	01/09/94				14.03	85.22	-0.81
	04/19/94				13.90	85.35	0.13
	07/20/94				13.70	85.55	0.20
	10/24/94				13.86	85.39	-0.16
	01/24/95				13.56	85.69	0.30
	04/02/95				13.87	85.38	-0.31
	07/31/95				13.84	85.41	0.03
	10/16/95				13.83	85.42	0.01
	01/10/96				14.02	85.23	-0.19
	04/09/96				14.20	85.05	-0.18
	07/20/96				15.04	84.21	-0.84
	10/21/96				13.31	85.94	1.73
	01/21/97				12.70	86.55	0.61
	04/08/97				12.48	86.77	0.22
	07/29/97				13.43	85.82	-0.95
	10/16/97				12.02	87.23	1.41
	01/06/98				11.44	87.81	0.58
	04/14/98				11.50	87.75	-0.06
	07/17/98				13.10	86.15	-1.60
	10/27/98				13.58	85.67	-0.48
MW-14	09/13/91	35.00	Protective Casing	98.74	14.60	84.14	
	11/21/91				13.61	85.13	0.99
	03/16/93				13.00	85.74	0.61
	01/09/94				13.71	85.03	-0.71
	04/19/94				13.63	85.11	0.08
	07/20/94				13.39	85.35	0.24
	10/24/94				13.48	85.26	-0.09
	01/25/95				13.26	85.48	0.22
	04/02/95				13.61	85.13	-0.35
	07/31/95				13.44	85.30	0.17
	10/16/95				13.52	85.22	-0.08
	01/10/96				13.76	84.98	-0.24
	04/09/96				13.96	84.78	-0.20
	07/20/96				14.74	84.00	-0.78

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (FT)	DEPTH TO GROUND WATER (FT)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-14 Cont.	10/21/96				13.03	85.71	1.71
	01/21/97				12.47	86.27	0.56
	04/08/97				12.44	86.30	0.03
	07/29/97				13.30	85.44	-0.86
	10/16/97				11.93	86.81	1.37
	01/06/98				11.46	87.28	0.47
	04/14/98				11.48	87.26	-0.02
	07/17/98				12.94	85.80	-1.46
	10/27/98				13.25	85.49	-0.31
MW-15	09/13/91	34.00	Protective Casing	100.05	16.30	83.75	
	11/21/91				15.01	85.04	1.29
	03/16/93				13.95	86.10	1.06
	01/09/94				14.91	85.14	-0.96
	04/19/94				14.80	85.25	0.11
	07/20/94				14.56	85.49	0.24
	10/24/94				14.73	85.32	-0.17
**	01/24/95				16.00	84.05	-1.27
	04/02/95				14.80	85.25	1.20
	07/31/95				14.82	85.23	-0.02
	10/16/95				14.74	85.31	0.08
	01/10/96				14.95	85.10	-0.21
	04/09/96				15.11	84.94	-0.16
	07/20/96				15.96	84.09	-0.85
	10/21/96				14.22	85.83	1.74
	01/21/97				13.64	86.41	0.58
	04/08/97				13.53	86.52	0.11
	07/29/97				14.32	85.73	-0.79
	10/16/97				12.90	87.15	1.42
	01/06/98				12.30	87.75	0.60
	04/14/98				12.38	87.67	-0.08
	07/17/98				13.93	86.12	-1.55
	10/27/98				14.38	85.67	-0.45
MW-17D	04/02/95	19.00	Protective Casing	101.29	16.80	84.49	
	07/31/95				16.48	84.81	0.32
	10/16/95				16.51	84.78	-0.03
	01/10/96				16.90	84.39	-0.39
	04/09/96				17.10	84.19	-0.20
	07/21/96				17.70	83.59	-0.60
	10/21/96				16.02	85.27	1.68
	01/21/97				15.60	85.69	0.42
	04/08/97				15.64	85.65	-0.04
	07/29/97				16.32	84.97	-0.68
	10/16/97				15.11	86.18	1.21
	01/06/98				14.80	86.49	0.31
	04/14/98				14.68	86.61	0.12
	07/17/98				15.92	85.37	-1.24
	10/27/98				15.95	85.34	-0.03
MW-17A	04/02/95	26.00	Protective Casing	100.57	16.05	84.52	
	07/31/95				15.75	84.82	0.30
	10/16/95				15.77	84.80	-0.02
	01/10/96				16.18	84.39	-0.41
	04/09/96				16.37	84.20	-0.19
	07/21/96				16.98	83.59	-0.61
	10/21/96				15.30	85.27	1.68
	01/21/97				14.88	85.69	0.42
	04/08/97				14.92	85.65	-0.04
	07/29/97				15.59	84.98	-0.67
	10/16/97				14.41	86.16	1.18
	01/06/98				14.09	86.48	0.32
	04/14/98				13.95	86.62	0.14
	07/17/98				15.20	85.37	-1.25
	10/27/98				15.23	85.34	-0.03

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (FT)	DEPTH TO GROUND WATER (FT)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-17B	04/02/95	34.00	Protective Casing	101.28	16.79	84.49	
	07/31/95			16.50	84.78	0.29	
	10/16/95			16.51	84.77	-0.01	
	01/10/96			16.92	84.36	-0.41	
	04/09/96			17.10	84.18	-0.18	
	07/21/96			17.71	83.57	-0.61	
	10/21/96			16.02	85.26	1.69	
	01/21/97			15.64	85.64	0.38	
	04/08/97			15.67	85.61	-0.03	
	07/29/97			16.30	84.98	-0.63	
	10/16/97			15.16	86.12	1.14	
	01/06/98			14.84	86.44	0.32	
	04/14/98			14.70	86.58	0.14	
	07/17/98			15.92	85.36	-1.22	
	10/27/98			16.00	85.28	-0.08	
MW-17C	04/02/95	61.00	Protective Casing	101.33	16.93	84.40	
	07/31/95			16.66	84.67	0.27	
	10/16/95			16.64	84.69	0.02	
	01/10/96			17.08	84.25	-0.44	
	04/09/96			17.25	84.08	-0.17	
	07/21/96			17.85	83.48	-0.60	
	10/21/96			16.17	85.16	1.68	
	01/21/97			15.75	85.58	0.42	
	04/08/97			15.80	85.53	-0.05	
	07/29/97			16.46	84.87	-0.66	
	10/16/97			15.33	86.00	1.13	
	01/06/98			15.00	86.33	0.33	
	04/14/98			14.85	86.48	0.15	
	07/17/98			16.09	85.24	-1.24	
	10/27/98			16.17	85.16	-0.08	
MW-18	04/02/95	28.00	Protective Casing	98.72	14.77	83.95	
	07/31/95			14.21	84.51	0.56	
	10/16/95			14.25	84.47	-0.04	
	01/10/96			14.90	83.82	-0.65	
	04/09/96			15.05	83.67	-0.15	
	07/21/96			15.44	83.28	-0.39	
	10/21/96			13.78	84.94	1.66	
	11/22/96			13.84	84.88	-0.06	
	01/21/97			13.54	85.18	0.30	
	04/08/97			13.66	85.06	-0.12	
	07/29/97			14.13	84.59	-0.47	
	10/16/97			13.34	85.38	0.79	
	01/06/98			13.13	85.59	0.21	
	04/14/98			12.79	85.93	0.34	
MW-19	04/02/95	28.00	Protective Casing	99.08	14.86	84.22	
	07/31/95			14.29	84.79	0.57	
	10/16/95			14.39	84.69	-0.10	
	01/10/96			14.98	84.10	-0.59	
	04/09/96			15.14	83.94	-0.16	
	07/21/96			15.62	83.46	-0.48	
	10/21/96			14.00	85.08	1.62	
	11/22/96			14.03	85.05	-0.03	
	01/21/97			13.69	85.39	0.34	
	04/08/97			13.76	85.32	-0.07	
	07/29/97			14.37	84.71	-0.61	
	10/16/97			13.47	85.61	0.90	
	01/06/98			13.21	85.87	0.26	
	04/14/98			12.90	86.18	0.31	
	07/17/98			13.96	85.12	-1.06	
	10/27/98			14.11	84.97	-0.15	

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (FT)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (FT)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-20	11/22/96 01/21/97 04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	28.00	Protective Casing	101.09	16.28 16.08 16.04 16.46 15.76 15.61 15.13 16.15 16.07	84.81 85.01 85.05 84.63 85.33 85.48 85.96 84.94 85.02	0.20 0.04 -0.42 0.70 0.15 0.48 -1.02 0.08
MW-21	11/22/96 01/21/97 04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	25.00	Protective Casing	98.88 98.89	14.36 14.26 14.41 14.54 14.18 14.17 13.60 14.21 14.22	84.52 84.62 84.48 84.35 84.71 84.72 85.29 84.68 84.67	0.10 -0.14 -0.13 0.36 0.01 0.57 -0.61 -0.01
MW-22	11/22/96 01/21/97 04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	24.50	Protective Casing	97.16 97.14	12.88 12.94 13.42 13.16 13.23 13.46 12.80 12.65 12.90	84.28 84.22 83.72 83.98 83.91 83.68 84.34 84.49 84.24	-0.06 -0.50 0.26 -0.07 -0.23 0.66 0.15 -0.25
MW-23	11/22/96 01/21/97 04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	25.00	Protective Casing	97.33 97.30	12.72 12.59 13.07 13.14 13.06 13.13 12.52 12.64 12.84	84.61 84.74 84.23 84.16 84.24 84.17 84.78 84.66 84.46	0.13 -0.51 -0.07 0.08 -0.07 0.61 -0.12 -0.20
MW-24	11/22/96 01/21/97 04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	27.00	Protective Casing	103.42 103.41	17.91 17.56 17.40 17.72 16.58 16.01 16.17 17.49 17.40	85.51 85.86 86.01 85.69 86.83 87.40 87.24 85.92 86.01	0.35 0.15 -0.32 1.14 0.57 -0.16 -1.32 0.09
MW-25	04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	25.00	Protective Casing	97.64	14.23 13.77 13.99 14.37 13.65 13.26 13.57	83.41 83.87 83.65 83.27 83.99 84.38 84.07	- 0.46 -0.22 -0.38 0.72 0.39 -0.31
MW-26	04/08/97 07/29/97 10/16/97 01/06/98 04/14/98 07/17/98 10/27/98	25.00	Protective Casing	96.11	13.06 12.23 12.75 13.40 12.61 11.64 12.16	83.05 83.88 83.36 82.71 83.50 84.47 83.95	- 0.83 -0.52 -0.65 0.79 0.97 -0.52

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
DOWELL, ARTESIA, NEW MEXICO.**

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-27	04/08/97	25.00	Protective Casing	96.17	13.06	83.11	-
	07/29/97				12.21	83.96	0.85
	10/16/97				12.79	83.38	-0.58
	01/06/98				13.56	82.61	-0.77
	04/14/98				12.75	83.42	0.81
	07/17/98				11.53	84.64	1.22
	10/27/98				12.09	84.08	-0.56
MW-28	07/17/98	25.00	Protective Casing	97.93	14.32	83.61	-
	10/27/98				14.43	83.50	-0.11
MW-29	07/17/98	25.00	Protective Casing	97.04	14.07	82.97	-
	10/27/98				14.36	82.68	-0.29
MW-30	07/17/98	25.00	Protective Casing	96.58	12.68	83.90	-
	10/27/98				13.12	83.46	-0.44

NOTES:

NM = not measured

* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.
Benchmark is located on the concrete right up against the east shop wall,
at the northeast corner of the shop.

** = water level measurement may be in error

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO

TABLE 2.
SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLINES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TCA (mg/L)	TCF (mg/L)	PCE (mg/L)	total halocarbons (mg/L)	BTEX (mg/L)
dup.	03/16/93	0.130	0.780	0.540	9.000	ND(0.001)	ND(0.005)	0.044	0.260	0.037	0.330	0.671	10.450
MW-3 Cont. *	07/01/93	0.140	1.000	0.520	9.100	0.140	ND(0.05)	0.160	ND(0.05)	ND(0.05)	0.300	10.760	
01/10/94	0.140	1.000	0.700	11.000	0.190	ND(0.1)	ND(0.1)	0.210	ND(0.1)	NA	0.400	12.840	
04/19/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000	0.000	
07/20/94	0.092	0.460	0.160	3.000	0.077	0.002J	0.036	0.069	0.064	0.011	0.257	3.712	
10/25/94	0.130	0.960	0.250	4.200	0.200	ND(0.05)	0.064	ND(0.05)	0.130	0.21J	0.394	5.540	
dup.	10/25/94	0.110	0.830	0.300	4.700	0.180	ND(0.05)	0.051	ND(0.05)	0.100	0.024J	0.331	5.940
01/25/95	ND(1)	0.81J	ND(1)	7.100	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.000	7.100	
04/03/95	0.047	0.450	ND(0.025)	1.300	0.100	ND(0.025)	0.110	ND(0.025)	0.150	ND(0.025)	0.360	1.797	
dup.	04/03/95	0.047	0.450	ND(0.025)	1.200	0.100	ND(0.025)	0.120	ND(0.025)	0.150	ND(0.025)	0.370	1.697
*	08/01/95	0.088	0.950	0.190	6.500	0.230	ND(0.05)	0.089	ND(0.05)	0.081	ND(0.05)	0.400	7.728
*	10/18/95	0.100	1.100	0.240	8.200	0.280	ND(0.05)	0.066	ND(0.05)	0.089	0.042J	0.435	9.640
*	01/11/96	0.054	0.620	0.081	4.990	0.150	ND(0.05)	0.076	ND(0.05)	0.100	ND(0.05)	0.326	5.745
*	04/13/96	0.039	0.480	ND(0.005)	3.900	0.051	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	4.419
#	07/22/96	0.060	0.190	0.056	0.890	0.130	ND(0.005)	0.009	ND(0.005)	0.054	0.014	0.216	1.196
10/22/96	ND(0.1)	0.580	ND(0.1)	3.500	0.150	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.150	4.080	
01/24/97	0.048	0.269	0.012	0.886	0.077	0.004	ND(0.010)	0.043	ND(0.010)	0.070	0.007J	0.194	1.215
04/09/97	0.034	0.137	ND(0.010)	0.146	0.065	ND(0.010)	0.064	ND(0.010)	0.107	0.013	0.249	0.318	
07/30/97	0.019	0.177	ND(0.010)	0.644	0.057	ND(0.010)	0.043	ND(0.010)	0.103	0.035	0.238	0.840	
10/17/97	0.044	0.464	0.041	3.300	0.069	ND(0.020)	0.016J	ND(0.020)	0.018J	0.016J	0.069	3.849	
01/07/98	0.042J	0.503	0.051J	3.720	0.086J	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.000	4.223	
04/15/98	0.018J	0.078	ND(0.020)	0.431	0.055	ND(0.020)	0.044	ND(0.020)	0.080	ND(0.020)	0.179	0.509	
04/15/98	0.018J	0.077	ND(0.020)	0.416	0.052	ND(0.020)	0.044	ND(0.020)	0.079	ND(0.020)	0.175	0.493	
07/18/98	0.009J	0.036	ND(0.005)	0.027	0.050	ND(0.005)	0.052	ND(0.005)	0.083	ND(0.005)	0.022	0.207	0.063
10/28/98	0.016J	0.187	ND(0.020)	1.239	0.053	ND(0.020)	0.029	ND(0.020)	0.056	ND(0.020)	0.029	0.167	1.426
MW-4	01/26/91	0.098	0.011	ND(0.001)	0.025	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.134	
09/15/91	0.260	ND(0.002)	0.015	0.037	ND(0.001)	0.006	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.006	0.275	
11/22/91	0.180	0.100	0.001	ND(0.001)	0.001	ND(0.001)	0.019	ND(0.001)	ND(0.001)	ND(0.001)	0.019	0.318	
03/16/93	0.072	0.051	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	0.123	
01/10/94	0.064	0.074	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.138	
04/19/94	0.074	0.085	ND(0.005)	0.003J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	0.159	
07/20/94	0.100	0.053	ND(0.005)	0.005	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	0.158	
10/25/94	0.140	0.260	ND(0.005)	0.004J	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	0.005	0.400	
01/25/95	0.150	0.400	0.190	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	0.550	
04/03/95	0.100	0.059	ND(0.005)	0.007	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	0.290	
08/01/95	0.069	0.570	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.005	0.639	
*	10/18/95	ND(0.005)	0.110	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	0.110
*	01/11/96	ND(0.005)	0.036	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.036	
*	04/13/96	ND(0.005)	0.008	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	
dup. *	04/13/96	ND(0.005)	0.007	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	
#	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	
*	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000	
01/24/97	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000	
04/09/97	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000	
07/30/97	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000	
10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000	
10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000	

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES
DOWELL, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1-TCA (mg/L)	total halocarbons (mg/L)	total BTEX (mg/L)
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-5	01/26/91	0.014	ND(0.001)	ND(0.001)	ND(0.005)	0.004	ND(0.001)	0.002	0.001	ND(0.001)	0.014
	09/15/91	ND(0.001)	0.001	ND(0.001)	ND(0.005)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000
	03/16/93	0.078	0.007	ND(0.001)	ND(0.005)	0.013	ND(0.001)	0.003	ND(0.001)	ND(0.001)	0.017
	01/10/94	0.025	ND(0.001)	ND(0.001)	ND(0.005)	0.008	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.023
	04/19/94	0.070	0.011	ND(0.005)	ND(0.005)	0.008	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.023
	07/20/94	0.220	0.041	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.021
	08/01/95	0.320	0.076	ND(0.005)	ND(0.005)	0.001J	ND(0.005)	0.026	ND(0.005)	ND(0.005)	0.261
	07/20/94	0.240	0.059	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.002J	ND(0.005)	ND(0.005)	0.298
	01/25/95	0.460	0.130	ND(0.005)	ND(0.005)	0.023	ND(0.005)	0.002J	ND(0.005)	ND(0.005)	0.590
dup.	03/16/93	0.390	0.087	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.021
	04/03/95	0.170	0.082	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.025
	10/18/95	0.200	0.093	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.029
	01/11/96	0.078	0.012	ND(0.005)	ND(0.005)	0.027	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.034
	04/13/96	0.068	0.037	ND(0.005)	ND(0.005)	0.005	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.023
	07/21/96	0.092	0.057	ND(0.005)	ND(0.005)	0.005	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027
	10/22/96	0.066	0.023	ND(0.005)	ND(0.005)	0.002	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.025
	01/24/97	0.031	0.025	ND(0.001)	ND(0.002)	0.003	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	0.025
	04/09/97	0.040	0.040	ND(0.002)	ND(0.002)	0.002J	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	0.032
	07/30/97	0.018	0.044	ND(0.002)	ND(0.002)	0.001J	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	0.033
MW-6	10/17/97	0.016	0.048	ND(0.002)	ND(0.002)	0.009	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	0.037
	10/28/98	0.006		ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	0.015
	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.007	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.083
	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.006	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.083
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.083
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.007	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.133
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.017	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.104
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.162
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.056
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020
MW-7	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.024
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.012	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.035
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.012	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.032
	07/30/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.006	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.030
	10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.011	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.041
	10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.007	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.031
	01/26/91	0.006	ND(0.001)	ND(0.001)	ND(0.005)	0.021	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.068
	09/15/91	0.009	ND(0.001)	ND(0.001)	ND(0.005)	0.038	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.069
	01/22/91	0.009	ND(0.001)	ND(0.001)	ND(0.005)	0.034	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.069
	04/09/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.025)	0.035	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.066

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	XYLENEs (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TCA (mg/L)	PCE (mg/L)	total Halocarbons (mg/L)	total BTEX (mg/L)
MW-7 Cont.	03/16/93	0.007	ND(0.001)	ND(0.005)	0.027	ND(0.001)	0.280	0.002	0.050	0.160	0.519
01/10/94	0.005	ND(0.001)	ND(0.001)	ND(0.005)	0.023	ND(0.001)	0.210	0.004	0.046	0.160	0.443
04/19/94	0.007J	ND(0.005)	ND(0.005)	ND(0.005)	0.021	ND(0.005)	0.120	0.003J	0.038	0.120	0.299
07/20/94	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.220	0.003J	0.040	0.160	0.438
10/25/94	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.033	ND(0.005)	0.230	ND(0.005)	0.050	0.240	0.553
dup.	10/25/94	0.006J	ND(0.025)	ND(0.025)	0.026	ND(0.025)	0.200	ND(0.025)	0.045	0.230	0.501
	01/25/95	0.005	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.210	0.002J	0.041	0.330	0.608
	04/03/95	0.006	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.290	ND(0.005)	0.038	0.260	0.617
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	0.038	ND(0.005)	0.300	ND(0.005)	0.051	0.290	0.639
	10/18/95	0.005	ND(0.005)	ND(0.005)	0.024	ND(0.005)	0.300	ND(0.005)	0.045	0.300	0.669
	01/11/96	0.006	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.260	ND(0.005)	0.035	0.250	0.572
	04/13/96	0.006	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.370	ND(0.005)	0.030	0.260	0.687
	07/22/96	0.006	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.280	ND(0.005)	0.026	0.220	0.555
	10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	0.028	ND(0.010)	0.350	ND(0.010)	0.023	0.260	0.661
	01/24/97	0.005	ND(0.001)	ND(0.002)	0.021	ND(0.001)	0.244	ND(0.002)	0.019	0.203	0.489
04/09/97	0.005	ND(0.002)	ND(0.004)	ND(0.002)	0.022	ND(0.002)	0.186	ND(0.002)	0.017	0.148	0.373
07/30/97	0.005J	ND(0.010)	ND(0.010)	ND(0.020)	0.023	ND(0.010)	0.236	ND(0.010)	0.019	0.255	0.533
10/17/97	0.005J	ND(0.010)	ND(0.010)	ND(0.020)	0.029	ND(0.010)	0.255	ND(0.010)	0.020	0.163	0.457
10/28/98	0.004J	ND(0.010)	ND(0.020)	ND(0.010)	0.024	ND(0.010)	0.193	ND(0.010)	0.031	0.251	0.499
MW-8	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	0.015	ND(0.001)	0.004	0.001	0.023
	09/15/91	0.007	ND(0.001)	ND(0.001)	0.017	ND(0.001)	0.101	ND(0.001)	0.007	0.039	0.05
	11/22/91	0.004	ND(0.001)	ND(0.001)	0.020	ND(0.001)	0.087	ND(0.001)	0.045	0.063	0.214
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.054	ND(0.001)	0.005	0.063	0.218
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.054	ND(0.001)	0.006	0.066	0.078
	01/10/94	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	0.073	ND(0.001)	0.004	0.010	0.100
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	0.004J	ND(0.005)	0.039	ND(0.005)	0.004J	0.007	0.046
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	0.004J	ND(0.005)	0.069	ND(0.005)	0.005	0.011	0.091
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	0.008	ND(0.005)	0.082	ND(0.005)	0.010	0.019	0.119
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	0.076	ND(0.005)	0.011	0.022	0.122
04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.006	ND(0.005)	0.074	ND(0.005)	0.008	0.017	0.105
08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.110	ND(0.005)	0.023	0.053	0.201
10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	0.081	ND(0.005)	0.015	0.044	0.149
01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	ND(0.005)	0.069	ND(0.005)	0.006	0.019	0.084
04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	0.076	ND(0.005)	0.011	0.036	0.153
07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.006	ND(0.005)	0.087	ND(0.005)	0.010	0.035	0.138
10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	ND(0.005)	0.150	ND(0.005)	0.035	0.089	0.296
dup.	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.140	ND(0.005)	0.030	0.072	0.262
	01/24/97	0.001J	ND(0.001)	ND(0.001)	0.019	ND(0.001)	0.081	ND(0.001)	0.017	0.018	0.137
	01/24/97	0.001J	ND(0.001)	ND(0.001)	0.017	ND(0.002)	0.088	ND(0.002)	0.014	0.017	0.138
	04/09/97	0.001J	ND(0.002)	ND(0.002)	0.015	ND(0.002)	0.097	ND(0.002)	0.019	0.028	0.158
	07/30/97	0.001J	ND(0.002)	ND(0.002)	0.011	ND(0.002)	0.106	ND(0.002)	0.015	0.048	0.180
dup.	07/30/97	ND(0.002)	ND(0.002)	ND(0.002)	0.010	ND(0.002)	0.104	ND(0.002)	0.010	0.055	0.187
	10/17/97	0.001J	ND(0.002)	ND(0.002)	0.003J	ND(0.005)	0.111	ND(0.005)	0.010	0.026	0.150
	10/28/98	ND(0.005)	ND(0.01)	ND(0.01)	0.003J	ND(0.01)	0.128	ND(0.01)	0.009	0.121	0.000
	10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	0.137	0.000
MW-9	01/26/91	ND(0.001)	ND(0.001)	ND(0.005)	0.022	ND(0.001)	0.002	ND(0.001)	0.001	0.025	0.000
	09/15/91	0.002	0.032	ND(0.005)	0.035	ND(0.001)	0.002	ND(0.001)	0.001	0.037	0.034
	11/22/91	0.004	0.170	ND(0.001)	0.029	ND(0.001)	0.002	ND(0.001)	0.001	0.032	0.174
	03/16/93	ND(0.001)	ND(0.001)	ND(0.005)	0.012	ND(0.001)	0.001	ND(0.001)	0.001	0.013	0.000

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1-TCA (mg/L)	PCE (mg/L)	TCE (mg/L)	total halocarbons (mg/L)	BTEX (mg/L)
MW-9 Cont.	01/10/94	ND(0.001)	ND(0.005)	0.002	ND(0.005)	0.012	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.005)	0.012	0.002
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	0.000
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.001J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	0.000
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	0.000
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	0.000
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	0.000
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	0.000
	10/18/95	ND(0.005)	0.016	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	0.016
	01/10/96	ND(0.005)	0.032	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	0.032
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	0.000
#	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.021	0.000
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.024	0.000
	01/24/97	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.019	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.023	0.000
	04/09/97	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.022	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.026	0.000
	07/30/97	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.020	0.000
	10/17/97	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.018	0.000
	10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.005	0.000
MW-10	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	0.000
	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.014	0.000
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.034	0.000
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.026	0.000
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.021	0.000
	04/19/94	ND(0.001)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	0.000
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.052	0.000
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	0.000
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.042	0.000
	04/13/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	0.000
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.070	0.000
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.087	0.000
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	0.000
	01/10/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.063	0.000
	04/19/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	0.000
	07/20/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	0.000
	10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.250	0.000
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.181	0.000
	04/09/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.002)	0.158	0.004
	07/30/97	ND(0.005)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.156	0.000
	10/17/97	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.196	0.000
	10/28/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.111	0.000
MW-11	01/26/91	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.045	ND(0.005)	0.310	ND(0.005)	0.140	0.360	0.855
	09/15/91	0.056	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)	0.068	ND(0.001)	0.470	0.017	0.120	0.330	1.005
	11/22/91	0.048	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)	0.052	ND(0.001)	0.390	0.018	0.110	0.320	0.890
	03/16/93	0.005	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)	0.040	ND(0.001)	0.220	0.004	0.074	0.160	0.498
	01/10/94	0.005	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)	0.042	ND(0.001)	0.250	0.005	0.083	0.320	0.695
	04/19/94	0.009	ND(0.005)	ND(0.002J)	ND(0.025)	ND(0.025)	0.002J	ND(0.005)	0.042	ND(0.005)	0.170	0.079	0.170
	07/20/94	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	0.460	0.01J
	10/25/94	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.067	ND(0.005)	0.001J	ND(0.005)	0.220	0.110	0.300
	01/25/95	0.012	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.072	ND(0.005)	0.240	0.014	0.120	0.360	0.806
	04/03/95	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.410	0.013	0.100	0.430	0.105

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE	ETHYL-BENZENE	TOLUENE	XYLENES	1,1-DCA	1,2-DCA	1,1-DCE	TCA	TCE	PCE	total halocarbons (mg/L)	total BTEX (mg/L)	
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
MW-11 Cont.	08/01/95	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.050	ND(0.005)	0.360	0.014	0.063	0.330	0.817	0.007	
dup.	08/01/95	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.310	0.015	0.071	0.340	0.787	0.007	
*	10/18/95	0.005J	ND(0.005)	ND(0.005)	ND(0.005)	0.43	ND(0.005)	0.270	0.010	0.057	0.330	0.710	0.000	
*	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.033	ND(0.005)	0.230	0.011	0.043	0.310	0.627	0.000	
04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.240	ND(0.005)	0.240	0.020	0.230	0.490	0.000		
07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.035	ND(0.005)	0.200	0.008	ND(0.010)	0.029	0.260	0.539	
10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.034	ND(0.010)	0.230	0.014	ND(0.010)	0.026	0.553	0.000	
01/24/97	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.029	0.001J	0.157	0.008	0.026	0.212	0.432	0.002	
04/09/97	0.002	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.033	ND(0.002)	0.128	0.008	0.027	0.180	0.375	0.002	
07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	ND(0.010)	0.032	ND(0.005)	0.102	0.006	0.032	0.170	0.342	0.000	
10/17/97	0.003J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.048	ND(0.010)	0.142	0.005J	0.031	0.063	0.284	0.000	
01/07/98	0.004J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.054	ND(0.010)	0.145	0.005J	0.049	0.176	0.424	0.000	
01/07/98	0.004J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.061	ND(0.010)	0.155	0.006J	0.053	0.200	0.469	0.000	
04/15/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.020)	0.059	ND(0.010)	0.130	ND(0.010)	0.057	0.151	0.397	0.000	
07/18/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.020)	0.071	ND(0.010)	0.120	ND(0.010)	0.064	0.143	0.398	0.000	
10/28/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.020)	0.072	ND(0.010)	0.110	ND(0.010)	0.065	0.129	0.376	0.000	
MW-12	01/26/91	0.260	0.950	0.230	4.500	0.140	ND(0.025)	ND(0.025)	0.057	0.073	0.042	0.312	5.940	
	09/15/91	0.150	0.620	0.630	2.200	0.120	ND(0.001)	0.300	0.110	0.200	0.061	0.791	3.600	
*	11/22/91	0.110	0.430	0.334	0.810	0.110	0.002	0.240	0.100	0.260	0.051	0.763	1.384	
03/16/93	0.160	0.800	0.014	1.000	0.120	0.120	ND(0.001)	0.039	0.055	0.036	0.018	0.268	1.974	
01/10/94	0.160	0.870	0.026	0.990	0.150	0.150	ND(0.01)	0.075	0.053	0.070	0.024	0.372	2.046	
04/19/94	0.110	0.110	0.049	0.250	0.110	0.002J	ND(0.02)	0.064	0.065	0.073	0.033	0.345	0.519	
07/20/94	0.160	0.720	0.071	0.610	0.150	0.150	ND(0.025)	0.073	0.075	0.086	0.022J	0.384	1.561	
10/25/94	0.096	0.660	ND(0.025)	0.100	0.160	0.160	ND(0.025)	0.085	0.085	0.120	0.015J	0.365	0.856	
01/25/95	0.160	0.680	0.089	0.660	0.190	0.190	ND(0.005)	0.120	0.095	0.076	0.069	0.550	1.589	
01/25/95	0.140	0.850	0.075	0.860	0.150	0.150	ND(0.005)	0.090	0.075	0.062	0.053	0.430	1.925	
04/03/95	0.150	0.790	0.200	1.100	0.160	0.160	ND(0.005)	0.110	0.096	0.043	0.056	0.465	2.240	
08/01/95	0.130	0.700	0.280	1.400	0.170	0.170	ND(0.025)	0.150	0.079	0.098	0.059	0.556	2.510	
*	10/18/95	0.140	0.980	0.360	2.030	0.170	ND(0.005)	0.100	0.100	0.058	0.050	0.478	3.520	
01/11/96	0.100	0.680	0.180	1.840	0.140	0.140	ND(0.005)	0.097	0.059	0.060	0.048	0.404	2.800	
04/13/96	0.098	0.620	0.180	0.690	0.150	0.150	ND(0.005)	0.110	0.096	0.043	0.056	0.465	2.240	
07/22/96	0.130	0.920	0.310	1.790	0.160	0.160	ND(0.005)	0.170	0.079	0.098	0.059	0.556	2.510	
*	10/22/96	ND(0.1)	0.830	0.190	1.800	0.190	ND(0.1)	0.162	ND(0.010)	0.060	0.058	0.050	0.478	3.520
01/24/97	0.093	0.822	0.133	1.738	0.138	0.138	ND(0.020)	0.159	ND(0.020)	0.051	0.046	0.046	0.404	2.800
04/09/97	0.086	0.920	0.138	1.869	0.140	0.140	ND(0.010)	0.159	ND(0.010)	0.040	0.054	0.047	0.399	2.900
04/09/97	0.079	0.855	0.129	1.837	0.127	2.294	0.136	ND(0.020)	0.035	0.062	0.036	0.312	3.480	
07/30/97	0.090	0.969	0.127	2.083	0.185	0.185	ND(0.050)	0.141	ND(0.1)	0.186	ND(0.050)	0.432	7.861	
10/17/97	0.178	1.290	0.853	5.540	0.745	0.745	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.141	1.895	
10/28/98	0.064J	1.150	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	
MW-13	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.030	0.002	0.038	0.005	0.004	0.240	0.319	0.000
	11/22/91	0.430	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.016	0.001	0.025	0.002	0.110	0.156	0.430	
*	03/16/93	0.033	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.013	ND(0.001)	0.014	ND(0.001)	0.002	0.062	0.091	0.033
dup.	03/16/93	0.034	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.013	ND(0.001)	0.015	ND(0.001)	0.002	0.066	0.097	0.034
01/10/94	0.022	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.016	ND(0.001)	0.007	ND(0.001)	0.003	0.055	0.081	0.022	
04/19/94	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	0.001J	ND(0.005)	0.003J	ND(0.005)	0.032	0.043	
07/20/94	0.016	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.016	ND(0.005)	0.001J	ND(0.005)	0.005J	ND(0.005)	0.034	0.050	
10/25/94	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.001J	ND(0.005)	0.004J	ND(0.005)	0.040	0.053	
01/22/95	0.008	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.001J	ND(0.005)	0.002J	ND(0.005)	0.029	0.049	
04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.035	0.000	

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLINES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TCA (mg/L)	1,1,1-TCA (mg/L)	PCE (mg/L)	BTEX (mg/L)
MW-13 Cont.	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	0.025
	10/18/95	0.0031J	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	0.043
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.005	0.031
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.000
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	0.011
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.029
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	ND(0.001)	0.001J	0.013
	04/09/97	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	ND(0.001)	0.001J	0.016
	04/09/97	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	ND(0.001)	0.001J	0.002
	07/30/97	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	ND(0.001)	ND(0.001)	0.023
	10/17/97	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.004)	0.003	ND(0.002)	ND(0.001)	0.003	0.011
	10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	ND(0.001)	0.005	0.014
	01/07/98	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	ND(0.001)	0.006	0.016
	04/15/98	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	0.007	0.002
	07/18/98	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	ND(0.001)	0.010	0.019
	10/28/98	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	0.015	0.000
MW-14	09/15/91	0.022	ND(0.001)	ND(0.005)	ND(0.005)	0.130	0.002	0.300	0.014	ND(0.001)	0.009	0.022
	11/22/91	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.140	0.002	0.310	0.010	0.002	0.002
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.110	0.002	0.320	0.004	ND(0.001)	0.882
	03/16/93	0.020	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.080	0.001	0.180	0.004	ND(0.002)	0.020
	01/10/94	0.011	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.057	ND(0.001)	0.100	ND(0.001)	0.002	0.477
	04/19/94	0.005	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.056	ND(0.005)	0.008	0.459
	07/20/94	0.01J	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	0.072	ND(0.025)	0.110	ND(0.025)	0.01J	0.274
	10/25/94	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.079	ND(0.005)	0.001J	ND(0.005)	0.006	0.392
	01/25/95	0.004J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.083	ND(0.005)	0.070	ND(0.005)	0.022	0.000
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.063	ND(0.005)	0.058	ND(0.005)	0.130	0.251
MW-15	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.074	ND(0.005)	0.072	ND(0.005)	0.072	0.244
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.044	ND(0.005)	0.087	0.193
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.038	ND(0.005)	0.061	0.150
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.053	ND(0.005)	0.040	ND(0.005)	0.064	0.157
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.045	ND(0.005)	0.057	0.153
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.048	ND(0.005)	0.037	ND(0.005)	0.055	0.140
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.052	ND(0.005)	0.043	ND(0.005)	0.064	0.159
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.056	ND(0.005)	0.049	ND(0.005)	0.062	0.167
	01/24/97	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.040	ND(0.001)	0.001J	ND(0.001)	0.014	0.077
	01/24/97	0.001J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.045	ND(0.001)	0.001J	ND(0.001)	0.027	0.082
MW-16	04/09/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.039	ND(0.005)	0.023	ND(0.005)	0.024	0.086
	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.036	ND(0.005)	0.021	ND(0.005)	0.043	0.100
	10/17/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.039	ND(0.005)	0.019	ND(0.005)	0.048	0.106
	10/28/98	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.045	ND(0.005)	0.019	ND(0.005)	0.074	0.138
	09/15/91	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.006	0.026	0.001	ND(0.001)	0.004	0.036
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.033	0.001	0.009	ND(0.001)	0.006	0.052
	03/16/93	0.001	0.002	ND(0.001)	ND(0.001)	ND(0.005)	0.008	ND(0.001)	0.001	ND(0.001)	0.006	0.003
	01/10/94	ND(0.001)	0.008	ND(0.001)	ND(0.001)	ND(0.005)	0.002	ND(0.005)	0.048	ND(0.001)	0.004	0.008
	01/10/94	0.001	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.002	ND(0.005)	0.054	ND(0.001)	0.010	0.083
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.005J	ND(0.005)	0.003J	0.035
MW-17	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.049	ND(0.005)	0.001J	ND(0.005)	0.004J	0.060
	10/25/94	0.001J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.006	ND(0.005)	0.004J	0.041
	10/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.046
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.038
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.019	ND(0.005)	0.006	0.036

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLINES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	total Halocarbons (mg/L)	BTEX (mg/L)
MW-15 Cont.	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	0.000
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.028	0.000
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.001J	ND(0.005)	0.002J	0.015	0.000
	01/10/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.003J	ND(0.005)	ND(0.005)	0.013	0.000
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	0.000
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	0.000
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	0.000
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	0.000
dup.												
	01/24/97	0.001J										
	04/09/97	0.001J										
	07/30/97	ND(0.001)										
	10/17/97	ND(0.001)										
	10/28/98	0.001J										
MW-17D	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.018	ND(0.005)	0.012	0.019	0.014
	08/01/95	0.013										
	10/18/95	0.007										
	01/11/96	0.006										
dup.	#	01/11/96	0.006									
	04/13/96	ND(0.005)										
	07/22/96	ND(0.005)										
	10/22/96	0.007										
	01/24/97	0.004										
	04/09/97	0.003										
	07/30/97	0.003										
	10/17/97	0.004										
	10/28/98	0.006										
MW-17A	04/03/95	0.009										
	08/01/95	0.010										
	10/18/95	0.009										
dup.	#	10/18/95	0.010									
	01/11/96	0.009										
	04/13/96	0.006										
	07/22/96	0.008										
	10/22/96	0.006										
	01/24/97	0.006										
	04/09/97	0.007										
	07/30/97	0.004J										
	10/17/97	0.006										
	10/28/98	0.009										
MW-17B	04/03/95	ND(0.005)										
	08/01/95	0.006										
	08/01/95	0.008										
dup.	#	10/18/95	0.006									
	01/11/96	ND(0.005)										
	04/13/96	ND(0.005)										
	07/22/96	ND(0.005)										
dup.	#	10/22/96	ND(0.005)									
	01/24/97	ND(0.001)										
	04/09/97	ND(0.001)										
	07/30/97	ND(0.005)										
	10/17/97	ND(0.005)										
	10/28/98	ND(0.005)										

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	XYLEMES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1,1-TCA (mg/L)	total halocarbons (mg/L)	PCE (mg/L)	TCE (mg/L)	total BTEX (mg/L)
MW-17B Cont.	01/24/97	0.002	ND(0.001)	ND(0.002)	0.038	0.001	0.110	0.008	0.019	0.070	0.246
	04/09/97	0.004	ND(0.002)	ND(0.002)	0.035	0.001J	0.115	0.005	0.021	0.132	0.309
	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.004J)	ND(0.01)	0.027	0.141	0.264
10/17/97	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	0.053	ND(0.01)	0.103	ND(0.01)	0.027	0.149	0.332
10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	0.073	ND(0.01)	0.072	ND(0.01)	0.045	0.178	0.368
MW-17C *	04/03/95	0.032	0.060	0.005	0.054	0.058	ND(0.005)	0.099	ND(0.005)	0.091	0.013
2nd *	04/03/95	0.034	0.057	ND(0.005)	0.045	0.053	ND(0.005)	0.095	ND(0.005)	0.095	0.017
*	08/01/95	0.022	0.047	ND(0.005)	ND(0.005)	0.073	ND(0.005)	0.110	ND(0.005)	0.120	0.012
*	10/18/95	0.019	0.026	ND(0.005)	ND(0.005)	0.063	ND(0.005)	0.140	ND(0.005)	0.140	0.024
*	01/11/96	0.020	0.035	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.120	ND(0.005)	0.120	0.045
*	04/13/96	0.011	0.009	ND(0.005)	ND(0.005)	0.057	ND(0.005)	0.130	ND(0.005)	0.100	0.015
#	07/22/96	0.016	ND(0.005)	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.130	ND(0.005)	0.120	0.013
	10/22/96	0.015	ND(0.005)	ND(0.005)	ND(0.005)	0.045	ND(0.005)	0.120	ND(0.005)	0.100	0.014
01/24/97	0.009	ND(0.001)	ND(0.002)	ND(0.001)	0.051	0.003	ND(0.001)	0.099	ND(0.001)	0.078	0.015
04/09/97	0.011	ND(0.002)	ND(0.002)	ND(0.004)	0.049	0.002	ND(0.002)	0.105	ND(0.002)	0.100	0.008
07/30/97	0.010	ND(0.005)	ND(0.010)	ND(0.010)	0.043	0.003J	ND(0.005)	0.093	ND(0.005)	0.097	0.010
10/17/97	0.031	ND(0.01)	ND(0.02)	ND(0.02)	0.066	0.003J	ND(0.01)	0.115	ND(0.01)	0.086	0.031
10/28/98	0.011	ND(0.01)	ND(0.01)	ND(0.02)	0.050	ND(0.01)	0.105	ND(0.01)	0.110	0.018	0.283
MW-18	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	0.093	ND(0.005)	0.034	0.071
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.024	ND(0.005)	0.170	ND(0.005)	0.039	0.087
	10/18/95	0.003J	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.150	ND(0.005)	0.042	0.130
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	0.130	ND(0.005)	0.037	0.080
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.016	ND(0.005)	0.170	ND(0.005)	0.034	0.120
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.200	ND(0.005)	0.043	0.110
dup.	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	ND(0.005)	0.043	0.120
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.190	ND(0.005)	0.042	0.120
01/24/97	0.003	ND(0.001)	ND(0.002)	ND(0.001)	0.024	0.001J	ND(0.001)	0.180	0.002	0.047	0.097
04/09/97	0.003	ND(0.001)	ND(0.002)	ND(0.004)	0.022	0.001J	ND(0.001)	0.155	0.002	0.044	0.116
07/30/97	0.002	ND(0.002)	ND(0.002)	ND(0.004)	0.020	ND(0.002)	ND(0.001)	0.140	0.001J	0.044	0.121
10/17/97	0.002J	ND(0.01)	ND(0.02)	ND(0.02)	0.028	ND(0.01)	0.157	ND(0.01)	0.044	0.071	0.243
01/17/98	0.002J	ND(0.01)	ND(0.01)	ND(0.01)	0.029	ND(0.01)	0.163	ND(0.01)	0.054	0.133	0.379
04/15/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.029	ND(0.01)	0.155	ND(0.01)	0.053	0.145	0.382
07/18/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.030	ND(0.01)	0.146	ND(0.01)	0.052	0.151	0.379
10/28/98	ND(0.01)	ND(0.01)	ND(0.02)	ND(0.02)	0.028	ND(0.01)	0.142	ND(0.01)	0.052	0.149	0.371
MW-19	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	0.150	ND(0.005)	ND(0.005)	0.110
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	ND(0.005)	0.170	ND(0.005)	0.042	0.324
	10/18/95	0.002J	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	0.170	ND(0.005)	0.038J	0.150
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	0.110	ND(0.005)	0.010	0.220
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.150	ND(0.005)	ND(0.005)	0.250
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.150	ND(0.005)	ND(0.005)	0.269
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	ND(0.005)	ND(0.005)	0.232
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.009	ND(0.001)	0.122	0.001J	0.003	0.093
	04/09/97	0.002	ND(0.002)	ND(0.002)	ND(0.002)	0.010	ND(0.001)	0.116	ND(0.002)	0.004	0.087
	07/30/97	0.003J	ND(0.01)	ND(0.01)	ND(0.02)	0.009	ND(0.002)	0.116	ND(0.01)	0.005	0.096
	10/17/97	0.003J	ND(0.01)	ND(0.01)	ND(0.02)	0.010	ND(0.001)	0.124	ND(0.01)	0.006	0.150
	10/28/98	ND(0.01)	ND(0.01)	ND(0.02)	ND(0.02)	ND(0.005)	ND(0.005)	0.167	ND(0.01)	0.005J	0.334

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	ETHYL-BENZENE	TOLUENE	XYLENES	1,1-DCA	1,2-DCA	1,1-DCE	1,1,1-TCA	TCE	PCE	total halocarbons	BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-20	11/20/96	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/07/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-21	11/20/96	0.002	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.012	ND(0.001)	0.003	ND(0.006)	0.023
	01/24/97	0.002	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.019	ND(0.001)	0.004	ND(0.006)	0.032
	03/04/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.025	ND(0.001)	0.007	ND(0.006)	0.047
	04/09/97	0.001J	ND(0.001)	ND(0.002)	ND(0.002)	0.003	ND(0.002)	0.021	ND(0.002)	0.005	ND(0.008)	0.038
	07/30/97	ND(0.002)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.011	ND(0.007)	0.021
	10/17/97	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.007	ND(0.004)	0.011
	01/07/98	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.021	ND(0.003)	0.031
	04/15/98	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.028	ND(0.006)	0.039
	07/18/98	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.022	ND(0.005)	0.029
	10/28/98	0.001J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	0.015	ND(0.004)	0.020
MW-22	11/20/96	0.014	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.063	ND(0.001)	0.012	ND(0.053)	0.138
	01/24/97	0.010	ND(0.001)	ND(0.001)	ND(0.002)	0.009	ND(0.001)	0.065	ND(0.001)	0.013	ND(0.050)	0.137
	04/09/97	0.011	ND(0.001)	ND(0.001)	ND(0.002)	0.011	ND(0.001)	0.099	ND(0.001)	0.013	ND(0.065)	0.188
	07/30/97	0.013	ND(0.001)	ND(0.001)	ND(0.002)	0.014	ND(0.001)	0.084	ND(0.001)	0.021	ND(0.080)	0.199
	10/17/97	0.014	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.092	ND(0.002)	0.024	ND(0.104)	0.232
	01/07/98	0.016	ND(0.005)	ND(0.01)	ND(0.014)	0.014	ND(0.005)	0.107	ND(0.005)	0.028	ND(0.117)	0.266
	10/28/98	0.016	ND(0.01)	ND(0.02)	ND(0.02)	0.017	ND(0.01)	0.129	ND(0.01)	0.037	ND(0.150)	0.333
MW-23	11/20/96	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	04/09/97	ND(0.002)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)						
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/07/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-24	11/20/96	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLINES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	total halocarbons (mg/L)	total BTEX (mg/L)
MW-25	03/04/97	0.021	ND(0.001)	ND(0.001)	ND(0.001)	0.014	0.001	0.035	ND(0.001)	0.030	0.080	0.021	
	04/09/97	0.015	ND(0.001)	ND(0.001)	ND(0.001)	0.015	0.001J	0.035	ND(0.001)	0.006	0.076	0.015	
dup.	04/09/97	0.014	ND(0.001)	ND(0.001)	ND(0.002)	0.015	0.001J	0.034	ND(0.001)	0.005	0.073	0.014	
	07/30/97	0.023	ND(0.002)	ND(0.002)	ND(0.004)	0.011	0.001J	0.031	ND(0.002)	0.005	0.082	0.023	
	10/17/97	0.026	ND(0.002)	ND(0.002)	ND(0.004)	0.011	0.001J	0.027	ND(0.002)	0.004	0.035	0.026	
dup.	10/17/97	0.026	ND(0.002)	ND(0.002)	ND(0.004)	0.013	0.001J	0.028	ND(0.002)	0.004	0.028	0.026	
	01/07/98	0.027	ND(0.002)	ND(0.002)	ND(0.004)	0.014	0.001J	0.030	ND(0.002)	0.004	0.033	0.027	
	04/15/98	0.025	ND(0.002)	ND(0.002)	ND(0.004)	0.013	ND(0.002)	0.028	ND(0.002)	0.004	0.034	0.025	
	07/18/98	0.022	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.024	ND(0.002)	0.004	0.026	0.022	
	10/28/98	0.030	ND(0.002)	ND(0.004)	ND(0.004)	0.012	ND(0.002)	0.030	ND(0.002)	0.005	0.038	0.030	
MW-26	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
dup.	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	0.000
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.009	0.000
	01/07/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.009	0.000
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.014	0.000
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.030	0.000
	10/27/98	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	0.003	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.030	0.000
dup.	10/27/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	0.003	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.027	0.000
MW-27	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	01/07/98	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
MW-28	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000
MW-29	04/15/98	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000
	07/18/98	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.000	0.000
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.000	0.000

**TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
DOWELL, ARTESIA, NEW MEXICO**

WELL NUMBER	SAMPLE DATE	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	total halocarbons (mg/L)	total BTEX (mg/L)
MW-30	04/15/98	ND(0.002)	ND(0.002)	ND(0.004)	0.002J	ND(0.002)	0.002J	ND(0.002)	ND(0.002)	0.002	0.002	0.000
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.000	ND(0.001)	ND(0.001)	ND(0.001)	0.001	0.003	0.000
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	0.002	0.005	0.000
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	0.003	0.006	0.000

Analytical method used prior to 10/95 = EPA Method 8240

Analytical method used during and after 10/95 = EPA Method 8260

NOTES:

mg/L = milligrams per liter (equivalent to parts per million)

dup. = duplicate sample

ND(0.001) = chemical not detected at concentration above detection limit shown in parentheses

J = chemical detected at concentration above instrument detection limit but below method detection limit

* = other chemicals also detected (see previous laboratory reports)

= other chemicals also detected (see laboratory analytical reports - Appendix A)

CHEMICAL ABBREVIATIONS:

1,1-DCA = 1,1-dichloroethane

1,2-DCA = 1,2-dichloroethane

1,1-DCE = 1,1-dichloroethene

1,1,1-TCA = 1,1,1-trichloroethane

1,1,2-TCA = 1,1,2-trichloroethane

TCE = trichloroethylene

PCE = tetrachloroethylene

Table 3. Field Parameters at the Dowell, a division of Schlumberger Technology Corporation Facility Artesia, New Mexico

Location	Date	pH standard	Conductivity uM/cm	Temperture Celcius	Salinity %
MW-2	10/28/98	7.28	1490	20.30	0.06
MW-3	10/28/98	6.49	6330	19.40	0.33
MW-4	10/28/98	7.41	1350	21.50	0.06
MW-5	10/28/98	7.37	1430	19.70	0.06
MW-6	10/28/98	7.21	3900	18.90	0.19
MW-7	10/28/98	6.81	7190	18.50	0.38
MW-8	10/28/98	7.12	4240	18.90	0.21
MW-9	10/28/98	6.82	3990	19.30	0.20
MW-10	10/28/98	7.19	4030	18.50	0.20
MW-11	10/28/98	6.56	7770	19.00	0.42
MW-12	10/28/98	6.53	5560	19.10	0.29
MW-13	10/28/98	7.19	2180	20.40	0.10
MW-14	10/28/98	7.15	3660	19.70	0.18
MW-15	10/28/98	6.67	5100	20.20	0.26
MW-17A	10/28/98	6.82	5410	19.30	0.28
MW-17B	10/28/98	6.89	5690	19.30	0.30
MW-17C	10/28/98	6.23	14800	18.90	0.86
MW-17D	10/28/98	6.75	5730	19.40	0.30

Table 3. Field Parameters at the Dowell, a division of Schlumberger Technology Corporation Facility Artesia, New Mexico

Location	Date	pH standard	Conductivity uM/cm	Temperture Celcius	Salinity %
MW-18	10/28/98	6.81	6300	18.40	0.33
MW-19	10/28/98	7.05	6500	18.90	0.34
MW-20	10/28/98	7.11	3930	18.60	0.20
MW-21	10/28/98	7.19	3960	19.10	0.20
MW-22	10/28/98	7.03	5910	19.50	0.34
MW-23	10/28/98	7.12	4270	18.80	0.21
MW-24	10/28/98	7.23	3050	18.30	0.16
MW-25	10/28/98	7.15	4890	19.40	0.25
MW-26	10/28/98	7.06	3420	18.20	0.18
MW-27	10/28/98	7.17	3570	17.80	0.17
MW-28	10/28/98	7.15	4140	18.00	0.21
MW-29	10/28/98	7.25	4740	18.20	0.24
MW-30	10/28/98	7.15	4030	18.20	0.20

Note: MW-1 could not be located
uM/cm = micro moses per centimeter

TABLE 4. OPERATIONAL CONDITIONS, MAINTENANCE SHOP SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO

SAMPLE DATE	HOUR METER	VACUUM (inches of water)					
		ZONE 1 MANIFOLD	ZONE 1 BLOWER	ZONE 2 MANIFOLD	ZONE 2 BLOWER	ALL ZONES	
						MANIFOLD	BLOWER
01/31/94	0.0						
02/01/94	5.1	44	48	48	50		
02/02/94	23.2			48	50		
02/03/94	47.8			41	46		
02/10/94	219.4			43	45		
02/16/94	362.1	30	35				
02/23/94	531.0			37	41		
03/04/94	748.6	27	32				
03/11/94	915.3			37	41		
03/18/94	1086.1	28	33				
03/28/94	1325.8	29	34				
04/08/94	1583.0			38	42		
04/19/94	1857.6	31	36	33	38		
05/06/94	2256.0	46	48	48	51		
05/18/94				47	49		
06/01/94				51	53		
06/16/94	3099.9	49	52	48	51		
07/06/94	3100.1	50	52	47	49		
07/21/94	3457.6	44	49	52	54		
08/09/94	3899.9	51	54	49	52		
09/07/94	4093.7	48	50	48	49		
09/30/94	4647.1	52	54	49	51		
10/11/94	4911.1	53	55	48	51		
11/03/94	5445.6	58	60	54	57		
12/05/94	6204.9	57	62	57	61		
01/25/95	7397.0	59	62	54	60		
04/05/95	9047.5	50	65	47	58		
05/09/95	9838.5	55	64	50	60		
06/18/95	10783.6	54	63	50	60		
07/11/95	11325.9	54	63	53	63		
10/18/95	13443.2	55	65	56	65		
11/15/95	14119.8	54	65 (60+)	54	65 (60+)		
11/30/95	14445.3	53	60+	54	60+		
01/11/96	15099.6			54	70		
06/17/96	15230.1	51	70	53	70		
07/24/96	16114.7	54	70	51	70		
10/22/96	18271.5	57	70	56	70		
04/09/97	21364.3					55	56
07/29/97	24000.6					39	54
10/17/97	24722.7					55	53
01/06/98	26658.9					58	60
04/15/98	29030.7					52	55
07/18/98	31234.2					54	55
10/28/98						49	54

**TABLE 5. OPERATIONAL CONDITIONS, WASH BAY SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO**

SAMPLE DATE	HOUR METER	VACUUM (inches of water)					
		ZONE 1 MANIFOLD	ZONE 1 BLOWER	ZONE 2 MANIFOLD	ZONE 2 BLOWER	ZONE 3 MANIFOLD	ZONE 3 BLOWER
01/31/94	0.0						
02/01/94	5.3	43	44	41	42	43	44
02/02/94	20.6	40	42				
02/03/94	45.3	38	42			43	45
02/10/94	217.7	34	38				
02/16/94	359.7					41	43
02/23/94	528.5					39	42
03/04/94	746.2	32	36				
03/11/94	912.0					39	40
03/18/94	1083.9			33	37		
03/28/94	1322.8	32	36				
04/08/94	1581.2			32	36		
04/19/94	1855.2	31	34	33	36	35	38
05/06/94	2253.8	41	44	45	46	43	44
05/18/94						43	44
06/01/94		44	44				
06/16/94	3241.2	44	45	46	47	46	47
07/06/94	3712.1	43	44	44	45	45	45
07/21/94	3858.3	43	45	48	48	50	51
08/09/94	3859.7	43	44	45	46	45	46
09/07/94	4519.5	44	45	46	47		
09/30/94	5073.4	44	47	44	46	49	50
10/11/94	5328.8	48	50	41	44	48	50
11/03/94	5864.3	39	43	57	58	58	58
12/05/94	6546.8	57	58	57	58	58	59
01/25/95	7738.0	45	50	58	58	60	58

Note: In April 1995, the wash bay SVE system was expanded. Each of the three zones now has a south (S) and a north (N) subzone.

SAMPLE DATE	HOUR METER	VACUUM (inches of water)					
		ZONE 1 MANIFOLD	ZONE 1 BLOWER	ZONE 2 MANIFOLD	ZONE 2 BLOWER	ZONE 3 MANIFOLD	ZONE 3 BLOWER
04/05/95	8682.1	(S)42 (N)40	44	(S)54 (N)52	48	(S)55 (N)55	48
05/09/95	9489.0	(S)47 (N)45	42				
06/18/95	10424.0	(S)26 (N)25	30	(S)44 (N)42	44	(S)58 (N)53	38
07/11/95	10483.6	(S)42 (N)40	40	(S)43 (N)40	40	(S)45 (N)42	41

**TABLE 5. OPERATIONAL CONDITIONS, WASH BAY SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO**

Note: Beginning in October 1995, vacuum was measured on the combined south subzones of Zones 1,2, and 3, and on the combined north subzones.

SAMPLE DATE	HOUR METER	BLOWER	VACUUM (<i>inches of water</i>)	
			MANIFOLD (Zones 1,2,3 combined)	NORTH SUBZONES
10/20/95	11774.0	46	60	57
11/15/95	12404.2	35	34	26
11/30/95	12756.7	37	35	35
01/11/96	13742.0	42	44	29
07/24/96	18411.0	39	56	42
10/22/96	20572.9	49	41	35
04/09/97	24621.7	41	33	28
07/30/97	27308.7	65	20	18
10/17/97	29169.7	65	20	19
01/06/98	31106.3	59	39	34
04/15/98	33462	60+	32	25
07/18/98	35702.2	60+	40	42
10/28/98	38125.5	60+	22	22

**TABLE 6. PID READINGS - VOLATILE ORGANIC COMPOUNDS,
MAINTENANCE SHOP SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO**

SAMPLE DATE	HOUR METER	PID READING (ppm)			
		EXHAUST	ZONE 1	ZONE 2	ALL ZONES
02/03/94	47.8	0	4	35	
02/10/94	219.4	0	1	12	
02/16/94	362.1	0	1	6	
02/23/94	531.0	3	3	8	
03/04/94	748.6	0	1	6	
03/11/94	915.3	3	3	7	
03/18/94	1086.1	0	0	2	
03/28/94	1325.8	0	0	2	
04/08/94	1583.0	0	0	3.5	
05/18/94	—	0	—	—	
07/06/94	3100.1	0	0	0	
07/21/94	3457.6	0	0	0	
08/09/94	3899.9	0	0	1	
09/06/94	4093.7	0	0	1	
09/30/94	4647.1	0	0.5	1	
10/11/94	4911.1	3	1.8	1	
11/03/94	5445.6	22	4.5	6.3	
12/05/94	6204.9	4	2	5	
01/25/95	7397.0	11	0	50	
04/05/95	9047.5	21	5	5	
05/09/95	9838.5	1.4	0	3	
06/18/95	10783.6	3.6	6	8	
07/11/95	11325.9	1.6	2	2	
10/18/95	14119.8	0.6	0.2	0.8	
11/15/95	14445.2	2	1	1	
01/11/96	15099.6	—	0.2	2.3	
06/17/96	15230.1	—	0.5	3.0	
07/24/96	16114.7	2.8	7.3	11.9	
10/22/96	18271.5	2.9	2.7	4.3	
04/09/97	21364.3				1
07/30/97	24000.6				0
10/17/97	24722.7				0
01/07/98	26658.9	0			0
04/15/98	29030.7	0			0
07/18/98	31234.2	0			0
10/28/98		0			0

NOTES:

PID = photoionization detector

ppm = parts per million

— = no data available

TABLE 7. PID READINGS - VOLATILE ORGANIC COMPOUNDS,
WASH BAY SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO

SAMPLE DATE	HOUR METER	EXHAUST	PID READING (ppm)	ZONE 1	ZONE 2	ZONE 3
02/03/94	45.3	2	84	110	180	
02/10/94	217.7	0	56	69	137	
02/16/94	359.7	0	23	37	133	
02/23/94	528.5	3	22	54	118	
03/04/94	746.2	3	42	46	91	
03/11/94	912.0	7	44	42	93	
03/18/94	1083.9	40	33	44	77	
03/28/94	1322.8	18	26	13	21	
04/08/94	1581.2	7	29	39	67	
05/18/94	0					
07/06/94	3712.1	1	24	66	135	
07/21/94	3858.2	0	110	48	71	
08/09/94	3859.7	1	31	67	126	
09/06/94	4519.5	0	29	40	79	
09/30/94	5073.4	44	33/51	69/133	95/161	
10/11/94	5328.8	7	43	78	118	
11/03/94	5864.3	8	151	434	745	
12/05/94	6546.3	4	30	152	240	
01/25/95	7738.0	2	35	200	220	

Continued on next page

TABLE 7.
WASH BAY SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO

Note In April 1995, the wash bay SVE system was expanded.
 Each of the three zones now has an old south (S) and a new north (N) subzone.

SAMPLE DATE	HOUR METER	PID EXHAUST	PID READING (ppm)	ZONE 1	ZONE 2	ZONE 3	COMMENTS
04/05/95	8682.1	0	46 (S)51 (N)218	119 (S)347 (N)125	199 (S)419 (N)408		combined north and south zones
04/06/95		0	62 (S)92 (N)301	156 (S)348 (N)567	194 (S)256 (N)767		combined north and south zones
05/09/95	9473.1	151	24 (S)42 (N)126	78 (S)125 (N)337	80 (S)217 (N)480		combined north and south zones
06/18/95	10418.5	78	23 (S)35 (N)153	122 (S)90 (N)267	168 (S)238 (N)368		combined north and south zones
07/11/95	10483.6	0	15 (S)5 (N)48	28 (S)48 (N)78	48 (S)65 (N)84		combined N/S subzones (with makeup air) no makeup air
10/20/95	11774.0	2		660 (S)100 (N)480	(S)560 (N)800		no makeup air combined Zones 1,2,3 (no makeup air) 0.5 hours after system startup
11/15/95	12404.2	341		313 (S)121 (N)203	313 (S)420 (N)640		0.5 hours after system startup combined Zones 1,2,3 (with makeup air) combined Zones 1,2,3 (no makeup air)
				392 (S)171 (N)448	(S)177 (N)406		with makeup air with makeup air no makeup air no makeup air
01/11/96	13742.0			124 (S)84 (N)37	(S)75 (N)112		combined - all zones (N)119

TABLE 7. PID READINGS - VOLATILE ORGANIC COMPOUNDS,
WASH BAY SVE SYSTEM,
DOWELL, ARTESIA, NEW MEXICO

SAMPLE DATE	HOUR METER	PID READING (ppm)			COMMENTS
		EXHAUST	ZONE 1	ZONE 2	ZONE 3
06/17/96				212	combined - all zones
07/24/96				156	combined - all zones
10/22/96				163	combined - all zones
04/09/97			29	38.9	combined - all zones
07/29/97				63	combined - all zones
10/17/97			18	20.5	combined - all zones
01/06/98	31106.3		15	14.4	combined - all zones
04/15/98	33462	0		8	combined - all zones
07/18/98	35702	35.7		38.7	combined - all zones
10/28/98	38125.5	32		41	combined - all zones

**SUMMARY OF LABORATORY ANALYTICAL - SVE SOIL VAPOR SAMPLES,
MAINTENANCE SHOP AND WASH BAY SVE SYSTEMS,
DOWELL, ARTESIA, NEW MEXICO**

TABLE 8.

**SUMMARY OF LABORATORY ANALYTICAL - SVE SOIL VAPOR SAMPLES,
MAINTENANCE SHOP AND WASH BAY SVE SYSTEMS,
DOWELL, ARTESIA, NEW MEXICO**

SVE ZONE	SAMPLE DATE	BENZENE (mg/m ³)	ETHYL-BENZENE (mg/m ³)	TOLUENE (mg/m ³)	XYLENES (mg/m ³)	1,1-DCA (mg/m ³)	1,2-DCA (mg/m ³)	1,1-DCE (mg/m ³)	1,1,1-TCA (mg/m ³)	1,1,2-TCA (mg/m ³)	TCE (mg/m ³)	PCE (mg/m ³)	² -BUTANONE (mg/m ³)	
WB-1 Cont.	04/08/94	ND(0.5)	ND(0.5)	4.60	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	04/20/94	ND(0.5)	ND(0.5)	5.90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	05/05/94	ND(0.5)	1.10	5.80	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)
	05/18/94	ND(0.5)	0.80	ND(1)	8.40	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	06/01/94	ND(1)	3.00	6.00	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	07/06/94	ND(1)	5.00	1.00	11.00	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
:	08/10/94	NA	NA	NA	NA	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	09/07/94	ND(0.001)	0.24	0.09	0.61	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	12/05/94	ND(0.001)	0.19	0.14	NA	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	NA
:	01/25/95	ND(0.04)	0.16	0.12	1.19	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)
	05/09/95	ND(0.2)	0.78	0.80	8.24	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
WB-2	02/11/94	1.67	5.03	10.13	14.90	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)
	02/16/94	ND(1)	3.00	4.80	29.90	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)
	02/23/94	1.40	9.30	16.40	53.20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/04/94	ND(0.5)	5.30	9.50	39.70	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/11/94	ND(0.5)	5.40	10.90	23.20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/18/94	0.70	4.80	9.60	28.10	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/28/94	ND(0.5)	1.90	3.50	12.80	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	04/08/94	ND(0.5)	1.10	1.50	8.40	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	04/20/94	ND(0.5)	4.10	5.80	27.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	05/06/94	ND(0.5)	3.70	4.50	30.00	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	05/18/94	ND(0.5)	5.30	6.00	44.20	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	06/01/94	ND(1)	7.00	ND(1)	15.00	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	07/06/94	ND(1)	5.00	8.00	42.00	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
:	08/10/94	NA	NA	NA	NA	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	09/07/94	ND(0.001)	0.45	0.41	4.12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	12/05/94	0.24	1.40	1.66	NA	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	01/25/95	ND(0.04)	0.69	0.91	10.67	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)
	05/09/95	ND(0.2)	0.91	5.44	14.67	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
WB-3	02/03/94	5.50	22.00	78.00	153.00	1.20	ND(0.5)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)
	02/10/94	ND(1)	15.60	64.60	46.90	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)
	02/16/94	ND(1)	25.70	44.50	73.20	99.10	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	02/23/94	3.50	17.50	60.90	44.90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/04/94	2.10	10.60	14.30	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/11/94	ND(0.5)	13.30	38.30	57.20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/18/94	ND(0.5)	10.10	21.40	30.80	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	03/28/94	1.20	5.70	2.40	9.40	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	04/08/94	ND(0.5)	1.50	10.60	27.60	31.80	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	04/20/94	ND(0.5)	10.60	17.50	38.90	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	05/06/94	ND(0.5)	6.80	8.10	43.90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	05/18/94	ND(1)	4.00	7.00	34.00	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
	06/01/94	ND(1)	11.00	22.00	73.00	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	08/10/94	NA	NA	NA	NA	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
:	09/07/94	ND(0.001)	1.35	2.90	10.32	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)
:	12/05/94	0.54	2.62	5.86	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
:	01/25/95	0.08	2.75	1.49	23.23	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
	05/09/95	ND(0.2)	2.30	5.00	25.72	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)

TABLE 8. SUMMARY OF LABORATORY ANALYTICAL - SVE SOIL VAPOR SAMPLES,
MAINTENANCE SHOP AND WASH BAY SVE SYSTEMS,
DOWELL, ARTESIA, NEW MEXICO

SVE ZONE	SAMPLE DATE	BENZENE (mg/m ³)	ETHYL BENZENE (mg/m ³)	TOLUENE (mg/m ³)	XYLINES (mg/m ³)	1,1-DCA (mg/m ³)	1,2-DCA (mg/m ³)	1,1-DCE (mg/m ³)	1,1,1-TCA (mg/m ³)	1,1,2-TCA (mg/m ³)	TCE (mg/m ³)	PCE (mg/m ³)	2-BUTANONE (mg/m ³)
WB-N1	05/09/95	1.27	5.43	19.70	80.19	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
WB-N2	05/09/95	2.13	5.57	22.50	51.92	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
WB-N3	05/09/95	0.58	2.38	8.08	18.57	ND(0.2)	ND(0.2)	0.23	ND(0.2)	ND(0.2)	ND(0.2)	0.60	ND(0.2)
WB-COMP	10/20/95	1.03	9.38	18.30	90.90	ND(0.2)	ND(0.2)	0.26	4.41	ND(0.2)	ND(0.2)	2.38	ND(0.2)
	07/24/96	ND(0.3)	0.40	1.00	5.20	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	NA	NA
	10/22/96	ND(0.2)	0.68	0.70	12.93	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.23	ND(0.2)
	01/21/97	ND(1.0)	ND(1.0)	ND(1.0)	5.41	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	NA
	04/09/97	ND(1.0)	ND(1.0)	ND(1.0)	3.75	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	NA
	07/29/97	ND(1.0)	ND(1.0)	ND(1.0)	10.07	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	NA
	01/07/98	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	04/15/98	ND(1.0)	ND(1.0)	ND(1.0)	1.17	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	07/15/98	ND(1.0)	ND(1.0)	ND(1.0)	7.69	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	10/28/98	ND(5.0)	ND(5.0)	ND(5.0)	14.35	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)

Prior to January 1995, the laboratory analytical method used was EPA Method 8240. During and after January 1995, the laboratory analytical method used was EPA Method 8260. See laboratory reports for concentrations of additional analytes.

In April 1995, the wash bay SVE system was expanded. Each of the three zones now consists of an old south (S) and a new north (N) zone.

NOTES:

mg/m³ = milligrams per cubic meter

* = units reported as "ppm" or "mg/L". Detection limit may be incorrect.

J = chemical present above instrument detection limit but below method detection limit

NA = not analyzed

MS = Maintenance Shop SVE system

WB = Wash Bay SVE system

WB-N1 = north subzone of Wash Bay Zone 1

WB-N2 = north subzone of Wash Bay Zone 2

WB-N3 = north subzone of Wash Bay Zone 3

WB-COMP = composite sample from Wash Bay zones 1, 2, and 3

MS-COMP = composite sample from Maintenance Shop zones 1 and 2

CHEMICAL ABBREVIATIONS:

1,1-DCA = 1,1-dichloroethane

1,2-DCA = 1,2-dichloroethane

1,1-DCE = 1,1-dichloroethane

1,1,1-TCA = 1,1,1-trichloroethane

1,1,2-TCA = 1,1,2-trichloroethane

TCE = trichloroethylene

PCE = tetrachloroethylene

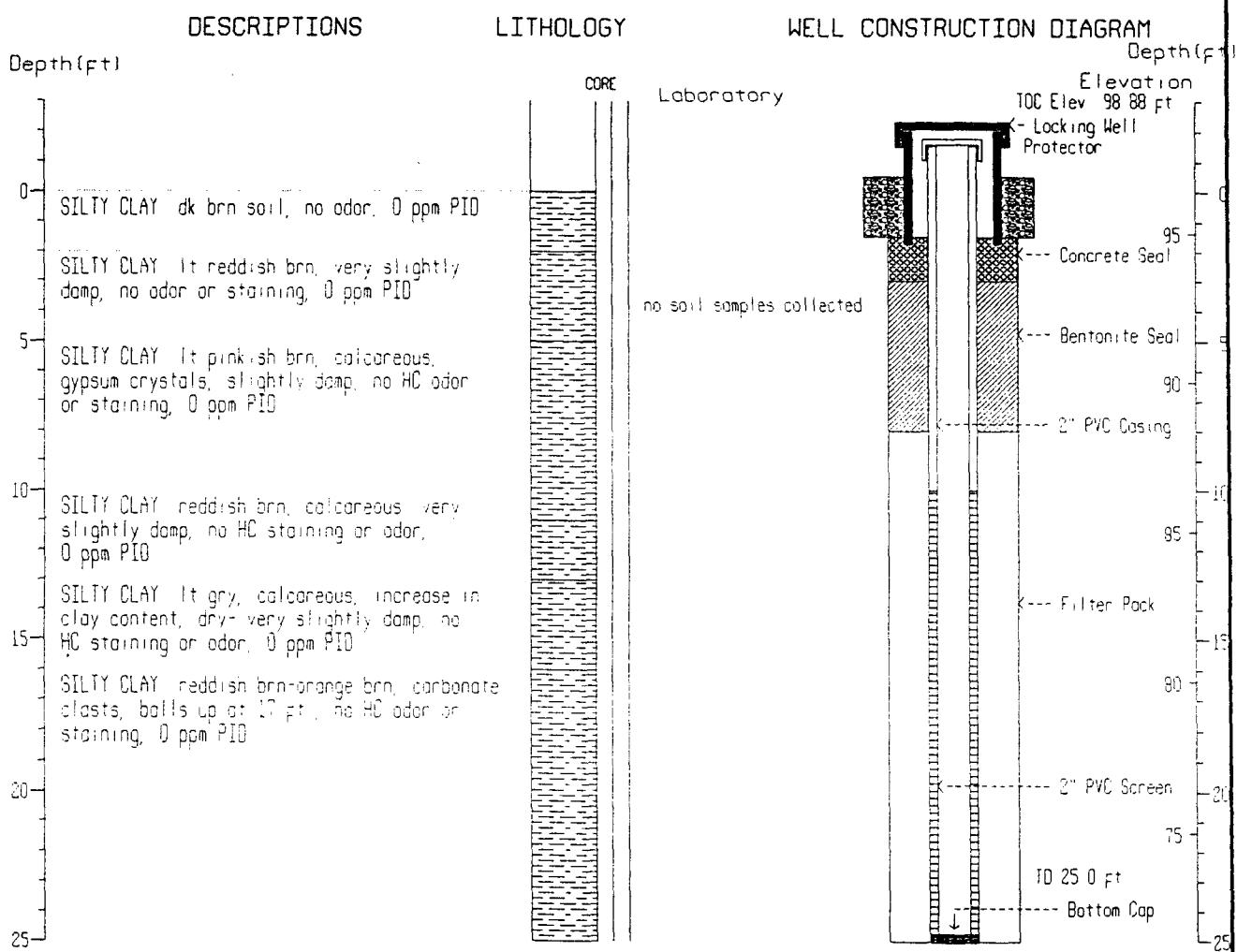
APPENDIX A

Lithologic Logs and Well Completion Diagrams

MONITORING WELL MW-28

LOCATION Dowell Schlumberger, Artesia, New Mexico
 Along property line fence north of MW-25
 T17S, R26E, Sec 4, NE 1/4, SW 1/4
 LOG Western Water Consultants Inc (Kevin Mattson)
 DRILLER Scarborough Drilling (Lane Scarborough)
 STATE ENGINEER NO NA
 INSTALLATION DATE April 14, 1998

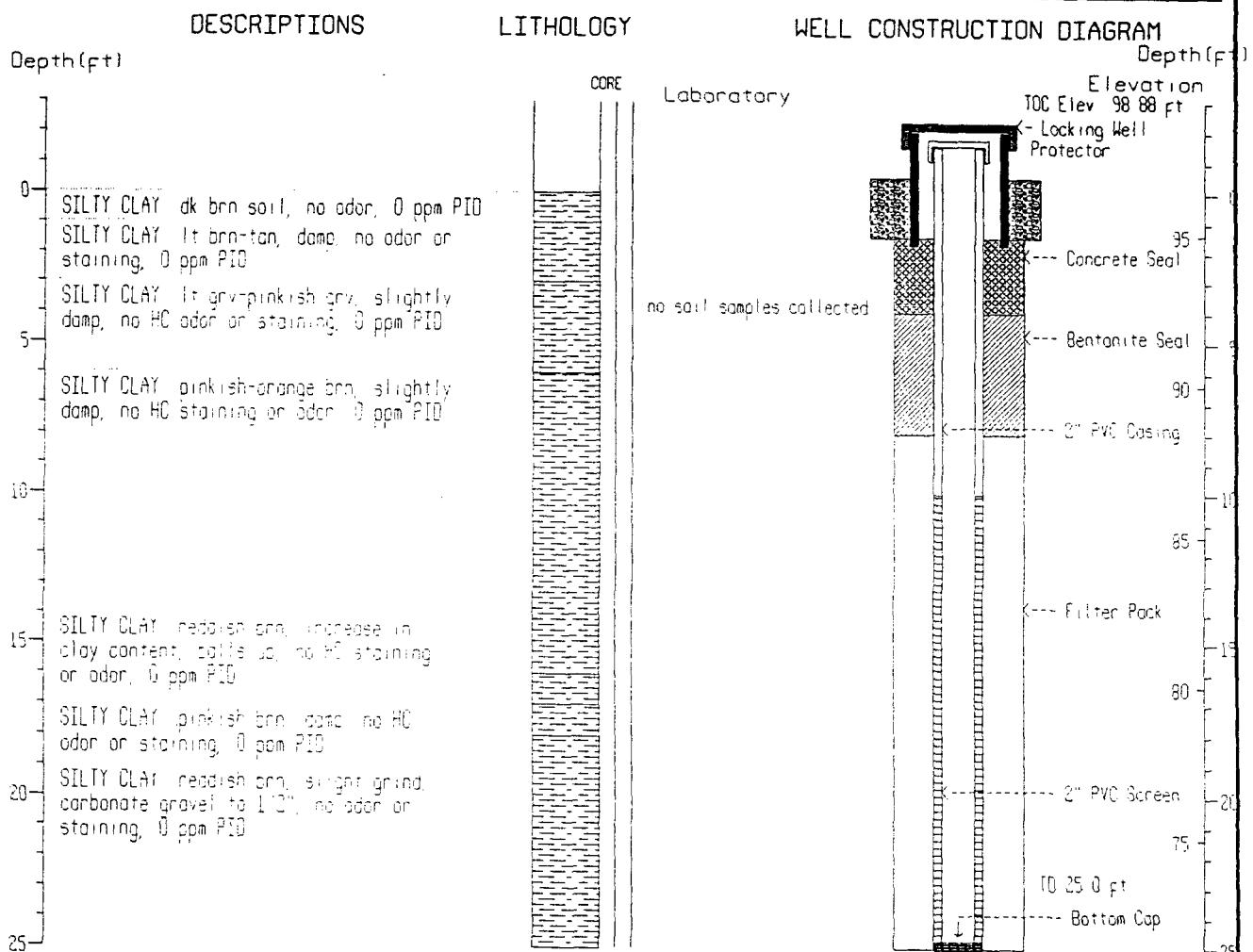
WELL OWNER Dowell Schlumberger Inc (JN 90-125)
 DRILLING METHOD Air Rotary, 5 1/4" OD
 CASING 2" Dia Flush Joint Sch 40 PVC
 SCREEN Slotted Casing, 0.020 Inch Slots
 FILTER PACK 8/16 Mesh Silica Sand
 WATER TABLE ELEVATION NA
 (Reference Datum Arbitrary = 100.00 feet)



MONITORING WELL MW-29

LOCATION Dowell Schlumberger, Artesia, New Mexico
 Northeast corner of Kiddy property
 T17S, R26E, Sec 4, NE 1/4, SW 1/4
 LOG Western Water Consultants Inc (Kevin Mottson)
 DRILLER Scarborough Drilling (Lane Scarborough)
 STATE ENGINEER NO NA
 INSTALLATION DATE April 14, 1998

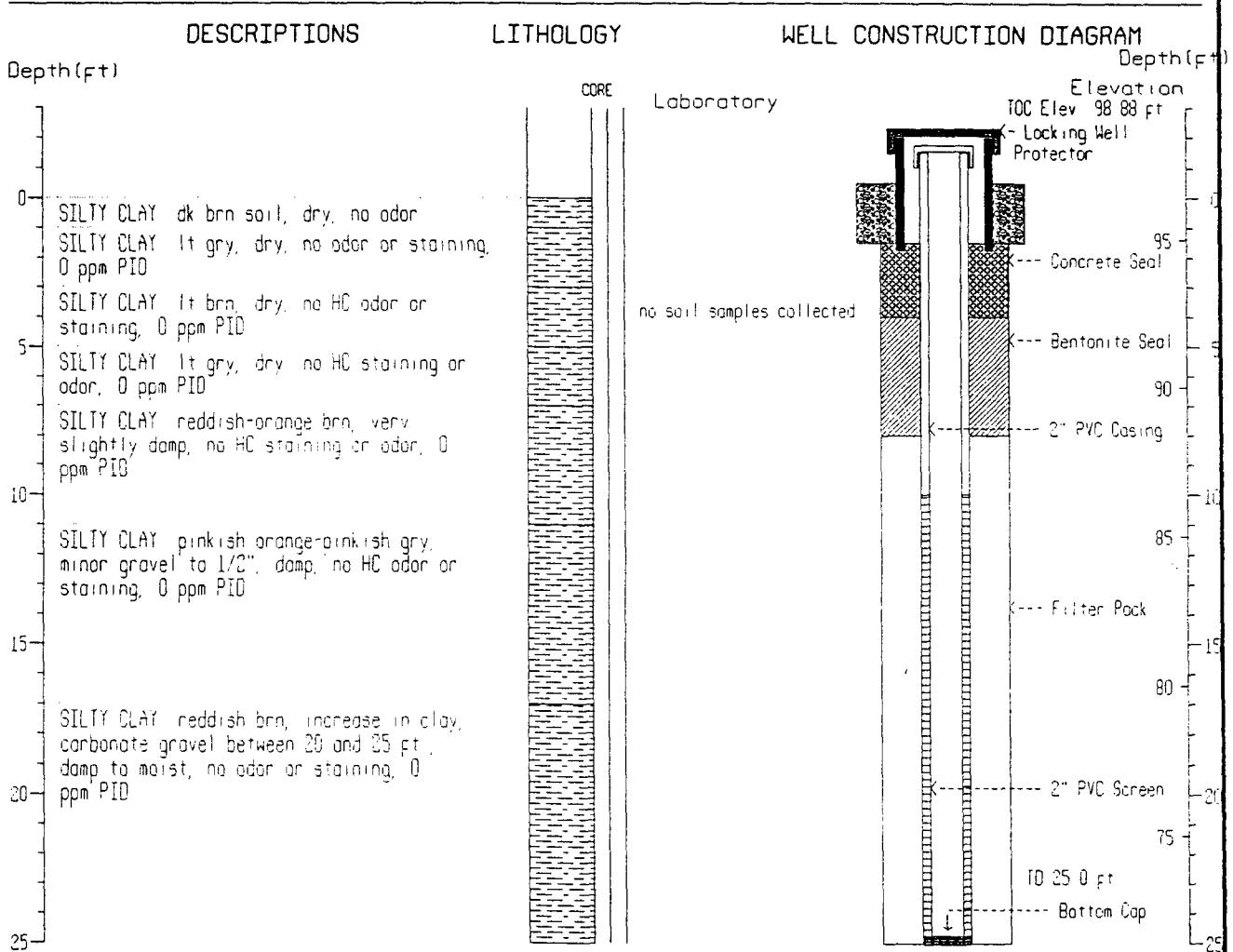
WELL OWNER Dowell Schlumberger Inc (JN 90-125)
 DRILLING METHOD Air Rotary, 5 1/4" OD
 CASING 2" Dia Flush Joint Sch 40 PVC
 SCREEN Slotted Casing, 0.020 Inch Slots
 FILTER PACK 8/16 Mesh Silica Sand
 WATER TABLE ELEVATION NA
 (Reference Datum Arbitrary = 100.00 feet)



MONITORING WELL MW-30

LOCATION Dowell Schlumberger, Artesia, New Mexico
 North of MW-26
 T17S, R26E, Sec 4, NE 1/4, SW 1/4
 LOG Western Water Consultants Inc (Kevin Mattson)
 DRILLER Scarborough Drilling (Lane Scarborough)
 STATE ENGINEER NO NA
 INSTALLATION DATE April 14, 1998

WELL OWNER Dowell Schlumberger Inc (JN 30-125)
 DRILLING METHOD Air Rotary, 5 1/4" DD
 CASING 2" Dia Flush Joint Sch 40 PVC
 SCREEN Slotted Casing, 0.020 Inch Slots
 FILTER PACK 8/16 Mesh Silica Sand
 WATER TABLE ELEVATION NA
 (Reference Datum Arbitrary = 100.00 feet)



APPENDIX B

Laboratory Data Sheets



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: **Western Water Consultants**
Project: 90-125L
Sample ID: 90125-2.10/98 MW-2
Laboratory ID: C98-65778
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 15:45
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorodifluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	ND	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	ND	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	1.56	J
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	10.9	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	54.0	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	34.5	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	30.7	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-2.10/98
 Laboratory ID: C98-65778

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-2

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF
			DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	9.44	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	15.8	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	12.1	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	2.88	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1508828	1405590	107%	50 - 200 %
Fluorobenzene	2949478	2889924	102%	50 - 200 %
1,4 - Difluorobenzene	2331779	2258355	103%	50 - 200 %
Chlorobenzene - d5	1654376	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	612663	610450	100%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.11	91.1%	86 - 118 %
Toluene - d8	9.98	99.8%	88 - 110 %
4 - Bromofluorobenzene	9.23	92.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-A.10/98
Laboratory ID: C98-65809
Matrix: Water
Dilution Factor: 5

*sampled
MW-2*

Date Sampled: 10/28/98
Time Sampled: 16:15
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	ND	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	ND	5.0
78-93-3	2 -Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	ND	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	12.3	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	60.8	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	43.4	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 90125-A.10/98
Laboratory ID: C98-65809

Date Sampled: 10/28/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

Duplicate
M.W.-2

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	11.5	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	20.4	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	16.3	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1324531	1405590	94.2%	50 - 200 %
Fluorobenzene	2709184	2889924	93.7%	50 - 200 %
1,4 - Difluorobenzene	2200879	2258355	97.5%	50 - 200 %
Chlorobenzene - d5	1572373	1555909	101%	50 - 200 %
1,4 - Dichlorobenzene - d4	525904	610450	86.2%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.99	99.9%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	8.98	89.8%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.5	105%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-3.10/98
Laboratory ID: C98-65779
Matrix: Water
Dilution Factor: 20

Date Sampled: 10/28/98
Time Sampled: 13:10
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-3

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	20.0
74-87-3	Chloromethane	ND	20.0
75-01-4	Vinyl chloride (Chloroethene)	ND	20.0
74-83-9	Bromomethane	ND	20.0
75-00-3	Chloroethane	ND	20.0
75-69-4	Trichlorofluoromethane	ND	20.0
75-35-4	1,1 - Dichloroethene	29.0	20.0
75-09-2	Methylene chloride (Dichloromethane)	ND	20.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	20.0
75-34-3	1,1 - Dichloroethane	53.0	20.0
78-93-3	2 - Butanone (MEK)	ND	200
156-59-2	cis - 1,2 - Dichloroethene	11.8	J 20.0
74-97-5	Bromoform (Trichloromethane)	ND	20.0
67-66-3	Chloroform (Trichloromethane)	ND	20.0
594-20-7	2,2 - Dichloropropane	ND	20.0
71-55-6	1,1,1 - Trichloroethane	ND	20.0
107-06-2	1,2 - Dichloroethane	ND	20.0
563-58-6	1,1 - Dichloropropene	ND	20.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	20.0
71-43-2	Benzene	15.6	J 20.0
74-95-3	Dibromomethane	ND	20.0
78-87-5	1,2 - Dichloropropane	ND	20.0
79-01-6	Trichloroethene	56.4	20.0
75-27-4	Bromodichloromethane	ND	20.0
10061-01-5	<i>cis</i> - 1,3 - Dichloropropene	ND	20.0
10061-02-6	<i>trans</i> - 1,3 - Dichloropropene	ND	20.0
79-00-5	1,1,2 - Trichloroethane	ND	20.0
108-88-3	Toluene	ND	20.0
106-93-4	1,2 - Dibromoethane	ND	20.0
142-28-9	1,3 - Dichloropropane	ND	20.0
124-48-1	Dibromochloromethane	ND	20.0
127-18-4	Tetrachloroethene	28.8	20.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	20.0
108-90-7	Chlorobenzene	ND	20.0
100-41-4	Ethylbenzene	187	20.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	528	40.0
75-25-2	Bromoform (Tribromomethane)	ND	20.0
100-42-5	Styrene (Ethenylbenzene)	ND	20.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	711	20.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	20.0
96-18-4	1,2,3 - Trichloropropane	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-3.10/98
 Laboratory ID: C98-65779

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	162	20.0
108-86-1	Bromobenzene	ND	20.0
103-65-1	n - Propylbenzene	285	20.0
95-49-8	2 - Chlorotoluene	ND	20.0
106-43-4	4 - Chlorotoluene	ND	20.0
108-67-8	1,3,5 - Trimethylbenzene	ND	20.0
98-06-6	tert - Butylbenzene	ND	20.0
95-63-6	1,2,4 - Trimethylbenzene	1,160	20.0
135-98-8	sec - Butylbenzene	ND	20.0
541-73-1	1,3 - Dichlorobenzene	ND	20.0
106-46-7	1,4 - Dichlorobenzene	ND	20.0
99-87-6	4-Isopropyltoluene	ND	20.0
95-50-1	1,2 - Dichlorobenzene	ND	20.0
104-51-8	n - Butylbenzene	29.4	20.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	100
120-82-1	1,2,4 - Trichlorobenzene	ND	20.0
91-20-3	Naphthalene	104	20.0
87-68-3	Hexachlorobutadiene	ND	20.0
87-61-6	1,2,3 - Trichlorobenzene	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1511048	1405590	108%	50 - 200 %
Fluorobenzene	2936646	2889924	102%	50 - 200 %
1,4 - Difluorobenzene	2311809	2258355	102%	50 - 200 %
Chlorobenzene - d5	1650583	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	613865	610450	101%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.01	90.1%	86 - 118 %
Toluene - d8	10.9	109%	88 - 110 %
4 - Bromofluorobenzene	9.18	91.8%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-4.10/98
Laboratory ID: C98-65780
Matrix: Water
Dilution Factor: 2

MW-A

Date Sampled: 10/28/98
Time Sampled: 15:30
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorodifluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	ND	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	ND	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromoform (Trichloromethane)	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	ND	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	ND	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-4.10/98
 Laboratory ID: C98-65780

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1430857	1405590	102%	50 - 200 %
Fluorobenzene	2887479	2889924	99.9%	50 - 200 %
1,4 - Difluorobenzene	2278090	2258355	101%	50 - 200 %
Chlorobenzene - d5	1600349	1555909	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	597083	610450	97.8%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.35	93.5%	86 - 118 %
Toluene - d8	10.0	100%	88 - 110 %
4 - Bromofluorobenzene	9.59	95.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-5.10/98
Laboratory ID: C98-65781
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 15:35
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-S

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	ND	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	ND	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromoform (Trichloromethane)	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	5.64	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	5.64	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	27.0	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	8.70	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-5.10/98
 Laboratory ID: C98-65781

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	8.78	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	12.4	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	7.18	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1481441	1405590	105%	50 - 200 %
Fluorobenzene	2876189	2889924	99.5%	50 - 200 %
1,4 - Difluorobenzene	2307474	2258355	102%	50 - 200 %
Chlorobenzene - d5	1630957	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	636429	610450	104%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.19	91.9%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.51	95.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-6.10/98
Laboratory ID: C98-65782
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 14:30
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

mw-6

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	15.7	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	7.02	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	ND	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	7.66	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-6.10/98
 Laboratory ID: C98-65782

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1479364	1405590	105%	50 - 200 %
Fluorobenzene	2929590	2889924	101%	50 - 200 %
1,4 - Difluorobenzene	2297670	2258355	102%	50 - 200 %
Chlorobenzene - d5	1645561	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	611644	610450	100%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.21	92.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.21	92.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-7.10/98
Laboratory ID: C98-65783
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 14:35
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-7

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	193	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	24.4	10.0
78-93-3	2 -Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	4.10	J 10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	31.0	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	251	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-7.10/98
 Laboratory ID: C98-65783

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1476730	1405590	105%	50 - 200 %
Fluorobenzene	2807374	2889924	97.1%	50 - 200 %
1,4 - Difluorobenzene	2286303	2258355	101%	50 - 200 %
Chlorobenzene - d5	1629985	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	591631	610450	96.9%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.41	94.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.05	90.5%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-8.10/98
Laboratory ID: C98-65784
Matrix: Water
Dilution Factor: 5

MW-S

Date Sampled: 10/28/98
Time Sampled: 14:40
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	111	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	3.15	J 5.0
78-93-3	2 - Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	ND	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	9.75	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-8.10/98
 Laboratory ID: C98-65784

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1382830	1405590	98.4%	50 - 200 %
Fluorobenzene	2773899	2889924	96.0%	50 - 200 %
1,4 - Difluorobenzene	2158796	2258355	95.6%	50 - 200 %
Chlorobenzene - d5	1550660	1555909	99.7%	50 - 200 %
1,4 - Dichlorobenzene - d4	571421	610450	93.6%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.51	95.1%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.21	92.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-B.10/98
Laboratory ID: C98-65810
Matrix: Water
Dilution Factor: 10

negative
MW-S

Date Sampled: 10/28/98
Time Sampled: 16:30
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorodifluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	128	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	3.40	J 10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	8.80	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-B.10/98
 Laboratory ID: C98-65810

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

*Duplicate
MW-J*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1230769	1405590	87.6%	50 - 200 %
Fluorobenzene	2666417	2889924	92.3%	50 - 200 %
1,4 - Difluorobenzene	2094266	2258355	92.7%	50 - 200 %
Chlorobenzene - d5	1482853	1555909	95.3%	50 - 200 %
1,4 - Dichlorobenzene - d4	502483	610450	82.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.3	103%	86 - 118 %
Toluene - d8	10.8	108%	88 - 110 %
4 - Bromofluorobenzene	9.22	92.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-9.10/98
Laboratory ID: C98-65785
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 14:50
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-9

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	ND	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	4.82	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	ND	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	ND	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 90125-9.10/98
Laboratory ID: C98-65785

Date Sampled: 10/28/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-9

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	3.28	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1387027	1405590	98.7%	50 - 200 %
Fluorobenzene	2776616	2889924	96.1%	50 - 200 %
1,4 - Difluorobenzene	2137182	2258355	94.6%	50 - 200 %
Chlorobenzene - d5	1627054	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	616355	610450	101%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.33	93.3%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.33	93.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-10.10/98
Laboratory ID: C98-65786
Matrix: Water
Dilution Factor: 10

MW-10

Date Sampled: 10/28/98
Time Sampled: 14:45
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	
		($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethylene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorodifluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	111	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	ND	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	ND	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-10.10/98
 Laboratory ID: C98-65786

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-10

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1408974	1405590	100%	50 - 200 %
Fluorobenzene	2880025	2889924	99.7%	50 - 200 %
1,4 - Difluorobenzene	2240950	2258355	99.2%	50 - 200 %
Chlorobenzene - d5	1596133	1555909	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	608503	610450	99.7%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.61	96.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.34	93.4%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: _____ yw
 Reviewed: _____ sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-11.10/98 MW-II
Laboratory ID: C98-65787
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 15:20
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	110	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	72.2	10.0
78-93-3	2 -Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	64.6	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	129	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-11.10/98
 Laboratory ID: C98-65787

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1328310	1405590	94.5%	50 - 200 %
Fluorobenzene	2750828	2889924	95.2%	50 - 200 %
1,4 - Difluorobenzene	2138654	2258355	94.7%	50 - 200 %
Chlorobenzene - d5	1554473	1555909	99.9%	50 - 200 %
1,4 - Dichlorobenzene - d4	575840	610450	94.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.74	97.4%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.39	93.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-12.10/98
Laboratory ID: C98-65788
Matrix: Water
Dilution Factor: 100

MW-12

Date Sampled: 10/28/98
Time Sampled: 15:25
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	100
74-87-3	Chloromethane	ND	100
75-01-4	Vinyl chloride (Chloroethene)	ND	100
74-83-9	Bromomethane	ND	100
75-00-3	Chloroethane	ND	100
75-69-4	Trichlorodifluoromethane	ND	100
75-35-4	1,1 - Dichloroethene	ND	100
75-09-2	Methylene chloride (Dichloromethane)	ND	100
156-60-5	trans - 1, 2 - Dichloroethene	ND	100
75-34-3	1,1 - Dichloroethane	141	100
78-93-3	2 - Butanone (MEK)	ND	1,000
156-59-2	cis - 1,2 - Dichloroethene	ND	100
74-97-5	Bromochloromethane	ND	100
67-66-3	Chloroform (Trichloromethane)	ND	100
594-20-7	2,2 - Dichloropropane	ND	100
71-55-6	1,1,1 - Trichloroethane	ND	100
107-06-2	1,2 - Dichloroethane	ND	100
563-58-6	1,1 - Dichloropropene	ND	100
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	100
71-43-2	Benzene	64.0	J 100
74-95-3	Dibromomethane	ND	100
78-87-5	1,2 - Dichloropropane	ND	100
79-01-6	Trichloroethene	ND	100
75-27-4	Bromodichloromethane	ND	100
10061-01-5	cis - 1,3 - Dichloropropene	ND	100
10061-02-6	trans - 1,3 - Dichloropropene	ND	100
79-00-5	1,1,2 - Trichloroethane	ND	100
108-88-3	Toluene	ND	100
106-93-4	1,2 - Dibromoethane	ND	100
142-28-9	1,3 - Dichloropropane	ND	100
124-48-1	Dibromochloromethane	ND	100
127-18-4	Tetrachloroethene	ND	100
630-20-6	1,1,1,2 - Tetrachloroethane	ND	100
108-90-7	Chlorobenzene	ND	100
100-41-4	Ethylbenzene	1,150	100
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	330	200
75-25-2	Bromoform (Tribromomethane)	ND	100
100-42-5	Styrene (Ethenylbenzene)	ND	100
95-47-6	o - Xylene (1,2-Dimethylbenzene)	415	100
79-34-5	1,1,2,2 - Tetrachloroethane	ND	100
96-18-4	1,2,3 - Trichloropropane	ND	100

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-12.10/98
 Laboratory ID: C98-65788

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

<u>C.A.S. #</u>	<u>TARGET COMPOUNDS</u>	<u>CONCENTRATION</u> <u>(μg/L)</u>	<u>LIMIT OF</u> <u>DETECTION (μg/L)</u>
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	614	100
108-86-1	Bromobenzene	ND	100
103-65-1	n - Propylbenzene	1,130	100
95-49-8	2 - Chlorotoluene	ND	100
106-43-4	4 - Chlorotoluene	ND	100
108-67-8	1,3,5 - Trimethylbenzene	ND	100
98-06-6	tert - Butylbenzene	ND	100
95-63-6	1,2,4 - Trimethylbenzene	1,700	100
135-98-8	sec - Butylbenzene	ND	100
541-73-1	1,3 - Dichlorobenzene	ND	100
106-46-7	1,4 - Dichlorobenzene	ND	100
99-87-6	4-Isopropyltoluene	ND	100
95-50-1	1,2 - Dichlorobenzene	ND	100
104-51-8	n - Butylbenzene	ND	100
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	500
120-82-1	1,2,4 - Trichlorobenzene	ND	100
91-20-3	Naphthalene	169	100
87-68-3	Hexachlorobutadiene	ND	100
87-61-6	1,2,3 - Trichlorobenzene	ND	100

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL AREA</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Pentafluorobenzene	1326409	1405590	94.4%	50 - 200 %
Fluorobenzene	2770778	2889924	95.9%	50 - 200 %
1,4 - Difluorobenzene	2137310	2258355	94.6%	50 - 200 %
Chlorobenzene - d5	1562070	1555909	100%	50 - 200 %
1,4 - Dichlorobenzene - d4	593726	610450	97.3%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Dibromofluoromethane	9.76	97.6%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.37	93.7%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-13.10/98
Laboratory ID: C98-65789
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/28/98
Time Sampled: 15:50
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-13

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	3.48	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	0.85	J
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	9.17	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	14.7	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-13.10/98
 Laboratory ID: C98-65789

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-13

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	1.06	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	5.77	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1390856	1405590	99.0%	50 - 200 %
Fluorobenzene	2868629	2889924	99.3%	50 - 200 %
1,4 - Difluorobenzene	2284569	2258355	101%	50 - 200 %
Chlorobenzene - d5	1704382	1555909	110%	50 - 200 %
1,4 - Dichlorobenzene - d4	629696	610450	103%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.68	96.8%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.32	93.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-14.10/98
Laboratory ID: C98-65790
Matrix: Water
Dilution Factor: 5

Date Sampled: 10/28/98
Time Sampled: 16:00
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW - \x

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorodifluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	18.5	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	44.7	5.0
78-93-3	2 - Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	ND	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	73.8	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-14.10/98
 Laboratory ID: C98-65790

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1420607	1405590	101%	50 - 200 %
Fluorobenzene	2875506	2889924	99.5%	50 - 200 %
1,4 - Difluorobenzene	2213736	2258355	98.0%	50 - 200 %
Chlorobenzene - d5	1660928	1555909	107%	50 - 200 %
1,4 - Dichlorobenzene - d4	623910	610450	102%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.39	93.9%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.31	93.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-15.10/98
Laboratory ID: C98-65791
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/28/98
Time Sampled: 16:10
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-15

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	0.54	J 1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorodifluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	0.97	J 1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	12.9	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	0.85	J 1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	0.64	J 1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-15.10/98
 Laboratory ID: C98-65791

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1412438	1405590	100%	50 - 200 %
Fluorobenzene	2931234	2889924	101%	50 - 200 %
1,4 - Difluorobenzene	2263044	2258355	100%	50 - 200 %
Chlorobenzene - d5	1709409	1555909	110%	50 - 200 %
1,4 - Dichlorobenzene - d4	655097	610450	107%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.74	97.4%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.42	94.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-17A.10/98
Laboratory ID: C98-65792
Matrix: Water
Dilution Factor: 5

Date Sampled: 10/28/98
Time Sampled: 14:55
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-17A

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorodifluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	18.4	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	74.7	5.0
78-93-3	2 - Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromoform (Trichloromethane)	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	8.65	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	44.3	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	33.3	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-17A.10/98
 Laboratory ID: C98-65792

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-17A

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	36.1	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	22.4	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1412155	1405590	100%	50 - 200 %
Fluorobenzene	2851976	2889924	98.7%	50 - 200 %
1,4 - Difluorobenzene	2216753	2258355	98.2%	50 - 200 %
Chlorobenzene - d5	1667532	1555909	107%	50 - 200 %
1,4 - Dichlorobenzene - d4	620803	610450	102%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.61	96.1%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.17	91.7%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-17B.10/98
Laboratory ID: C98-65793
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 15:05
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-17B

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorodifluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	71.8	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	72.9	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	44.5	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	178	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-17B.10/98
 Laboratory ID: C98-65793

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-17B

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1370688	1405590	97.5%	50 - 200 %
Fluorobenzene	2831607	2889924	98.0%	50 - 200 %
1,4 - Difluorobenzene	2195574	2258355	97.2%	50 - 200 %
Chlorobenzene - d5	1629679	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	598831	610450	98.1%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.69	96.9%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.34	93.4%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-17C.10/98
Laboratory ID: C98-65794
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 15:10
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-17C

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	105	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	49.9	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	11.4	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	110	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	18.2	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-17C.10/98
 Laboratory ID: C98-65794

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-17C

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1377872	1405590	98.0%	50 - 200 %
Fluorobenzene	2836517	2889924	98.2%	50 - 200 %
1,4 - Difluorobenzene	2176796	2258355	96.4%	50 - 200 %
Chlorobenzene - d5	1637793	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	600314	610450	98.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.58	95.8%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.30	93.0%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-17D.10/98
Laboratory ID: C98-65795
Matrix: Water
Dilution Factor: 5

MW-17D

Date Sampled: 10/28/98
Time Sampled: 15:00
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorodifluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	9.25	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	49.8	5.0
78-93-3	2 - Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	6.45	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	44.5	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	11.5	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-17D.10/98
 Laboratory ID: C98-65795

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	21.1	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	15.9	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1380711	1405590	98.2%	50 - 200 %
Fluorobenzene	2822326	2889924	97.7%	50 - 200 %
1,4 - Difluorobenzene	2180627	2258355	96.6%	50 - 200 %
Chlorobenzene - d5	1603637	1555909	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	589532	610450	96.6%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.59	95.9%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.33	93.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-18.10/98
Laboratory ID: C98-65796
Matrix: Water
Dilution Factor: 10

MW-15

Date Sampled: 10/28/98
Time Sampled: 14:20
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	142	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	27.8	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromoform (Tetrachloromethane)	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	51.6	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	149	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-18.10/98
 Laboratory ID: C98-65796

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1359310	1405590	96.7%	50 - 200 %
Fluorobenzene	2791105	2889924	96.6%	50 - 200 %
1,4 - Difluorobenzene	2148305	2258355	95.1%	50 - 200 %
Chlorobenzene - d5	1558135	1555909	100%	50 - 200 %
1,4 - Dichlorobenzene - d4	564364	610450	92.5%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.47	94.7%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.32	93.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-19.10/98
Laboratory ID: C98-65797
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 14:25
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-19

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorodifluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	167	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	16.5	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	8.60	J 10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	150	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-19.10/98
 Laboratory ID: C98-65797

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1403019	1405590	99.8%	50 - 200 %
Fluorobenzene	2876732	2889924	99.5%	50 - 200 %
1,4 - Difluorobenzene	2226062	2258355	98.6%	50 - 200 %
Chlorobenzene - d5	1629623	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	583941	610450	95.7%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.49	94.9%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.30	93.0%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-20.10/98 MW-20
Laboratory ID: C98-65798
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/28/98
Time Sampled: 13:40
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125-20.10/98
 Laboratory ID: C98-65798

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION <i>($\mu\text{g/L}$)</i>	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1395810	1405590	99.3%	50 - 200 %
Fluorobenzene	2857503	2889924	98.9%	50 - 200 %
1,4 - Difluorobenzene	2213631	2258355	98.0%	50 - 200 %
Chlorobenzene - d5	1637722	1555909	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	550946	610450	90%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.40	94.0%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.06	90.6%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-21.10/98
Laboratory ID: C98-65799
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 14:15
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-2

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	
		($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorodifluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	14.6	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	1.02	J 2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	0.62	J 2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	1.34	J 2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	3.80	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-21.10/98
 Laboratory ID: C98-65799

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

mwi-21

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL	PERCENT RECOVERY	ACCEPTANCE RANGE
		AREA	RECOVERY	RANGE
Pentafluorobenzene	1426619	1405590	101%	50 - 200 %
Fluorobenzene	2905273	2889924	101%	50 - 200 %
1,4 - Difluorobenzene	2250900	2258355	99.7%	50 - 200 %
Chlorobenzene - d5	1646050	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	594592	610450	97.4%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
		RECOVERY	RANGE
Dibromofluoromethane	9.44	94.4%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.25	92.5%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: YW
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-22.10/98
Laboratory ID: C98-65800
Matrix: Water
Dilution Factor: 10

Date Sampled: 10/28/98
Time Sampled: 14:00
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-22

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethylene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	129	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	16.9	10.0
78-93-3	2 - Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromoform (Tetrachloromethane)	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	ND	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	16.4	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	37.2	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	150	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125-22.10/98
 Laboratory ID: C98-65800

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW - 22

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylpropylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1351028	1405590	96.1%	50 - 200 %
Fluorobenzene	2799020	2889924	96.9%	50 - 200 %
1,4 - Difluorobenzene	2160474	2258355	95.7%	50 - 200 %
Chlorobenzene - d5	1586172	1555909	102%	50 - 200 %
1,4 - Dichlorobenzene - d4	571235	610450	93.6%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.58	95.8%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.28	92.8%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-23.10/98
Laboratory ID: C98-65801
Matrix: Water
Dilution Factor: 1

MW-23

Date Sampled: 10/28/98
Time Sampled: 13:50
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-23.10/98
 Laboratory ID: C98-65801

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW - 23

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1388371	1405590	98.8%	50 - 200 %
Fluorobenzene	2898198	2889924	100%	50 - 200 %
1,4 - Difluorobenzene	2252803	2258355	99.8%	50 - 200 %
Chlorobenzene - d5	1641564	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	581816	610450	95.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.70	97.0%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.30	93.0%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-24.10/98
Laboratory ID: C98-65802
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/28/98
Time Sampled: 13:30
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-24

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromoform (Trichloromethane)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-24.10/98
 Laboratory ID: C98-65802

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

mW - 24

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL	PERCENT RECOVERY	ACCEPTANCE
Pentafluorobenzene	1353937	1405590	96.3%	50 - 200 %
Fluorobenzene	2837811	2889924	98.2%	50 - 200 %
1,4 - Difluorobenzene	2209335	2258355	97.8%	50 - 200 %
Chlorobenzene - d5	1601568	1555909	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	566713	610450	92.8%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE
Dibromofluoromethane	9.71	97.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.33	93.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: **Western Water Consultants** MW-25
Project: 90-125L
Sample ID: 90125-25.10/98
Laboratory ID: C98-65803
Matrix: Water
Dilution Factor: 2

Date Sampled: 10/28/98
Time Sampled: 14:10
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorodifluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	30.0	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	12.3	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	29.6	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	5.40	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	38.4	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125-25.10/98
 Laboratory ID: C98-65803

Date Sampled: 10/28/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-15

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1329618	1405590	94.6%	50 - 200 %
Fluorobenzene	2791516	2889924	96.6%	50 - 200 %
1,4 - Difluorobenzene	2187627	2258355	96.9%	50 - 200 %
Chlorobenzene - d5	1568931	1555909	101%	50 - 200 %
1,4 - Dichlorobenzene - d4	566235	610450	92.8%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.79	97.9%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.39	93.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-26.10/98 MW-24
Laboratory ID: C98-65804
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/27/98
Time Sampled: 17:10
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorodifluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	10.5	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	3.51	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromoform (Trichloromethane)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	1.91	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	13.4	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-26.10/98
 Laboratory ID: C98-65804

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-2^b

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1314191	1405590	93.5%	50 - 200 %
Fluorobenzene	2773567	2889924	96.0%	50 - 200 %
1,4 - Difluorobenzene	2146693	2258355	95.1%	50 - 200 %
Chlorobenzene - d5	1554963	1555909	99.9%	50 - 200 %
1,4 - Dichlorobenzene - d4	553785	610450	90.7%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.72	97.2%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.32	93.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-C.10/98
Laboratory ID: C98-65811
Matrix: Water
Dilution Factor: 2

Duplicate MW 2/6

Date Sampled: 10/27/98
Time Sampled: 18:00
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	9.62	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	3.48	2.0
78-93-3	2 - Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromoform (Trichloromethane)	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	ND	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	1.90	J 2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	14.1	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125-C.10/98
 Laboratory ID: C98-65811

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Analyte passes MS identification criteria, but is less than stated detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL AREA</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Pentafluorobenzene	1151432	1405590	81.9%	50 - 200 %
Fluorobenzene	2609099	2889924	90.3%	50 - 200 %
1,4 - Difluorobenzene	2011723	2258355	89.1%	50 - 200 %
Chlorobenzene - d5	1459405	1555909	93.8%	50 - 200 %
1,4 - Dichlorobenzene - d4	507695	610450	83.2%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Dibromofluoromethane	10.6	106%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.19	91.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: _____
 Reviewed: _____
 yw
 sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-27.10/98
Laboratory ID: C98-65805
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/27/98
Time Sampled: 17:20
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-27

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorodifluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-27.10/98
 Laboratory ID: C98-65805

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1328057	1405590	94.5%	50 - 200 %
Fluorobenzene	2831480	2889924	98.0%	50 - 200 %
1,4 - Difluorobenzene	2207102	2258355	97.7%	50 - 200 %
Chlorobenzene - d5	1561128	1555909	100%	50 - 200 %
1,4 - Dichlorobenzene - d4	569268	610450	93.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.91	99.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.46	94.6%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-28.10/98
Laboratory ID: C98-65806
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/27/98
Time Sampled: 17:50
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-28

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromoform (Trichloromethane)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-28.10/98
 Laboratory ID: C98-65806

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-28

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1335565	1405590	95.0%	50 - 200 %
Fluorobenzene	2787588	2889924	96.5%	50 - 200 %
1,4 - Difluorobenzene	2198291	2258355	97.3%	50 - 200 %
Chlorobenzene - d5	1549525	1555909	99.6%	50 - 200 %
1,4 - Dichlorobenzene - d4	509092	610450	83.4%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.54	95.4%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.03	90.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-29.10/98
Laboratory ID: C98-65807
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/27/98
Time Sampled: 17:40
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

MW-29

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125-29.10/98
 Laboratory ID: C98-65807

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-29

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1292991	1405590	92.0%	50 - 200 %
Fluorobenzene	2716071	2889924	94.0%	50 - 200 %
1,4 - Difluorobenzene	2108415	2258355	93.4%	50 - 200 %
Chlorobenzene - d5	1498622	1555909	96.3%	50 - 200 %
1,4 - Dichlorobenzene - d4	525354	610450	86.1%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.61	96.1%	86 - 118 %
Toluene - d8	10.0	100%	88 - 110 %
4 - Bromofluorobenzene	9.18	91.8%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.4	104%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: _____
 Reviewed: _____
 yw
 sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L
Sample ID: 90125-30.10/98 MW-3
Laboratory ID: C98-65808
Matrix: Water
Dilution Factor: 1

Date Sampled: 10/27/98
Time Sampled: 17:30
Date Received: 10/30/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	1.93	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	1.23	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromoform (Tetrachloromethane)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	2.77	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125-30.10/98
 Laboratory ID: C98-65808

Date Sampled: 10/27/98
 Date Analyzed: 11/04/98
 Date Reported: November 18, 1998

MW-30

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1244480	88.5%	50 - 200 %
Fluorobenzene	2659174	92.0%	50 - 200 %
1,4 - Difluorobenzene	2061044	91.3%	50 - 200 %
Chlorobenzene - d5	1470204	94.5%	50 - 200 %
1,4 - Dichlorobenzene - d4	504657	82.7%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.77	97.7%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.26	92.6%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client:	Western Water Consultants	Date Sampled:	10/27/98
Project:	90-125L	Time Sampled:	13:00
Sample ID:	FIELD BLANK	Date Received:	10/30/98
Laboratory ID:	C98-65812	Date Analyzed:	11/04/98
Matrix:	Water	Date Reported:	November 18, 1998
Dilution Factor:	1		

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		($\mu\text{g/L}$)	DETECTION ($\mu\text{g/L}$)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: FIELD BLANK
Laboratory ID: C98-65812

Date Sampled: 10/27/98
Date Analyzed: 11/04/98
Date Reported: November 18, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION ($\mu\text{g/L}$)	LIMIT OF DETECTION ($\mu\text{g/L}$)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1394686	1405590	99.2%	50 - 200 %
Fluorobenzene	2920413	2889924	101%	50 - 200 %
1,4 - Difluorobenzene	2260897	2258355	100%	50 - 200 %
Chlorobenzene - d5	1642119	1555909	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	557062	610450	91.3%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.51	95.1%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.03	90.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	86 - 115 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65778_8260_w.xls

Analyst: WW
Reviewed: sec



ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8015 (Modified), TPH GRO ANALYTICAL RESULTS

Client: Western Water Consultants
Project: 90-125L.7
Matrix: Soil

Date Sampled: 08/11/98
Time Sampled: 07:10
Date Received: 08/12/98
Date Reported: August 13, 1998

Land Farm Soil Results

GASOLINE RANGE ORGANICS CONCENTRATION: 8015 TPH GRO

Laboratory ID	Sample ID	GRO mg/kg	Detection Limit, mg/kg	Surrogate Recovery		
				$\alpha\alpha\alpha$ -Trifluoro-toluene	Acceptance range, %	Date Analyzed
C98 - 48546	90125NW.8/98	< 2.0	< 2.0	103	80 - 120 %	08/13/98
C98 - 48547	90125SE.8/98	< 2.0	< 2.0	90	80 - 120 %	08/13/98
C98 - 48548	90125NE.8/98	< 2.0	< 2.0	107	80 - 120 %	08/13/98
C98 - 48549	90125SW.8/98	< 2.0	< 2.0	115	80 - 120 %	08/13/98

QUALITY ASSURANCE REPORT: 8015 TPH Gasoline

MATRIX SPIKE ANALYSIS

Laboratory ID	Gasoline Recovery, %	Gasoline Dup Recovery, %	Acceptance range, %	RPD, %	Acceptance range, %	Date Analyzed
C98 - 48546 S	63%	65%	40 - 80 %	2.1%	0 - 10 %	08/13/98

METHOD BLANK

Laboratory ID	Sample ID	Gasoline mg/kg	Surrogate Recovery	Date Analyzed
MB0812	Blank	< 2.0	$\alpha\alpha\alpha$ -Trifluoro-toluene 99	80 - 120 % 08/13/98

Continuing Calibration and Second Source Checks

Laboratory ID	GRO Recovery, %	Acceptance range, %	Date Analyzed	Laboratory ID	Gasoline Recovery, %	Acceptance range, %
cc GRO CK STD	100%	75 - 125 %	08/12/98	Ic GRO CK STD	57%	40 - 80 %

ND - Analyte not detected at stated limit of detection

Report Approved By:

Report File: R:\Reports\Clients98\Western_Water_Consultants\98_48546_8015D.xls

Analyst: jlp
Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

TPH AS DIESEL RANGE ORGANICS EPA 8015 - MODIFIED CALIFORNIA METHOD ANALYTICAL RESULTS

Client: **Western Water Consultants** Date Sampled: 08/11/98
Project: 90-125L.7 Time Sampled: 07:10
Matrix: Soil Date Received: 08/12/98
Date Reported: August 14, 1998

Land Farm Soil Results

TPH AS DIESEL RANGE ORGANICS

Date of sample(s) extraction : 08/13/98 Extraction by: WD

Laboratory	Sample	Concentration	Detection	Date, Time
ID	ID	mg/Kg	Limit, mg/Kg	Analyzed
C98 - 48546	90125NW.8/98	74	10	08/14/98 00:32
C98 - 48547	90125SE.8/98	47	10	08/14/98 01:13
C98 - 48548	90125NE.8/98	88	10	08/14/98 01:54
C98 - 48549	90125SW.8/98	72	10	08/14/98 02:35

QUALITY ASSURANCE REPORT

Standard Addition Analysis (spike):

Laboratory	Sample	Recovery	Acceptance	Date
ID	ID	%	Range, %	Analyzed
C98 - 48546 S	Spike	121%	60 - 140	08/14/98
C98 - 48546 SD	Spike Dup	104%	60 - 140	08/14/98
		Duplicate RPD:	15.0%	0 - 20

CCAL / QCS Standards:

Laboratory	Sample	Recovery	Acceptance	Date
ID	ID	%	Range, %	Analyzed
5000 QCS	Ultra 5000 Std.	112	60 - 140	08/13/98
2000 CCAL	DRO STD	115	70 - 130	08/13/98

Method 8015 Blank Analysis:

Laboratory	Sample	Concentration	Detection	Date
ID	ID	mg/Kg	Limit, mg/Kg	Analyzed
MB0813	Method Blank	ND	10	08/13/98

ND - Analyte not detected at stated limit of detection



ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

TPH AS DIESEL PLUS TPH GRO

EPA 8015 - MODIFIED CALIFORNIA METHOD

ANALYTICAL RESULTS

Client: **Western Water Consultants** Date Sampled: **08/11/98**
Project: **90-125L.7** Time Sampled: **07:10**
Matrix: **Soil** Date Received: **08/12/98**
Land Farm Soil Results Date Reported: **August 14, 1998**

TPH AS DIESEL PLUS TPH GRO

Laboratory ID	Sample ID	Concentration mg/Kg	Detection Limit, mg/Kg
C98 - 48546	90125NW.8/98	74	10
C98 - 48547	90125SE.8/98	47	10
C98 - 48548	90125NE.8/98	88	10
C98 - 48549	90125SW.8/98	72	10

ND - Analyte not detected at stated limit of detection



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L.1
Sample ID: 90125TW.10/98
Laboratory ID: C98-65736
Matrix: Air
Dilution Factor: 5

*Truck Wash B-4
Input*

Date Sampled: 10/28/98
Time Sampled: 11:00
Date Received: 10/29/98
Date Analyzed: 10/29/98
Date Reported: November 16, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	ND	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	ND	5.0
78-93-3	2 - Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	ND	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	ND	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	5.00	J 10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	9.35	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
 Sample ID: 90125TW.10/98
 Laboratory ID: C98-65736

Date Sampled: 10/28/98
 Date Analyzed: 10/29/98
 Date Reported: November 16, 1998

*Truck Wash B-1
Input*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	6.60	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	13.8	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2,3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1599778	1610827	99.3%	50 - 200 %
Fluorobenzene	3296693	3303720	99.8%	50 - 200 %
1,4 - Difluorobenzene	2530684	2546726	99.4%	50 - 200 %
Chlorobenzene - d5	1852882	1764802	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	708920	699056	101%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.5	105%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.81	98.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.3	103%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: n:\reports\clients98\western_water_consultants\98_65736_8260_air.xls

Analyst: yw
 Reviewed: sec



Billings • Casper • Gillette • Rapid City

ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: Western Water Consultants
Project: 90-125L.1
Sample ID: 90125MS.10/98
Laboratory ID: C98-65737
Matrix: Air
Dilution Factor: 1

*Maintenance Shop
Input*

Date Sampled: 10/28/98
Time Sampled: 10:45
Date Received: 10/29/98
Date Analyzed: 10/29/98
Date Reported: November 16, 1998

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 - Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 90125MS.10/98
 Laboratory ID: C98-65737

Date Sampled: 10/28/98
 Date Analyzed: 10/29/98
 Date Reported: November 16, 1998

Maintainance Shop
Input

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene (1-Methyl-4-(1-methyl)-benzene)	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1623345	1610827	101%	50 - 200 %
Fluorobenzene	3308249	3303720	100%	50 - 200 %
1,4 - Difluorobenzene	2521669	2546726	99.0%	50 - 200 %
Chlorobenzene - d5	1903824	1764802	108%	50 - 200 %
1,4 - Dichlorobenzene - d4	737229	699056	105%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.3	103%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.79	97.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
 Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

sec: r:\reports\clients98\western_water_consultants\98_65736_8260_air.xls

Analyst: _____
 Reviewed: _____
 YW
 sec

APPENDIX C

Bills of Lading and Scale Reports

ECDC ENVIRONMENTAL, LC
Industrial Daily Scale Report

70-125. F

JOB NAME: Dowell Schlumberger JOB ID#: G8-2155
DATE: December 03, 1998 Z ROLL OFF

TRUCK	GROSS WT	TARE WT	NET WT	TONS
27	53,240	14,940	5,300	2.105

ECDC Environmental, L.C.
1111W Hwy 123
East Carbon City, Utah 84520

Dowell Schlumberger (801) 888-44

#29404

ECDC ENVIRONMENTAL, L. C.

11:06AM

12-03-

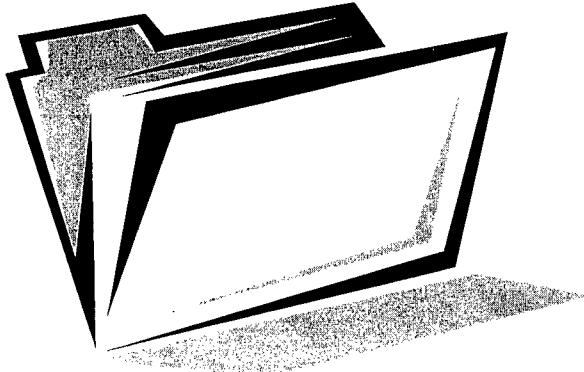
53240 1b GR
47940 1b TA
5300 1b NT

LOOP #13
ID 27

AUTHORIZED SIGNATURE

TOTAL TONS 2.65

MATERIAL RECEIVED BY: Theresa Candelaria DATE: 12/3/98



REPRODUCTION OF DOCUMENTS

IN THIS FILE CANNOT BE

IMPROVED DUE TO CONDITION

OF ORIGINALS



ECDC ENVIRONMENTAL, LC
Industrial Daily Scale Report

JOB NAME: Dowell Schlumberger JOB ID#: 98-2155
DATE: December 11, 1998 2 roll offs

TRUCK	GROSS WT	TARE WT	NET WT	TONS
27	52,120	47,660	4,460	2.23

**ECDC Environmental, L.C.
1111W Hwy 123
East Carbon City, Utah 84520**

ECDC ENVIRONMENTAL, L. C.

#29618

2:00PM

12-11-9

52120 1b GR
47660 1b TA
4460 1b NT

LOOP # 2
ID 27

AUTHORIZED SIGNATURE

University
ATURE

TOTAL TONS 2.23

MATERIAL RECEIVED BY: July Candelaria DATE: 12/11/98

STRAIGHT BILL OF LADING - SHORT FORM - Original - Not Negotiable

(Carrier) Maple oil prod. Inc. SCAC. _____ Shipper's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

Carrier's No. UTQ988075669

at 1474 west 1500 South, work Cross st., date 12-4-98 from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)		TO: Consignee Street Destination	FROM: Shipper Street Origin
<u>Dowell Schlumberger</u> <u>507 East Rickey Street Artesia, N.M.</u>		<u>507 East Rickey Street Artesia, N.M.</u>	
Zip		Zip	

Route:

Delivering Carrier <u>maple oil Prod.</u>		Trailer Initial/ Number	27-m-80		U.S. DOT Hazmat Reg. Number				
No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
2		<u>Geo Fabric + Debris</u>				40Y			
		<u>ECOC Approval # 98-2155</u>							
		<u>KH/Kathy</u> <u>12/11/98</u>							

Remit C.O.D. to:

Address:

City: _____ State: _____ Zip: _____

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per _____

SHIPPER: Dowell a division of Schlumberger
PER: Technology Corp. DATE: 12/4/98
Karen Martin for Dowell

Permanent post office address of shipper

PLACARDS
REQUIRED

PLACARDS
SUPPLIED

YES

NO - FURNISHED BY CARRIER
DRIVER'S SIGNATURE: _____

CARRIER: CDL7258

PER: maple o.l.

DATE: 12-4-98

EMERGENCY RESPONSE

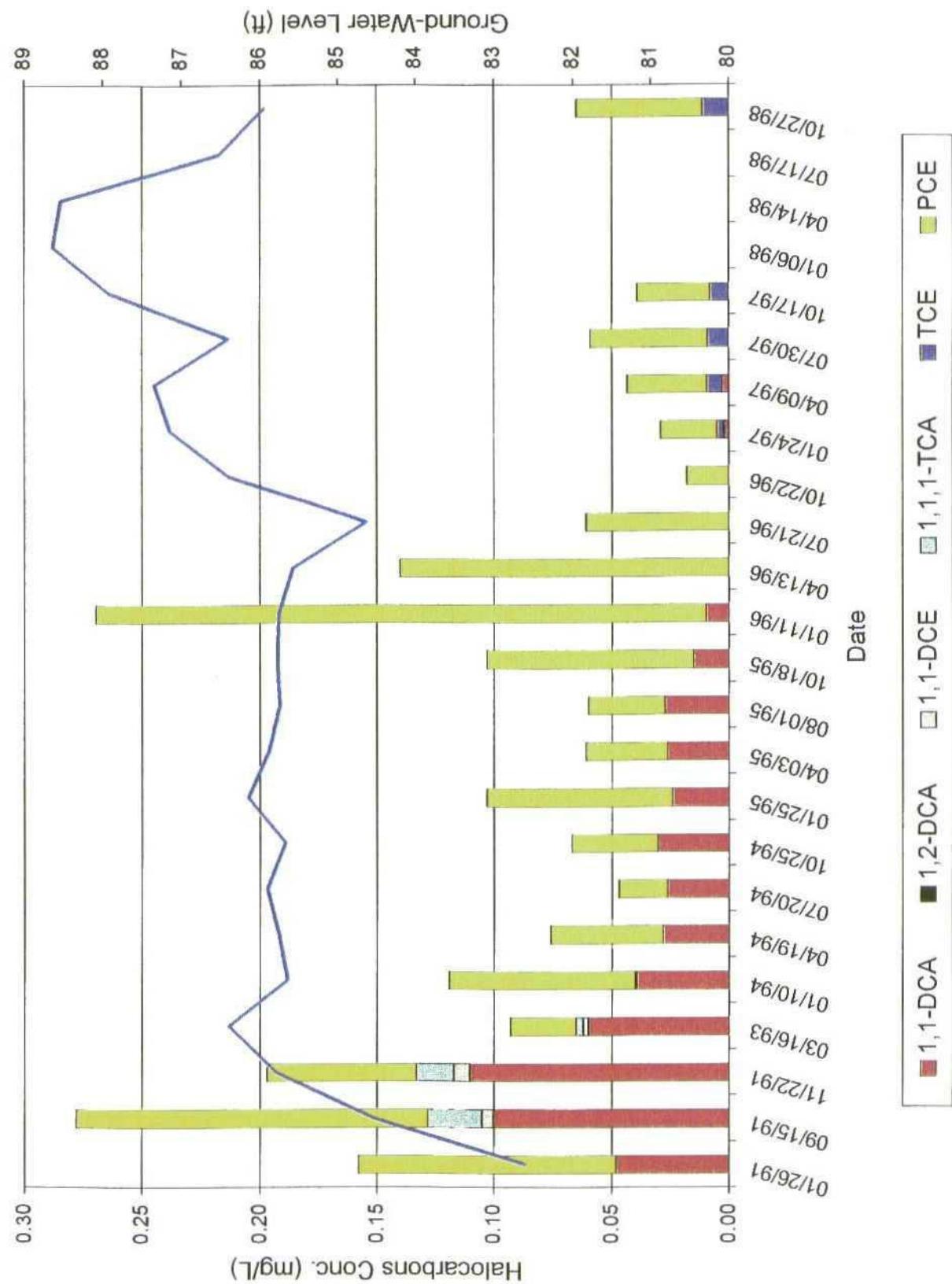
TELEPHONE NUMBER: (801) 298-8222

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (\$172.50)

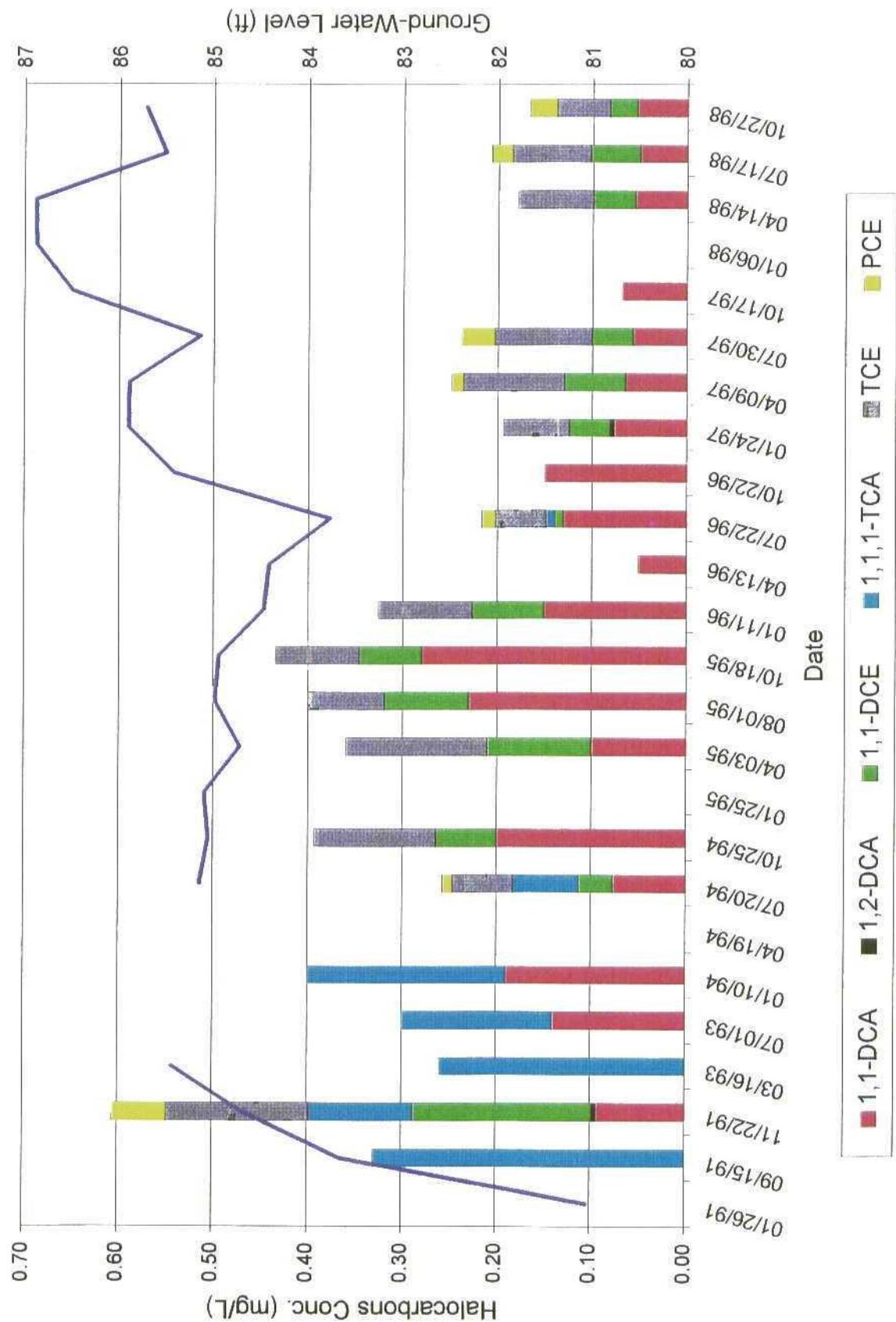
APPENDIX D

Plots of Total Halocarbons Versus Static Water Levels

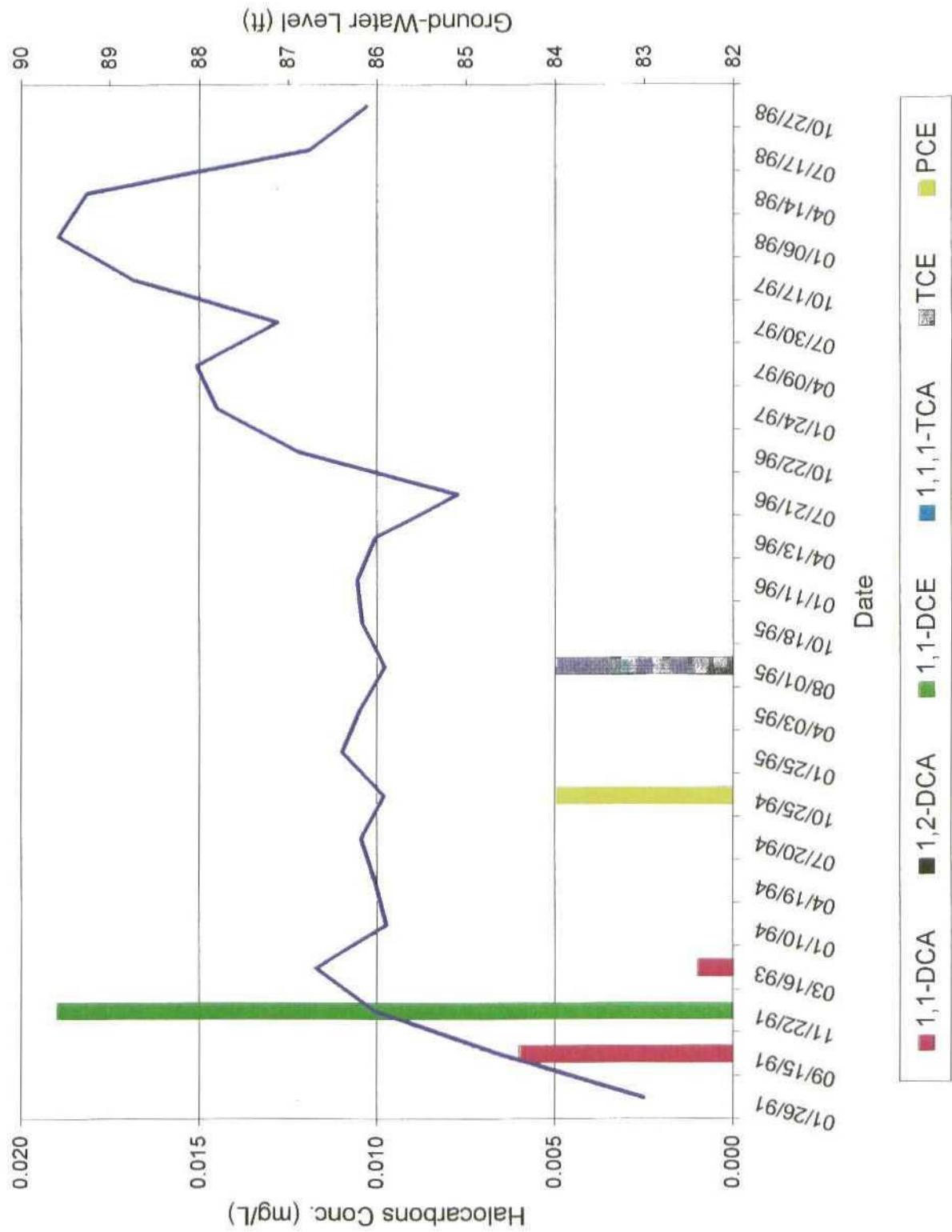
Monitoring Well MW-2 Halocarbons & Ground-Water Level



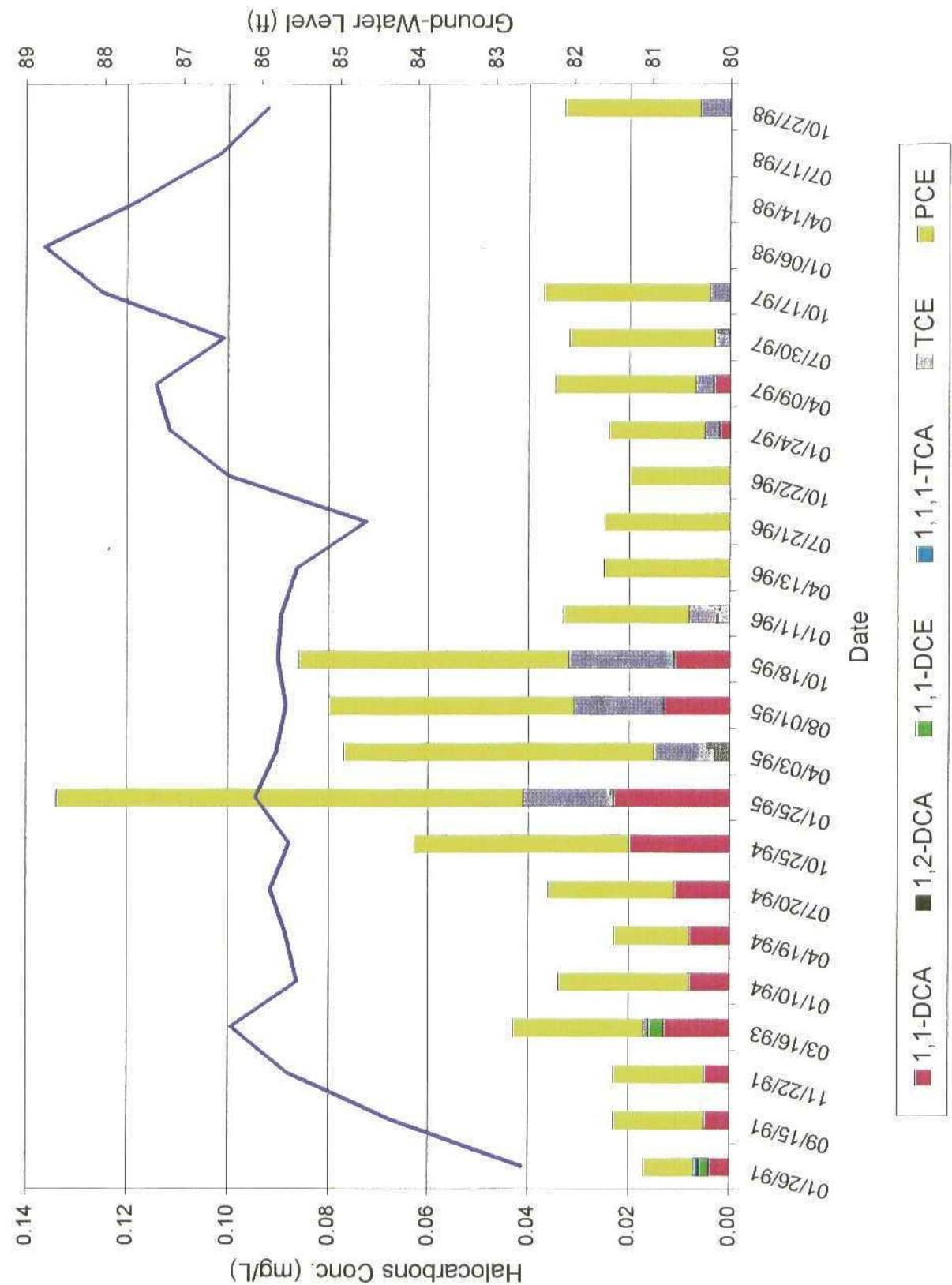
Monitoring Well MW-3 Halocarbons & Ground-Water | Level



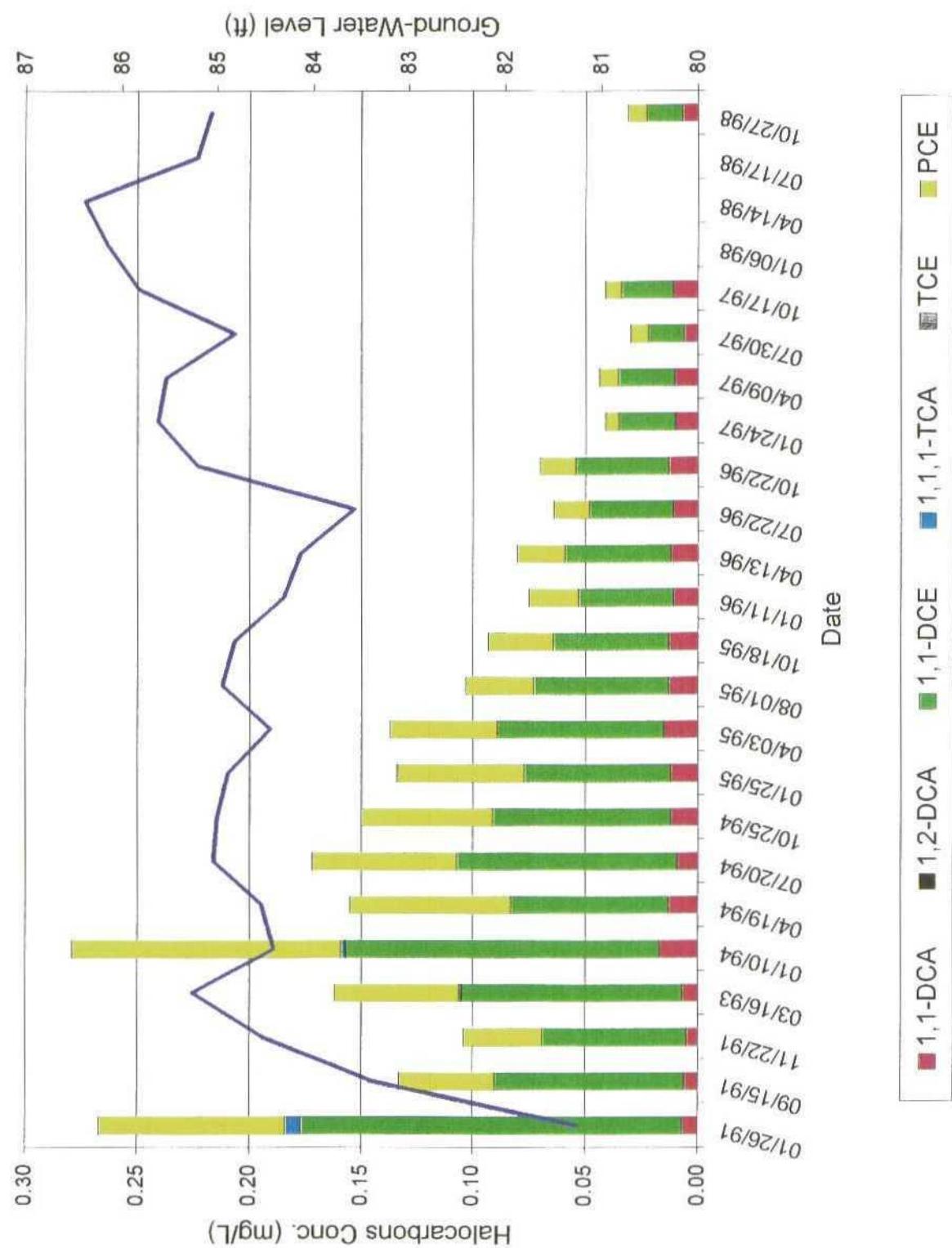
Monitoring Well MW-4 Halocarbons & Ground-Water Level



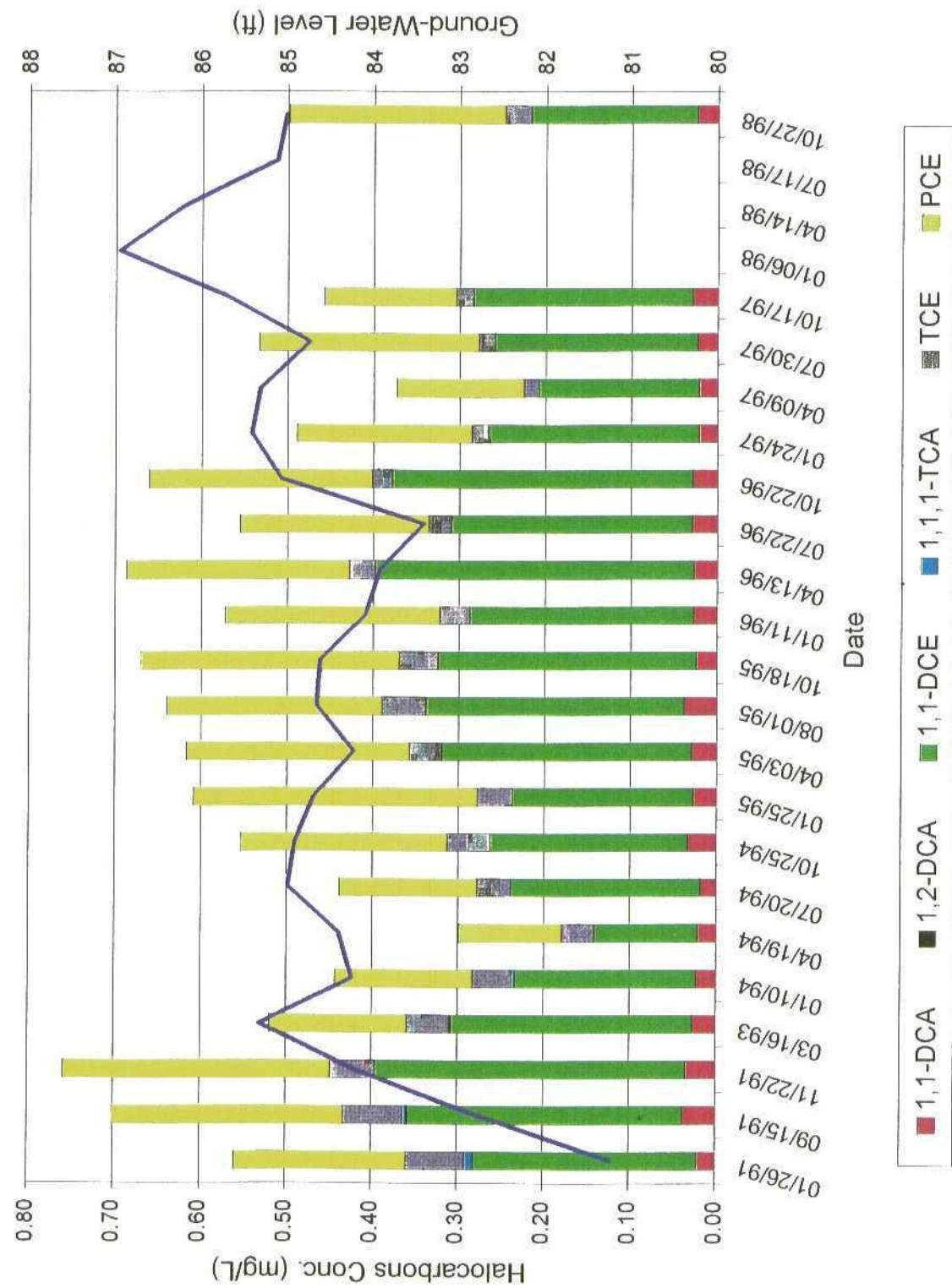
Monitoring Well MW-5 Halocarbons & Ground-Water Level



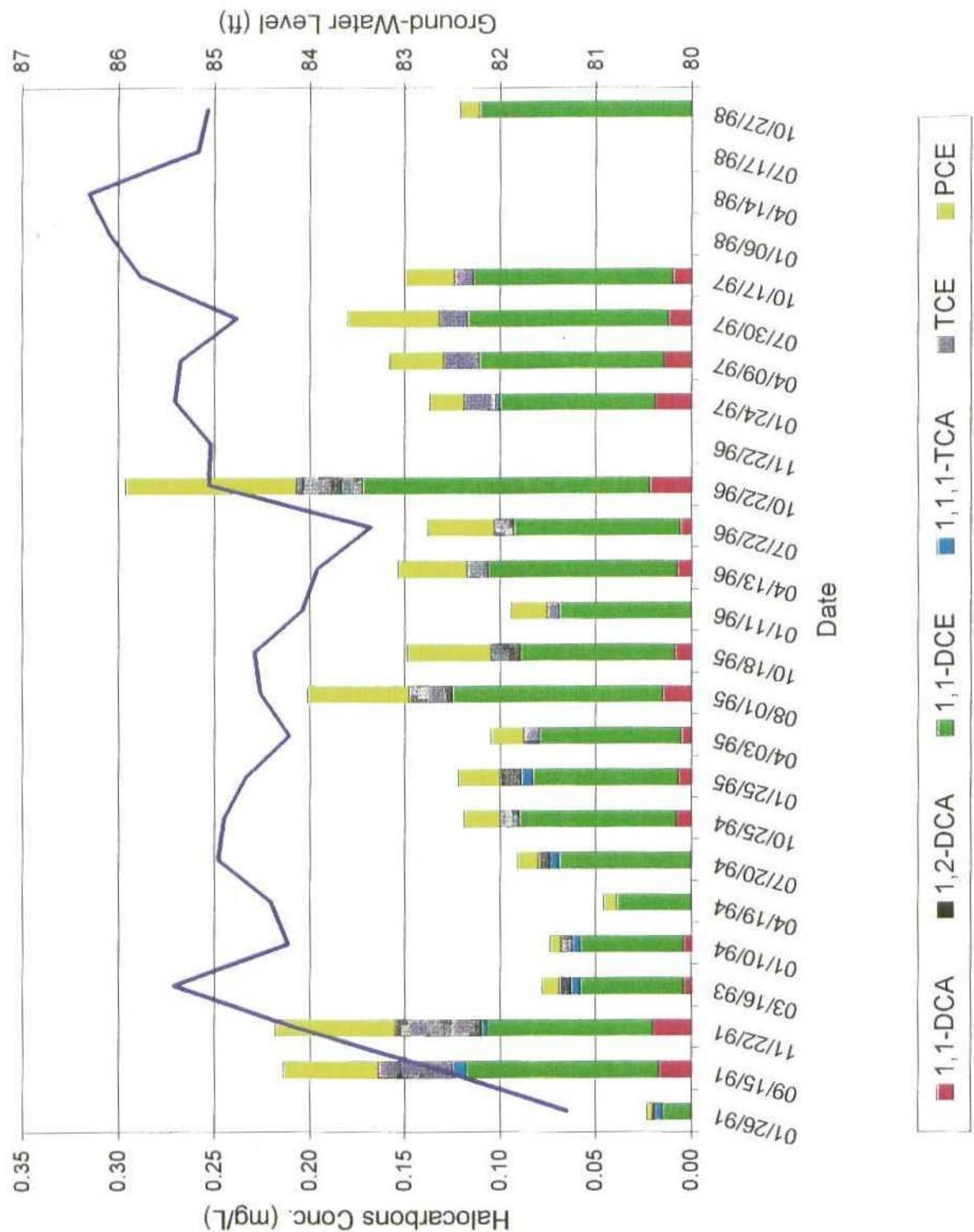
Monitoring Well MW-6 Halocarbons & Ground-Water Level



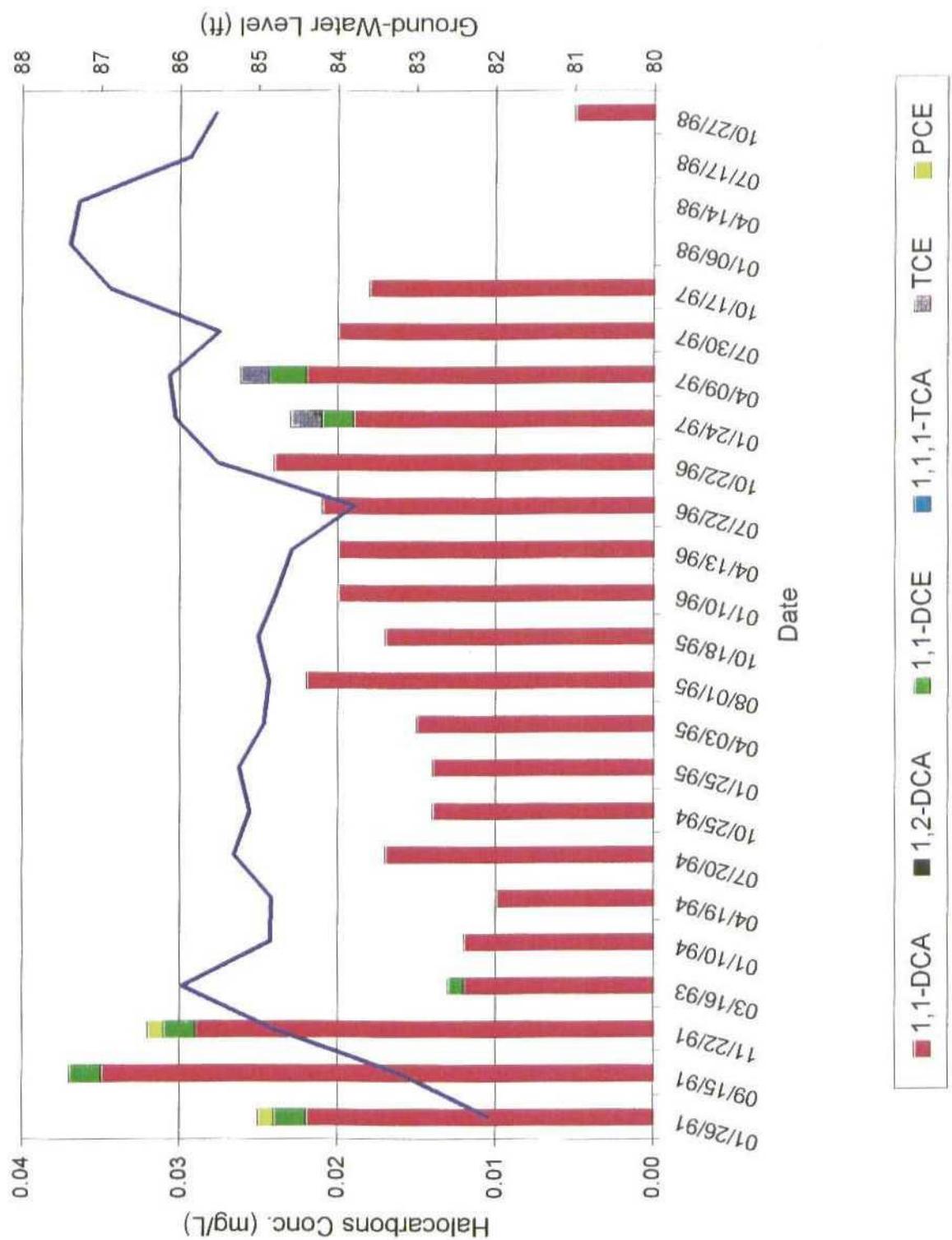
Monitoring Well MW-7 Halocarbons & Ground-Water Level



Monitoring Well MW-8 Halocarbons & Ground-Water Level

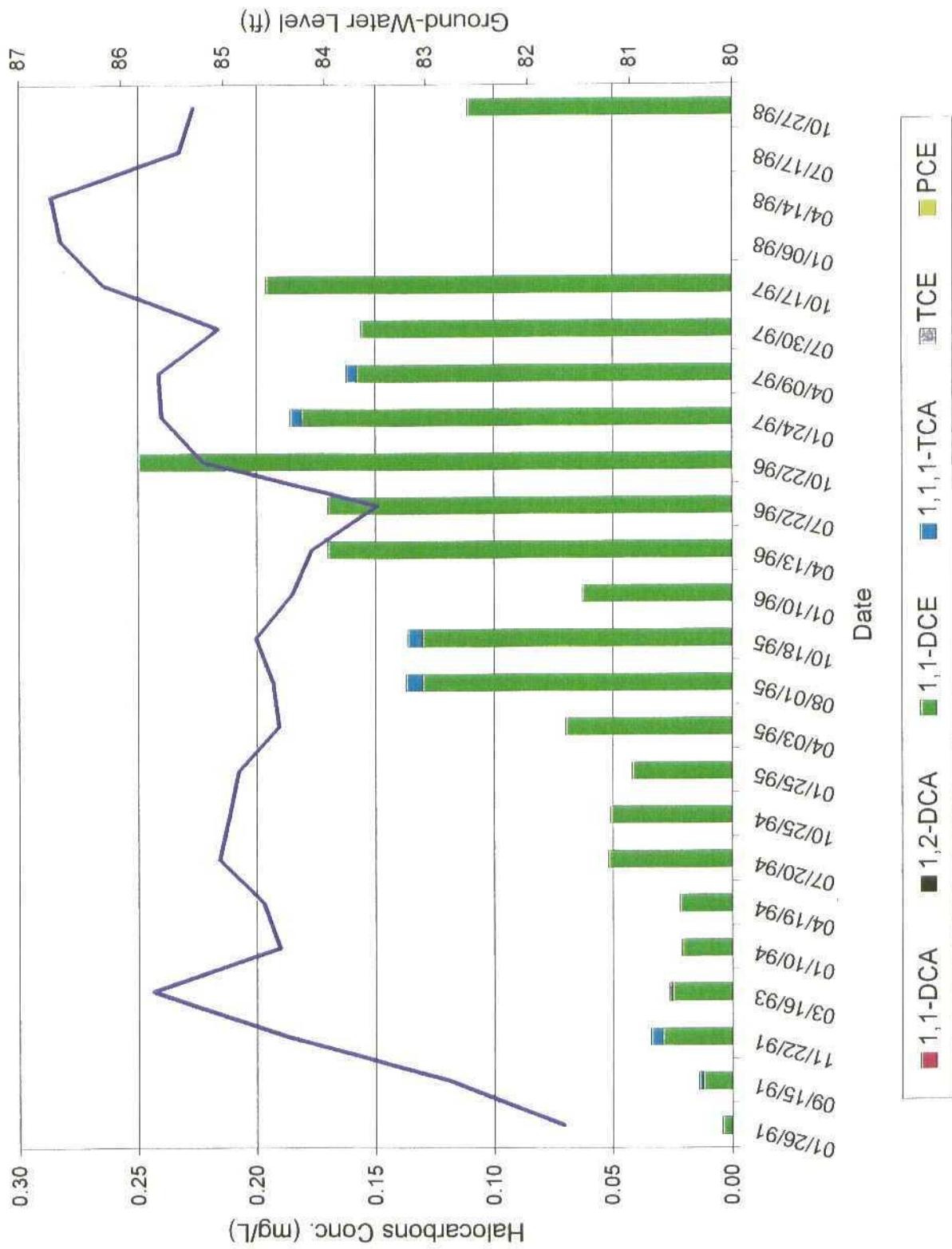


Monitoring Well MW-9 Halocarbons & Ground-Water Level

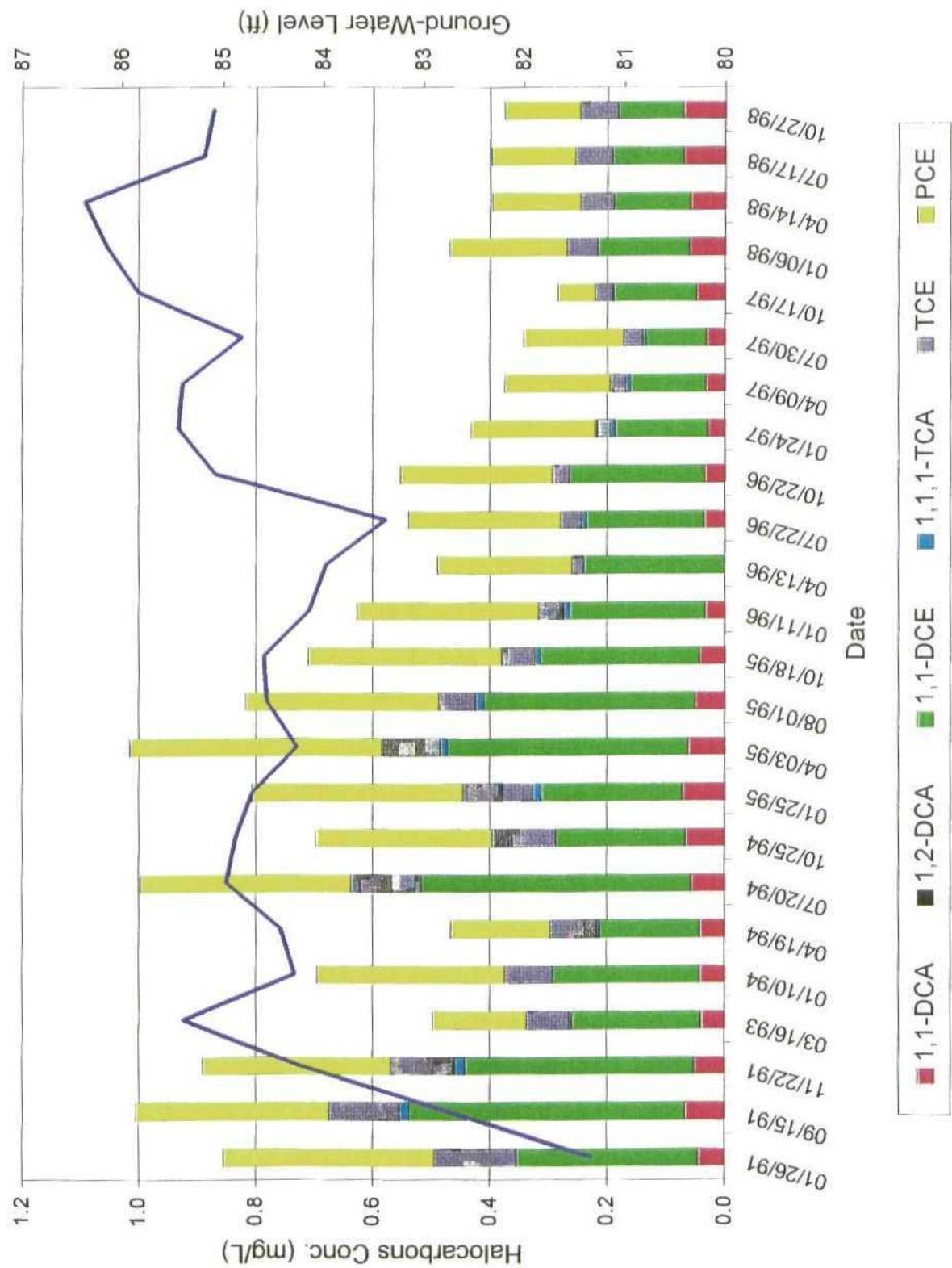


Monitoring Well MW-10

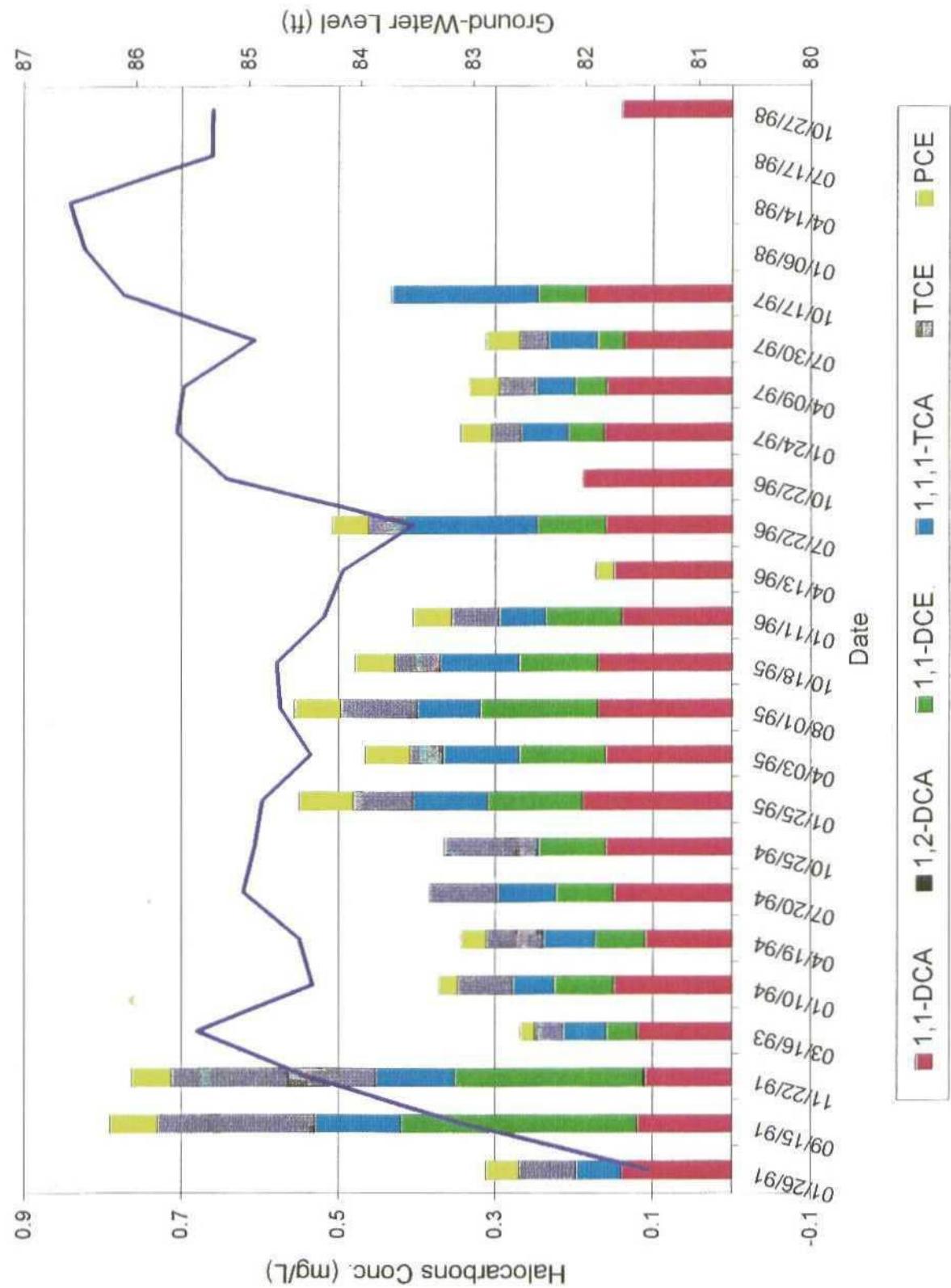
Halocarbons & Ground-Water Level



Monitoring Well MW-11 Halocarbons & Ground-Water Level

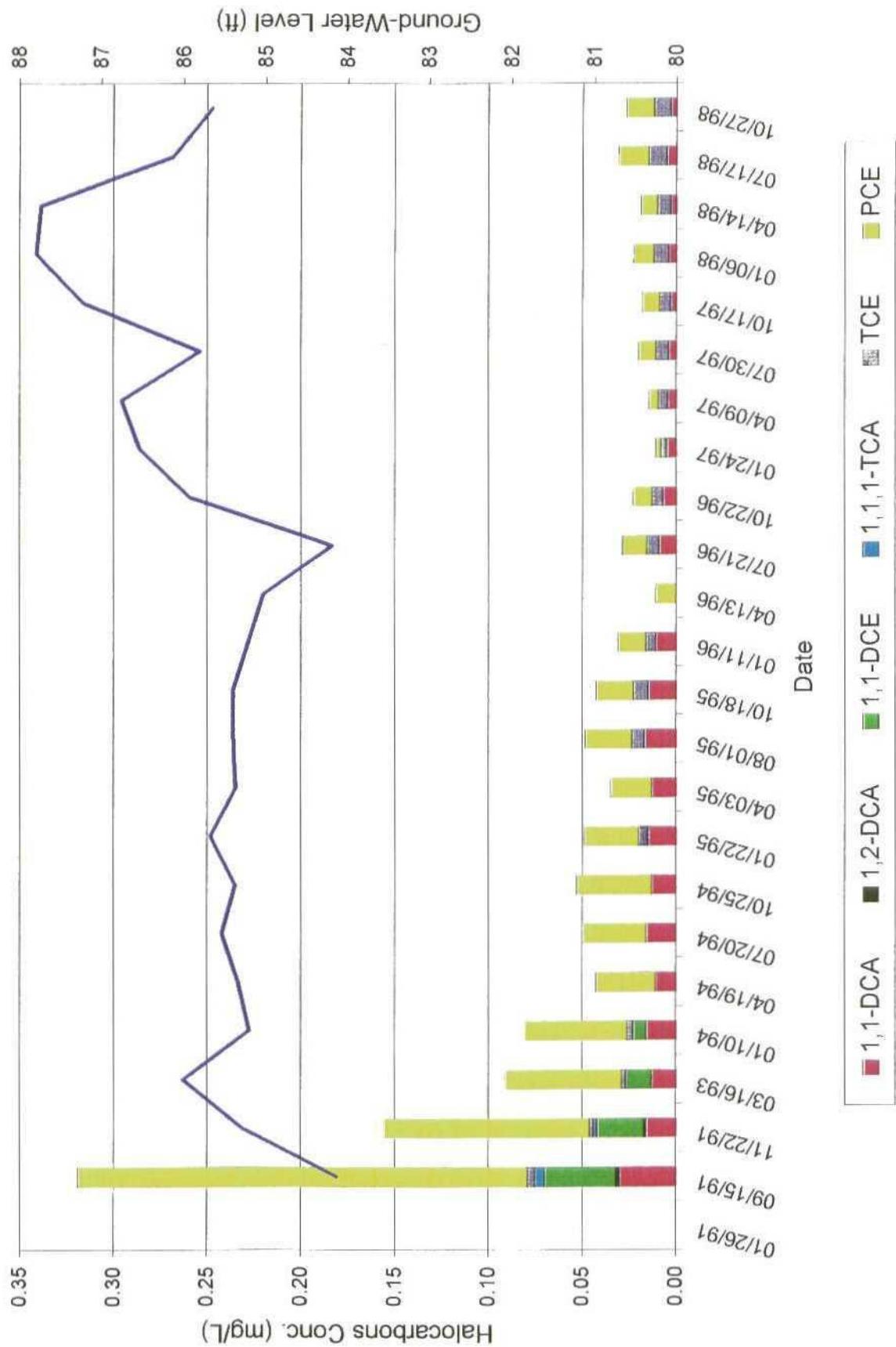


Monitoring Well MW-12 Halocarbons & Ground-Water Level

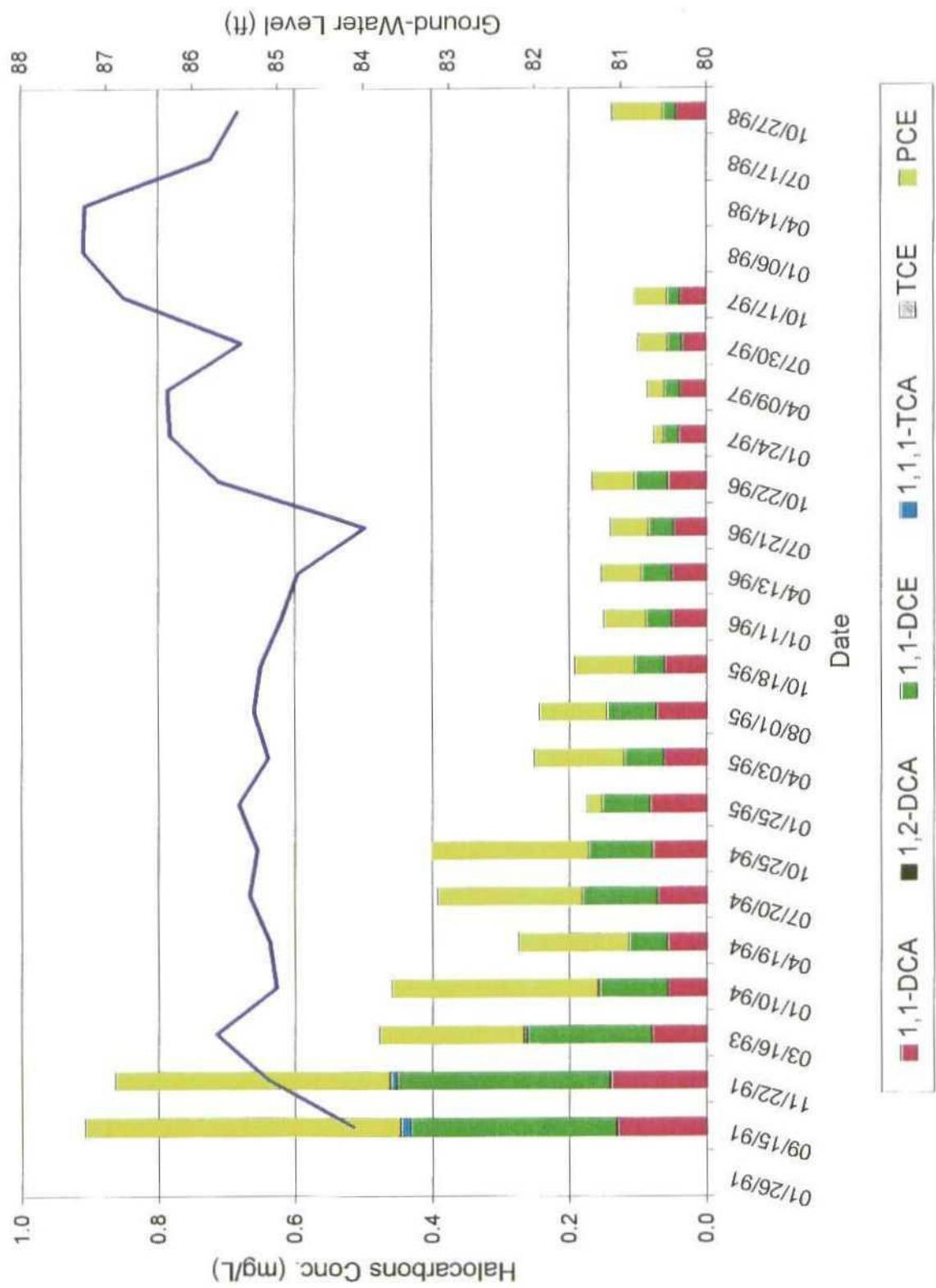


Monitoring Well MW-13

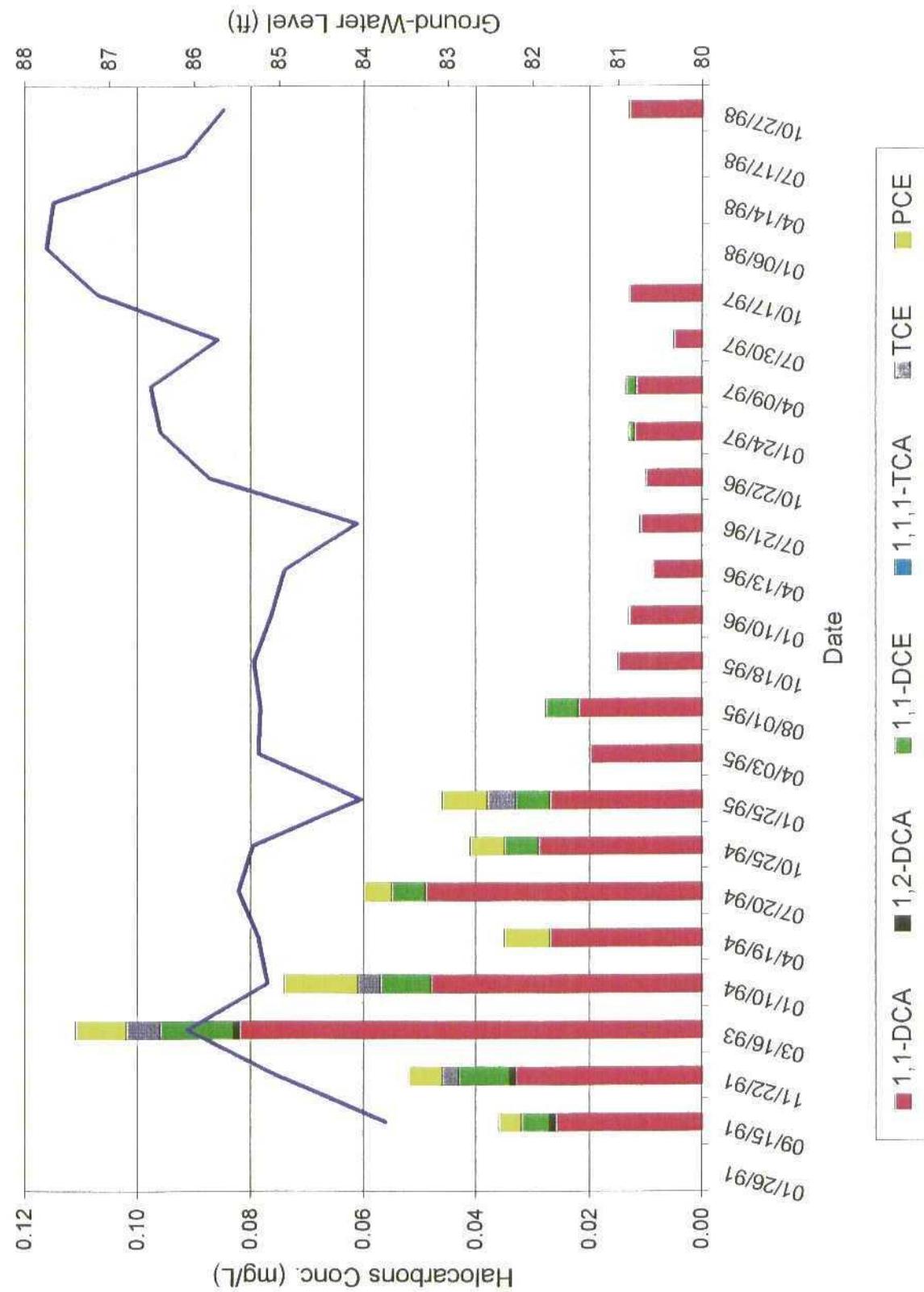
Halocarbons & Ground-Water Level



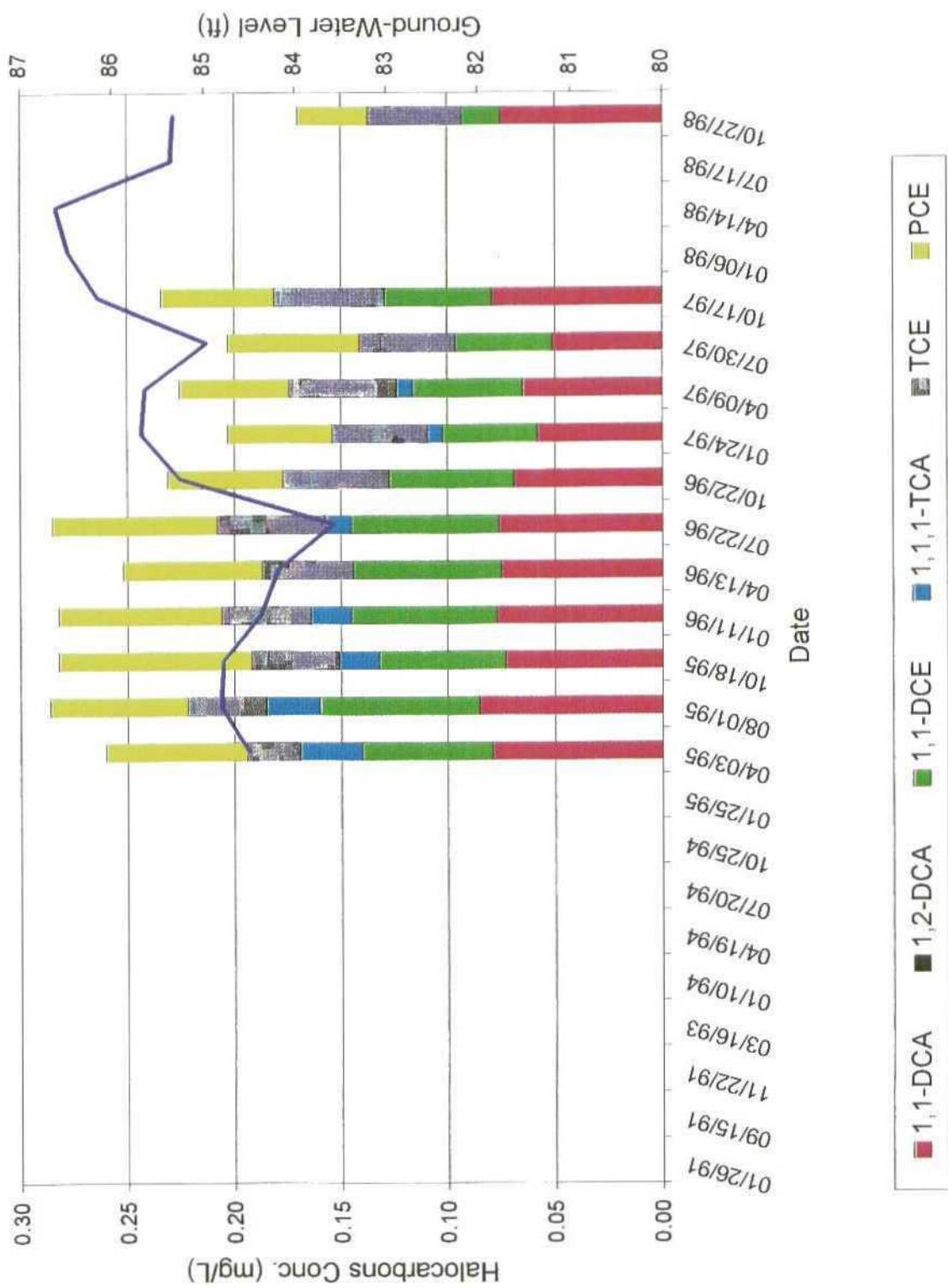
Monitoring Well MW-14 Halocarbons & Ground-Water Level



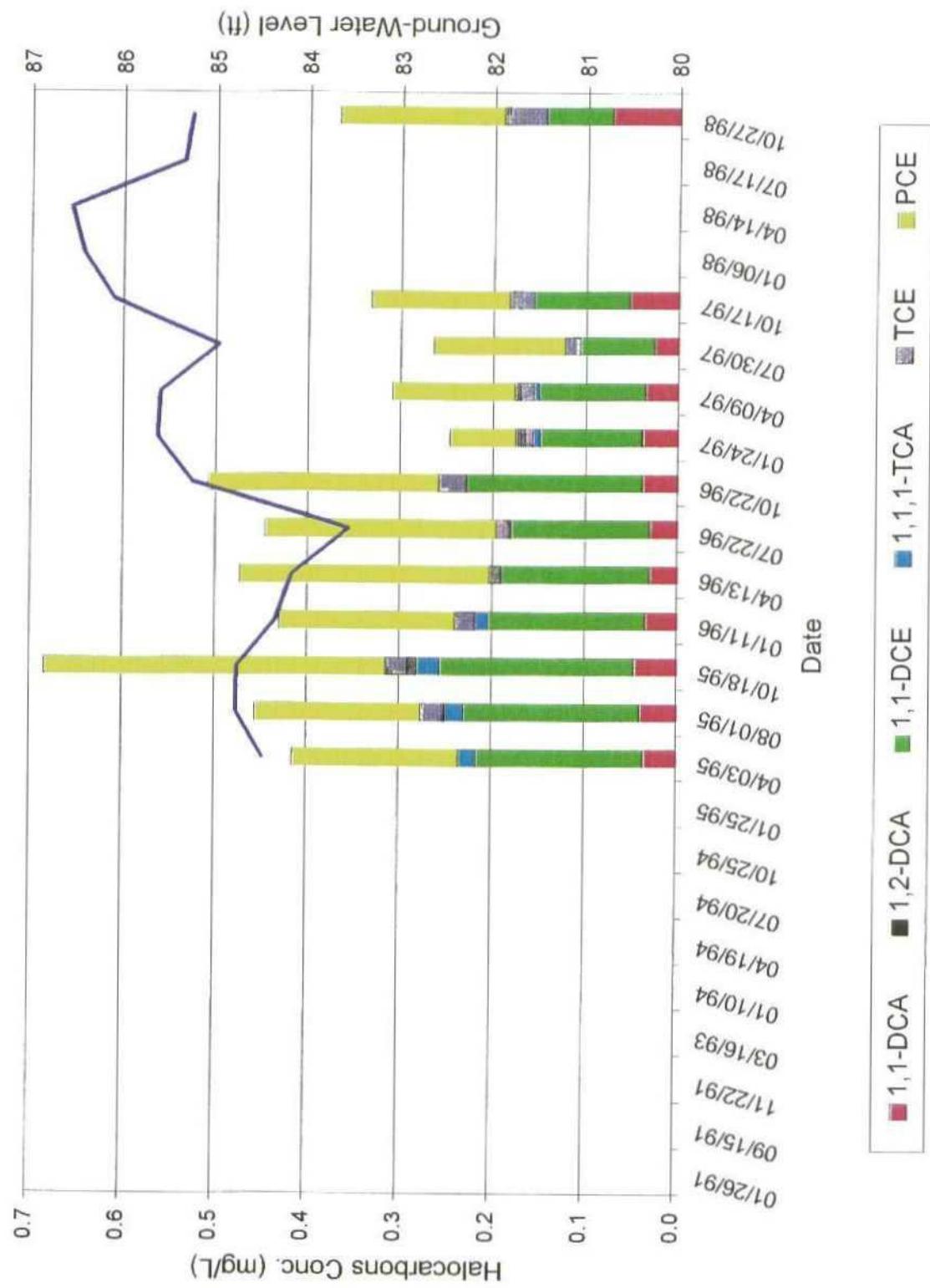
Monitoring Well MW-15 Halocarbons & Ground-Water Level



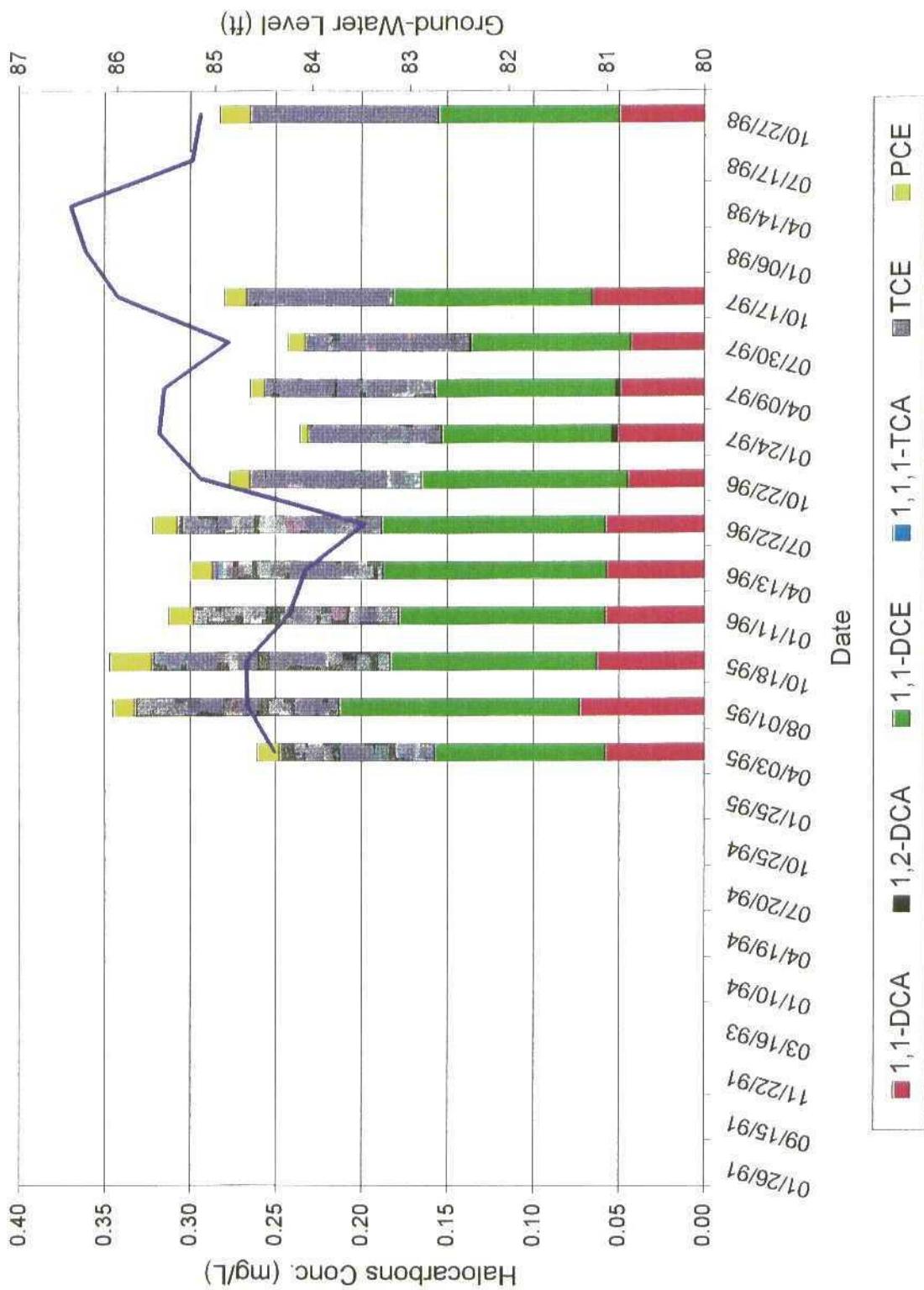
Monitoring Well MW-17A Halocarbons & Ground-Water Level



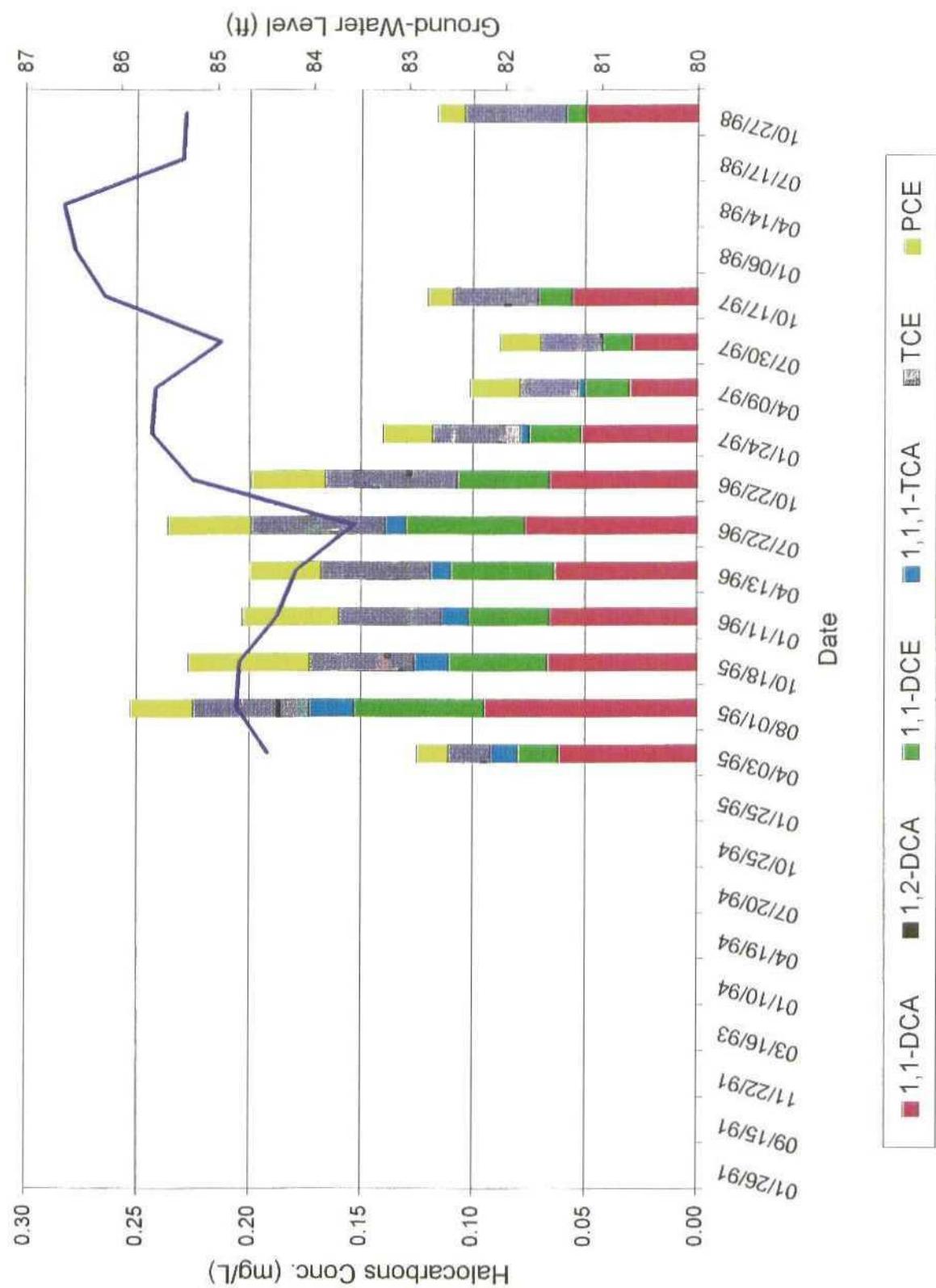
Monitoring Well MW-17B Halocarbons & Ground-Water Level



Monitoring Well MW-17C Halocarbons & Ground-Water Level

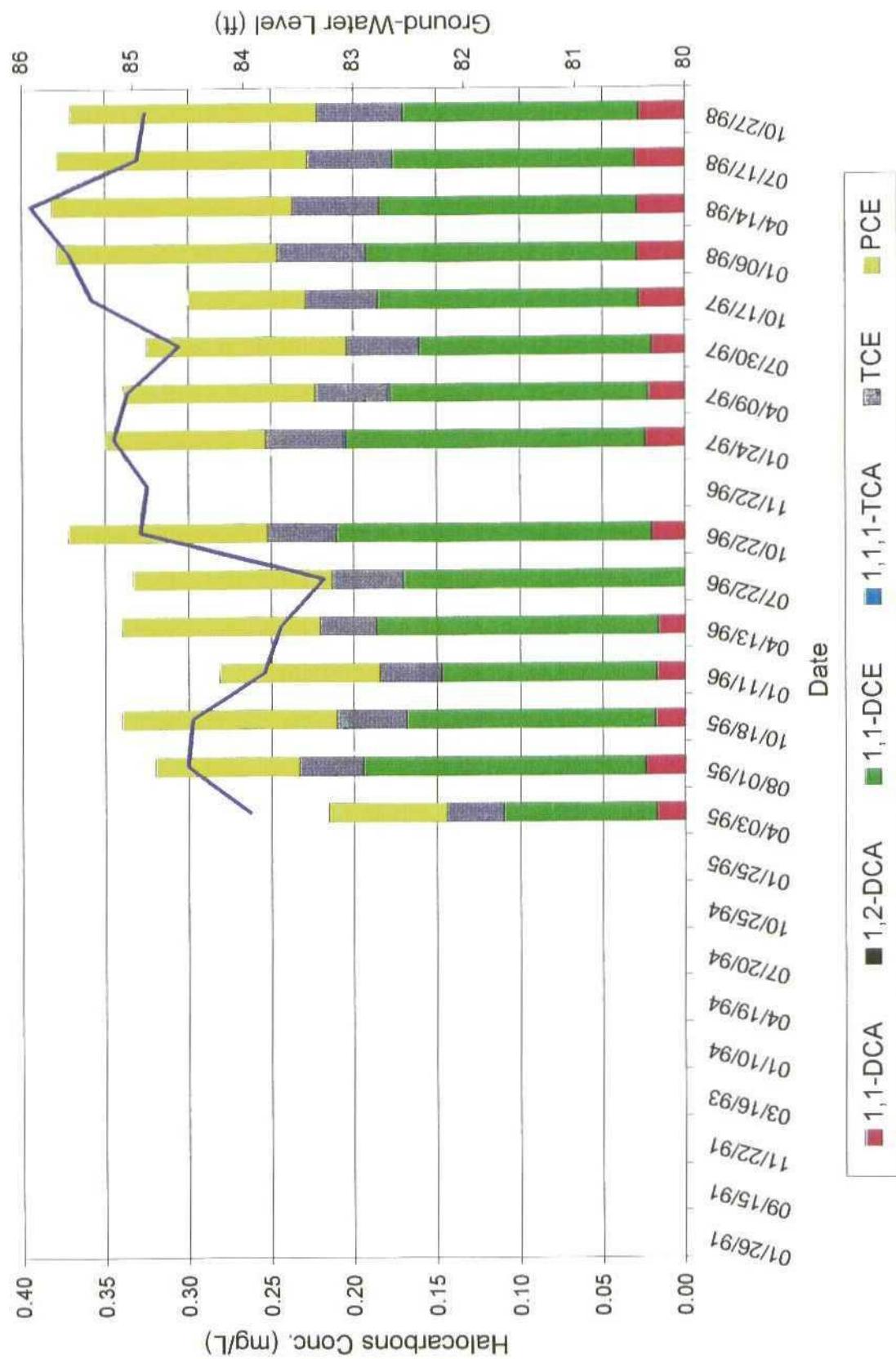


Monitoring Well MW-17D Halocarbons & Ground-Water Level

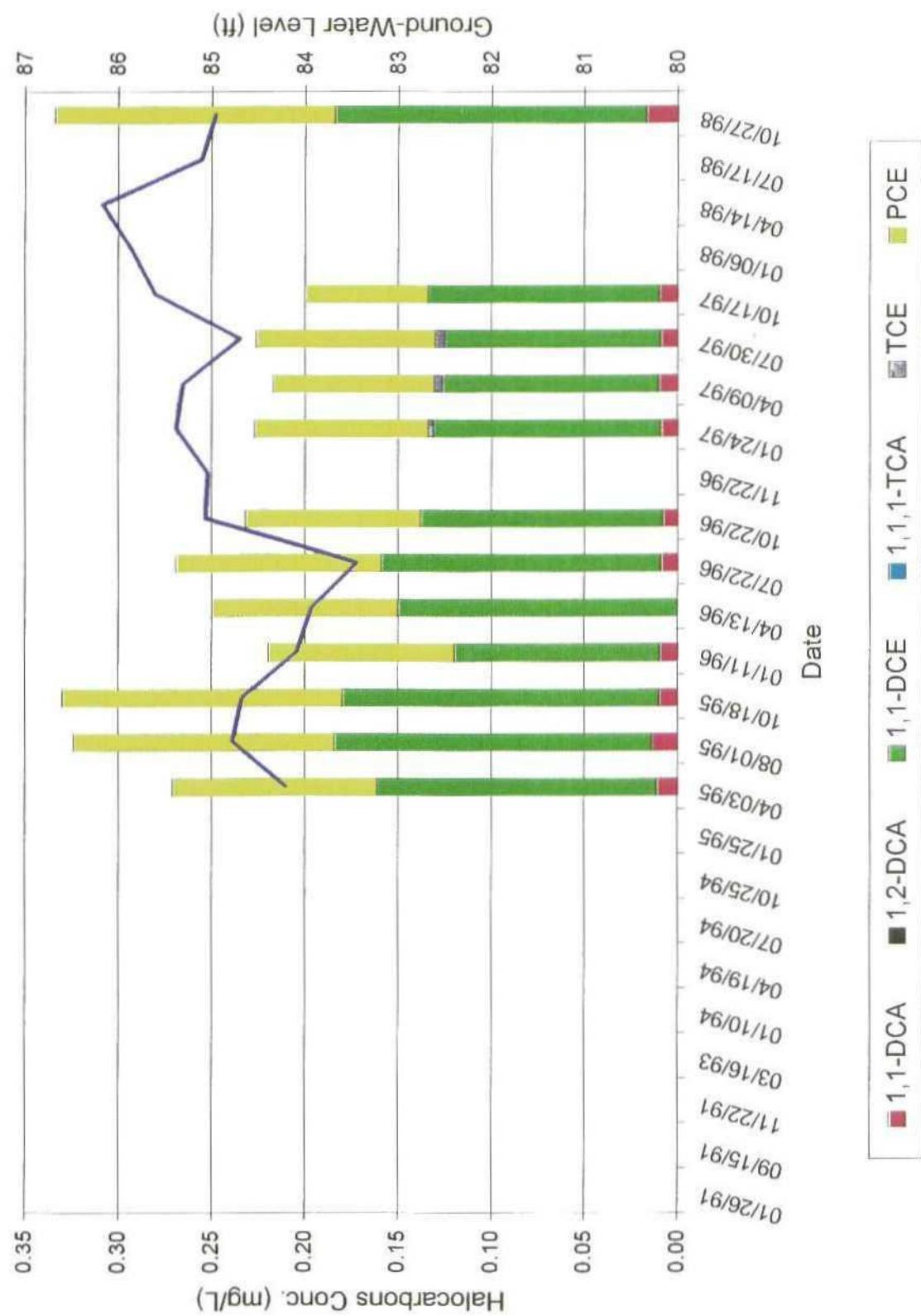


Monitoring Well MW-18

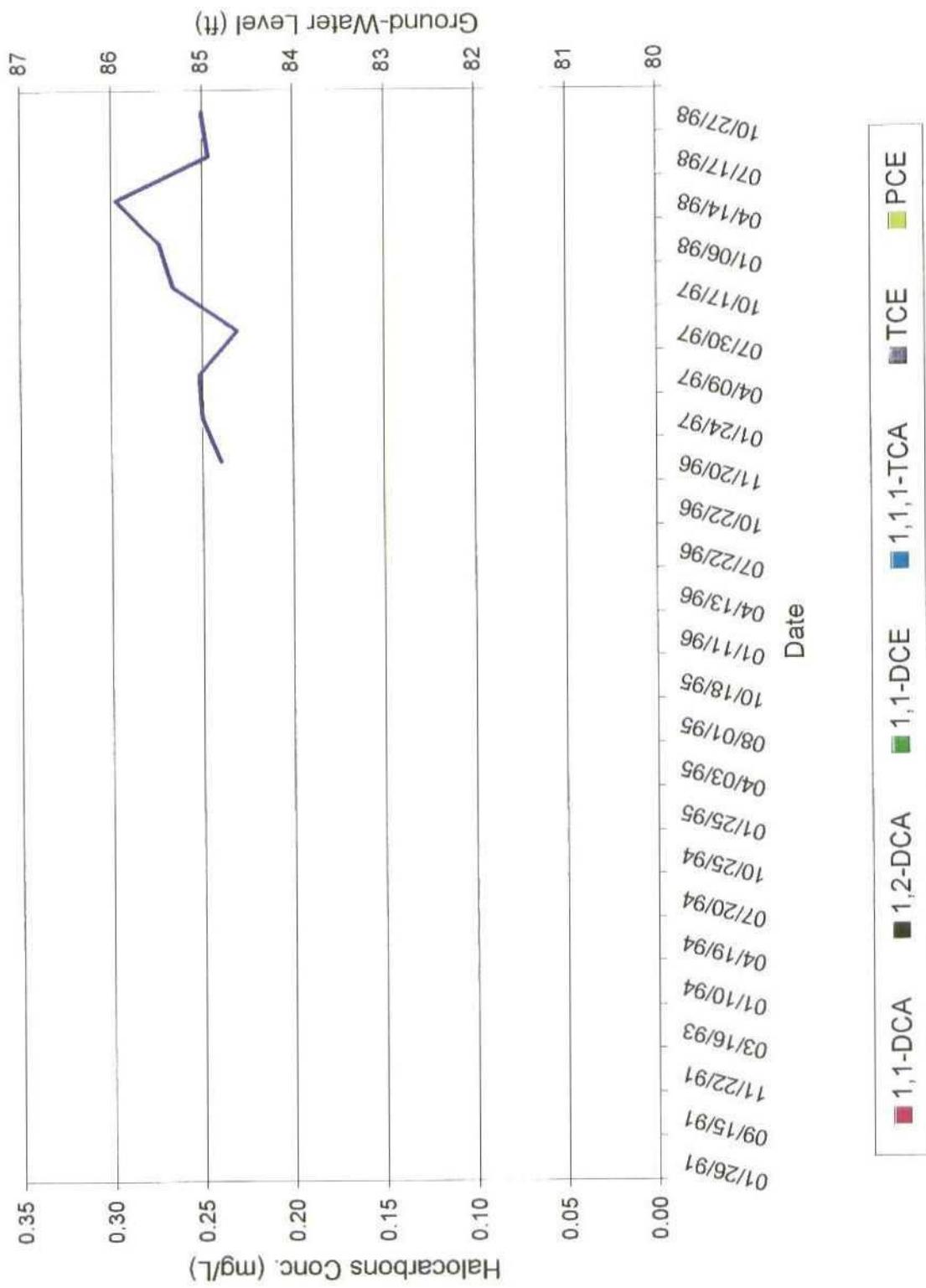
Halocarbons & Ground-Water Level



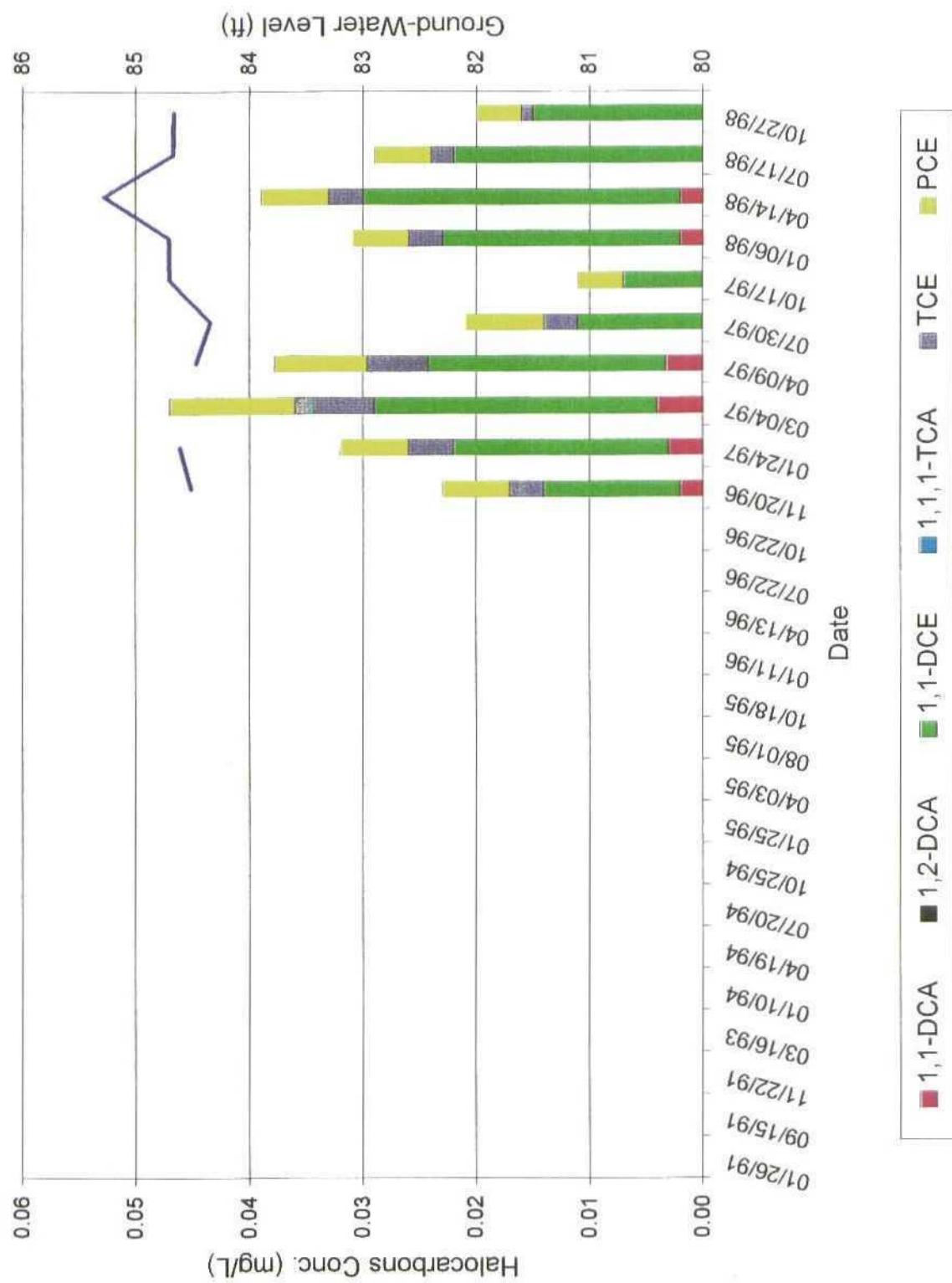
Monitoring Well MW-19 Halocarbons & Ground-Water Level



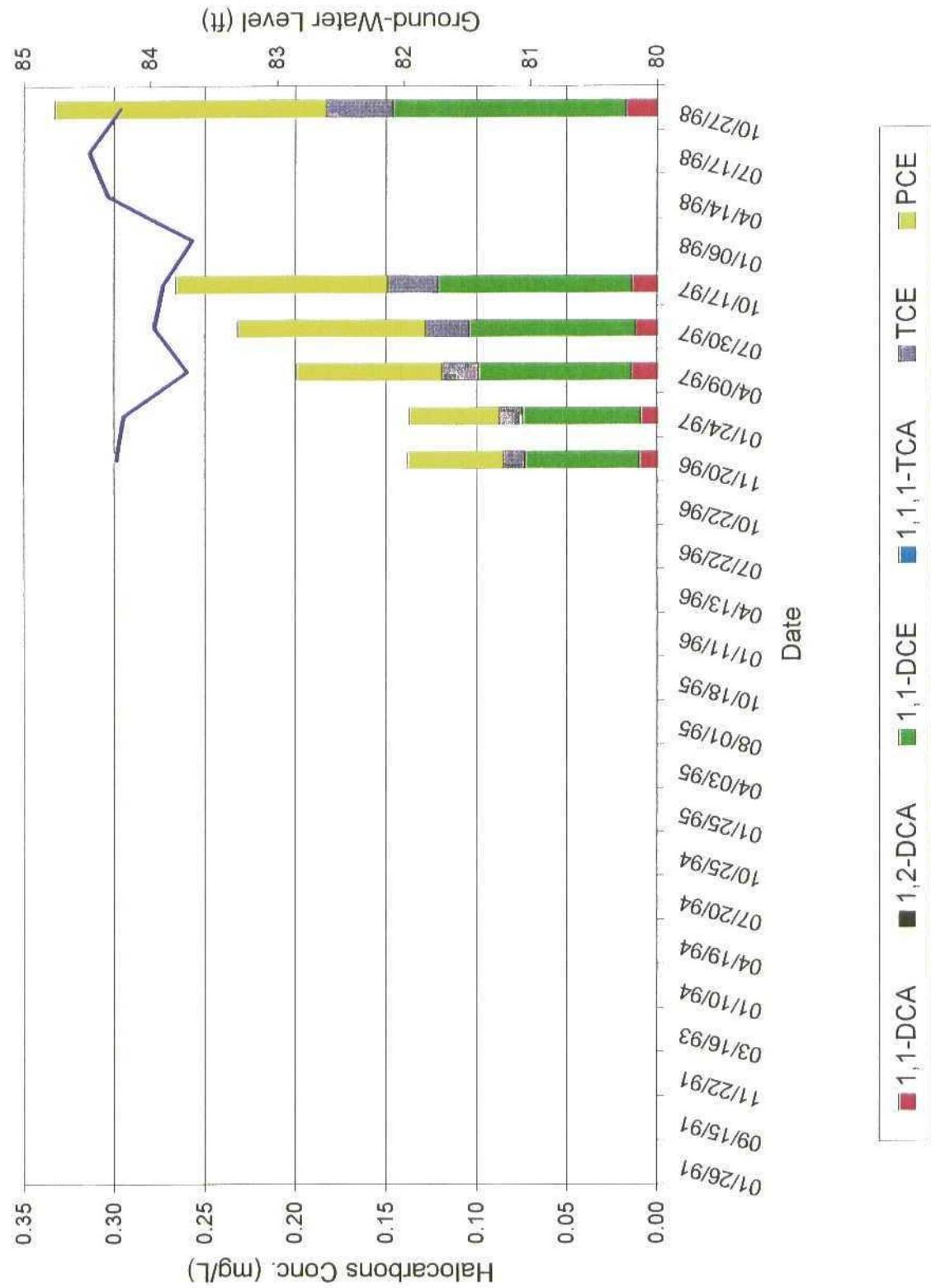
Monitoring Well MW-20 Halocarbons & Ground-Water Level



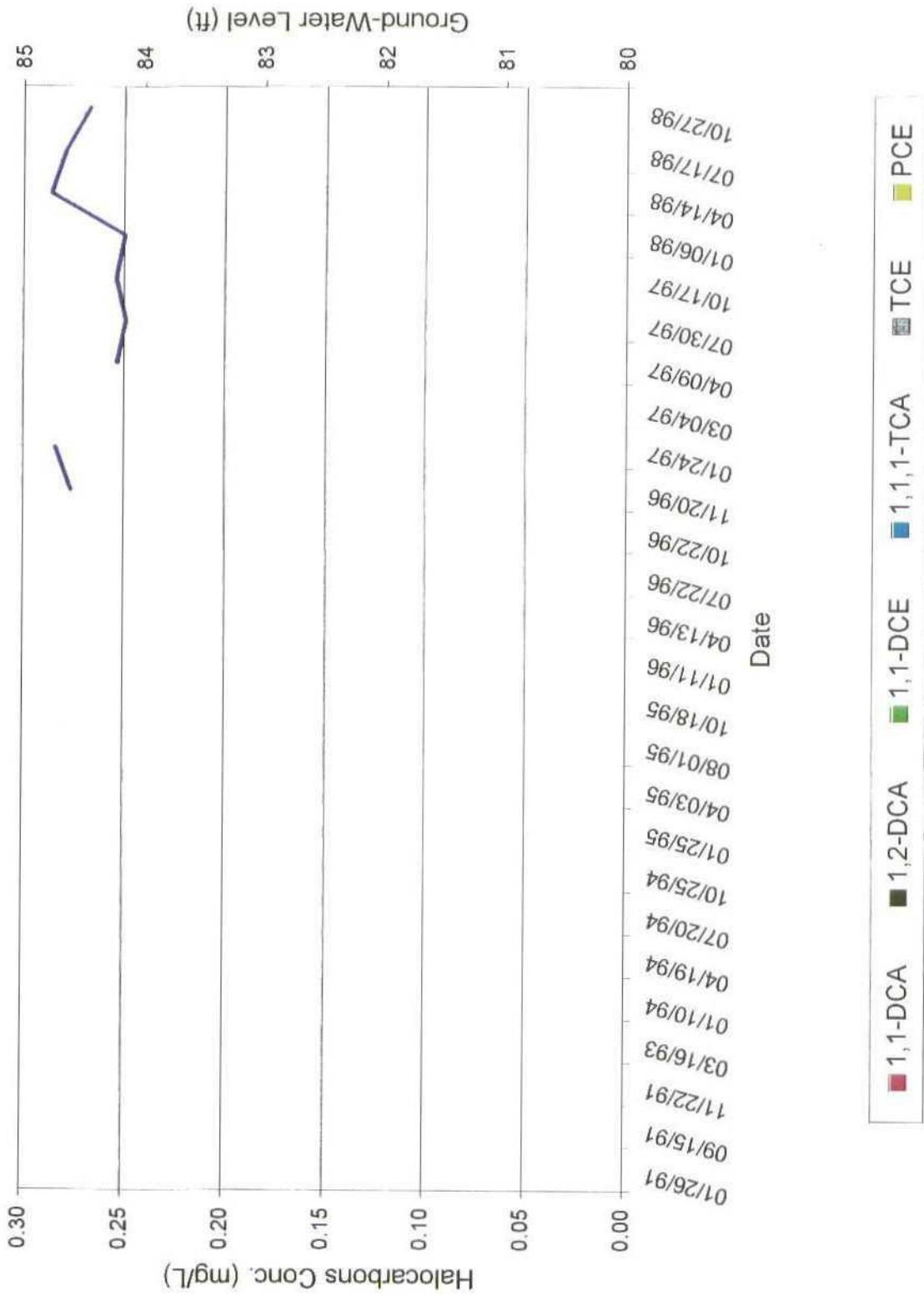
Monitoring Well MW-21 Haloacarbons & Ground-Water Level



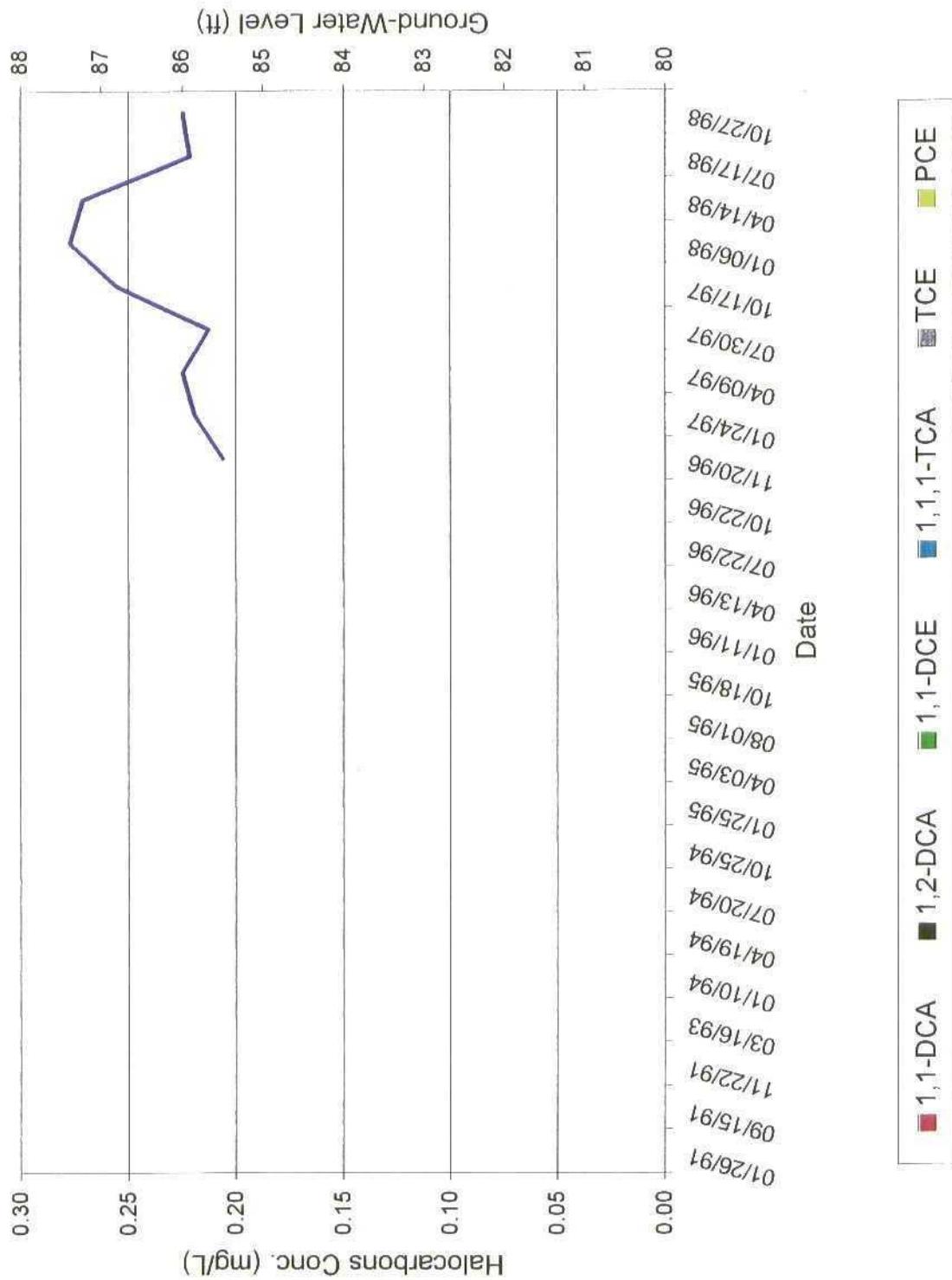
Monitoring Well MW-22 Halocarbons & Ground-Water Level



Monitoring Well MW-23 Halocarbons & Ground-Water Level

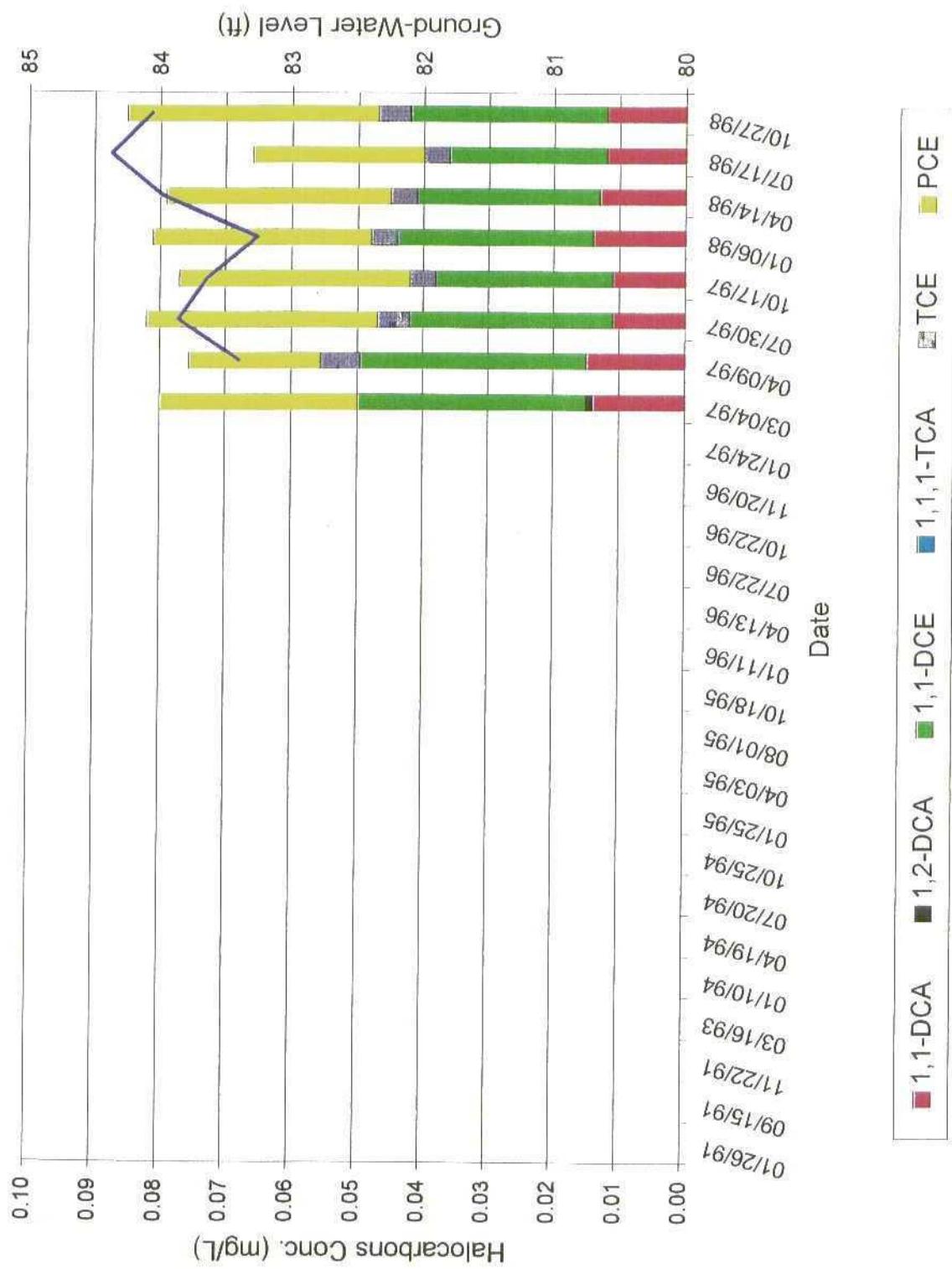


Monitoring Well MW-24 Halocarbons & Ground-Water Level

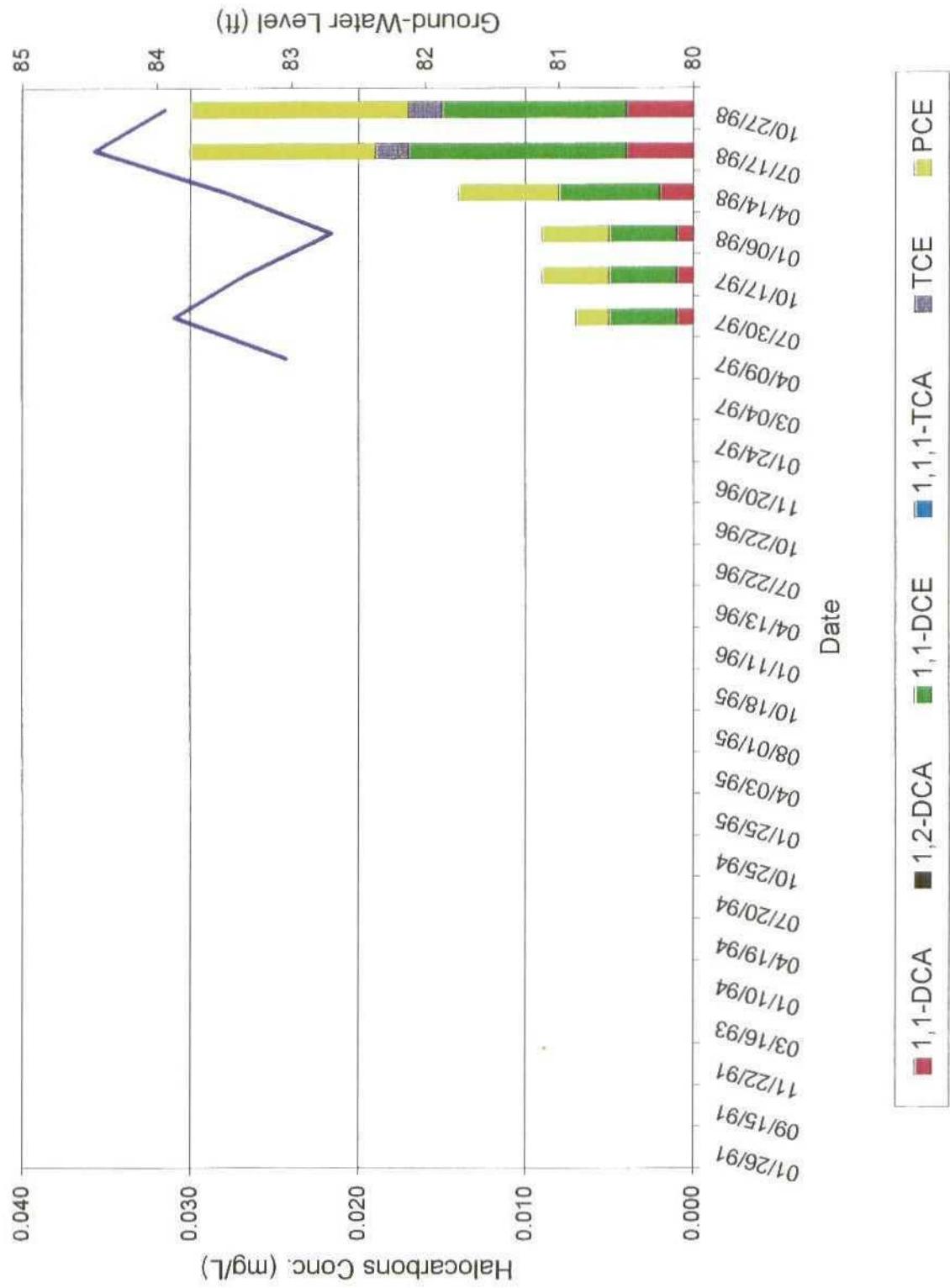


Monitoring Well MW-25

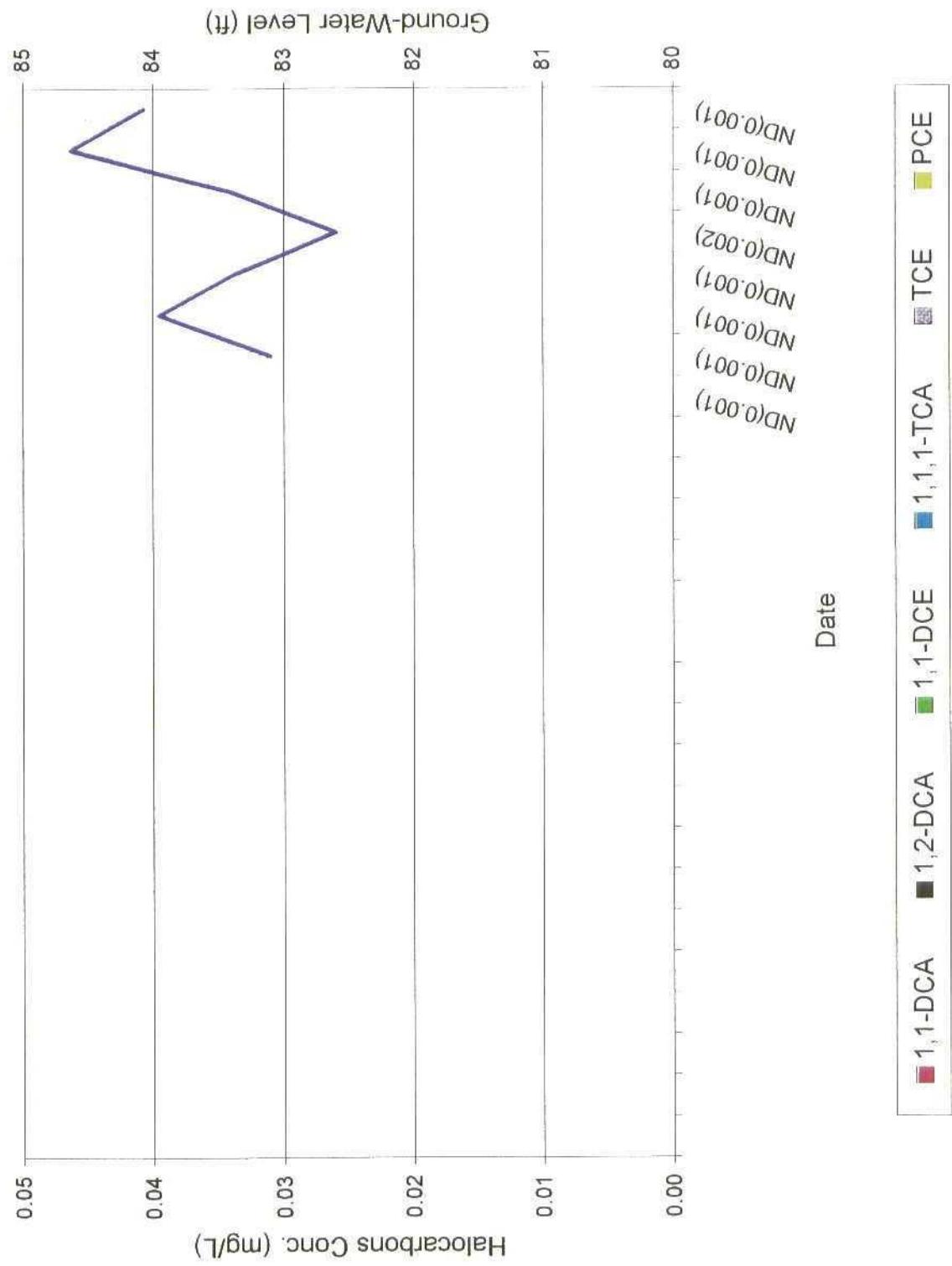
Halocarbons & Ground-Water Level



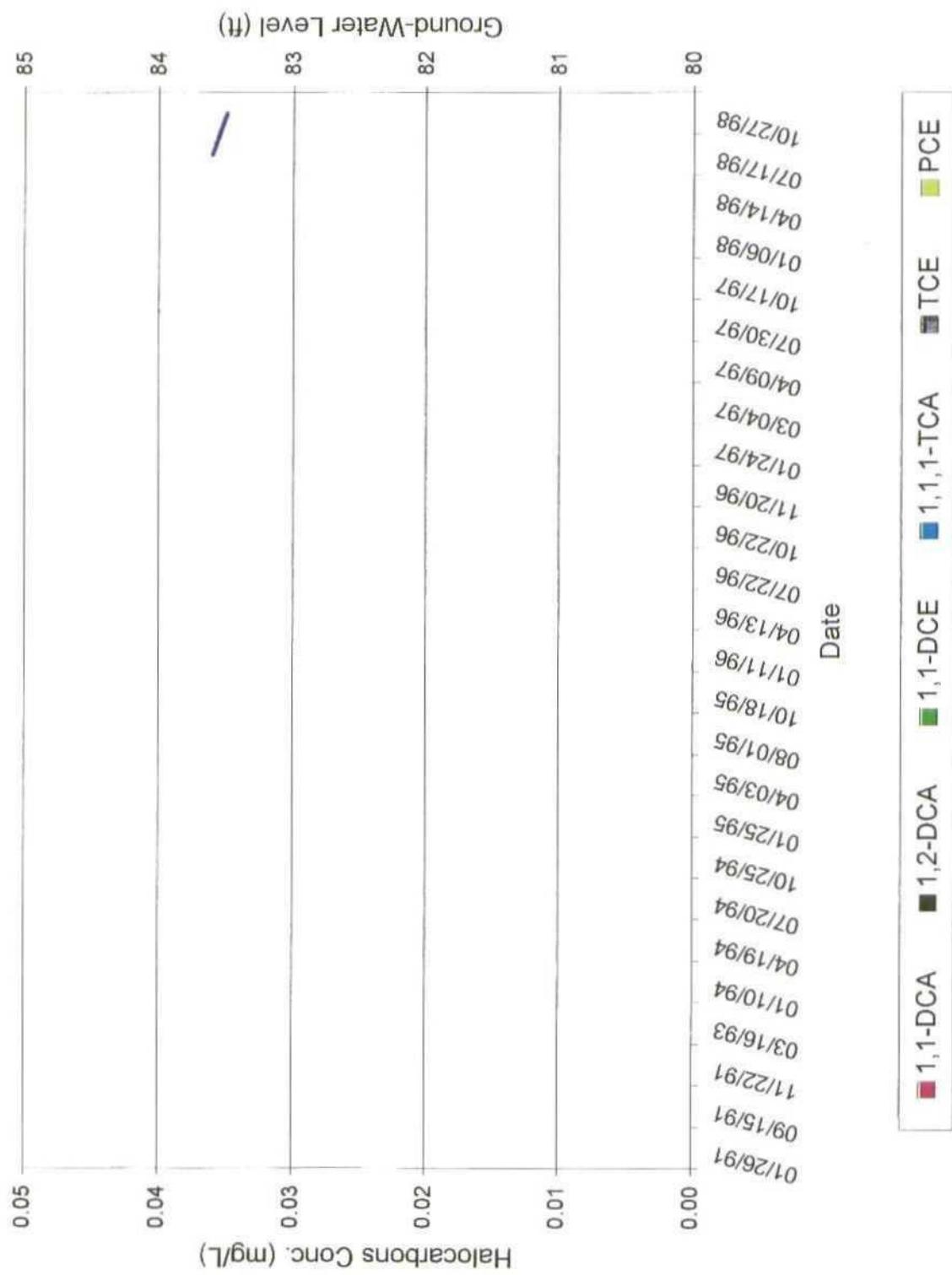
Monitoring Well MW-26 Halocarbons & Ground-Water Level



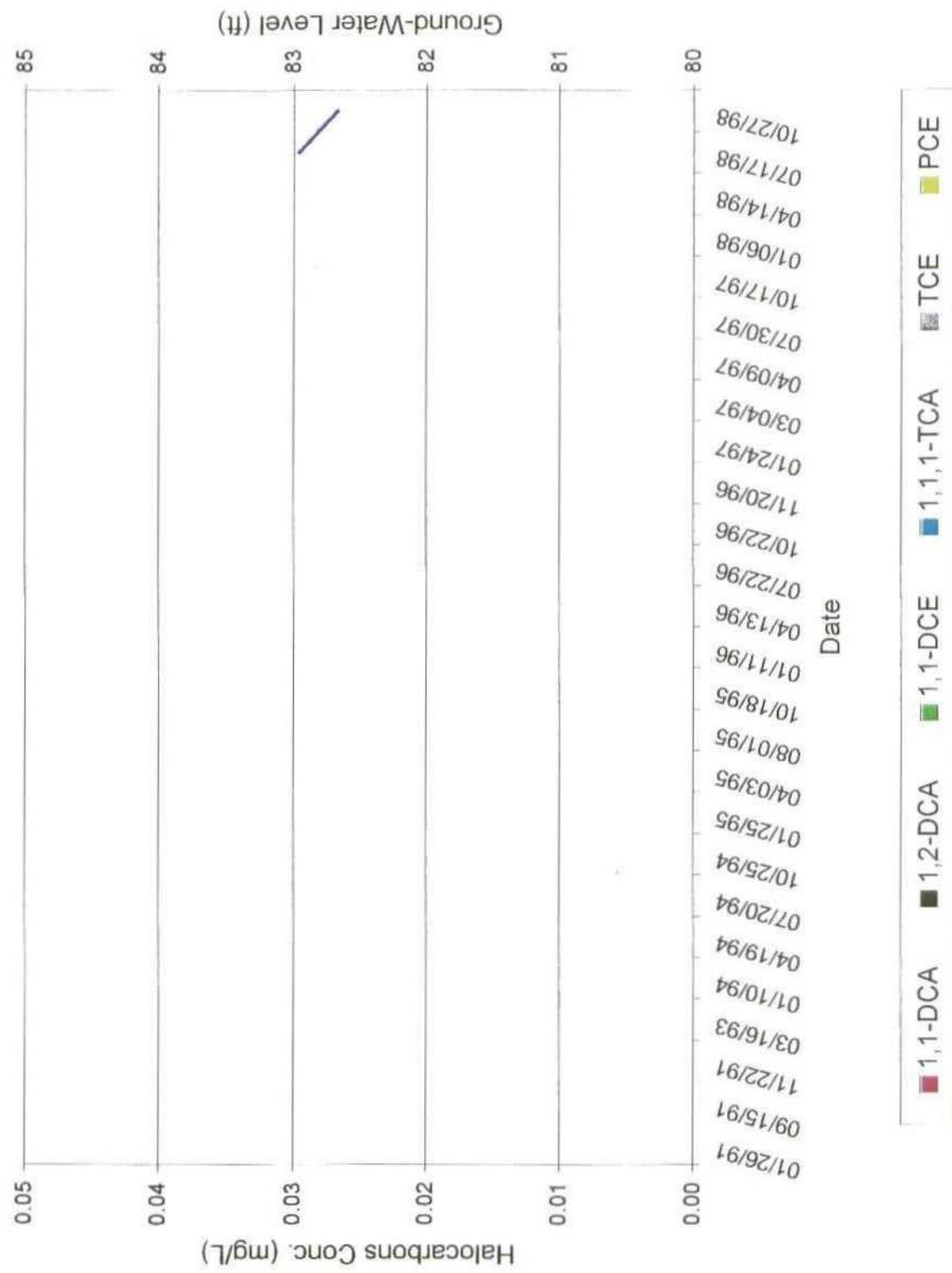
Monitoring Well MW-27 Halocarbons & Ground-Water Level



Monitoring Well MW-28 Halocarbons & Ground-Water Level



Monitoring Well MW-29 Halocarbons & Ground-Water Level



Monitoring Well MW-30 Halocarbons & Ground-Water Level

