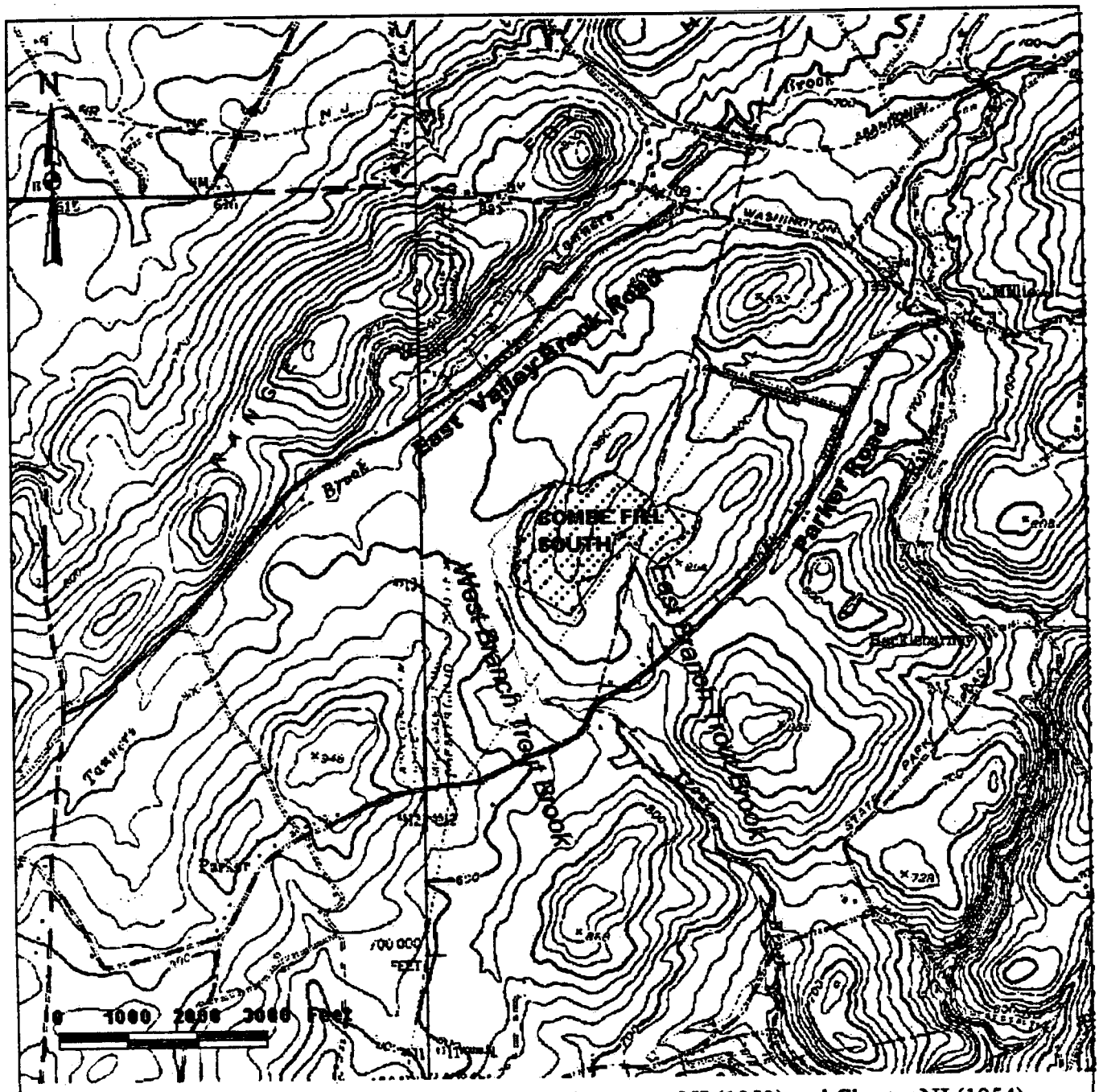
FIGURES

535420



Base map from USGS 7.5 minute quads for Hackettstown NJ (1953) and Chester NJ (1954)

Figure 2.1 Combe Fill South Location Map

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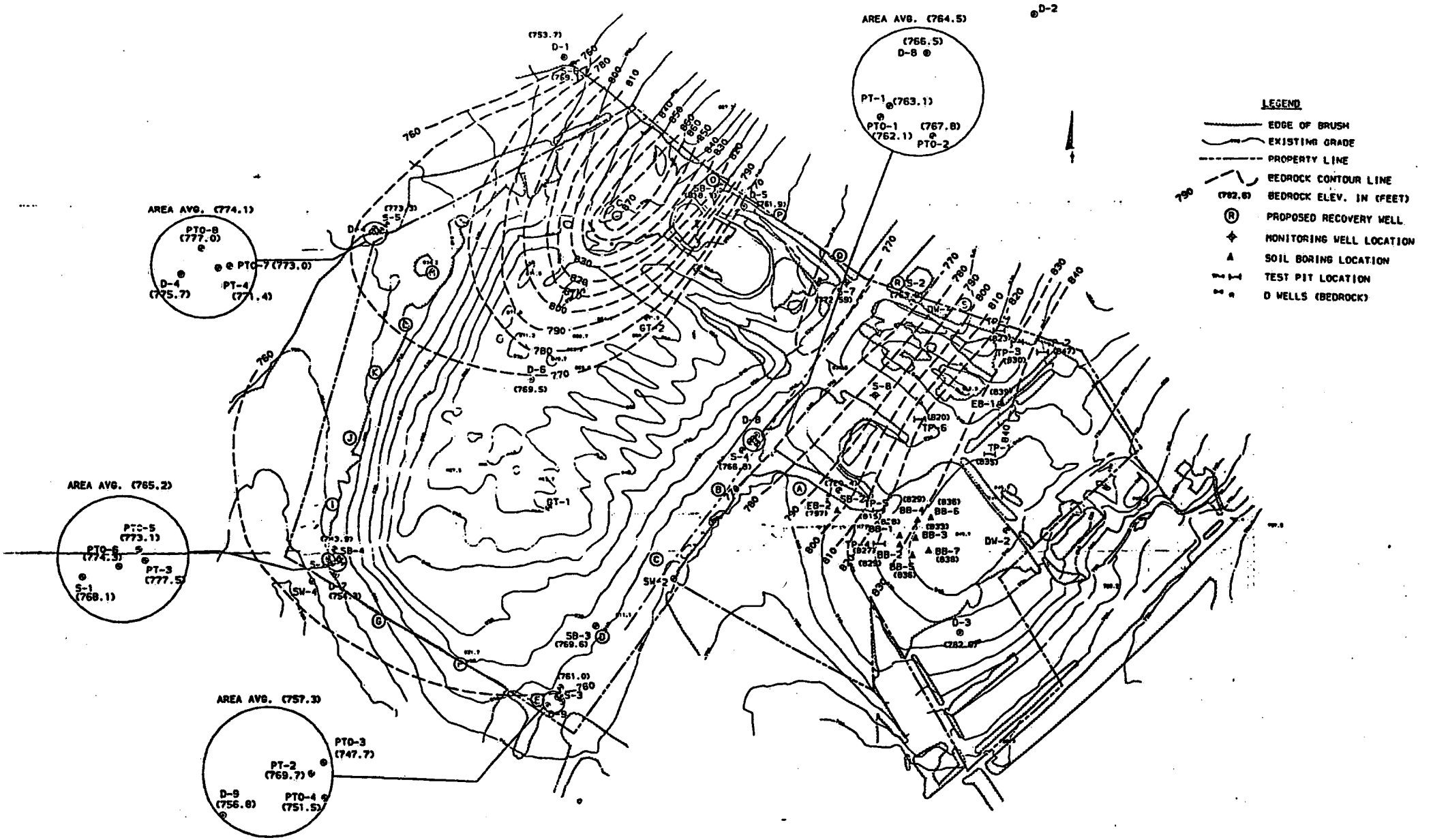
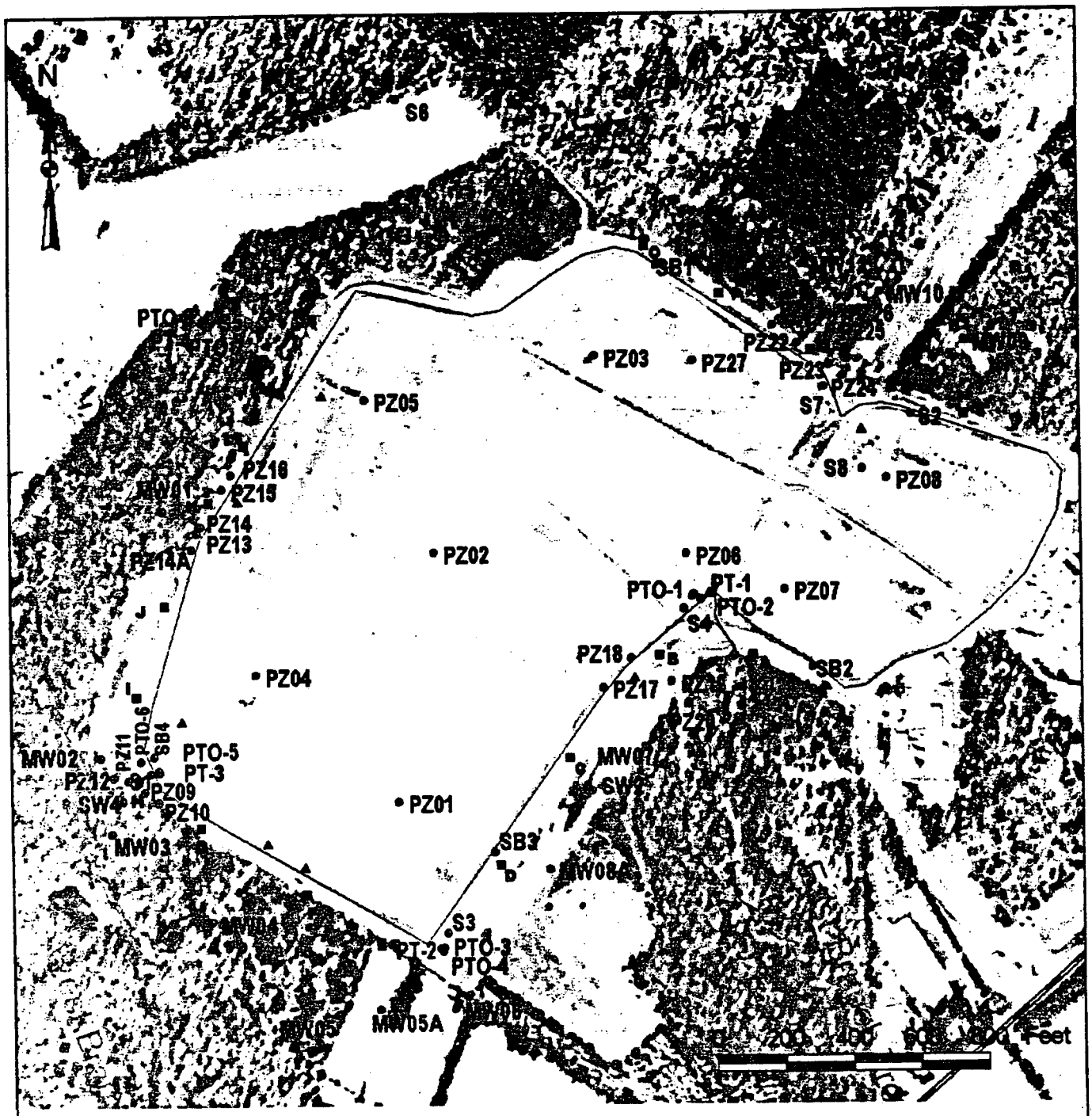


In charge of ____ Designed by CHS Drawn by BAS Checked by PCA	1"=200' 200 0 200 400	O'BRIEN & GERE ENGINEERS, INC. Syracuse, New York	COMBE FILL SOUTH LANDFILL SUPERFUND SITE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION	GEOLOGIC COMBE FILL SOUTH BEDROCK ELEVATION MAP	FILE NO. 3013.012- DATE March 1991	4-2

Figure 2-2



Aerial photo 16Apr95

- Shallow Wells
- Recovery Wells (shallow)
- Leachate Stations

Figure 2.3 Shallow Well Location Map

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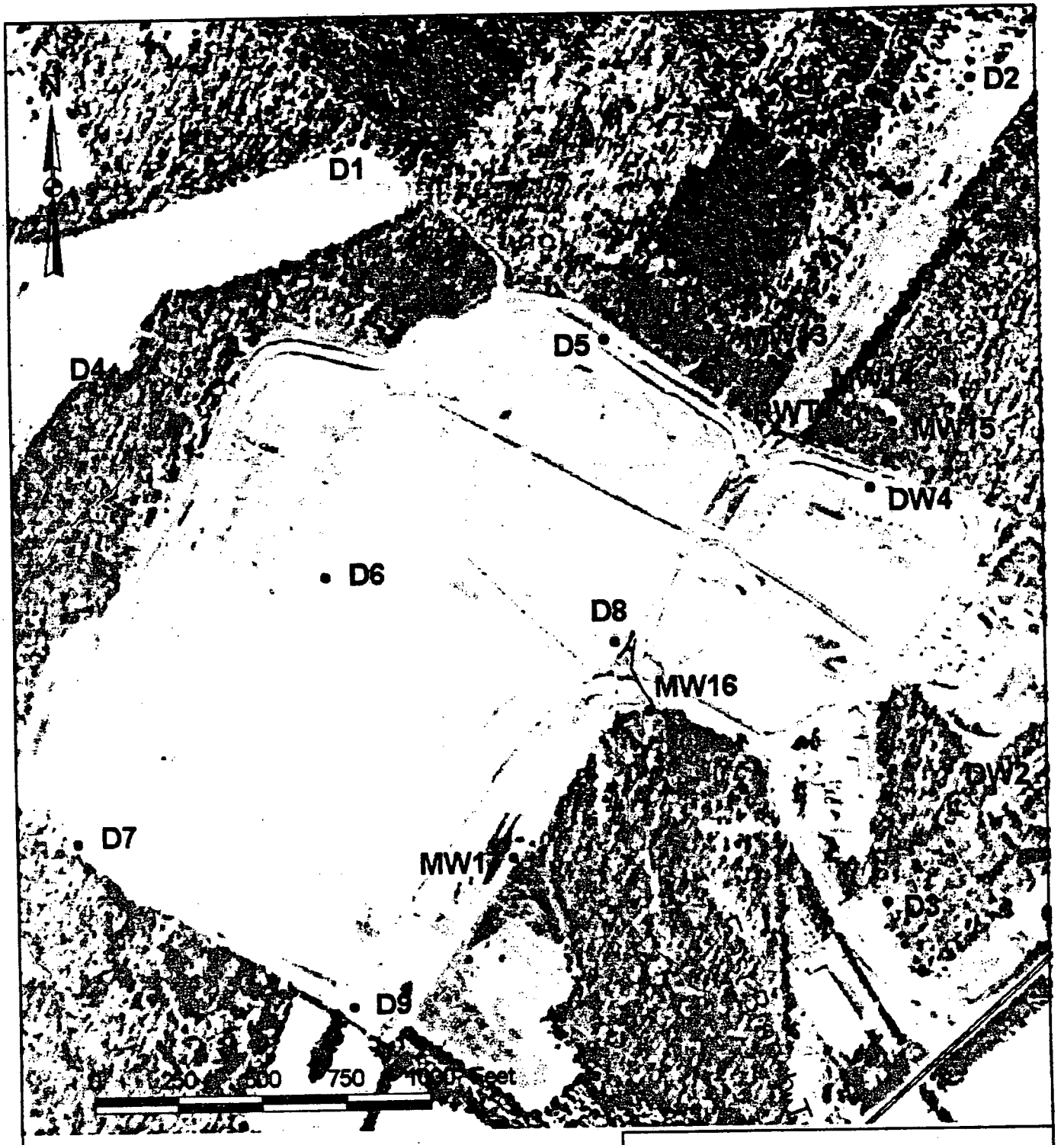

Aerial photo 16Apr95

Figure 2.4 Deep Well Location Map

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Rockville MD

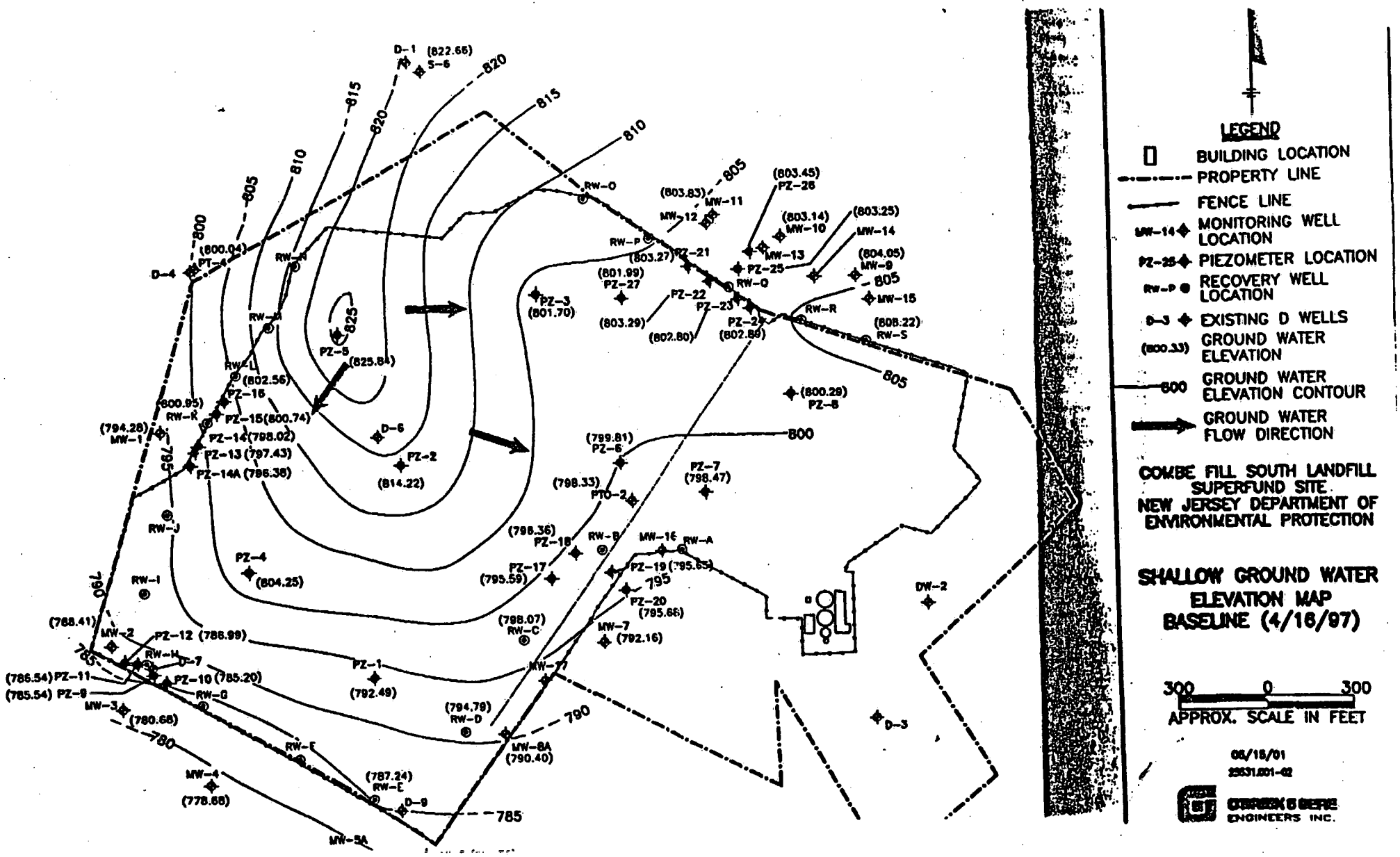
LEGEND
BUILDING LOCATION
PROPERTY LINE
FENCE LINE
MW-14 MONITORING WELL LOCATION
PZ-25 PIEZOMETER LOCATION
RW-P RECOVERY WELL LOCATION
D-3 EXISTING D WELLS
(800.33) GROUND WATER ELEVATION
800 GROUND WATER ELEVATION CONTOUR
GROUND WATER FLOW DIRECTION
COMBE FILL SOUTH LANDFILL SUPERFUND SITE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
SHALLOW GROUND WATER ELEVATION MAP BASELINE (4/16/97)
300 0 300
APPROX. SCALE IN FEET
05/15/01
25531.001-02
CORNELL & GERE ENGINEERS INC.

Figure 2-5

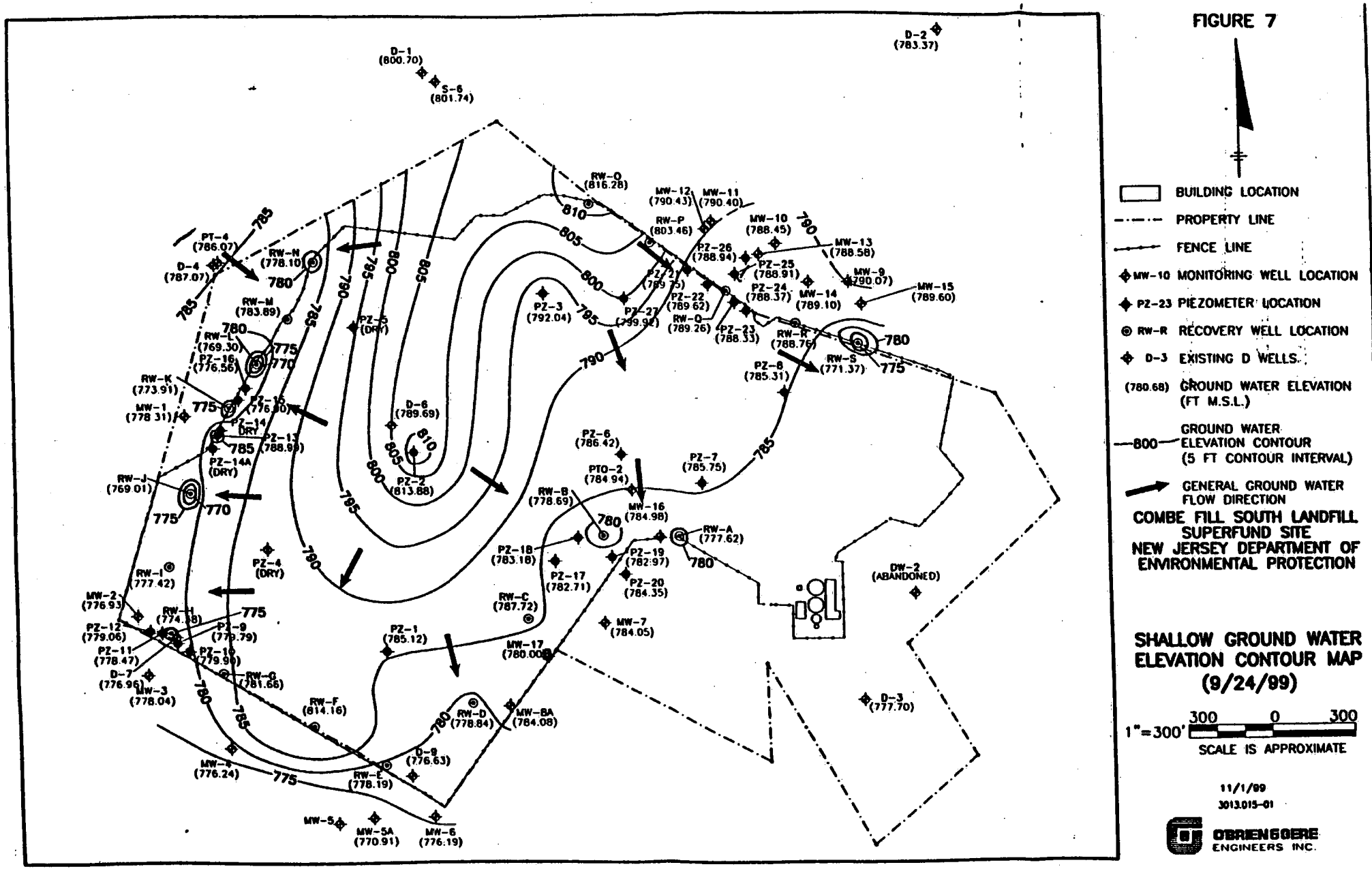
FIGURE 7
BUILDING LOCATION
PROPERTY LINE
FENCE LINE
MW-10 MONITORING WELL LOCATION
PZ-23 PIEZOMETER LOCATION
RW-R RECOVERY WELL LOCATION
D-3 EXISTING D WELLS
(780.68) GROUND WATER ELEVATION (FT M.S.L.)
800 GROUND WATER ELEVATION CONTOUR (5 FT CONTOUR INTERVAL)
GENERAL GROUND WATER FLOW DIRECTION
COMBE FILL SOUTH LANDFILL SUPERFUND SITE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
SHALLOW GROUND WATER ELEVATION CONTOUR MAP (9/24/99)
1"=300'
300 0 300
SCALE IS APPROXIMATE
11/1/99
3013.015-01
O'BRIEN & GERE ENGINEERS INC.
D-1 (800.70)
S-6 (801.74)
D-2 (783.37)
RW-O (816.28)
MW-12 (790.43)
MW-11 (790.40)
RW-P (803.46)
MW-10 (788.45)
MW-13 (788.58)
PZ-26 (788.94)
PZ-25 (788.91)
MW-9 (790.07)
PZ-24 (788.37)
MW-14 (789.10)
MW-15 (789.60)
PZ-22 (789.62)
RW-Q (789.26)
PZ-23 (788.33)
RW-R (788.76)
RW-S (771.37)
PZ-8 (785.31)
PT-4 (786.07)
D-4 (787.07)
RW-N (778.10)
RW-M (783.89)
PZ-5 (DRY)
PZ-3 (792.04)
RW-L (769.30)
PZ-16 (776.56)
RW-K (773.91)
MW-1 (778.31)
PZ-15 (776.80)
PZ-14 DRY
PZ-13 (788.99)
PZ-14A (DRY)
RW-J (769.01)
D-6 (789.69)
PZ-2 (813.88)
PZ-6 (786.42)
PTO-2 (784.94)
PZ-7 (785.75)
RW-B (778.69)
MW-16 (784.98)
RW-A (777.62)
PZ-18 (783.18)
PZ-19 (782.97)
PZ-17 (782.71)
PZ-20 (784.35)
RW-C (787.72)
MW-7 (784.05)
DW-2 (ABANDONED)
PZ-4 (DRY)
RW-I (777.42)
MW-2 (776.93)
RW-H (774.28)
PZ-12 (779.06)
PZ-9 (779.79)
PZ-11 (778.47)
PZ-10 (779.96)
D-7 (776.96)
RW-G (781.66)
MW-3 (778.04)
PZ-1 (785.12)
MW-17 (780.00)
RW-F (814.16)
RW-D (778.84)
MW-8A (784.08)
D-3 (777.70)
D-9 (776.63)
MW-4 (776.24)
RW-E (778.19)
MW-5
MW-5A (770.91)
MW-6 (776.19)
810
805
800
795
790
785
780
775
770

Figure 2-6

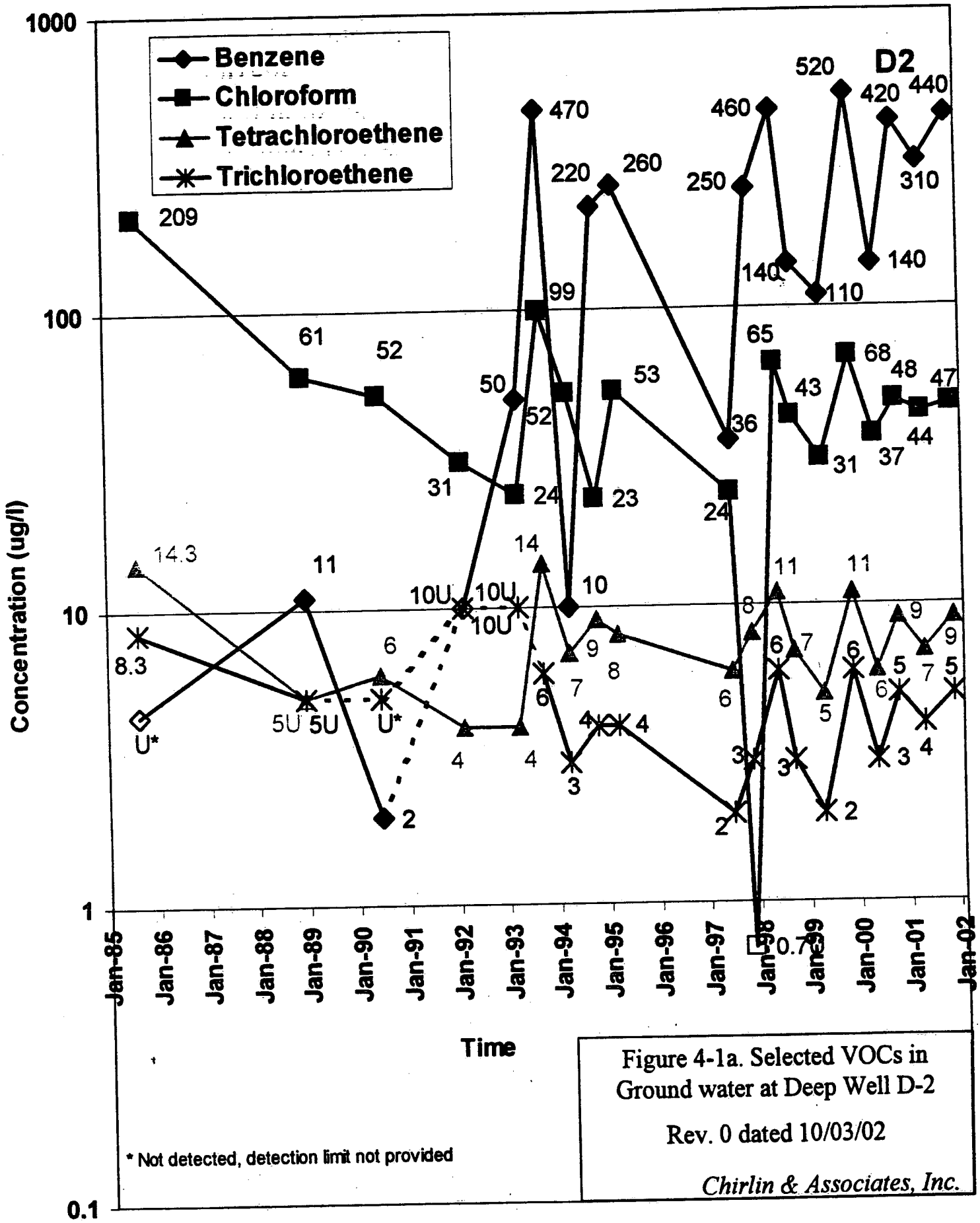

Figure 4-1a. Selected VOCs in Ground water at Deep Well D-2

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

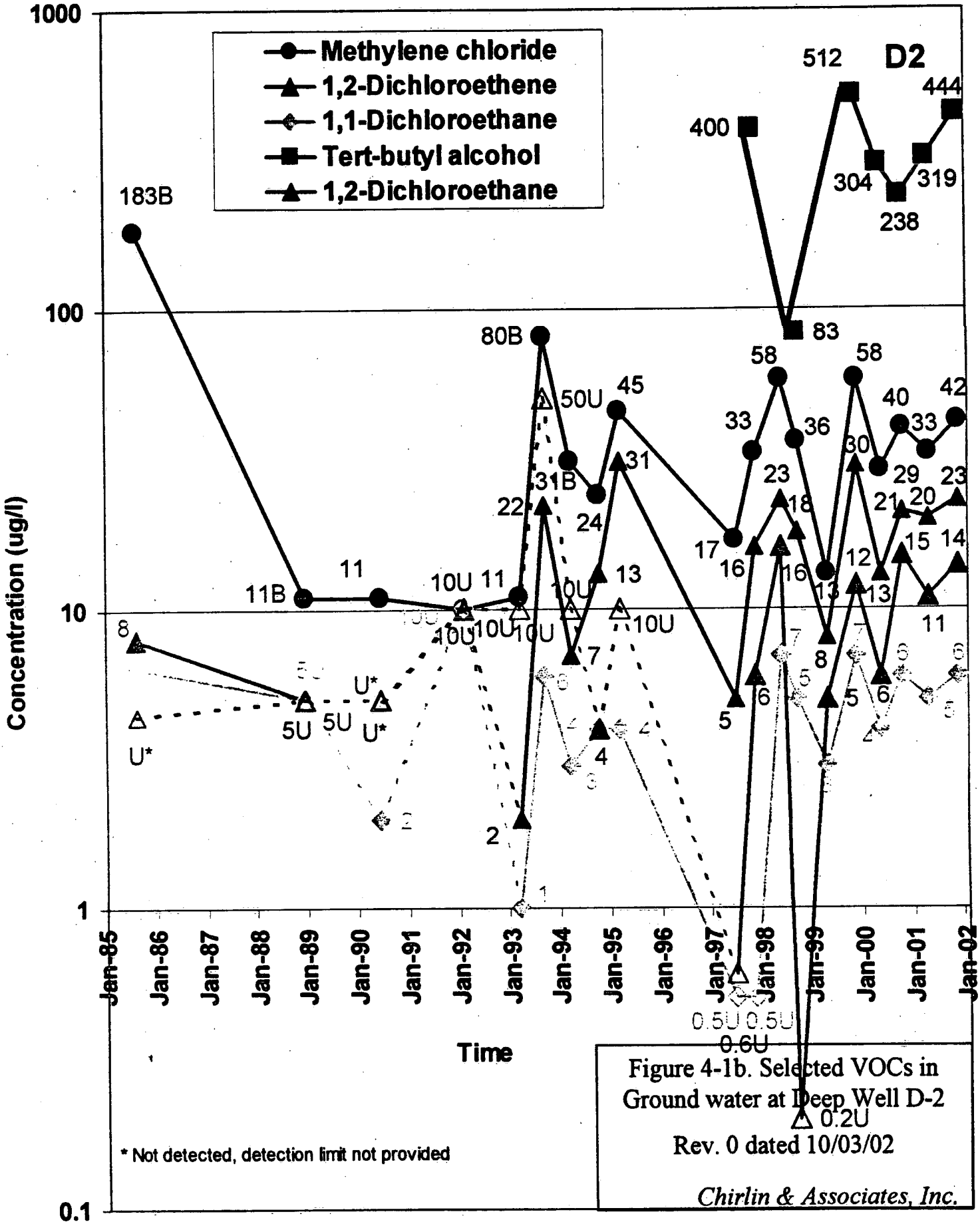

Figure 4-1b. Selected VOCs in Ground water at Deep Well D-2
Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

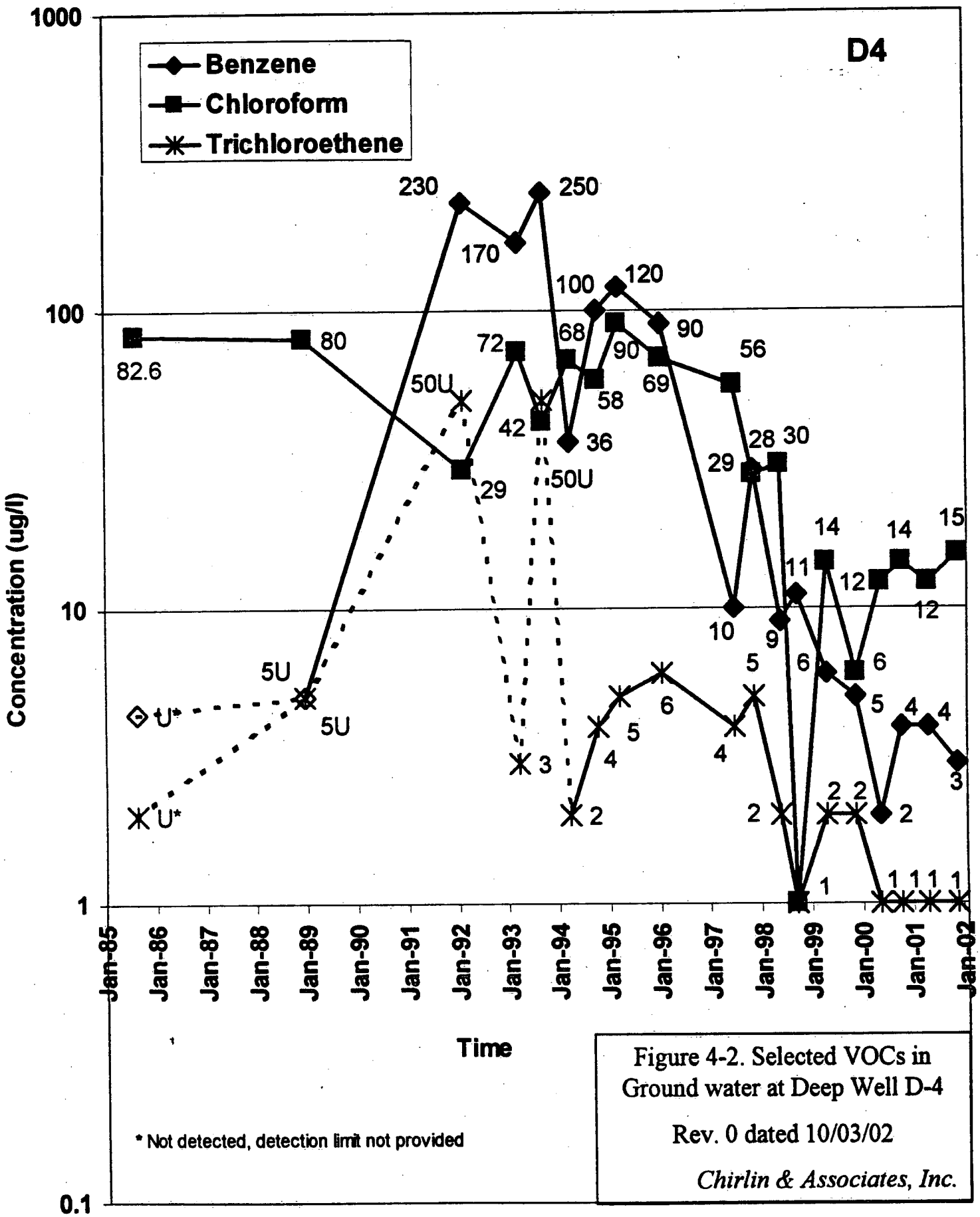

Figure 4-2. Selected VOCs in Ground water at Deep Well D-4

Rev. 0 dated 10/03/02

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* Not detected, detection limit not provided

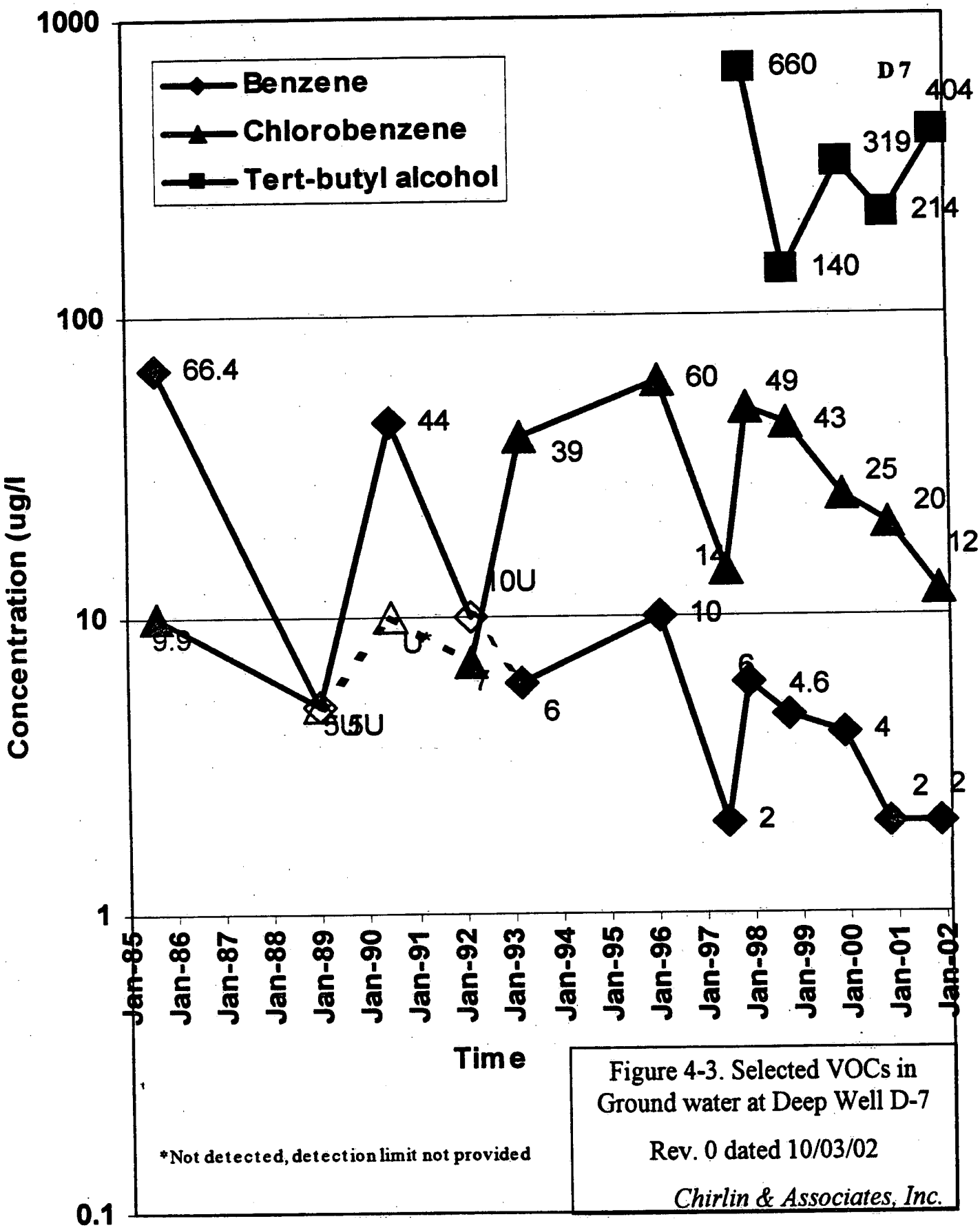

Figure 4-3. Selected VOCs in Ground water at Deep Well D-7

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

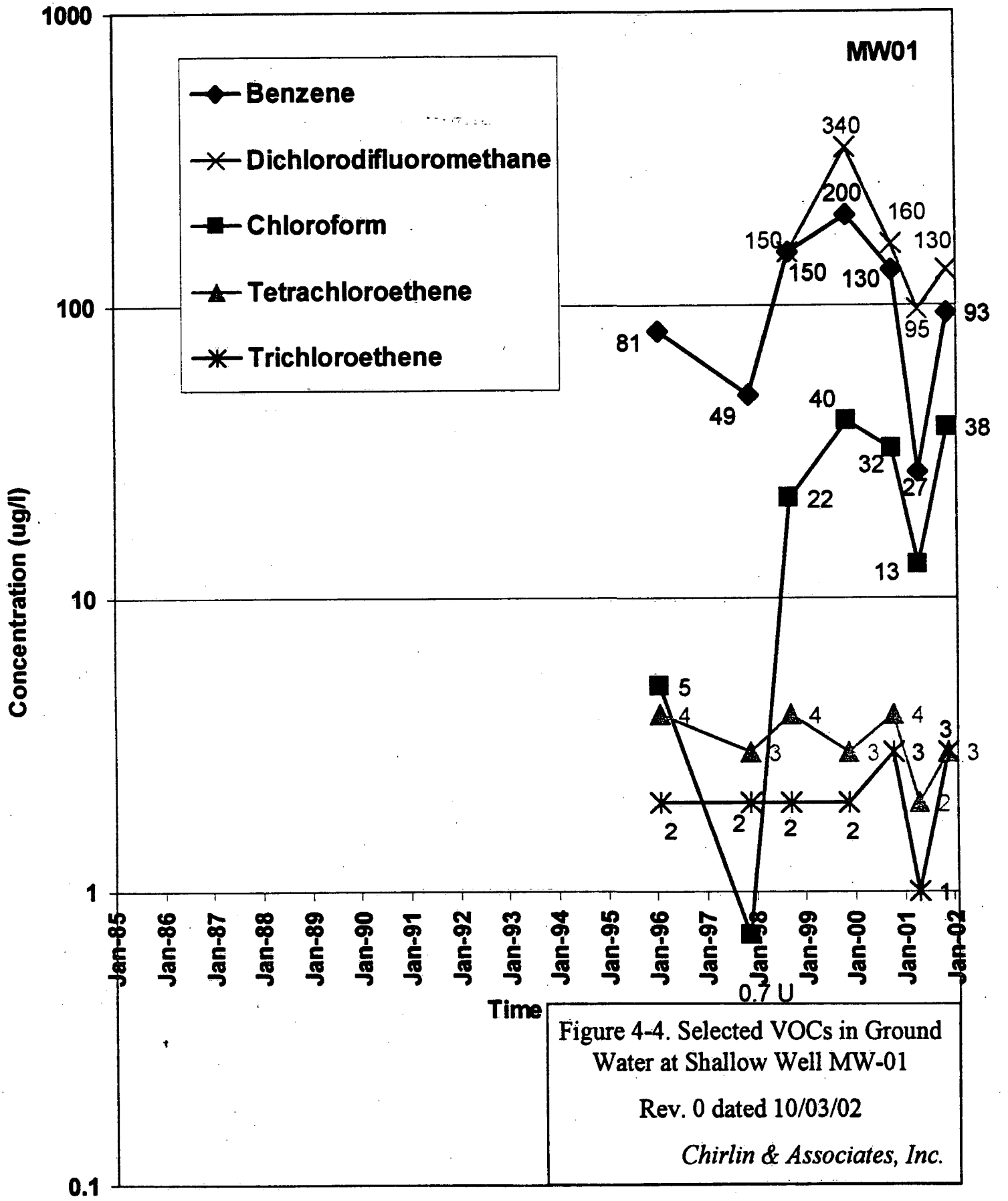

Figure 4-4. Selected VOCs in Ground Water at Shallow Well MW-01

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

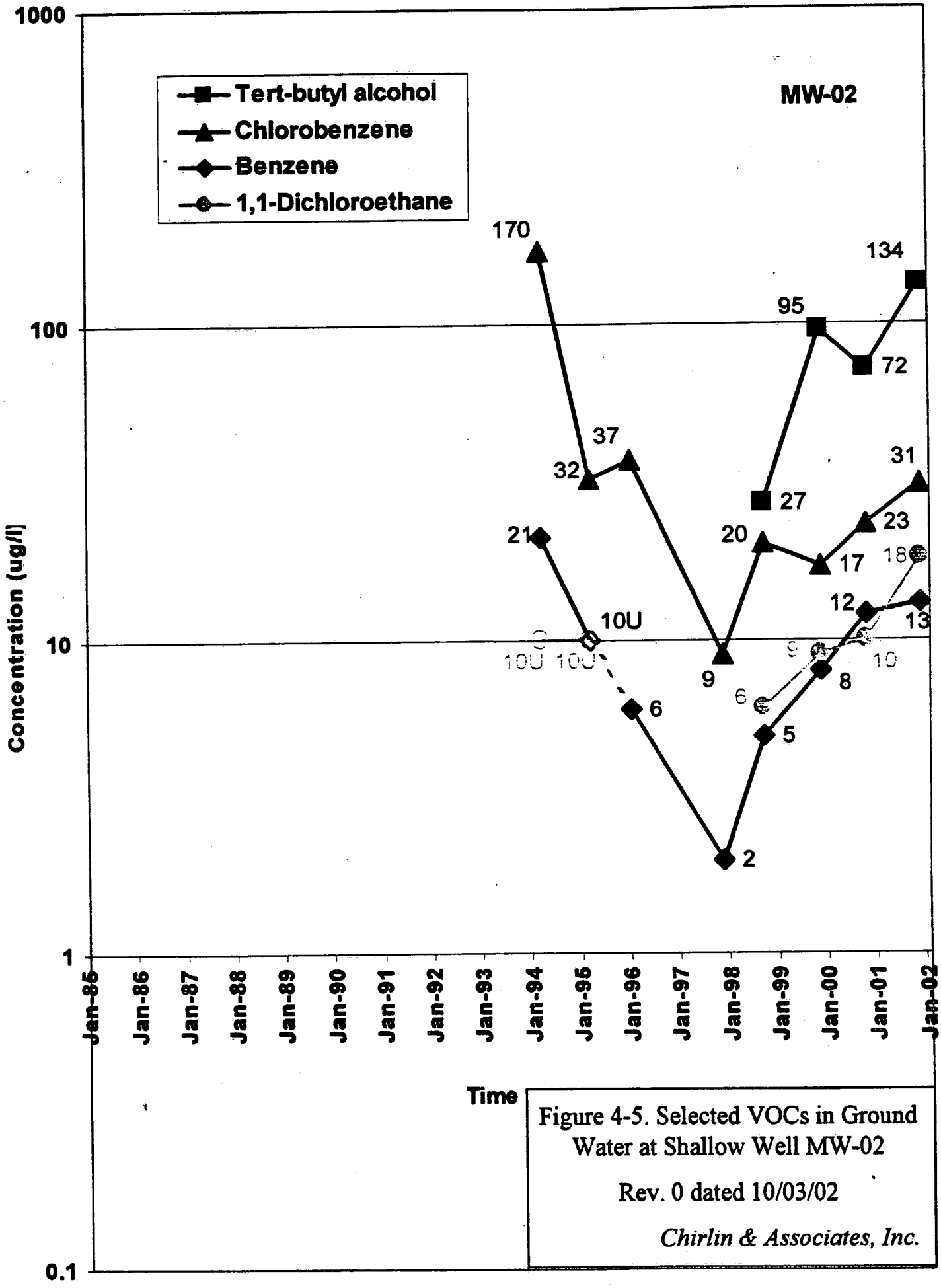

Figure 4-5. Selected VOCs in Ground Water at Shallow Well MW-02

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

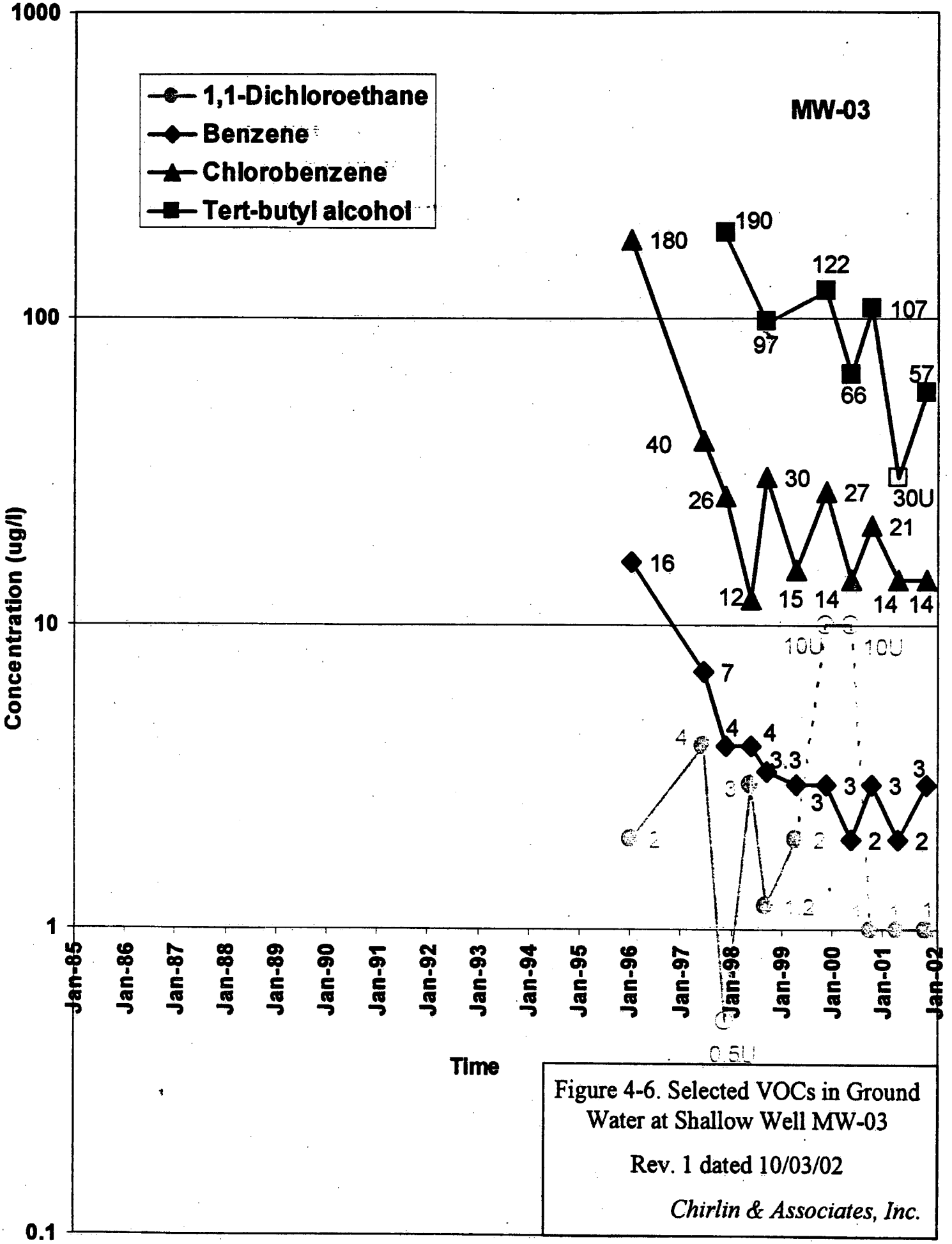

Figure 4-6. Selected VOCs in Ground Water at Shallow Well MW-03

Rev. 1 dated 10/03/02

Chirlin & Associates, Inc.

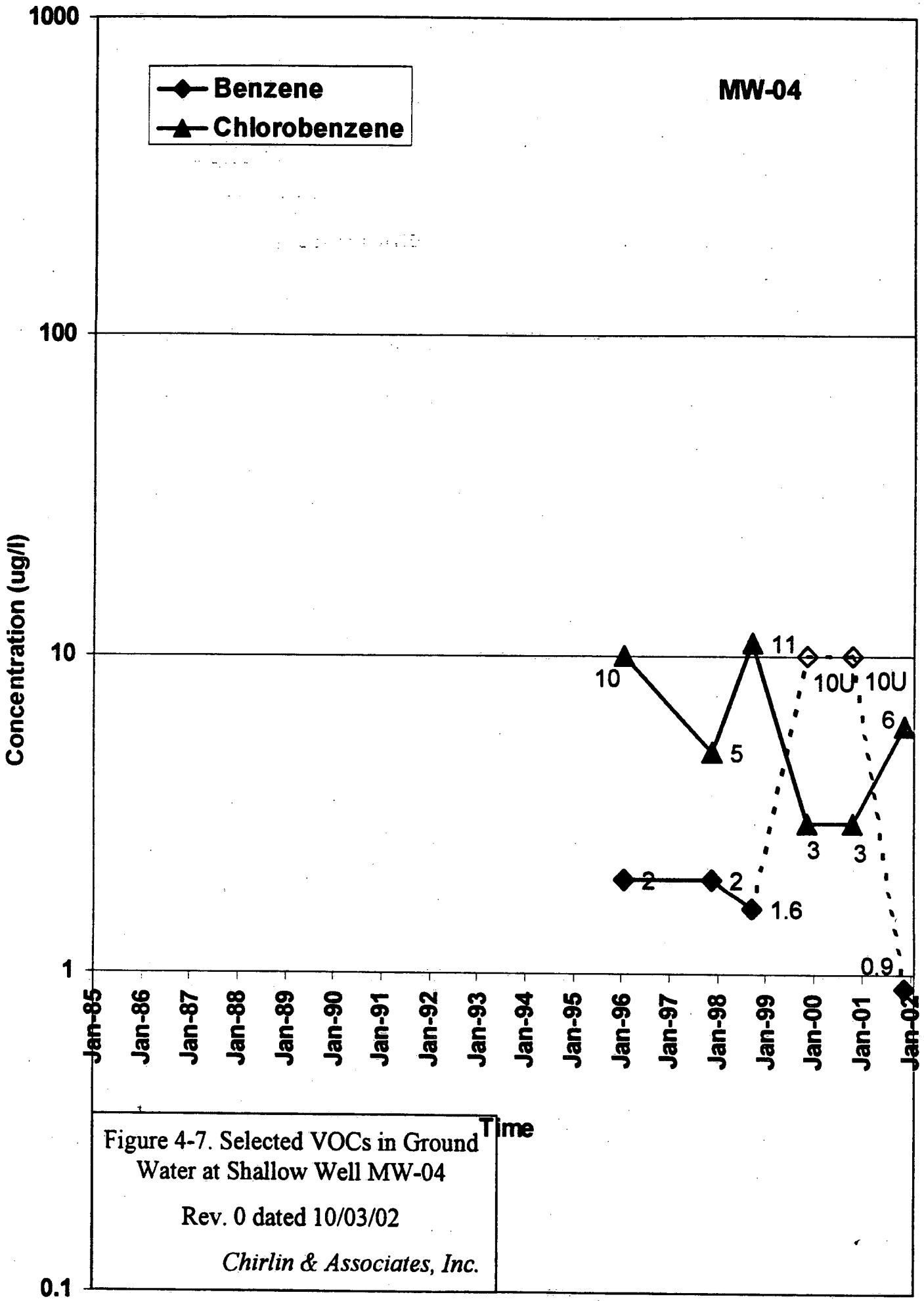

Figure 4-7. Selected VOCs in Ground Water at Shallow Well MW-04

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

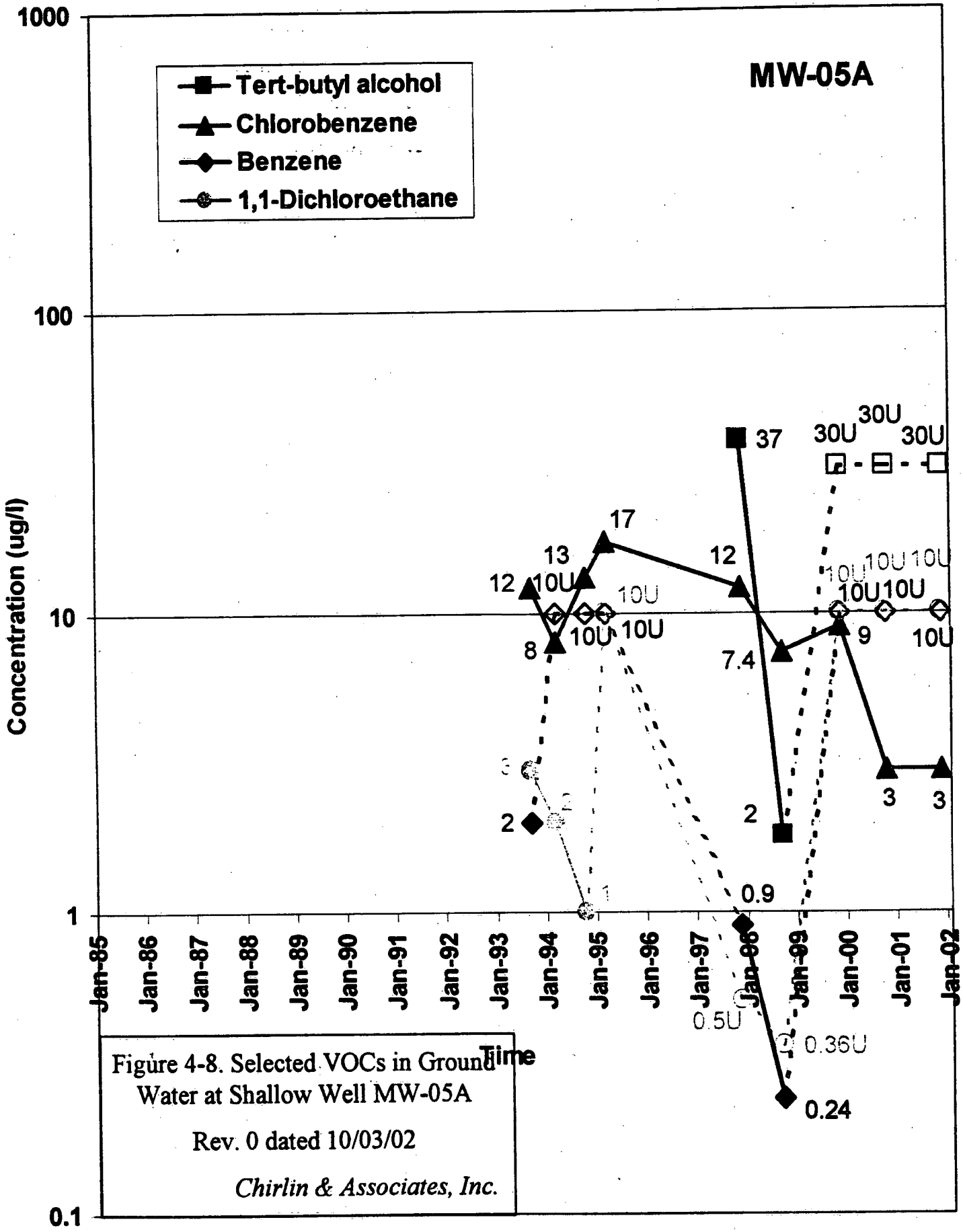

Figure 4-8. Selected VOCs in Ground Water at Shallow Well MW-05A

Rev. 0 dated 10/03/02

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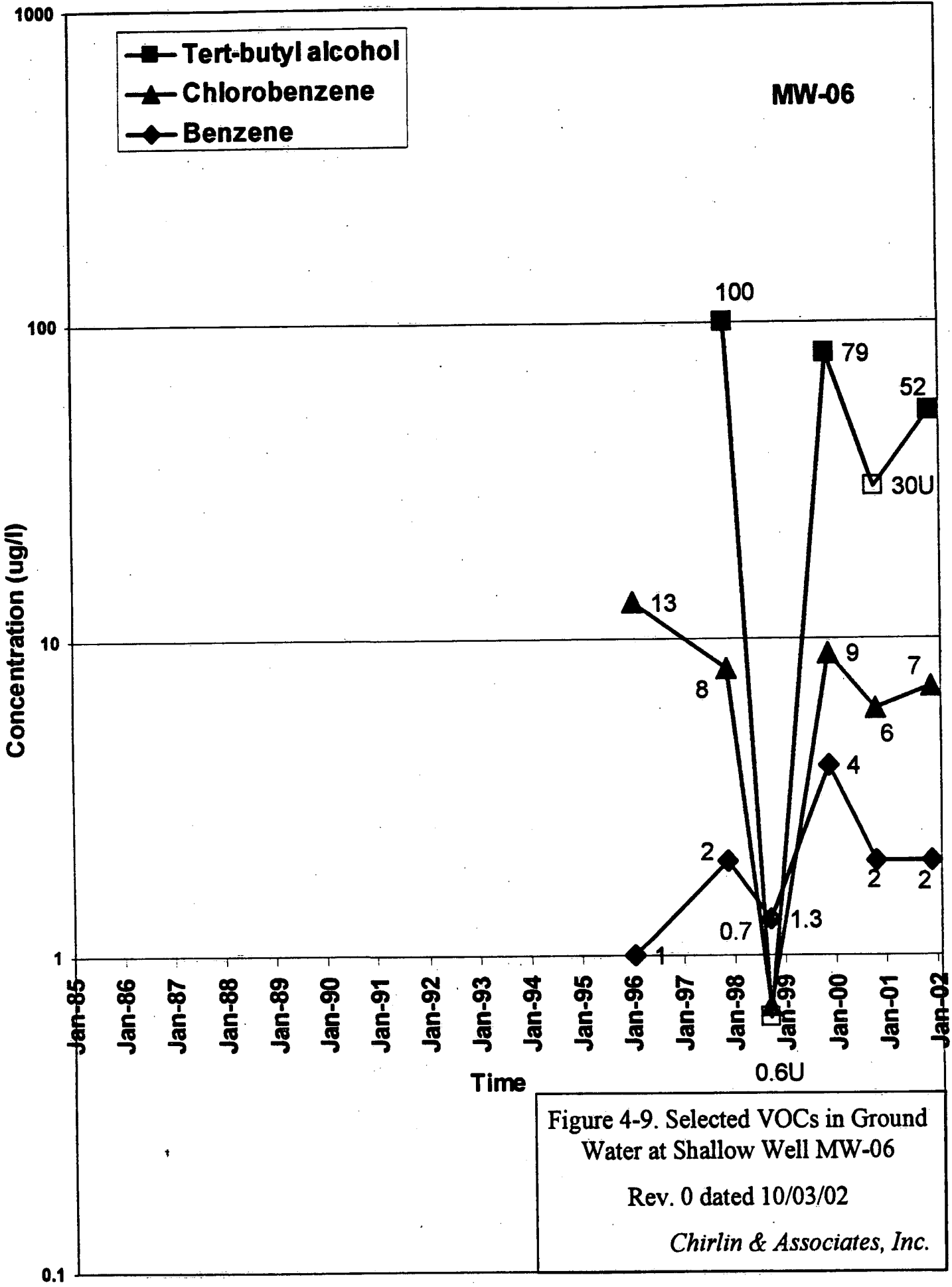

Figure 4-9. Selected VOCs in Ground Water at Shallow Well MW-06

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

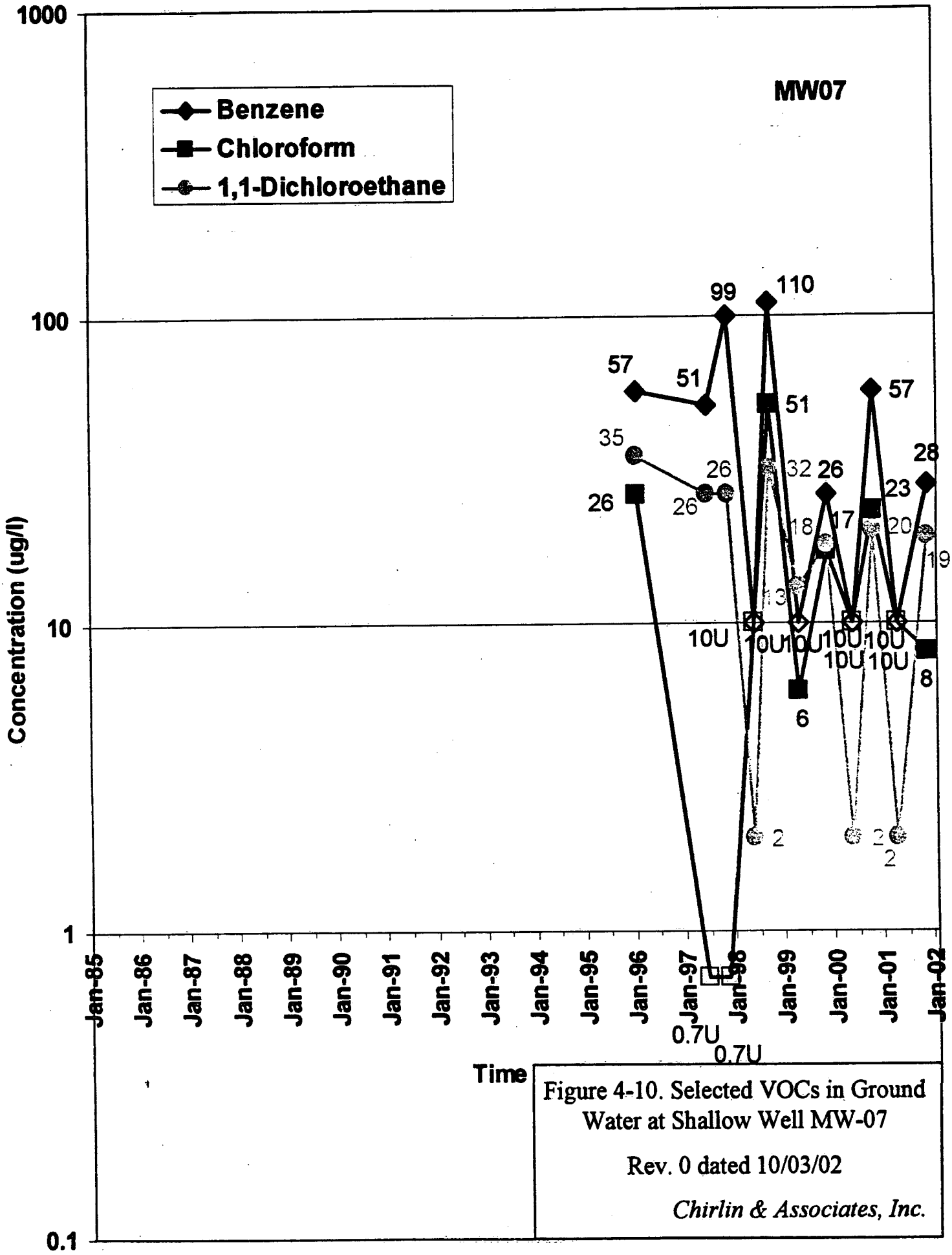

Figure 4-10. Selected VOCs in Ground Water at Shallow Well MW-07

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

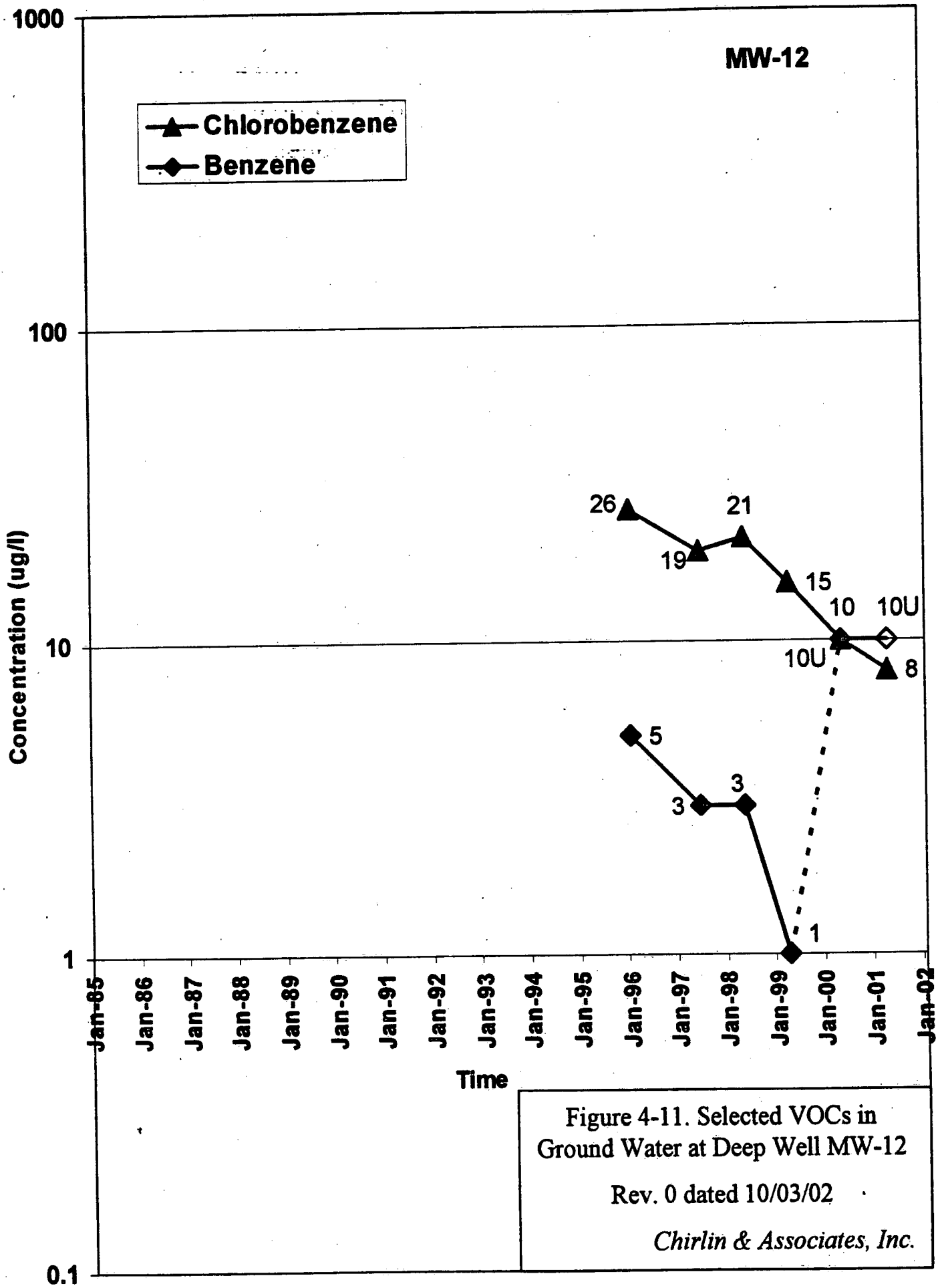

Figure 4-11. Selected VOCs in Ground Water at Deep Well MW-12

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

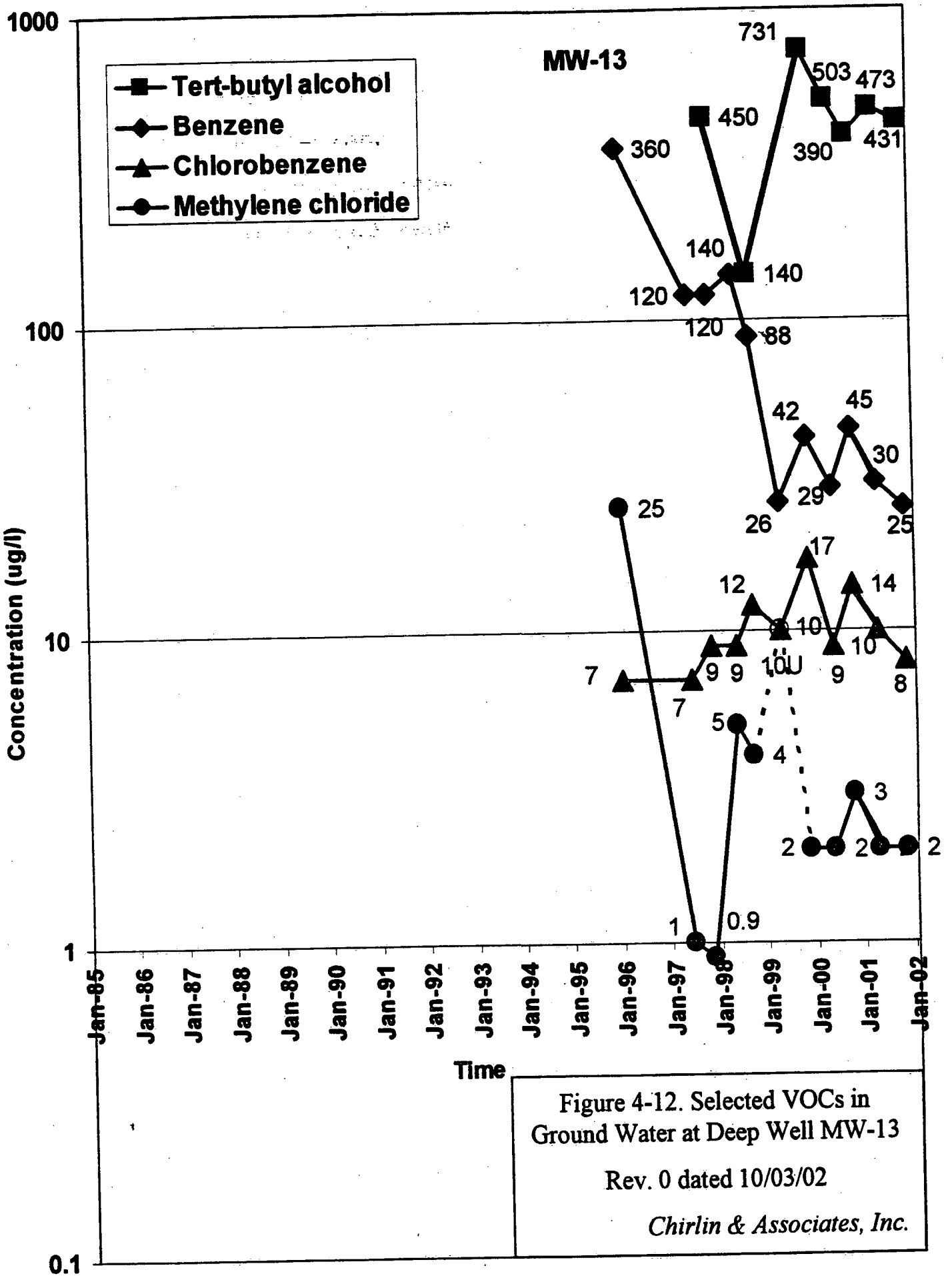

Figure 4-12. Selected VOCs in Ground Water at Deep Well MW-13

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

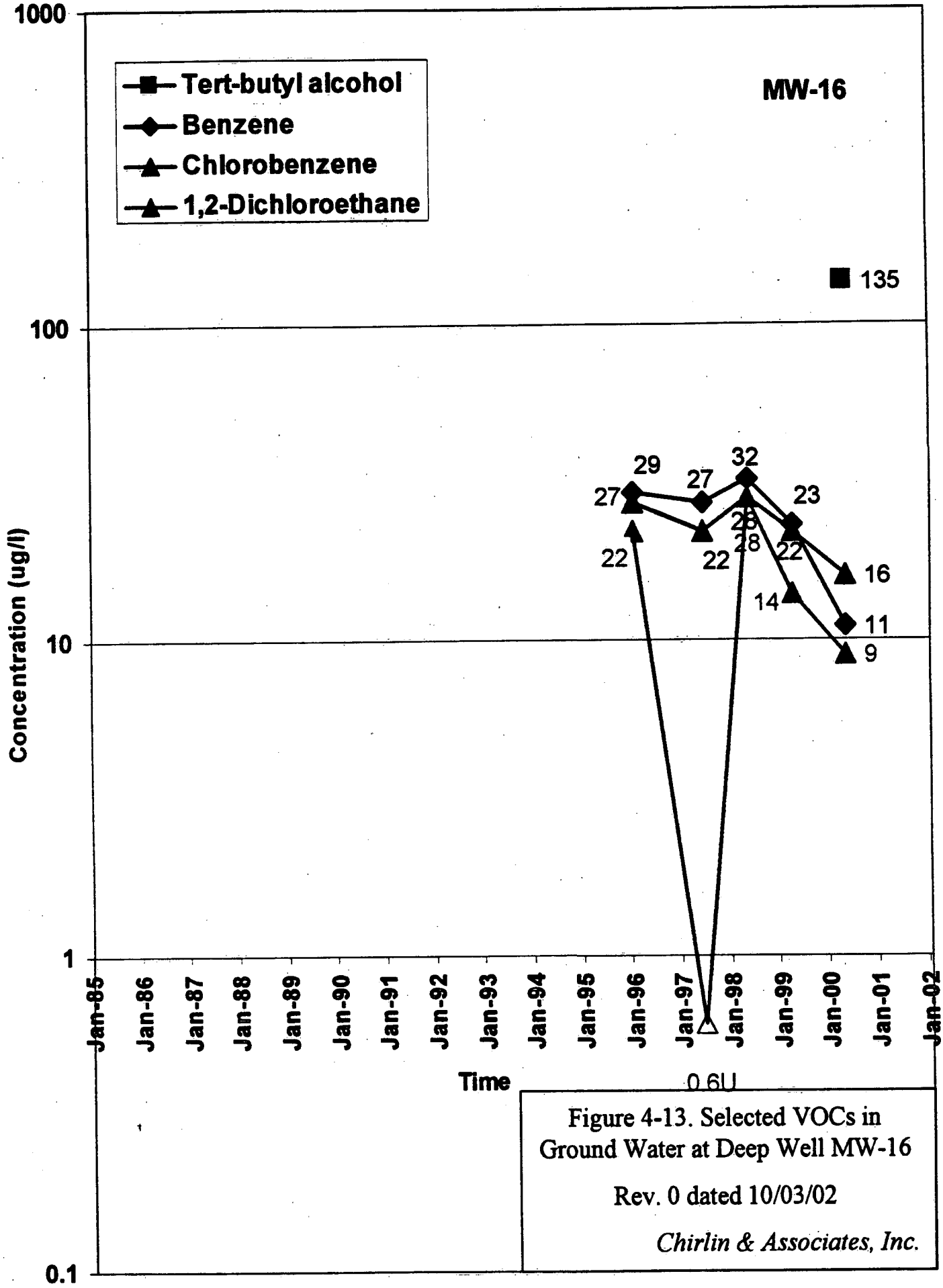

Figure 4-13. Selected VOCs in Ground Water at Deep Well MW-16

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

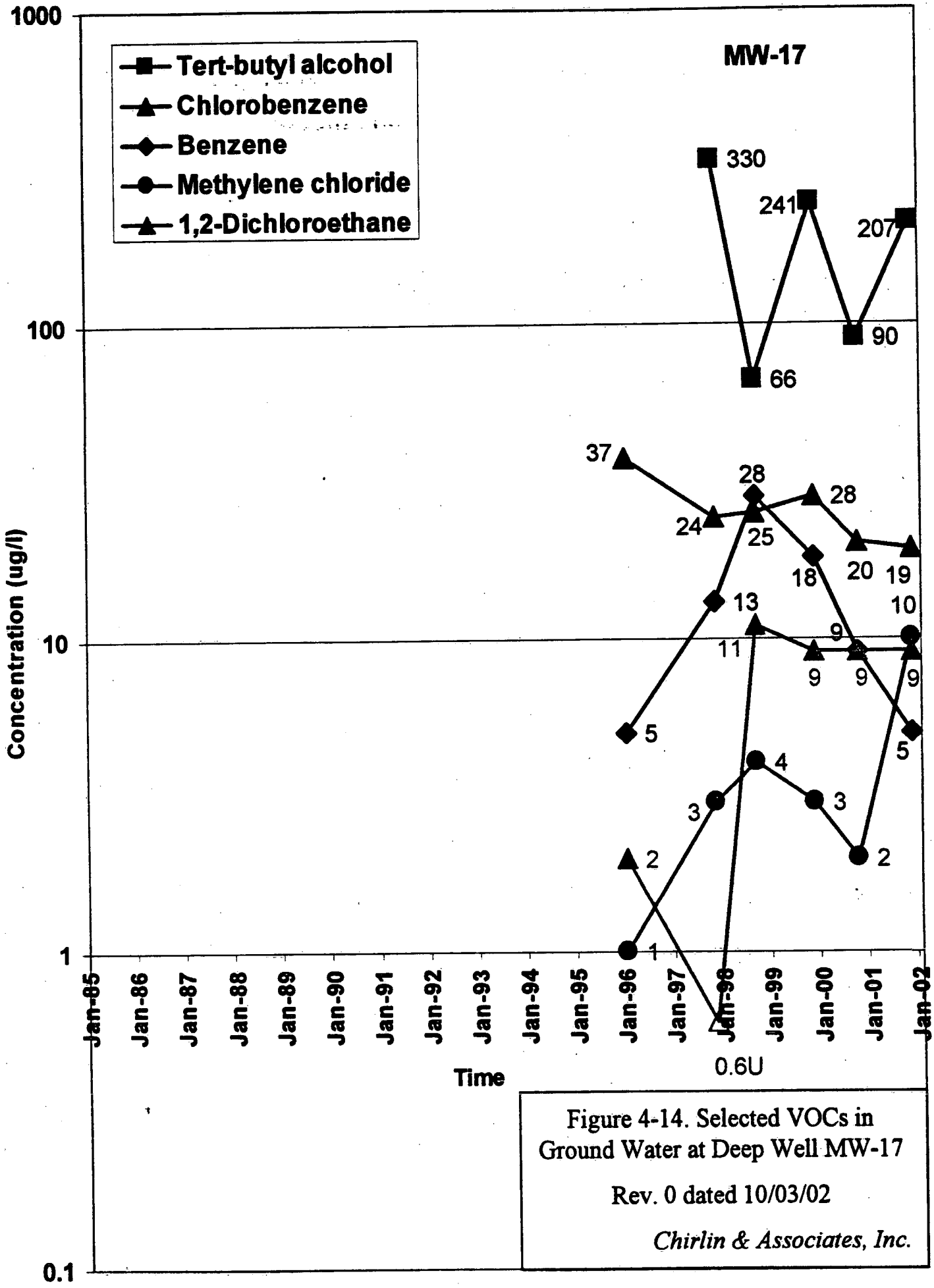

Figure 4-14. Selected VOCs in Ground Water at Deep Well MW-17

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

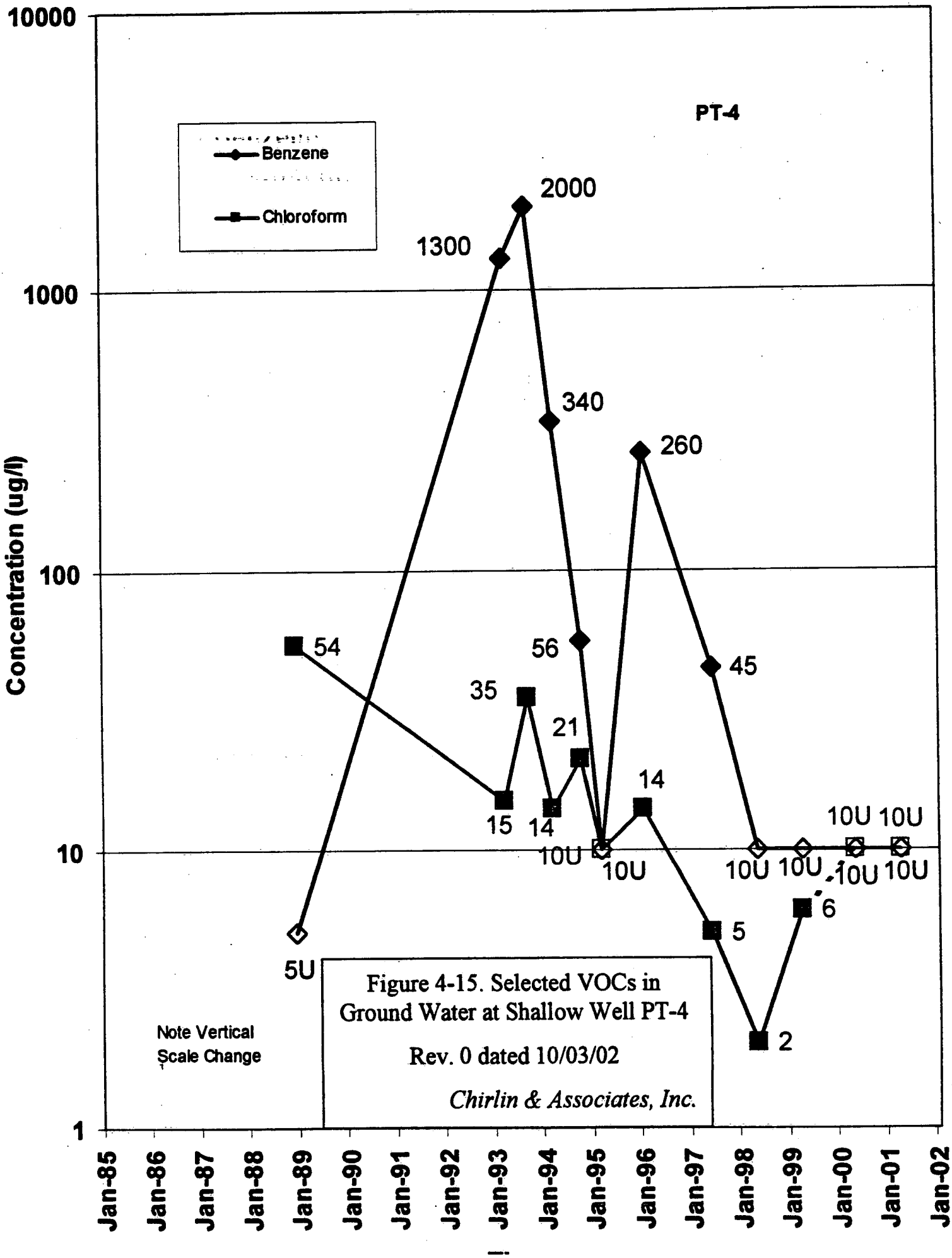

Figure 4-15. Selected VOCs in Ground Water at Shallow Well PT-4

Rev. 0 dated 10/03/02

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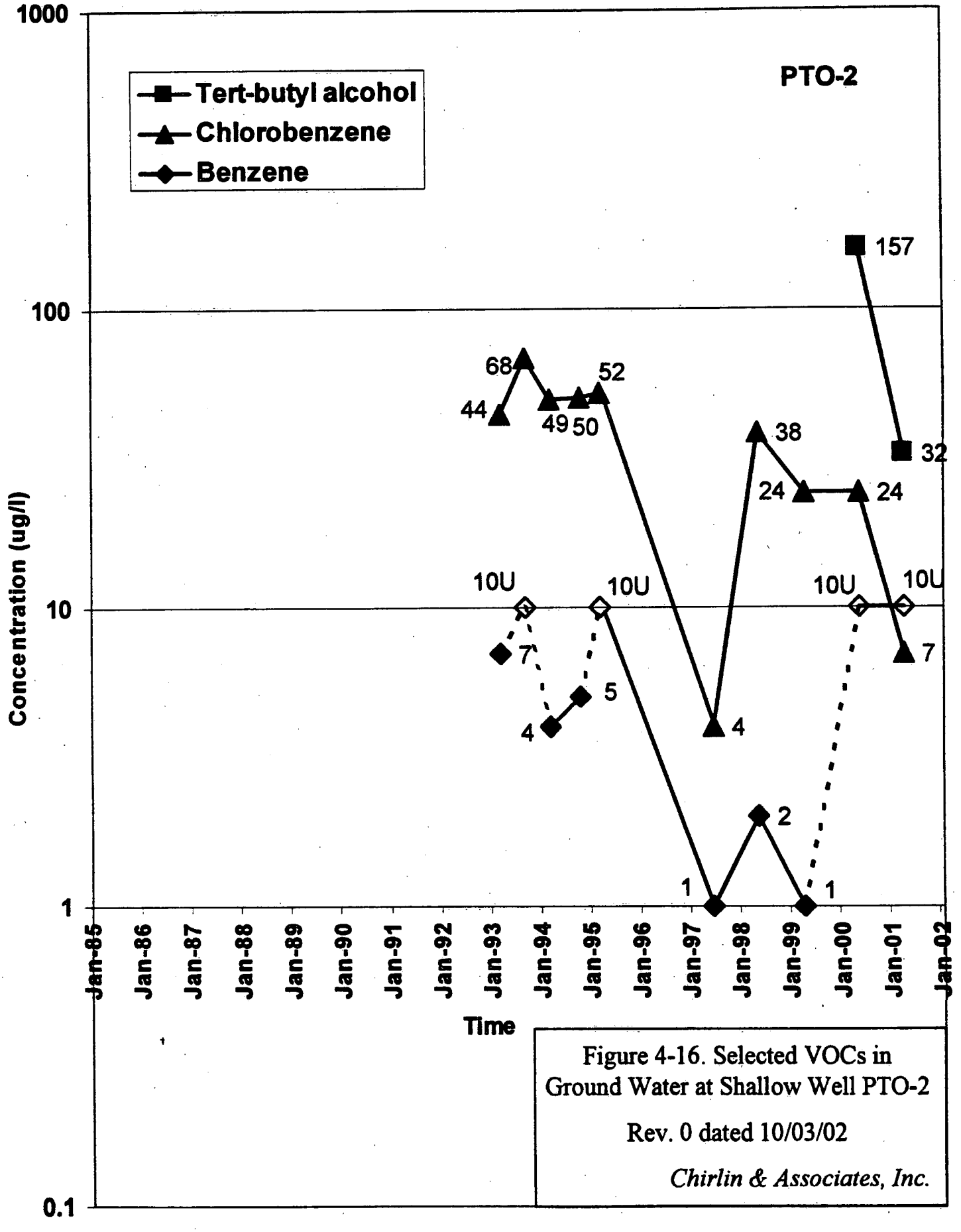

Figure 4-16. Selected VOCs in Ground Water at Shallow Well PTO-2

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

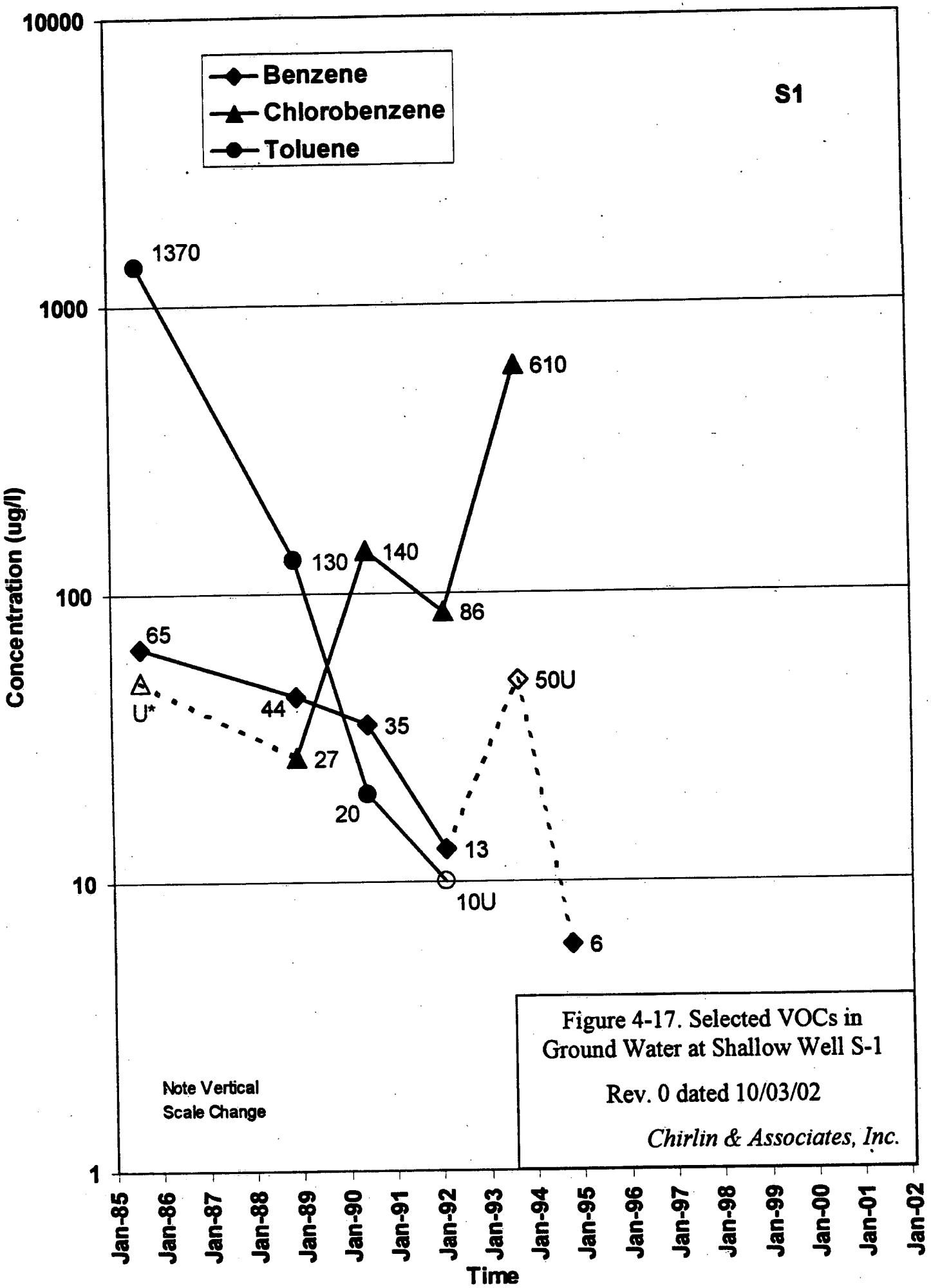

Figure 4-17. Selected VOCs in Ground Water at Shallow Well S-1

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

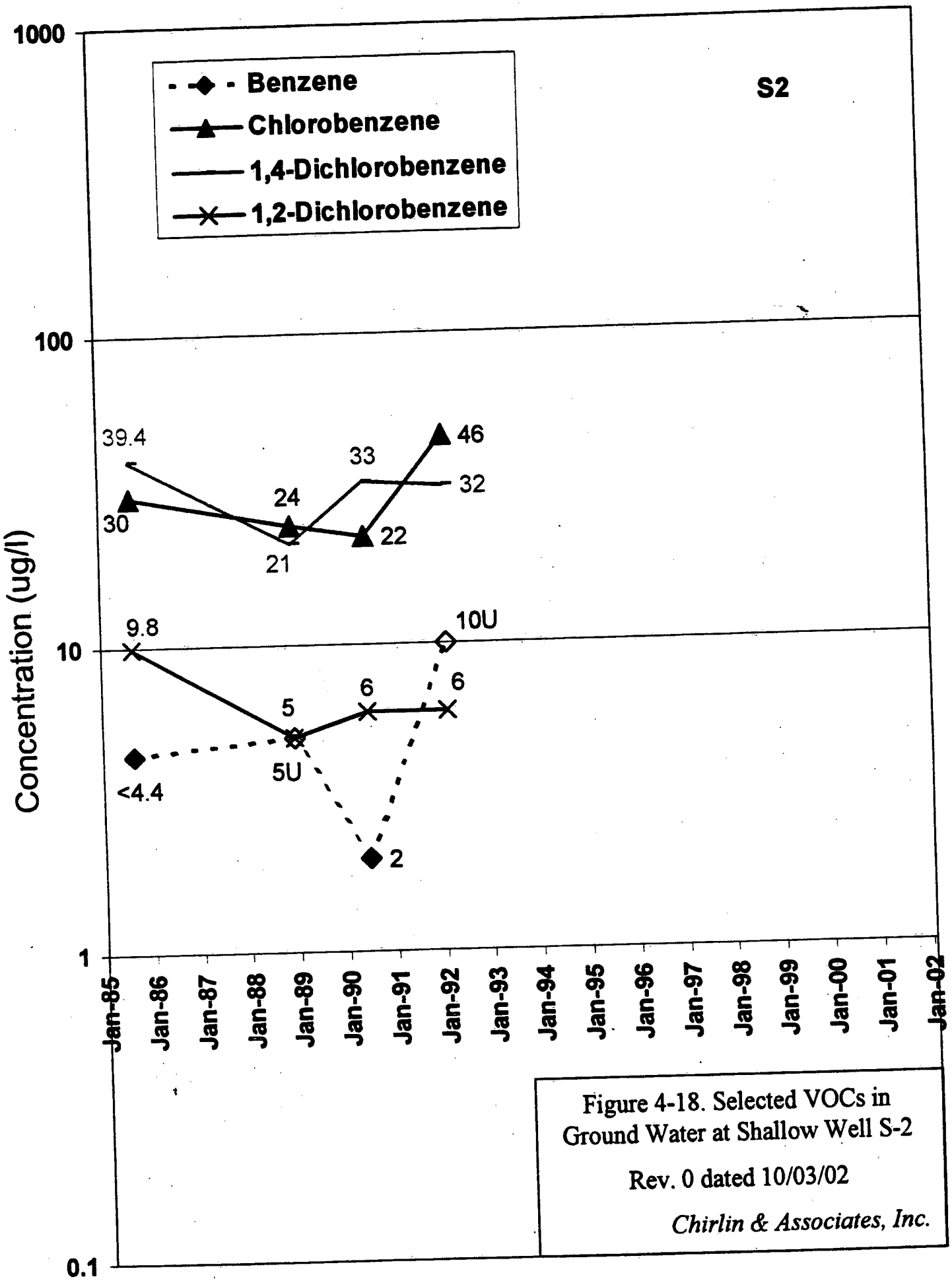

Figure 4-18. Selected VOCs in Ground Water at Shallow Well S-2

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

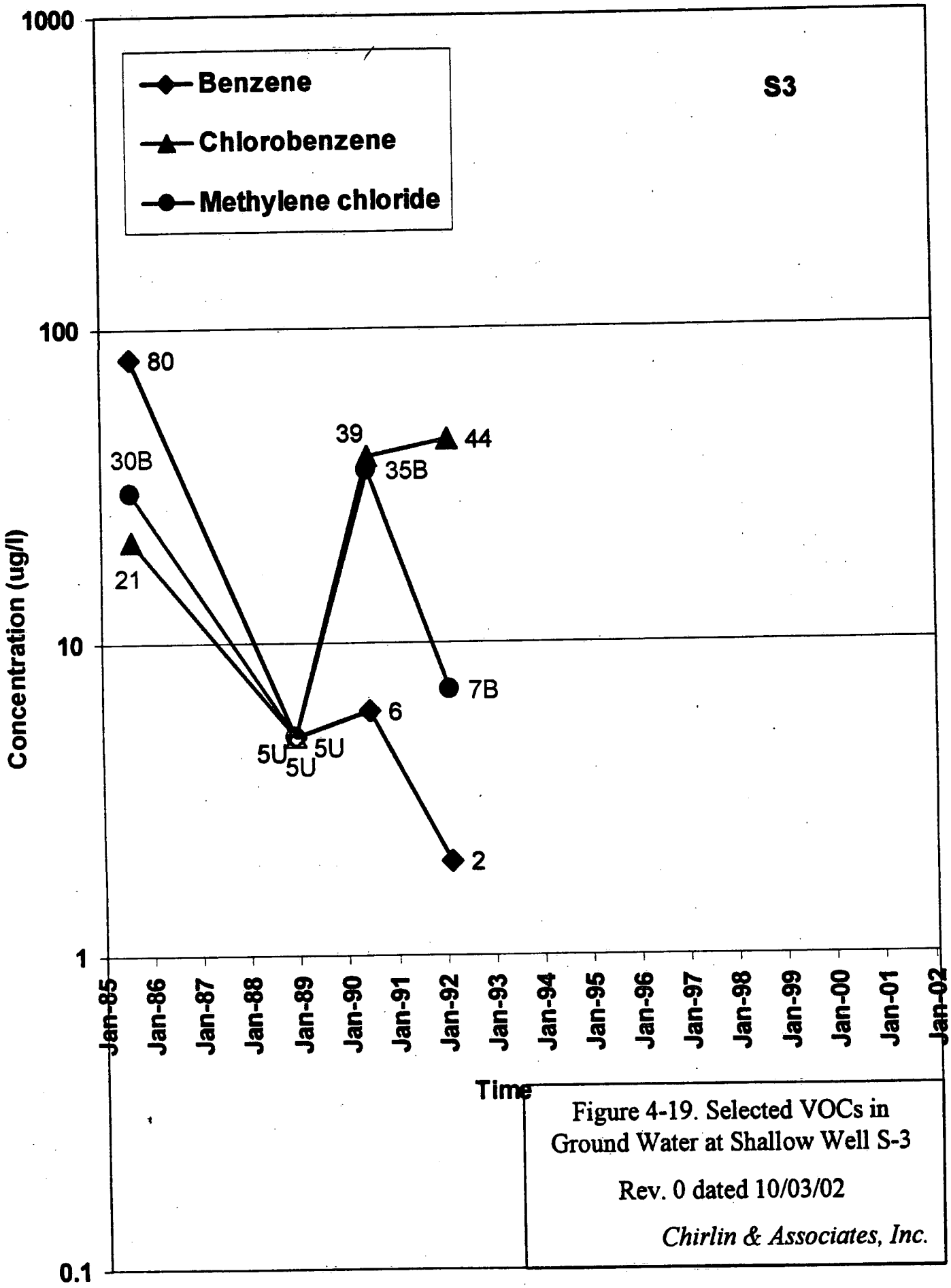

Figure 4-19. Selected VOCs in Ground Water at Shallow Well S-3

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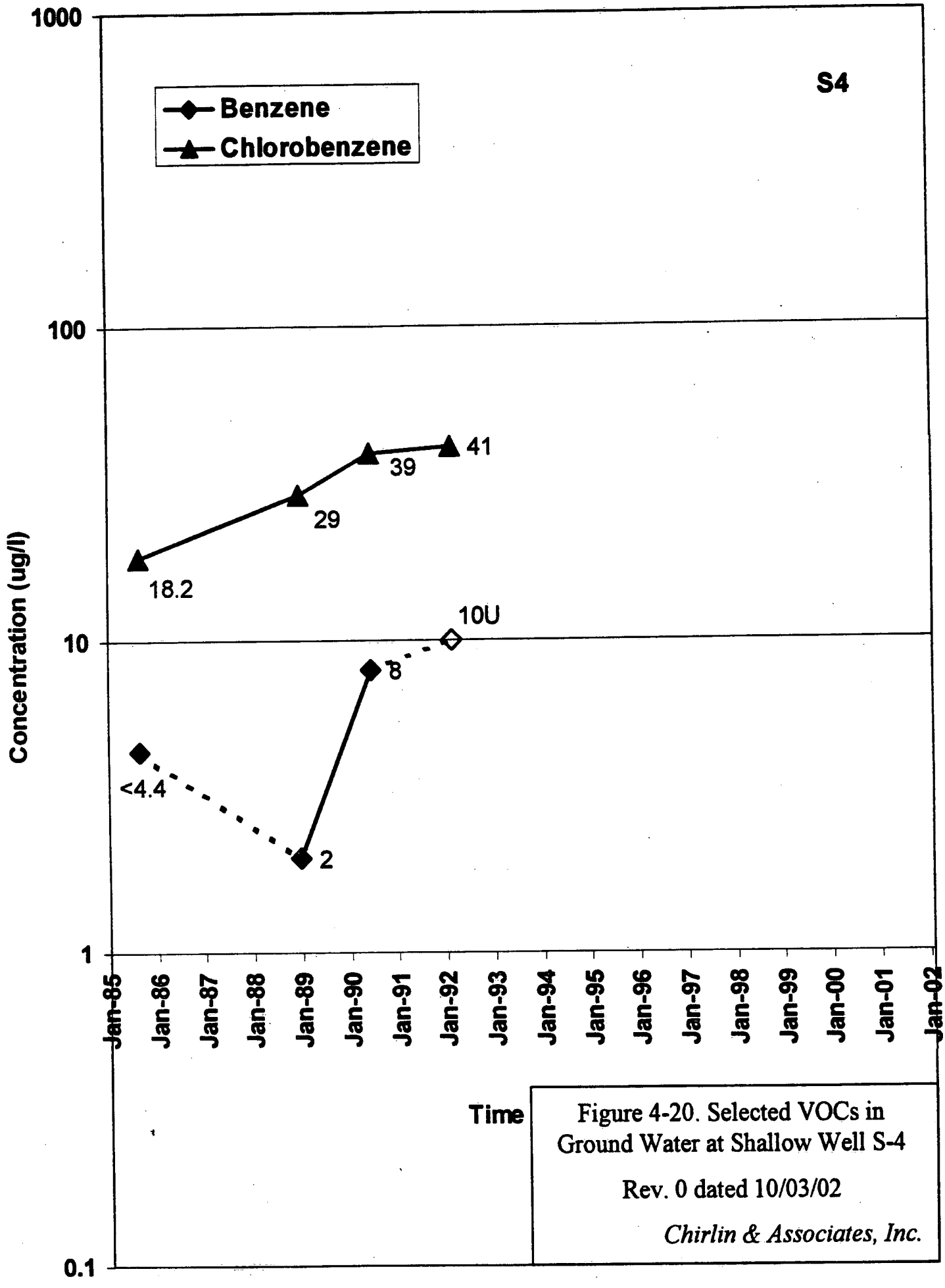


Figure 4-20. Selected VOCs in Ground Water at Shallow Well S-4

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

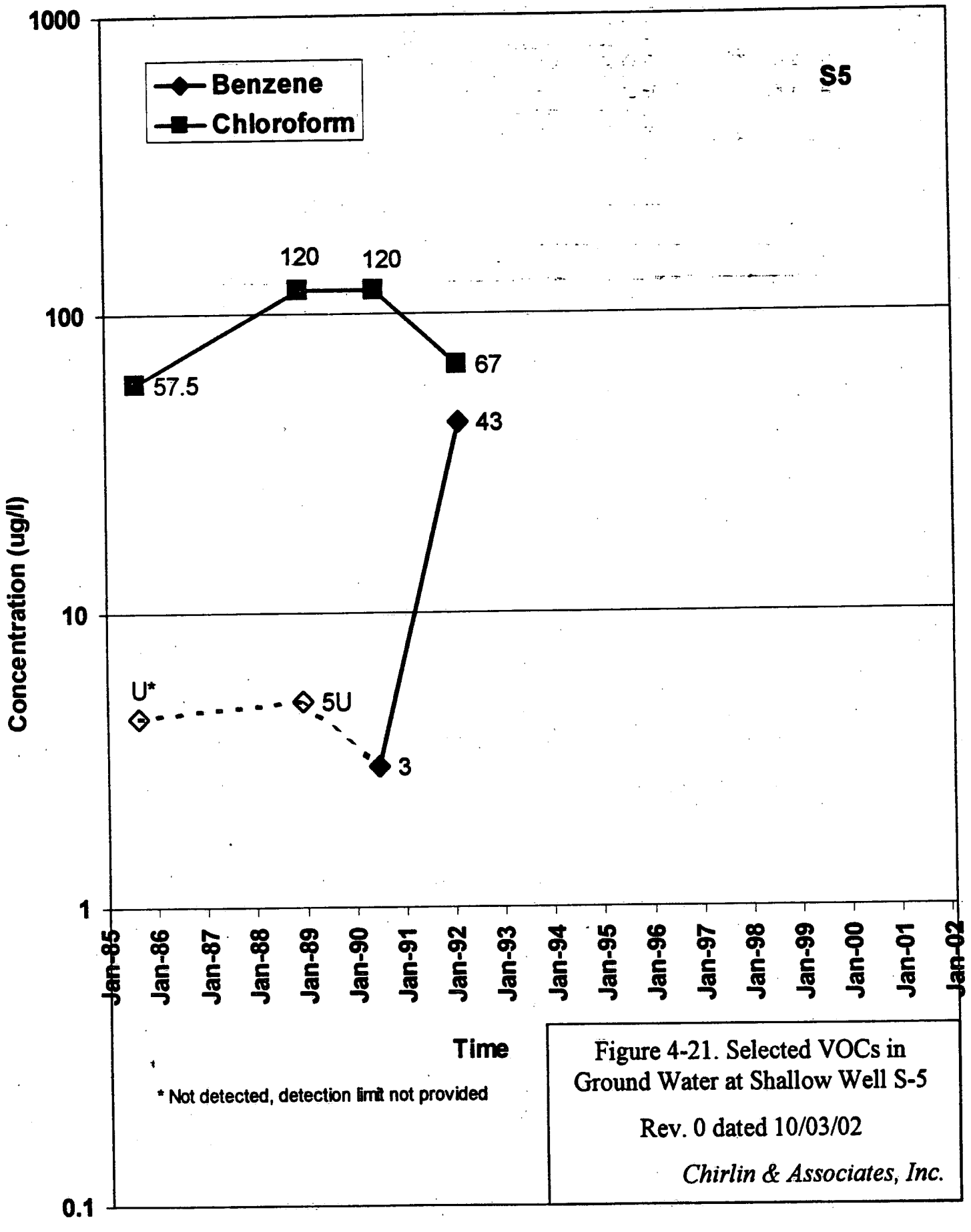


Figure 4-21. Selected VOCs in Ground Water at Shallow Well S-5

Rev. 0 dated 10/03/02

Chirlin & Associates, Inc.

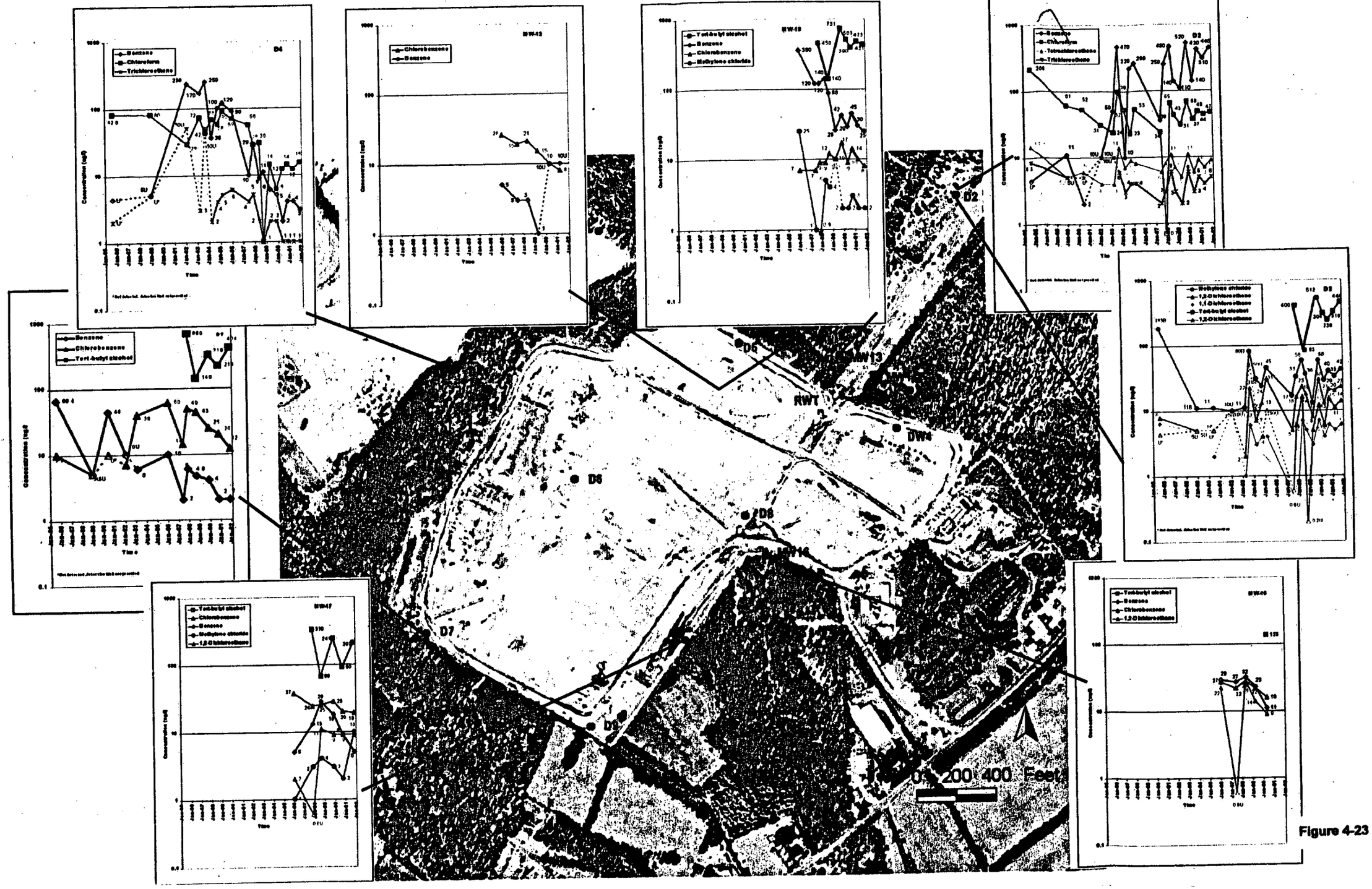

D6
Benzene
Chloroform
Trichloroethene
Concentration (ug/l)
Time
MW-42
Chlorobenzene
Benzene
MW-19
Tert-butyl alcohol
Benzene
Chlorobenzene
Methylene chloride
D2
Benzene
Chloroform
1,4-Dichlorobenzene
Trichloroethene
Methylene chloride
1,2-Dichloroethane
1,1-Dichloroethane
Tert-butyl alcohol
1,2-Dichloroethane
Benzene
Chlorobenzene
Tert-butyl alcohol
MW-47
Tert-butyl alcohol
Chlorobenzene
Benzene
Methylene chloride
1,2-Dichloroethane
MW-48
Tert-butyl alcohol
Benzene
Chlorobenzene
1,2-Dichloroethane
D6
MW13
RWT
DW4
D8
MW14
D7
D5
0 200 400 Feet

Figure 4-23

East Cluster-Benzene

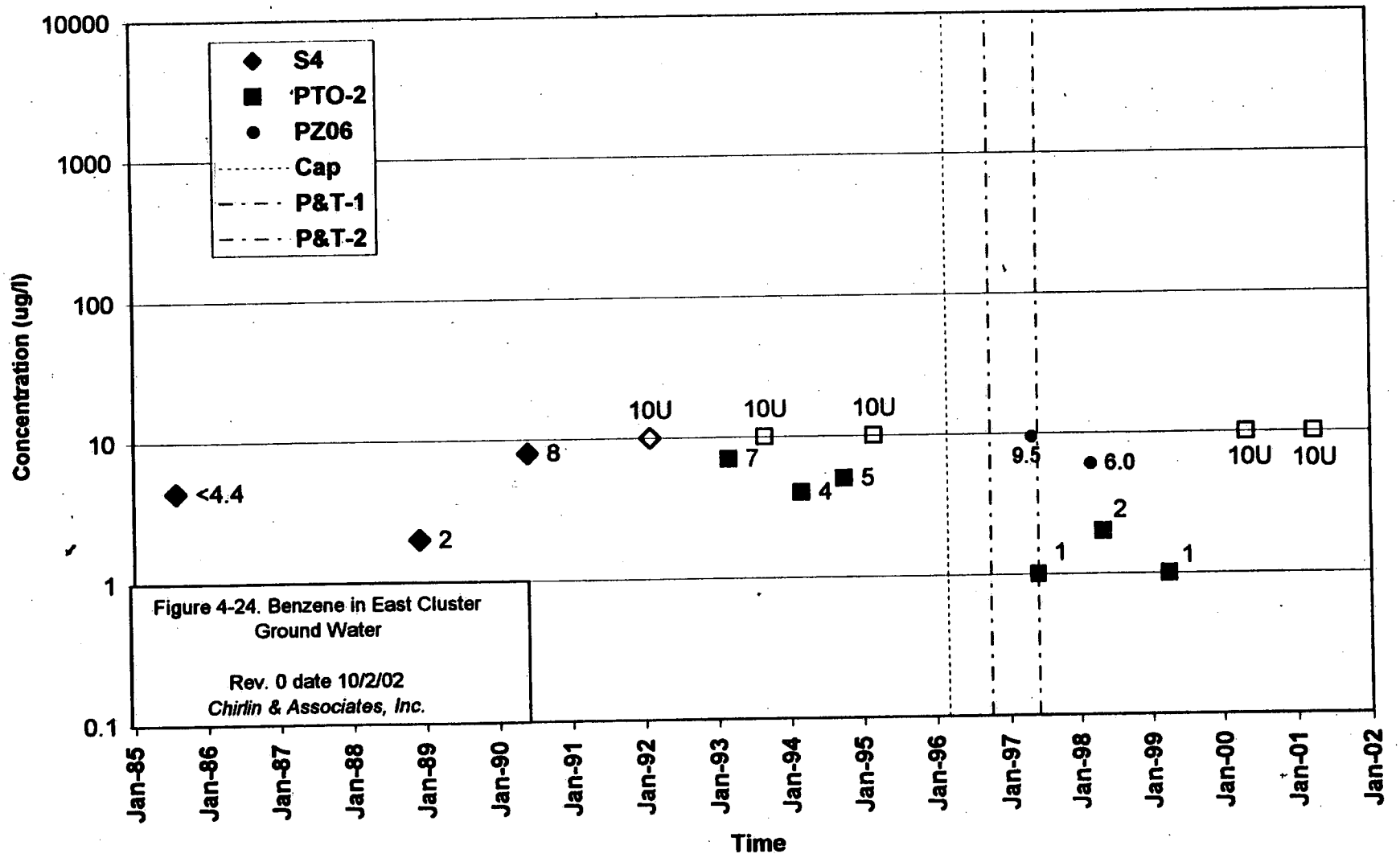


Figure 4-24. Benzene in East Cluster Ground Water

Rev. 0 date 10/2/02

Chirlin & Associates, Inc.

East Cluster-Chlorobenzene

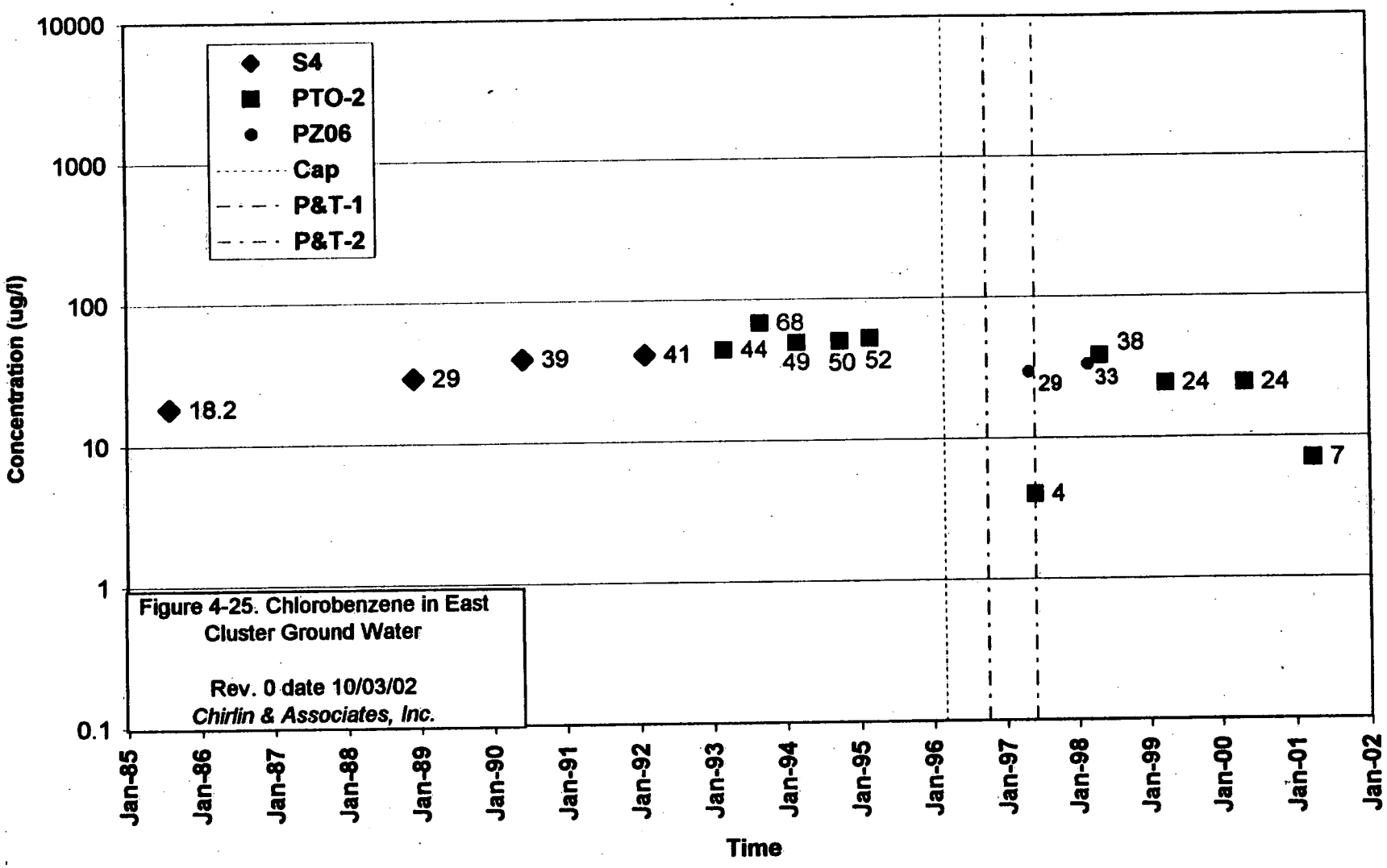


Figure 4-25. Chlorobenzene in East Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

South Cluster-Benzene

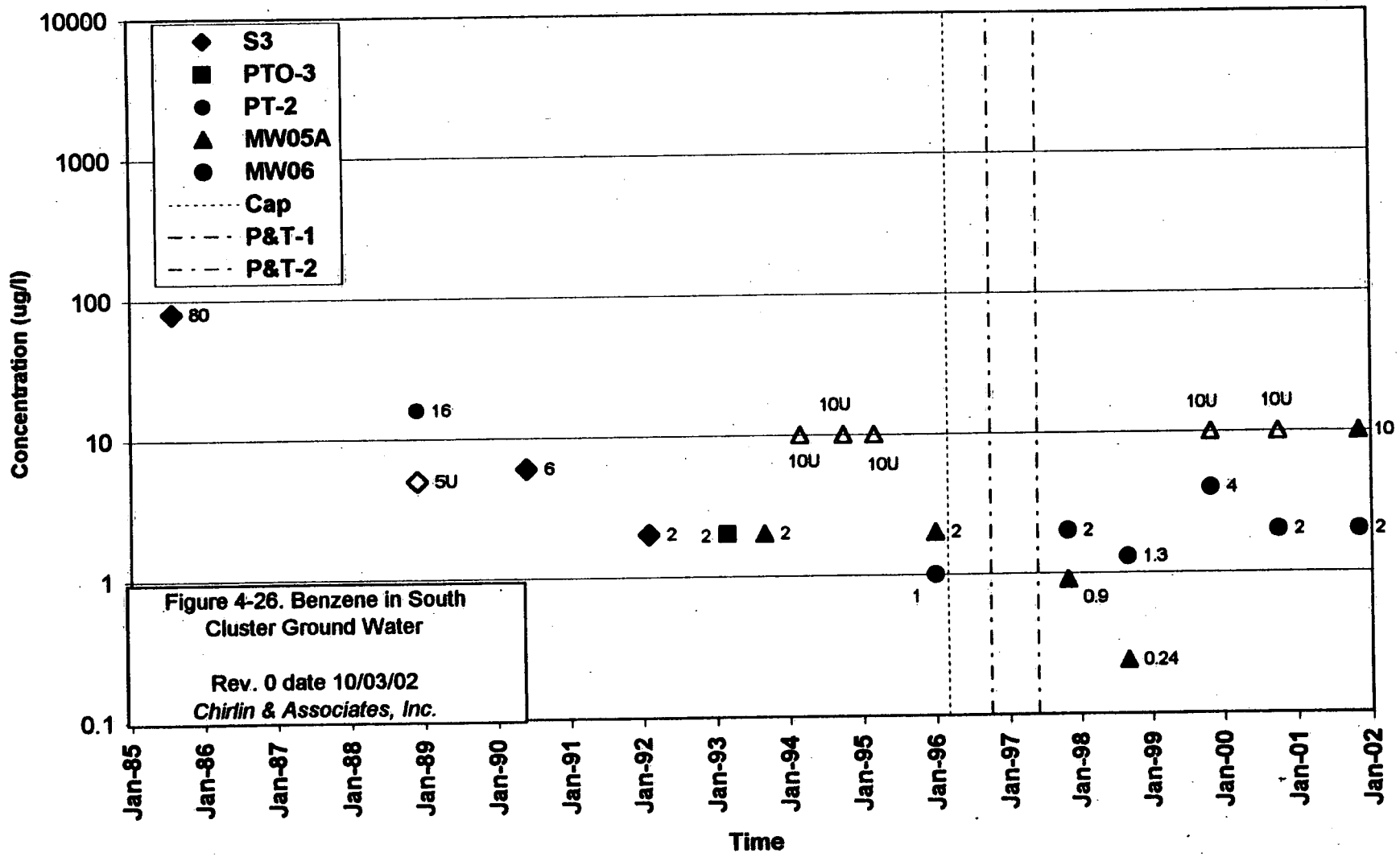


Figure 4-26. Benzene in South Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

South Cluster-Chlorobenzene

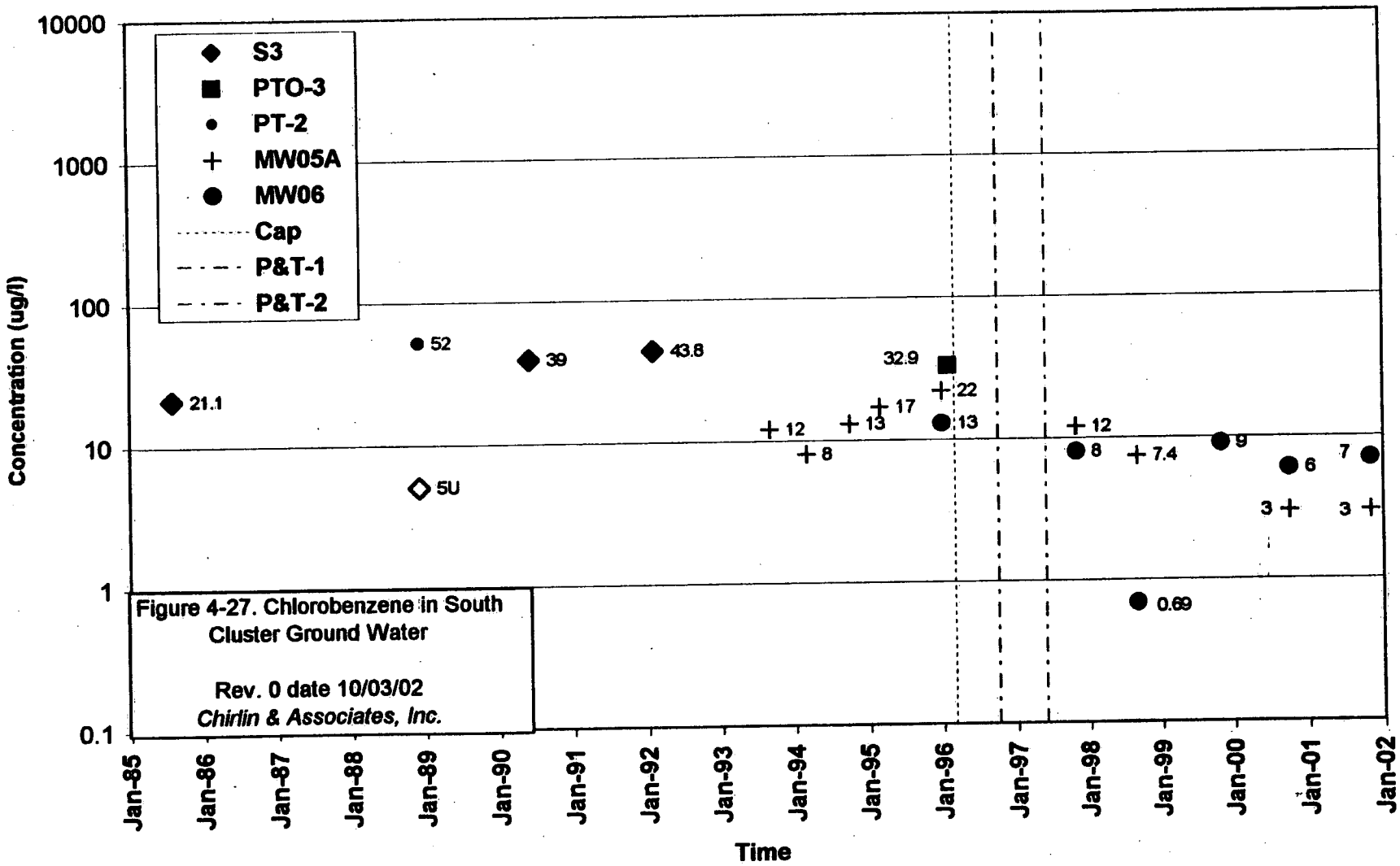


Figure 4-27. Chlorobenzene in South Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

Southwest Cluster-Benzene

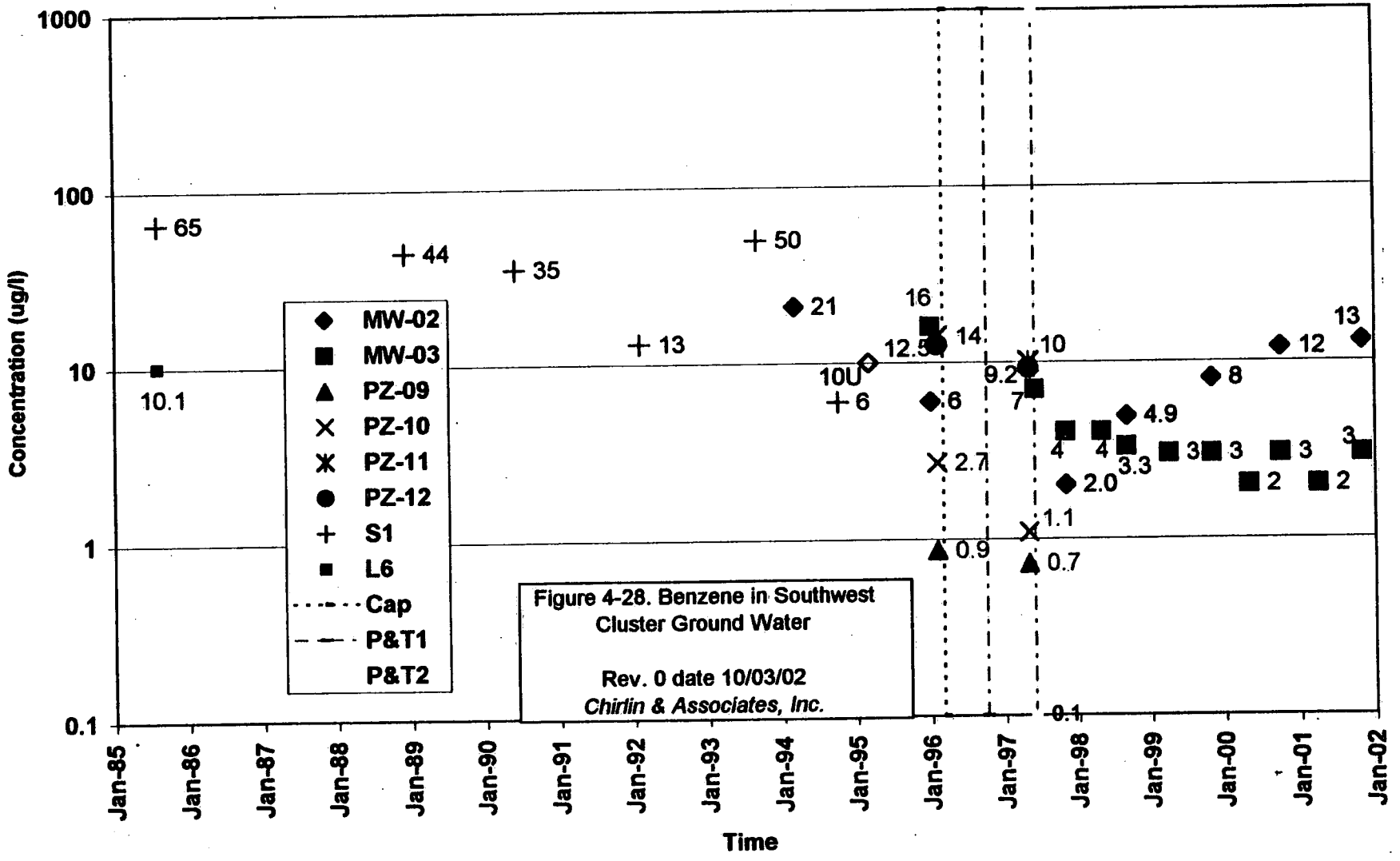


Figure 4-28. Benzene in Southwest Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

Southwest Cluster-Chlorobenzene

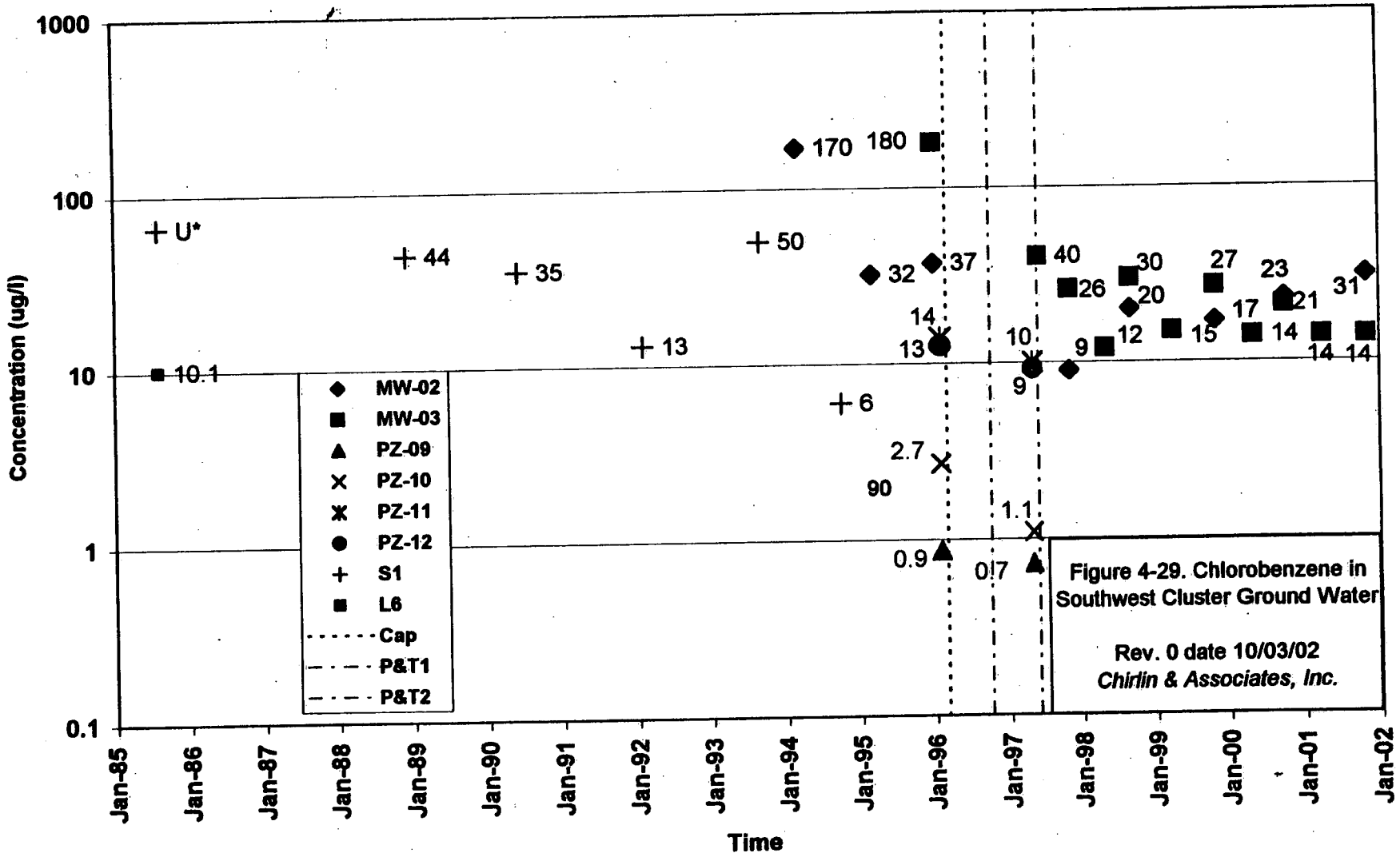


Figure 4-29. Chlorobenzene in Southwest Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

Southwest Cluster-1,4-Dichlorobenzene

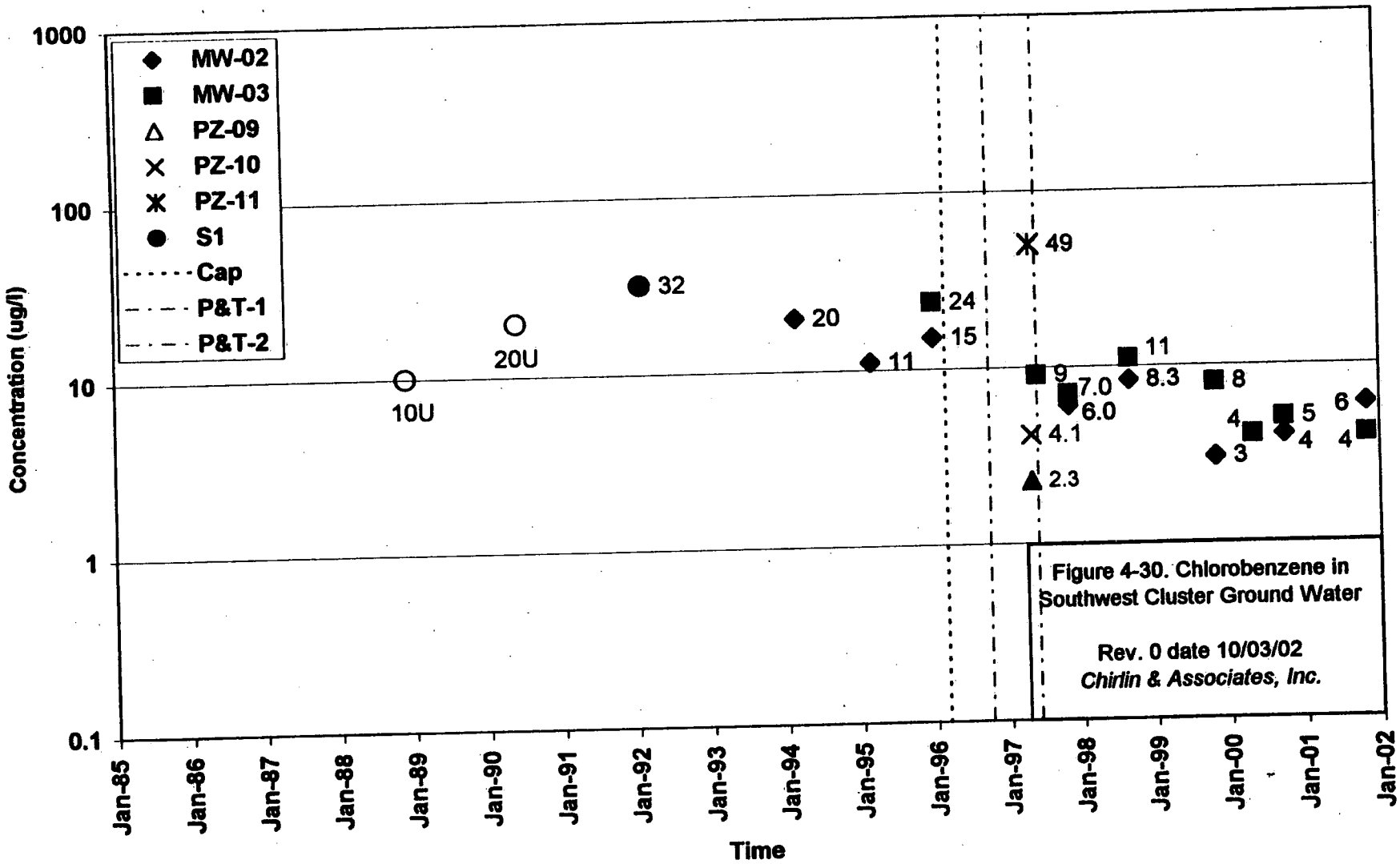


Figure 4-30. Chlorobenzene in Southwest Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.

Northwest Cluster-Benzene

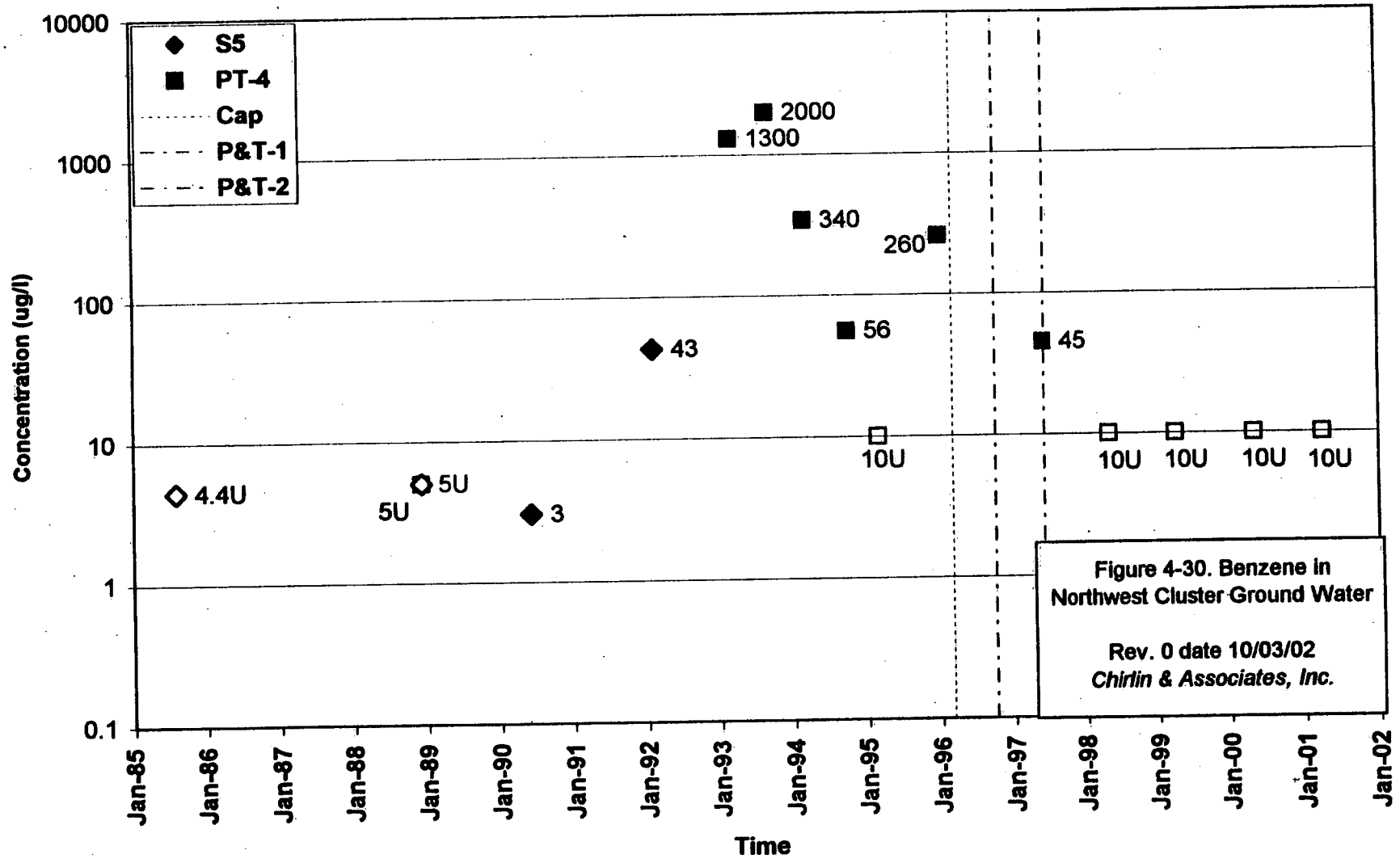


Figure 4-30. Benzene in Northwest Cluster Ground Water

Rev. 0 date 10/03/02
Chirlin & Associates, Inc.

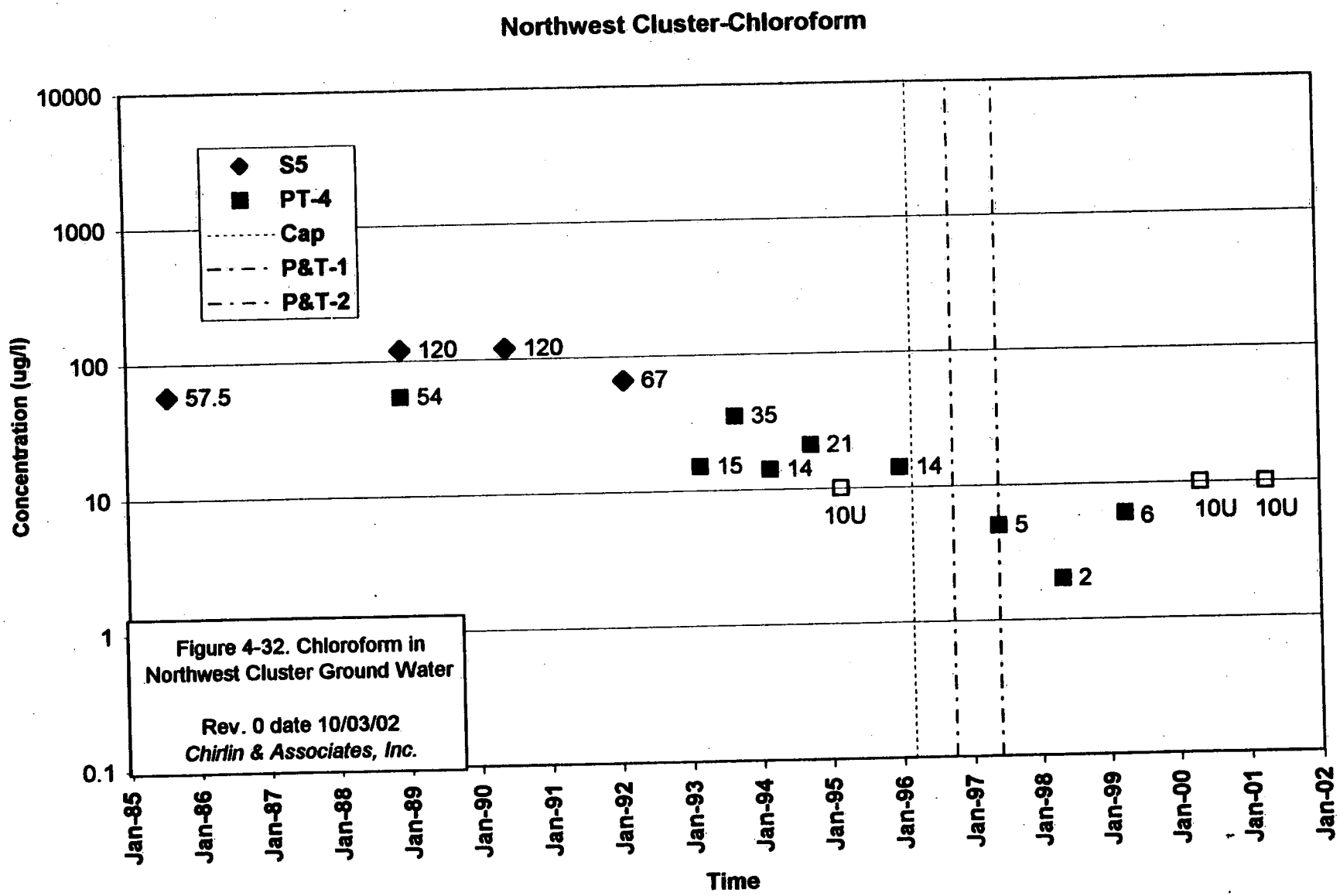
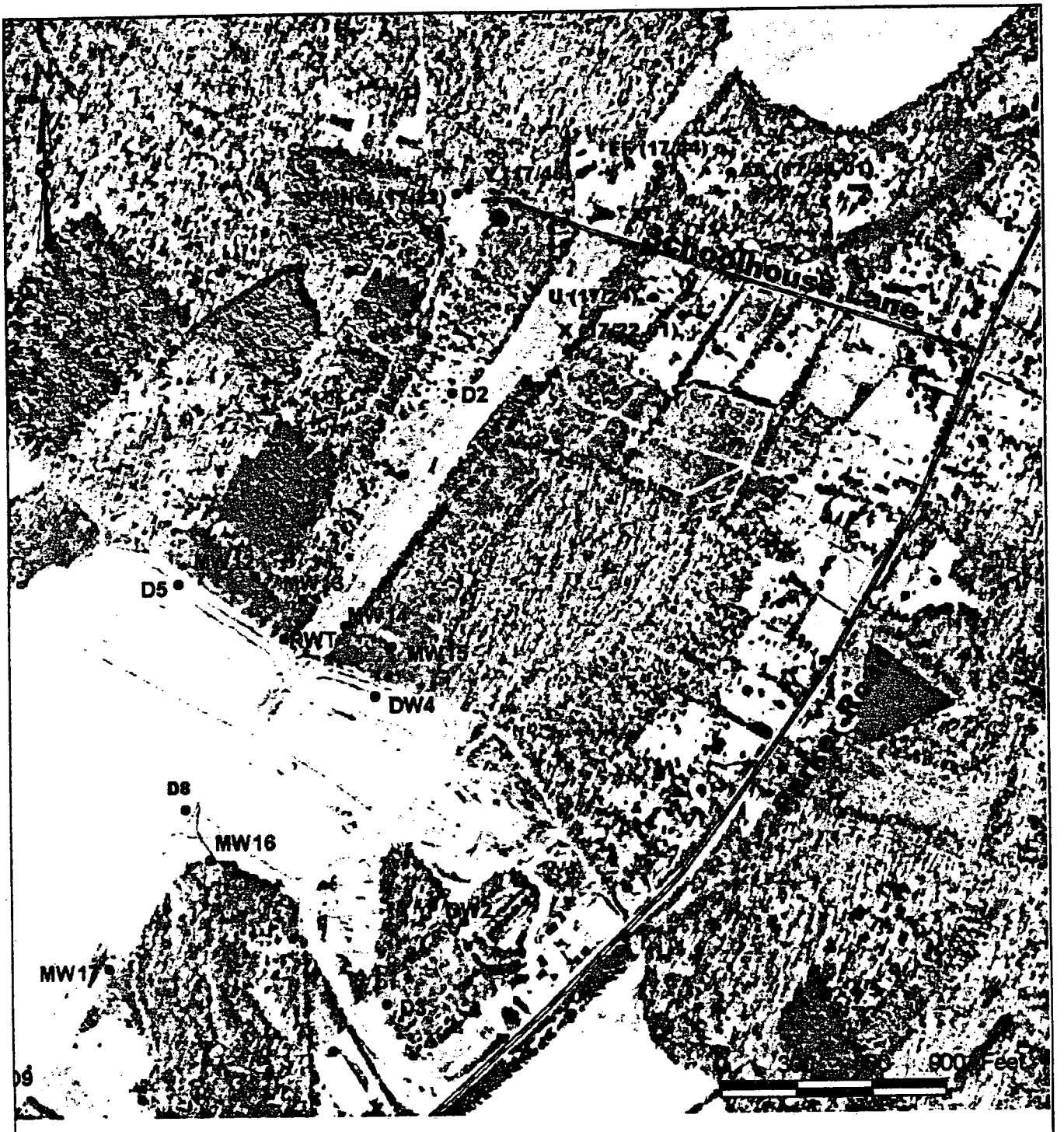


Figure 4-32. Chloroform in Northwest Cluster Ground Water

Rev. 0 date 10/03/02

Chirlin & Associates, Inc.



Aerial photo 16Apr95

Figure 4-33. Residential and Deep Wells NE of Landfill

Rev. 1 Dated 10/25/02

Chirlin & Associates, Inc.
Rockville MD

GW Elevation Outside the Landfill

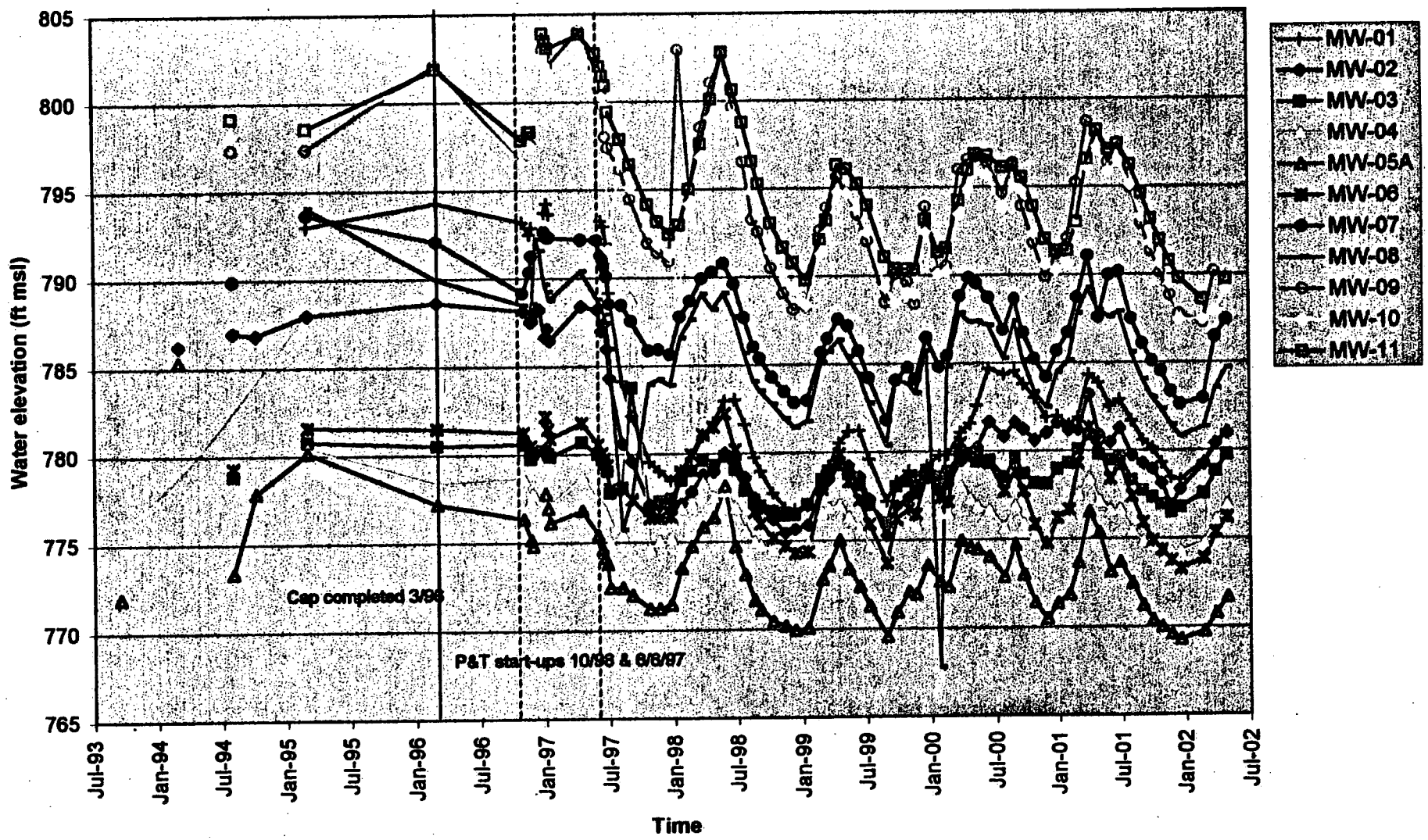


Figure 5-1

GW Elevation in SW Corner of Landfill

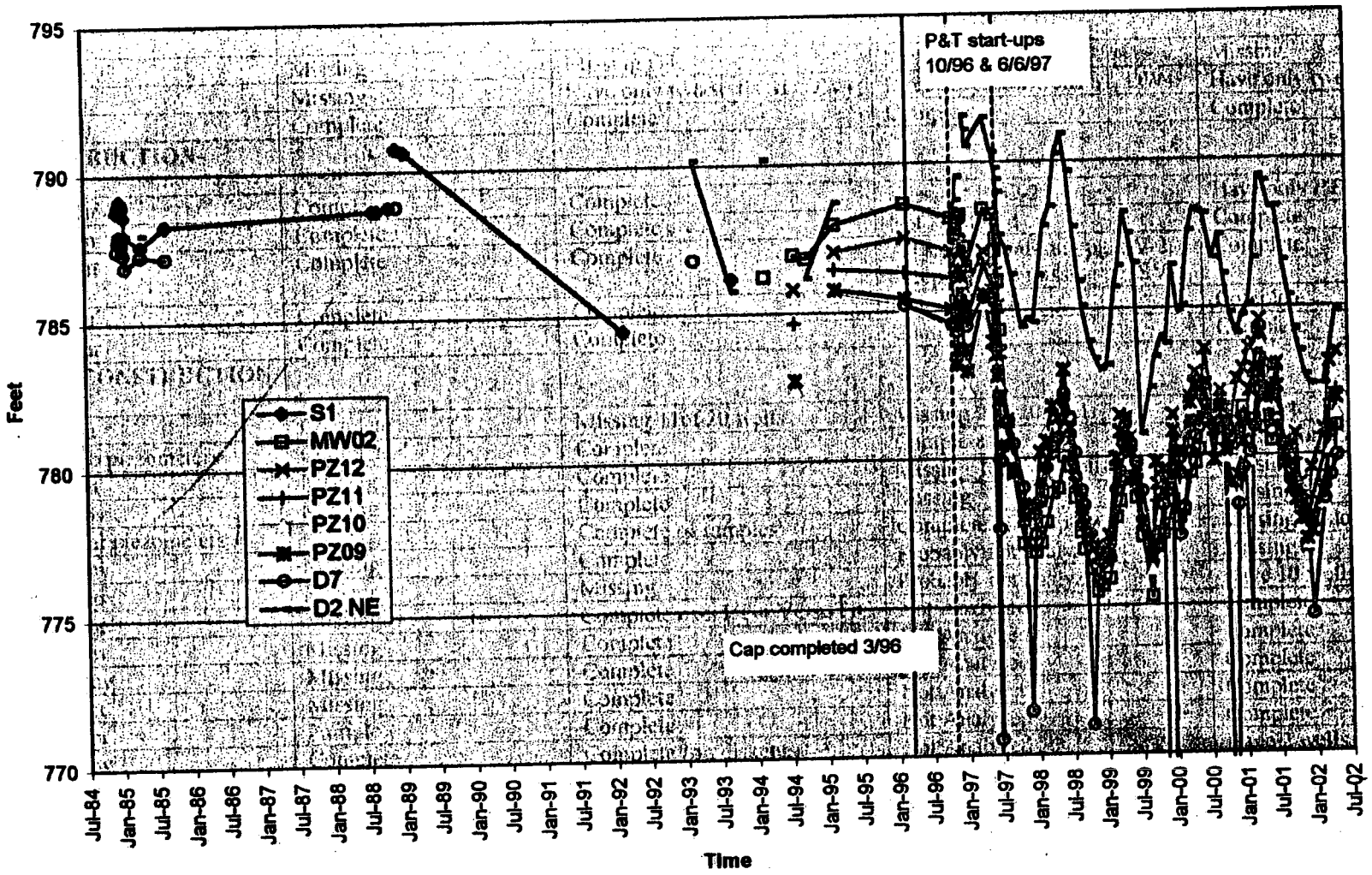
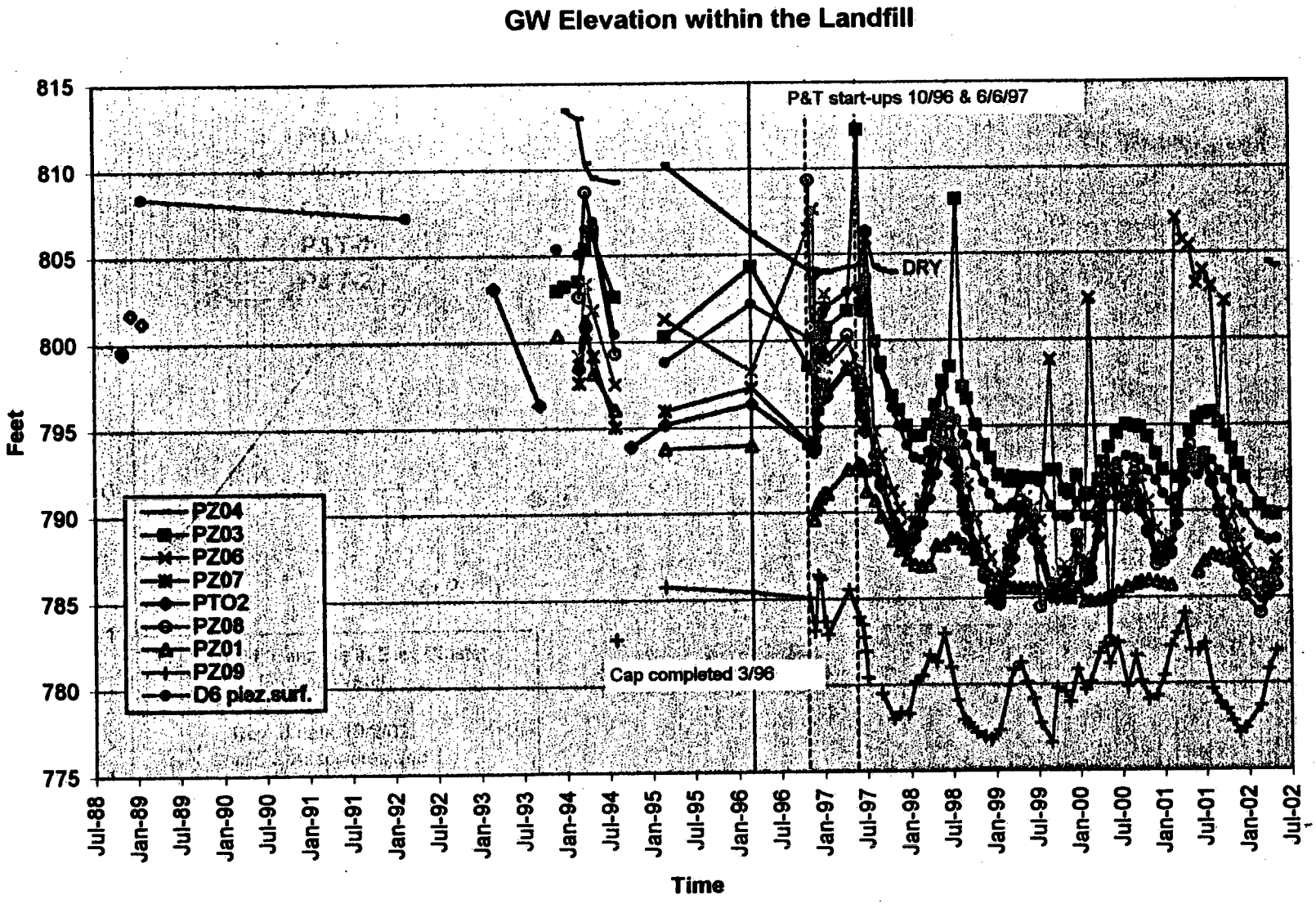


Figure 5-2


GW Elevation within the Landfill
P&T start-ups 10/96 & 6/6/97
DRY
Cap completed 3/96
PZ04
PZ03
PZ06
PZ07
PTO2
PZ08
PZ01
PZ09
D6 piez.surf.
Feet
815
810
805
800
795
790
785
780
775
Jul-88
Jan-89
Jul-89
Jan-90
Jul-90
Jan-91
Jul-91
Jan-92
Jul-92
Jan-93
Jul-93
Jan-94
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Jan-96
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Jan-97
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Jan-98
Jul-98
Jan-99
Jul-99
Jan-00
Jul-00
Jan-01
Jul-01
Jan-02
Jul-02
Time

Figure 5-3

GW Elevation West of Landfill

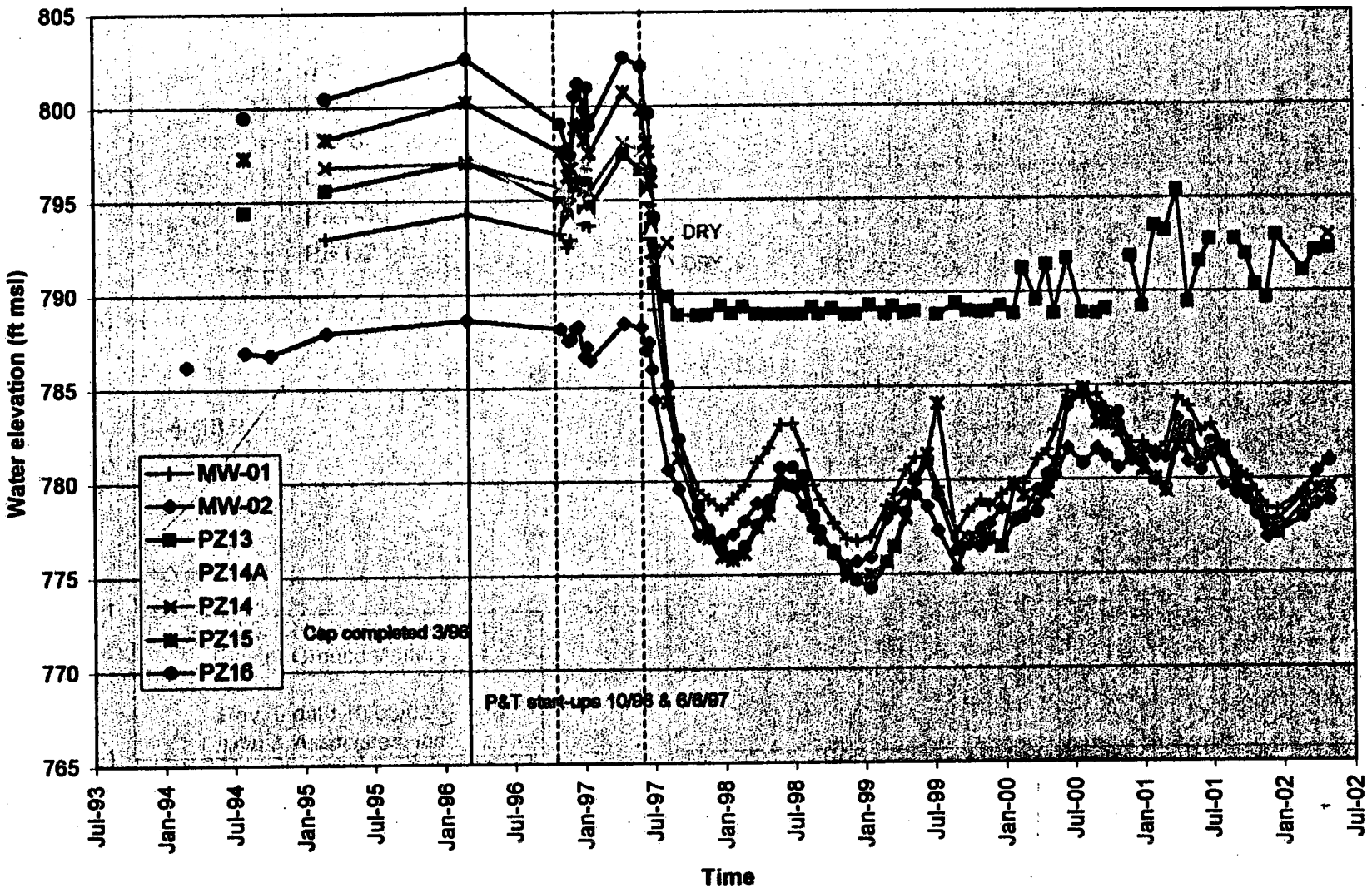
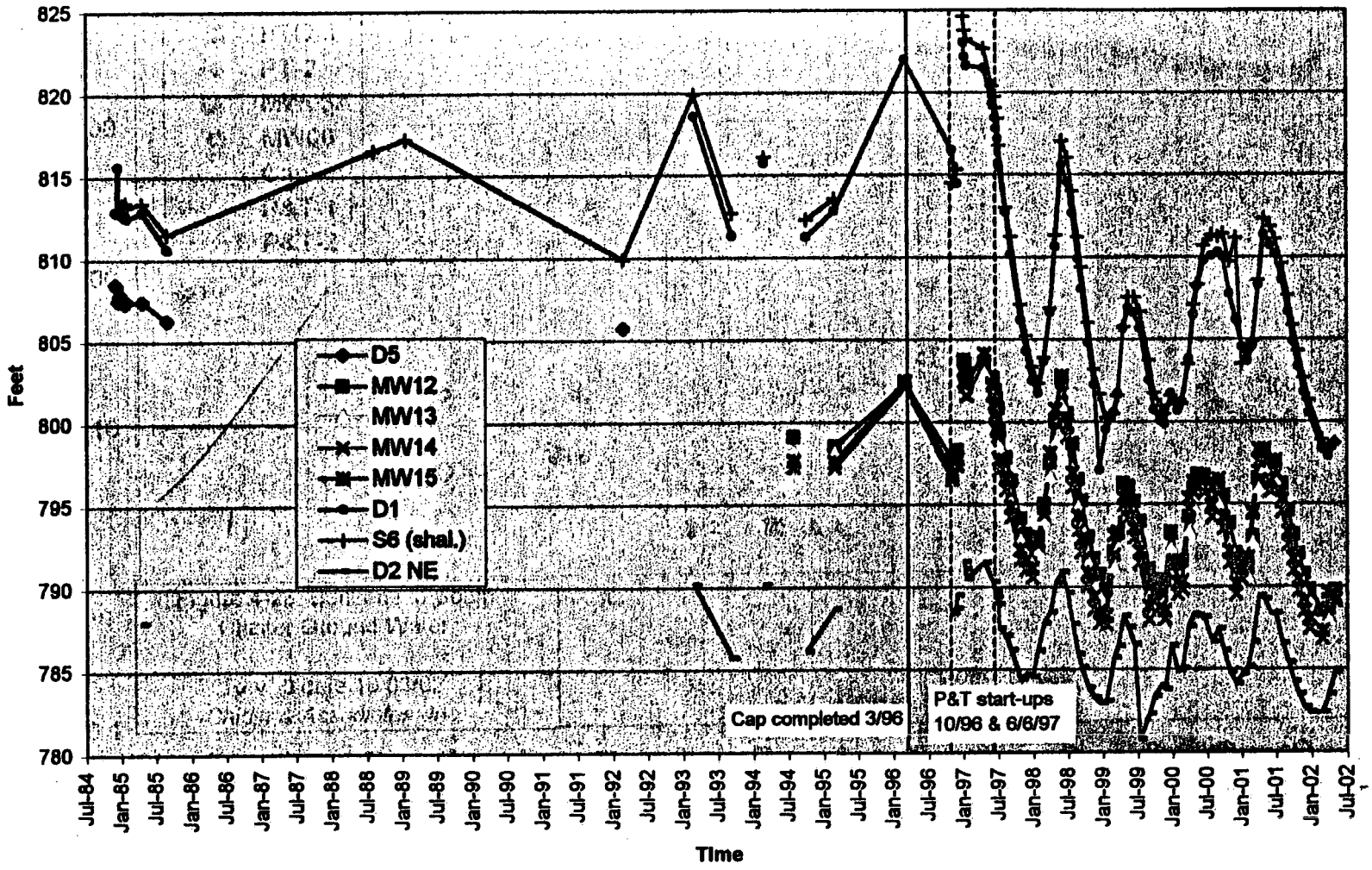


Figure 5-4

Bedrock Piezometric Surface along N Border of Landfill



GW Elevation at Various Wells Adjacent to the Landfill

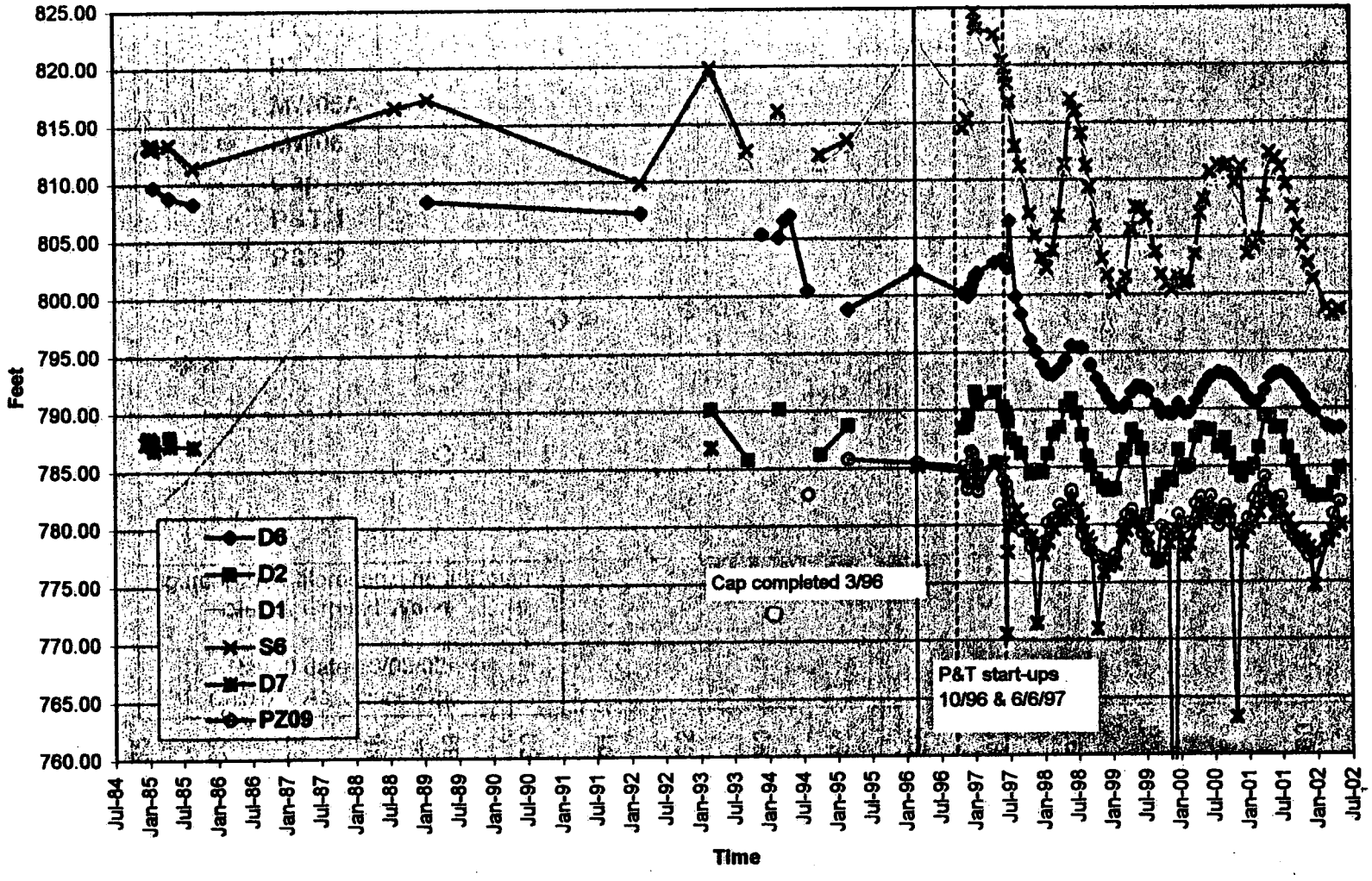


Figure 5-6

TABLES

Table 2.1 Status of Sampling Document Acquisition

Sampling Date	Sampling Episode Report	VOA Data Sheets	SVOA Data Sheets	QA Memo
PRE-CONSTRUCTION PHASE				
1988 Dec	Missing	Missing D4	Missing D4	Missing
1990 Jun	Missing	Have only two wells S1, DW4	Have only two wells S1, DW4	Have only two wells S1, DW4
1992 Feb	Complete	Complete	Complete	Complete
CONSTRUCTION-PHASE				
1993 Mar	Complete	Complete	Missing: PTO-2	Have only PTO3, S7, D2, PT4
1993 Sep	Complete	Complete	Not Analyzed	Complete
1994 Mar	Complete	Complete	All samples missing pg. SV-2, except MW-2 missing pg. SV-1	Complete
1994 Oct	Complete	Complete	Not Sampled	Complete
1995 Mar	Complete	Complete	Complete	Complete
POST-CONSTRUCTION PHASE				
1996 Jan	Complete	Missing 11of 20 wells	Missing 9 of 20 wells	Complete
1996 Feb piezometers	Complete	Complete	Complete	Missing or does not exist
1997 Jun	Missing	Complete	Missing 10 of 17 wells	Missing
1997 Nov	Missing	Complete	Missing	Missing
1998 Mar piezometers	Missing	Complete (4 samples)	Complete (4 samples)	Missing or does not exist
1998 May	Missing	Complete	Probably not analyzed	Missing
1998 Sep	Missing	Missing	Probably not analyzed	Have 10 wells only
1999 Apr	Missing	Complete exc. PT-4 VOA-TIC	Not Analyzed	Complete
1999 Nov	Missing	Complete	Not Analyzed	Complete
2000 May	Missing	Complete	Not Analyzed	Complete
2000 Oct	Missing	Complete	Not Analyzed	Complete
2001 Apr	Partial	Complete	Not Analyzed	Complete
2001 Nov	Complete	Complete (on diskette)	Not Analyzed	Have 2 wells only (D2, D3)

D-2

		Aug-86	Dec-88	Jun-90	Feb-92	Mar-93	Sep-93	Mar-94	Oct-94	Mar-96	Jun-97	Nov-97	May-98	Sep-98	Apr-99	Nov-99	May-00	Oct-00	Apr-01	Nov-01
D2	1,1,1-TRICHLOROETHANE			U (8	10 U	10 U	50 U	10 U		10 U	1 U	1 U	31 U	0.2 J	10 U	10 U	10 U	27 U		28 U
D2	1,1-DICHLOROETHANE	6.41	5 U	2 J	10.13911 U	1 J	6 J	3 J	4 J	4 J	0.5 U	0.5 U	7 JD	5	3 J	7 J	4 J	6 J	5 J	8 J
D2	1,1-DICHLOROETHENE	6.41	5 U	U	10 U	10 U				10 U	1 U		31 U	0.3 J	10 U	10 U	10 U	27 U		28 U
D2	1,2-DICHLOROBENZENE		10 U	U	9 U	10 U		10 U		10 U	0.8 U	0.8 U		2		2 J	1 J	27 U	2 J	28 U
D2	1,2-DICHLOROETHANE	7.98	5 U	5 U*	10 U	10 U	50 U	10 U	4 J	10 U	0.6 U	6	16 JD	0.2 U	5 J	12 J	6 J	15 J	11	1.4 J
D2	1,2-DICHLOROPROPANE		5 U		10 U	10 U				10 U	0.9	2	3 JD	2	10 U	3 J	10 U	27 U		28 U
D2	1,3-DICHLOROBENZENE	NA	NA	NA	9 U	10 U		10 U		10 U	0.8 U	0.8 U		0.1 J			10 U	27 U		28 U
D2	1,4-DICHLOROBENZENE	4.6 <	10 U	U	9 U	10 U		3 J		6 J	7	11		13		16 J	9 J	10 J	10	1.3 J
D2	2-BUTANONE		10 U	U	10 U	10 U				10 U			31 U	0.9 B	10 U		10 U	27 U		28 U
D2	2-CHLOROTOLUENE			U										1						
D2	ACETONE		59 B	U	10 U	10 U	23 J			10 U			31 U	0.9 U	10 U		10 U	29		28 U
D2	AMMONIA	0.05 <	0.1 <	0.04 <															0.04	
D2	BENZENE	4.4 U*	11	2 J (3	10 U	50	470	10 J	220 D	260 E	36 B	250 D	460 D	140	110	520 J	140	420	310 D	440
D2	BIOLOGICAL OXYGEN DEMAND	2 <	10 <	1 <															5.4	
D2	BIS(2-ETHYLHEXYL)PHTHALATE		2 J	2 J										0.2 J	10 U	10 U	10 U	27 U	10 U	28 U
D2	CARBON DISULFIDE		5 U	U	10 U	10 U	50 U													
D2	CHEMICAL OXYGEN DEMAND	15	6.8	10 <															139.6	
D2	CHLORIDE		27.6	34					2 J	4 J	0.9	6	8 JD	7	2 J	7 J	3 J	6 J	4 J	5 J
D2	CHLOROBENZENE		5 U	U	10 U	10 U														
D2	CHLOROFORM	209	61	52 (46	31	24	99	52	23	53	24	0.7 U	85 D	43 D	31	68 J	37	48	44	4.7
D2	CIS-1,2-DICHLOROETHENE	NA	NA	NA	10 U									16		27 J	11	21 J	18	23 J
D2	CYCLOHEXANE	NA	NA	NA	NA														0.9 J	28 U
D2	DATE	19850828	19881216	2E+07	19920200														2E+07	
D2	DICHLORODIFLUOROMETHANE	23.7	NA	NA	NA		NA							33 JD		72 J	38	27	32	28 J
D2	DIETHYLETHER													590 D						
D2	ISOPHORONE	21.9	10 U	U		1 J				11	6 J			6			3 J	5 J	5 J	5 J
D2	ISOPROPYLBENZENE	NA	NA	NA	NA															
D2	METHYLENE CHLORIDE	183 B	11 B	11	10 U	11 J	80 B	31 BJ	24 J	45 J	17	33 B	58 D	36 D	13	58 J	29	40	33	42
D2	NAPHTHALENE		10 U	U		10 U				10 U	10 U			0.2						
D2	NITRATE	0.1 <	0.77	0.05															5.91 JHTF	
D2	PH	8	8.53	6.4						10 U	6 J									
D2	PHENOL	2.35	NA	NA	9 U	10 U														
D2	PHOSPHORUS		0.54	0.15 <										0.4 J						
D2	SEC-BUTYLBENZENE																			
D2	SPECIFIC CONDUCTANCE	270	336	481																
D2	SULFATE		2.5	20.2								400		83 D		512.18 E	303.64	237.7	318.82	444.25
D2	TERT-BUTYLALCOHOL	NA	NA	NA	NA									0.2 J						
D2	TERT-BUTYLBENZENE				NA															
D2	TETRACHLOROETHENE	14.3	5 U	6 (15	4 J	4 J	14 J	7 J	9 J	8 J	6	8	11 JD	7	5 J	11 J	6 J	9 J	7 J	9 J
D2	TETRAHYDROFURAN				NA									120 D						
D2	TOTAL COLIFORM	4	2 <	230																
D2	TOTAL DISSOLVED SOLIDS	210	199	224																
D2	TOTAL KJELDAHL NITROGEN	1.6	0.14 <	0.27																
D2	TOTAL ORGANIC CARBON	3.2																		
D2	TOTAL SUSPENDED SOLIDS	8	2	1 <															769.72	
D2	TOTAL VOLATILE ORGANICS	428.51	142	62	55															
D2	TRANS-1,2-DICHLOROETHENE	4.4 U*	5 U	5 U*	10 U	2 JY	22 JY	7 J	13	31	5	16	23 JD	2	8 J	3 J	2 J	27 U	2 J	28 U
D2	1,2-DICHLOROETHENE, TOTAL	4.4 U*	5 U	5 U*	10 U	2 JY	22 JY	7 J	13	31	5	16	23 JD	18	8 J	30 J	13	21	20	23
D2	TRICHLOROETHENE	8.34	5 U	5 U*	10 U	10 U	6 J	3 J	4 J	4 J	2	3	8 JD	3	2 J	6 J	3 J	5 J	4 J	5 J
D2	TRICHLOROFLUOROMETHANE	NA	NA	NA	NA						3	5		0.6 U			4 J	5 J	10 U	5 J

Table 4-1

19 SEP 02

D-4

		Aug-85	Dec-88	Jun-90	Feb-92	Mar-93	Sep-93	Mar-94	Oct-94	Mar-95	Jan-96	Jun-97	Nov-97	May-98	Sep-98	Apr-99	Nov-99	May-00	Oct-00	Apr-01	Nov-01
D4	1,1-DICHLOROETHANE		5 U*	NA	50 U				10 U	10 U		0.5 U		10 U	0.05 J	10 U	10 U	10 U	10 U		10 U
D4	1,2,4-TRIMETHYLBENZENE			NA	NA				NA												
D4	1,3,5-TRIMETHYLBENZENE			NA	NA				NA												
D4	2-BUTANONE		10 U	NA	50 U					10 U				10 U	7	10 U	10 U	10 U	10 U		10 U
D4	2-HEXANONE		10 U	NA	50 U									10 U	1	10 U	10 U	10 U	10 U		10 U
D4	ACETONE		14	NA	50 U		50 U		10 U	10 U				8 J	32 BD	2 J		10 U			10 U
D4	AMMONIA		0.1 <	NA	NA															0.03 K	
D4	BENZENE	4.4 U*	5 U	NA	230	170	250	36	100 J	120	90	10	29	9 J	11	6 J	5 J	2 J	4 J	4 J	3 J
D4	BIOLOGICAL OXYGEN DEMAND		10 <	NA																1 K	
D4	BIS(2-ETHYLHEXYL)PHTHALATE	10 <	66	NA	5 J									10 U	0.4 U	10 U	10 U	10 U	2 J	3 J	10 U
D4	CARBON DISULFIDE		5 U	NA	NA		50 U														
D4	CHEMICAL OXYGEN DEMAND		54.9	NA	NA															6.4	
D4	CHLORIDE		9.2	NA	NA							0.6 U		10 U	0.3 U	10 U	10 U	10 U	10 U	10 U	10 U
D4	CHLOROBENZENE		5 U	NA	50 U		50 U		10 U	10 U		56 B	28 B	30	1	14	6 J	12	14	12	15
D4	CHLOROFORM	82.6	80	NA	29 J	72	42 J	68	58	90	69				0.4			10 U	10 U	10 U	10 U
D4	CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA															2E+07	
D4	DATE	19850828	19890110	2E+07	199(19920200																
D4	DI-N-BUTYLPHTHALATE	10 <	1 J	NA	10 U										0.2 J			10 U		10 U	
D4	DICHLORODIFLUOROMETHANE	U	NA	NA	NA										31 D						
D4	DIETHYLETHER			NA	NA										0.4						
D4	METHYLENE CHLORIDE	U	3 JB	NA	50 U	3 BJ	50 U	7 BJ	7 BJ	8 BJ		0.3 BJ	0.3 J	10 U			10 U	10 U	10 U	10 U	10 U
D4	NAPHTHALENE		10 U	NA	10 U			10 U		10 U					1						
D4	NITRATE		1.1	NA	NA															11.58 JTHF	
D4	PH		6.92	NA	NA																
D4	PHENOL	U	NA	NA	5 J			10 U		10 U											
D4	SPECIFIC CONDUCTANCE		242	NA	NA																
D4	SULFATE		1.5	NA	NA								14 U		0.3 U			3.31 J	30 U	30 U	30 U
D4	TERT-BUTYLALCOHOL	NA	NA	NA	NA							1 U	1 U		0.1 J			10 U	10 U	10 U	10 U
D4	METHYL-TERTBUTYLETHER			NA	NA										19		9 NJ				
D4	TETRAHYDROFURAN			NA	NA																
D4	TOTAL DISSOLVED SOLIDS		161	NA	NA															38	
D4	TOTAL SUSPENDED SOLIDS		31	NA	NA																
D4	TOTAL VOLATILE ORGANICS	0	100	NA	258							1.7 U	1.7 U	10 U	0.3 J	10 U	10 U	10 U	10 U	10 U	10 U
D4	TOTAL XYLENES		5 U	NA	50 U		50 U	10 U	10 U			1	2	10 U		10 U	10 U	10 U	10 U	10 U	10 U
D4	TRANS-1,2-DICHLOROETHENE	5.4	3 JB	NA	50 U	4 J			3 J	4 J		4	5	2 J	1	2 J	2 J	1 J	1 J	1 J	1 J
D4	TRICHLOROETHENE	2 U*	5 U*	NA	50 U	3 J	50 U	2 J	4 J	5 J	6	61	69	16 NJ	5			17	18	18	14
D4	TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	24 Jtic	NA	NA	50 Jtic	80 Jtic											

Table 4-2

17 SEP 02

D6

		Aug-85	Feb-92	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
D6	1,2-DIBROMO-3-CHLOROPROPANE					5 J	10 U	10 U
D6	1,1-DICHLOROETHANE	4.7 <		0.5 U	1.7	10 U	1 J	1 J
D6	1,2-DICHLOROBENZENE			0.8 U	2.5	4 J	2 J	2 J
D6	1,2-DICHLOROETHANE	37.2		0.6 U	6.9	10 U	5 J	4 J
D6	1,2-DICHLOROPROPANE			0.8 U	0.84	10 U		10 U
D6	1,2,4-TRICHLOROBENZENE					11 J		10 U
D6	1,4-DICHLOROBENZENE			0.4 U	11	15 J	8 J	9 J
D6	BENZENE	39.1	10 U	4	3.2	2 J	10 U	0.9 J
D6	BIOLOGICAL OXYGEN DEMAND	6						
D6	CHEMICAL OXYGEN DEMAND	14						
D6	CHLOROBENZENE			1 B	14	17 J	10	10
D6	CIS-1,2-DICHLOROETHENE	NA			10	12 J	7 J	7 J
D6	DATE	19850828	19920200					
D6	DICHLORODIFLUOROMETHANE	13.8			0.53 UJ*		10 U	10 U
D6	DIETHYLETHER				130 J			
D6	ISOPROPYLBENZENE	NA	NA		0.39		10 U	10 U
D6	METHYLENE CHLORIDE	10.4 B		1 U	0.44 U	10 U	10 U	10 U
D6	PH	6.2						
D6	SPECIFIC CONDUCTANCE	650						
D6	TERT-BUTYLALCOHOL	NA	NA	48	77 J		152.08	266.27
D6	METHYL-TERTBUTYLETHER			42 B	1.7	10 U	10 U	10 U
D6	TOLUENE		10 U	5	R	10 U	10 U	10 U
D6	TOTAL DISSOLVED SOLIDS	470						
D6	TOTAL KJELDAHL NITROGEN	1.1						
D6	TOTAL ORGANIC CARBON	5.5						
D6	TOTAL SUSPENDED SOLIDS	22						
D6	TOTAL VOLATILE ORGANICS	174.6	5					
D6	TOTAL XYLENES			2.7 B	U	10 U	10 U	10 U
D6	TRANS-1,2-DICHLOROETHENE	47.5		2	0.25 U	10 U	10 U	10 U
D6	TRICHLOROETHENE	26	5 J	0.8 U	1.3	1 J	10 U	10 U
D6	VINYL CHLORIDE						2 J	10 U

Table 4-3

11SEP02

D7

		Aug-85	Dec-88	Jun-90	Feb-92	Mar-93	Jan-96	Jun-97	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
D7	CARBON DISULFIDE		5 U	1 J (1J on rerun)						0.26 U	10 U	10 U	10 U
D7	2-CHLOROPHENOL		10 U	5 J	10 U			10 U					
D7	1,1-DICHLOROETHANE		5 U	U	10 U			0.5 U	0.5 U	0.97	10 U	10 U	10 U
D7	1,2-DICHLOROBENZENE		10 U	U	10 U	2 J		0.8 U	0.8 U	4.9	3 J	3 J	3 J
D7	1,2-DICHLOROPROPANE		5 U					3 J	0.3 J	0.49 U	10 U	10 U	10 U
D7	1,3-DICHLOROBENZENE	NA	NA	NA	10 U			0.8 U	1 B	1.1 J	10 U	10 U	10 U
D7	1,4-DICHLOROBENZENE	10 U*	10 U	10 U*	4 J	8 J		12	19	22 J	17 J	14	12
D7	2,4-DICHLOROPHENOL							4 J					
D7	2-HEXANONE		4 J	U	10 U					1.26 U	10 U	10 U	10 U
D7	ACETONE		13 JB	U						0.85 U	10 U	10 U	10 U
D7	AMMONIA	0.29	0.1 <	3.84									
D7	BENZENE	66.4	5 U	44 (11 c	10 U	6 JY	10	2	6	4.6	4 J	2 J	2 J
D7	BIOLOGICAL OXYGEN DEMAND	510	10	10									
D7	BIS(2-ETHYLHEXYL)PHTHALATE		5	2 J									
D7	CHEMICAL OXYGEN DEMAND	1500	305.9	110									
D7	CHLORIDE		1017	1000									
D7	CHLOROBENZENE	9.88	5 U	10 U* (1	7 J	39	60	14 J	49	43 J	25 J	20	12
D7	CHLOROETHANE	22.5	10 U	U	10 U			0.6 U	0.6 U	0.57 U	10 U	10 U	10 U
D7	CHLOROFORM		5 U	U	10 U			2 J	0.7 U	0.42 U	10 U	10 U	10 U
D7	CIS-1,2-DICHLOROETHENE	NA	NA	NA	10 U					0.5 J		10 U	10 U
D7	DATE	19850904	19881216	2E+07	19920200								
D7	ETHYLBENZENE	34.2	1 J	U	10 U			0.9 U	0.9 U	0.3 U	10 U	10 U	10 U
D7	FECAL COLIFORM	U	NA	8									
D7	ISOPROPYLBENZENE	NA	NA	NA	NA					8.9	5 J	2 J	1 J
D7	METHYLENE CHLORIDE	23.8 B	1 JB	12 B	10 U	2 J		1 U	1 U	0.44 U	10 U	10 U	10 U
D7	NITRATE	0.1 <	9.6	0.1 <									
D7	PH	6.6	8.12	6.92									
D7	PHOSPHORUS		5.1	0.15 <									
D7	SPECIFIC CONDUCTANCE	3850	3630	3980									
D7	SULFATE		6.8	10 <									
D7	TERT-BUTYLALCOHOL	NA	NA	NA	NA				660	140 J	319.23	214.1	403.93
D7	METHYL-TERTBUTYLETHER		NA		NA			1 U	0.7 J	4 J		10 U	10 U
D7	TOLUENE	1140	5 U	4 J (2J	10 U			0.8 U	0.6 J	0.71	10 U	10 U	10 U
D7	TOTAL COLIFORM	34	2 <	78									
D7	TOTAL DISSOLVED SOLIDS	3900	2914	2430									
D7	TOTAL KJELDAHL NITROGEN	6.1	0.14 <	9.64									
D7	TOTAL ORGANIC CARBON	440											
D7	TOTAL SUSPENDED SOLIDS	130	55	31.4									
D7	TOTAL VOLATILE ORGANICS	1292.98	19	60	7								

Table 4-4

10 SEP 02

DW-4

		Aug-85	Dec-88	Jun-90	Feb-92
DW4	1,4-DICHLOROBENZENE				5 J
DW4	1,2-DICHLOROETHANE	14.2	5 U	5 U	R
DW4	4-METHYLPHENOL				33 J
DW4	ACETONE		14	21 JB	80
DW4	BENZENE	252	5 U	4 J	260
DW4	BIOLOGICAL OXYGEN DEMAND			8	
DW4	BIS(2-ETHYLHEXYL)PHTHALATE		66	3 J	
DW4	CHEMICAL OXYGEN DEMAND			19.8	
DW4	CHLORIDE			8.9	
DW4	CHLOROBENZENE	6 <	5 U	3 J	R
DW4	CHLOROFORM	155	80	94	R
DW4	DATE	19850904	19890110	2E+07	19920200
DW4	DI-N-BUTYLPHTHALATE	10 <	1 J	20 U	
DW4	DICHLORODIFLUOROMETHANE	10 BM			
DW4	DIETHYLPHTHALATE		10 U	2 J	
DW4	METHYLENE CHLORIDE	22 B	3 JB	8 JB	R
DW4	PHENOL				11 J
DW4	SPECIFIC CONDUCTANCE			342	
DW4	TETRACHLOROETHENE	5.58	5 U	4 J	R
DW4	TOTAL DISSOLVED SOLIDS			193	
DW4	TOTAL KJELDAHL NITROGEN			0.44	
DW4	TOTAL SUSPENDED SOLIDS			67.1	
DW4	TOTAL VOLATILE ORGANICS	537.68	106	137	
DW4	TRANS-1,2-DICHLOROETHENE	17.5	3 J	5 U	
DW4	TRICHLOROETHENE	56.8	5 U	12	R

Table 4-5

11SEP02

mw-01

		Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Apr-01	Nov-01
MW01	1,1-DICHLOROETHANE		0.5 U	3	10 U	2 J	1 J	1 J
MW01	1,1-DICHLOROETHENE		1 U	0.2 J	10 U	10 U	10 U	10 U
MW01	1,2-DICHLOROETHANE					4 J	10 U	10 U
MW01	1,2-DICHLOROPROPANE		0.4 J	0.3	10 U	10 U	10 U	10 U
MW01	1,3-DICHLOROPROPANE			0.4				
MW01	1,4-DICHLOROBENZENE		4	2	10 U	10 U	10 U	10 U
MW01	2-BUTANONE			1 B	10 U	10 U	10 U	10 U
MW01	2-HEXANONE			0.5	10 U	10 U	10 U	10 U
MW01	AMMONIA						0.03 K	
MW01	BENZENE	81	49	150 D	200	130	27	93
MW01	BIOLOGICAL OXYGEN DEMAND						1 K	
MW01	CARBON DISULFIDE			1	10 U	10 U	10 U	10 U
MW01	CHLORIDE						10.4	
MW01	CHLOROBENZENE	4	3 B	0.9	10 U	10 U	10 U	10 U
MW01	CHLOROFORM	5	0.7 U	22 D	40	32	13	38
MW01	CIS-1,2-DICHLOROETHENE			12	9 J	10	4 J	8 J
MW01	DATE						2E+07	
MW01	DICHLORODIFLUOROMETHANE			150 D	340 J	160	95	130
MW01	DIETHYLETHER			500 D				
MW01	ISOPROPYLBENZENE			0.8		10 U	10 U	10 U
MW01	METHYLENE CHLORIDE		1	3		3 J	1 J	3 J
MW01	PH						5.96 JHTF	
MW01	METHYL-TERTBUTYLETHER		0.5 JB			10 U	10 U	10 U
MW01	TETRACHLOROETHENE	4	3	4	3 J	4 J	2 J	3 J
MW01	TETRAHYDROFURAN			80 D	22 J			
MW01	TOTAL VOLATILE ORGANICS						176	
MW01	TOTAL XYLENES		1.7 U	0.4	10 U	10 U	10 U	10 U
MW01	TRANS-1,2-DICHLOROETHENE		10	0.3 J	10 U	10 U	10 U	10 U
MW01	TRICHLOROETHENE	2	2	2	2 J	3 J	1 J	3 J
MW01	TRICHLOROFLUOROMETHANE		16	26 JD	36	53	32	69
MW01	VINYL CHLORIDE	3	1 U		1 J	2 J	10 U	10 U

Table 4-6

10 SEP 02

MW-02

		Mar-94	Mar-95	Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW02	1,1-DICHLOROETHANE	10 U	10 U			6.1	9 J	10	18
MW02	1,2-DICHLOROBENZENE		2 J	3 J	0.8 U	4.5	3 J	4 J	10
MW02	1,2-DICHLOROPROPANE		10 U			0.72	10 U	10 J	10 U
MW02	1,3-DICHLOROBENZENE		10 U	0.7 J	0.8 U	0.63	10 U	10 J	10 U
MW02	1,4-DICHLOROBENZENE	20	11	15	6	8.3	3 J	4 J	6 J
MW02	BENZENE	21	10 U	6 J	2 B	4.9	8 J	12	13
MW02	CHLOROBENZENE	170	32	37	9 B	20 D	17 J	23	31
MW02	CHLOROFORM	10 U	10 U	U	illeg	0.32 J	10 U	10 J	10 U
MW02	CIS-1,2-DICHLOROETHENE					2.7	2 J	2 J	4 J
MW02	DICHLORODIFLUOROMETHANE					96 J	120 J	69	110
MW02	DIETHYLETHER					73			
MW02	ISOPROPYLBENZENE					3.9	2 J	2 J	4 J
MW02	METHYLENE CHLORIDE		4 J		illeg	0.44 U	2 J	3 J	4 J
MW02	SEC-BUTYLBENZENE					0.32 J			
MW02	TERT-BUTYLALCOHOL				illeg	27 J	95.23	72.08	134.14
MW02	METHYL-TERTBUTYLETHER				illeg	0.54 J		10 U	10 U
MW02	TETRAHYDROFURAN					24			
MW02	TRANS-1,2-DICHLOROETHENE		10 U	3 J	3 ?	0.25 U	10 U	10 U	10 U
MW02	TRICHLOROETHENE	10 U	10 U		0.5 J	0.99	10 U	1 J	2 J
MW02	TRICHLOROFLUOROMETHANE							3 J	10 U

Table 4-7

10SEP02

MW-03

		Jan-96	Jun-97	Nov-97	May-98	Sep-98	Apr-99	Nov-99	May-00	Oct-00	Apr-01	Nov-01
MW03	1,1-DICHLOROETHANE	2 J	4	0.5 U	3 J	1.2	2 J	10 U	10 U	1 J	1 J	1 J
MW03	1,2-DICHLOROBENZENE	8 J	0.8 U	illegible		4.3		3 J	2 J	2 J	R	2 J
MW03	1,2-DICHLOROPROPANE		0.8 U	0.8 U	10 U	0.35	10 U	10 U	10 U	10 U	10 U	10 U
MW03	1,3-DICHLOROBENZENE	3 J	0.7 J	0.8 U		0.85		10 U	10 U	10 U	10 U	10 U
MW03	1,4-DICHLOROBENZENE	24	9	7 ?		11		8 J	4 J	5 J	R	4 J
MW03	ACETONE	11			4 J	0.85 U	10 U	10 U	10 U	10 U	10 U	10 U
MW03	AMMONIA										0.03 K	
MW03	BENZENE	16	7	4	4 J	3.3	3 J	3 J	2 J	3 J	2 J	3 J
MW03	BIOLOGICAL OXYGEN DEMAND										1 K	
MW03	BROMOFORM					5						
MW03	CHLORIDE										15	
MW03	CHLOROBENZENE	180	40	26	12	30	15	27 J	14	21	14	14
MW03	CHLOROFORM		0.7 U	0.7 U	2 J	0.42 U	2 J	10 U	10 U	10 U	10 U	10 U
MW03	CIS-1,2-DICHLOROETHENE					1.2		2 J	10 U	10 U	1 J	1 J
MW03	CYCLOHEXANE											10 U
MW03	DICHLORODIFLUOROMETHANE					0.53 UJ*	34 J	42 J	10 U	15	10	12
MW03	DIETHYLETHER					90						
MW03	ISOPROPYLBENZENE							2 J	10 U	1 J	10 U	10 U
MW03	METHYLENE CHLORIDE		1 B	0.9 J	10 U	0.44 U	1 J	10 U	10 U	10 U	10 U	10 U
MW03	PH										6.12 JHTF	
MW03	SEC-BUTYLBENZENE					0.31 J						
MW03	TERT-BUTYLALCOHOL			190		97 J		122.14	65.64	107	30 U	57.48
MW03	METHYL-TERTBUTYLETHER		1 J	0.6 J		0.3 J		10 U	0.46 J	10 U	10 U	10 U
MW03	TETRACHLOROETHENE		0.6 U	0.6 U	1 J	0.37 U	1 J	10 U	10 U	10 U	10 U	10 U
MW03	TETRAHYDROFURAN					25						
MW03	TOTAL VOLATILE ORGANICS											
MW03	TRANS-1,2-DICHLOROETHENE	1 J	2	1	1 J	0.25 U	1 J	10 U	10 U	10 U	10 U	10 U
MW03	TRICHLOROETHENE		2	0.8 U	2 J	0.33	1 J	10 U	10 U	10 U	10 U	10 U
MW03	TRICHLOROFLUOROMETHANE			8		0.84 U		6 J	3 J	10 U	2 J	2 J

Table 4-8

10 SEP02

MW-04

		Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW04	1,1-DICHLOROETHANE		0.5 U	0.41	10 U	10 U	10 U
MW04	1,2-DICHLOROBENZENE		0.8 U	1.4	10 U	10 U	10 U
MW04	1,4-DICHLOROBENZENE		0.4 U	8.6	2 J	2 J	4 J
MW04	BENZENE	2	2	1.6	10 U	10 U	0.9 J
MW04	CHLOROBENZENE	10	5	11	3 J	3 J	6 J
MW04	DIETHYLETHER			33			
MW04	ISOPROPYLBENZENE			4.7	10 U	10 U	10 U
MW04	TERT-BUTYLALCOHOL		87	24	30.37	30 U	131.66

Table 4-9

10SEP02

MW-5A / MW-6

		Sep-93	Mar-94	Oct-94	Mar-95	Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW05A	1,1-DICHLOROETHANE	3 J	2 J	1 J	10 U		0.5 U	0.36 U	10 U	10 U	10 U
MW05A	1,2-DICHLOROBENZENE					1 J	0.8 U	0.49	10 U	10 U	10 U
MW05A	1,4-DICHLOROBENZENE			NA	6 J	6 J	3	1.9	3 J	1 J	10 U
MW05A	ACETONE	28 B		10 U	10 U	10		0.85 U	10 U	10 U	10 U
MW05A	BENZENE	2 JY	10 U	10 U	10 U	2 J	0.9	0.24	10 U	10 U	10 U
MW05A	CARBON DISULFIDE									R	10 U
MW05A	CHLOROBENZENE	12	8 J	13	17	22	12	7.4	9 J	3 J	3 J
MW05A	CHLOROETHANE				10 U	2 J	0.6 U	0.57 U	10 U	10 U	10 U
MW05A	DIETHYLETHER							2.7			
MW05A	ISOPROPYLBENZENE							0.22 J	10 U	10 U	10 U
MW05A	METHYLENE CHLORIDE	1 BJYı	6 BJ	4 J	7 J		1 U	0.44 U	10 U	10 U	10 U
MW05A	METHYL-TERTBUTYLETHER						0.8 J	0.7 U	10 U	10 U	10 U
MW05A	TERT-BUTYLALCOHOL						37	1.8	30 U	30 U	30 U
MW05A	TETRAHYDROFURAN							3.8			
MW05A	TOLUENE	10 U	10 U	10 U	10 U		0.8 J	0.21 U	10 U	10 U	10 U
MW05A	TOTAL XYLENES	10 U	10 U	10 U	10 U		0.3 J	U	10 U	10 U	10 U

		Sep-93	Mar-94	Oct-94	Mar-95	Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW06	1,1-DICHLOROETHANE						0.5 U	0.21 J	10 U	10 U	10 U
MW06	1,2-DICHLOROBENZENE								1 J	10 U	1 J
MW06	1,2-DICHLOROETHANE									2 J	10 U
MW06	1,2,4-TRIMETHYLBENZENE							0.52			
MW06	1,3,5-TRIMETHYLBENZENE							0.18			
MW06	1,4-DICHLOROBENZENE						5	0.7	5 J	3 J	4 J
MW06	BENZENE					1	2	1.3	4 J	2 J	2 J
MW06	CHLOROBENZENE					13	8	0.69	9 J	6 J	7 J
MW06	CIS-1,2-DICHLOROETHENE								1 J		1 J
MW06	DICHLORODIFLUOROMETHANE								16 J	5 J	5 J
MW06	DIETHYLETHER							21 J			
MW06	ETHYLBENZENE							0.55	10 U	10 U	10 U
MW06	METHYLENE CHLORIDE						0.5 J	0.44 U	10 U	10 U	10 U
MW06	TERT-BUTYLALCOHOL						100	0.63 U	79.13	30 U	51.96
MW06	METHYL-TERTBUTYLETHER						1 U	4.4	10 U	10 U	10 U
MW06	TOLUENE						0.8 U	4.6 J	10 U	10 U	10 U
MW06	TOTAL XYLENES						1.7 U	4.2	10 U	10 U	10 U
MW06	TRANS-1,2-DICHLOROETHENE								10 U	10 U	10 U
MW06	TRICHLOROETHENE					U	0.8 U	0.13 J	2 J	1 J	2 J

Table 4-10

11SEP02

MW-07

		Jan-96	Jun-97	Nov-97	May-98	Sep-98	Apr-99	Nov-99	May-00	Oct-00	Apr-01	Nov-01
MW07	1,1-DICHLOROETHANE	35	26	26	2 J	31.6	13	18 J	2 J	20	2 J	19
MW07	1,2-DICHLOROBENZENE	2 J	0.8 U	0.8 U		0.36 U		10 U	10 U	10 U	10 U	10 U
MW07	1,2-DICHLOROETHANE	9 J	0.6 U	0.6 U	10 U	0.45 U	10 U	10 U	10 U	5 J	10 U	10 U
MW07	1,2-DICHLOROPROPANE	1 J	0.6 J	0.8 U	10 U	1	10 U	10 U	10 U	10 U	10 U	10 U
MW07	1,3,5-TRIMETHYLBENZENE					0.18						
MW07	1,4-DICHLOROBENZENE	4 J	0.4 U	2	NA	1.7		10 U	10 U	1 J	10 U	10 U
MW07	2-CHLOROTOLUENE					0.17 J						
MW07	ACETONE				4 J	0.85 U	10 U	10 U	10 U	10 U	10 U	10 U
MW07	AMMONIA										0.03 K	
MW07	BENZENE	57	51	99	10 U	110	10 U	26 J	10 U	57	10 U	28
MW07	BIOLOGICAL OXYGEN DEMAND										1 K	
MW07	CHLORIDE										44.3	
MW07	CHLOROBENZENE	8 J	0.7 J	4	10 U	5.9	10 U	10 U	10 U	3 J	10 U	10 U
MW07	CHLOROETHANE	5 J	0.6 U	0.6 U		1.04 UJ*	10 U	10 U	10 U	1 J	10 U	10 U
MW07	CHLOROFORM	26	0.7 U	0.7 U	10 U	51	6 J	17 J	10 U	23	10 U	8
MW07	CIS-1,2-DICHLOROETHENE					2.5		10 U	10 U	10 U	10 U	10 U
MW07	DATE										2E+07	
MW07	DICHLORODIFLUOROMETHANE					93 DJ*	28 J	43 J	6 J	23	7 J	20
MW07	DIETHYLETHER					590						
MW07	ISOPROPYLBENZENE					5.5		10 U	10 U	10 U	10 U	10 U
MW07	METHYLENE CHLORIDE	15	8 B	17	10 U	28 J	2 J	7 J	10 U	10	10 U	4 J
MW07	PH										6.23 JHTF	
MW07	P-ISOPROPYLTOLUENE					0.16 J						
MW07	SEC-BUTYLBENZENE					0.22 J						
MW07	TERT-BUTYLALCOHOL			270		100 J			30 U	64.32	30 U	54.77
MW07	TETRACHLOROETHENE	1 J	0.6 U	0.6 U	10 U	1.2	10 U	10 U	10 U	10 U	10 U	10 U
MW07	TOLUENE	1 J			10 U	0.21 U		10 U	10 U	10 U	10 U	10 U
MW07	TOTAL VOLATILE ORGANICS										9	
MW07	TOTAL XYLENES		1.7 U		10 U	0.51	10 U	10 U	10 U	10 U	10 U	10 U
MW07	TRANS-1,2-DICHLOROETHENE	2 J	2	2		0.25 U	10 U	10 U	10 U	10 U	10 U	10 U
MW07	TRICHLOROETHENE	2 J	2	2	10 U	2.5	10 U	10 U	10 U	1 J	10 U	1 J

Table 4-11

13 SEP02

MW-08A

		Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW08A	1,1-DICHLOROETHANE		0.5 U	0.3 J	10 UJ	10 U	10 U
MW08A	1,2-DICHLOROETHANE		0.6 U	0.6	10 UJ	2 J	10 U
MW08A	1,4-DICHLOROBENZENE	1 J	2	3	2 J	4 J	8 J
MW08A	2-BUTANONE			1 B	10 UJ	10 U	10 U
MW08A	2-CHLOROTOLUENE			0.4 J			
MW08A	2-HEXANONE			0.2 J	10 UJ	10 U	10 U
MW08A	ACETONE			2 B	10 UJ	10 U	10 U
MW08A	BENZENE		0.6 U	0.6	10 UJ	10 U	1 J
MW08A	CARBON DISULFIDE			1	10 UJ	10 U	10 U
MW08A	CHLOROBENZENE	U	3	5	5 J	10	16
MW08A	CHLOROFORM		0.7 U	0.8	10 UJ	10 U	10 U
MW08A	DIETHYLETHER			67 D			
MW08A	METHYLENE CHLORIDE		0.3 J	0.8	10 UJ	10 U	10 U
MW08A	TERT-BUTYLALCOHOL		48	19	68.1	46.07	169.16
MW08A	METHYL-TERTBUTYLETHER		0.6 J	0.1 J	10 UJ	10 U	10 U
MW08A	TETRAHYDROFURAN			19	25 NJ		
MW08A	TRICHLOROETHENE		0.8 U	0.08 J	10 UJ	10 U	10 U

Table 4-12

11SEP02

MW-09, MW-10, MW-11

		Jan-96	Jun-97	May-98	Apr-99	May-00	Apr-01
MW09	AMMONIA						0.14
MW09	BIOLOGICAL OXYGEN DEMAND						1 K
MW09	CHLORIDE						10.3
MW09	PH						5.24 JH
MW10	1,4-DICHLOROBENZENE	3 J	0.4 U			10 U	10 U
MW10	AMMONIA						0.03
MW10	BENZENE	1 J	0.6 U	10 U	10 U	10 U	
MW10	BIOLOGICAL OXYGEN DEMAND						1
MW10	CHLORIDE						6.9
MW10	CHLOROBENZENE	2 J	0.8 U	10 U	10 U	10 U	10 U
MW10	DATE						2E+07
MW10	PH						5.45
MW11	1,2-DICHLOROBENZENE	2 J	0.8 U				10 U
MW11	1,4-DICHLOROBENZENE	14	3				1 J
MW11	ACETONE			5 J	10 U		10 U
MW11	AMMONIA						1.86
MW11	BENZENE	4 J	7 B	3 J	10 U	10 U	10 U
MW11	BIOLOGICAL OXYGEN DEMAND						1.4 J
MW11	CHLORIDE						6.4
MW11	CHLOROBENZENE	8 J	1	2 J	10 U	10 U	10 U
MW11	DICHLORODIFLUOROMETHANE					1 J	10 U
MW11	ETHYLBENZENE	10 U	0.9 U	10 U	2 J	10 U	10 U
MW11	NAPHTHALENE				15 J		
MW11	PH						6.16 JH
MW11	TOTAL XYLENES	10 U	1.7 U	10 U	13	10 U	10 U

Table 4-13

11SEP02

MW-12

	Jan-96	Jun-97	May-98	Apr-99	May-00	Apr-01
1,2-DICHLOROBENZENE	8 J	0.8 U			3 J	2 J
1,2-DICHLOROETHANE	2 J	0.4 J	2 J	10 U	10 U	10 U
1,3-DICHLOROBENZENE	0.8 J	0			10 U	10 U
1,4-DICHLOROBENZENE	37	36			13	8 J
AMMONIA						0.03
BENZENE	5 J	3 B	3 J	1 J	10 U	10 U
BIOLOGICAL OXYGEN DEMAND						1 K
CHLORIDE						13.2
CHLOROBENZENE	26	19	21	15	10	8 J
PH						6.55 JH
TOTAL VOLATILE ORGANICS						8

Table 4-14a

10SEP02

MW-13

		Jan-96	Jun-97	Nov-97	May-98	Sep-98	Apr-99	Nov-99	May-00	Oct-00	Apr-01	Nov-01
MW13	1,1-DICHLOROETHANE	4 J	0.5 U	0.5	2 J	2	10 U	10 U	10 U	1 J	10 U	10 U
MW13	1,2,4-TRICHLOROBENZENE	10 U				0.1 J			10 U			
MW13	1,2,4-TRIMETHYLBENZENE					0.3 J						
MW13	1,2-DICHLOROBENZENE	2 J	0.8 U	0.8 U		4		5 J	3 J	4 J	R	3 J
MW13	1,2-DICHLOROETHANE	23 U	0.6 U	0.6 U	8 J	7	4 J	10 U	10 U	6 J	4 J	10 U
MW13	1,2-DICHLOROPROPANE	3 J	1	1	2 J	1 U	10 U	10 U	10 U	10 U	10 U	10 U
MW13	1,3,5-TRIMETHYLBENZENE					0.1 J						
MW13	1,3-DICHLOROBENZENE	10 U	0.8 U	0.8 U		0.3 J			10 U		10 U	10 U
MW13	1,4-DICHLOROBENZENE	18	21	21		20 D		31 J	16	18	15 B	13
MW13	2-BUTANONE	23 U			10 U	2 B	10 U	10 U	10 U	6 J	4 J	10 U
MW13	2-HEXANONE	23 U			10 U	0.2 J	10 U	10 U	10 U	10 U	10 U	10 U
MW13	4-METHYLPHENOL	2 J										
MW13	AMMONIA										0.29	
MW13	BENZENE	360	120 D	120 DB	140	88 D	26	42 J	29	45	30	25
MW13	BIOLOGICAL OXYGEN DEMAND										15.6 L	
MW13	CHLORIDE										236.5	
MW13	CHLOROBENZENE	7 J	7	9	9 J	12	10	17 J	9 J	14	10	8 J
MW13	CHLOROETHANE	23 U	0.6 U	0.6 U	1 J	2 U	10 U	10 U	10 U	2 J	1 J	10 U
MW13	CHLOROFORM	29	2	0.7 U	4 J	0.3 U	10 U	10 U	10 U	10 U	10 U	10 U
MW13	CIS-1,2-DICHLOROETHENE					6		2 J	1 J	2 J	2 J	10 U
MW13	DATE										20010419	
MW13	DICHLORODIFLUOROMETHANE					0.8 U		9 J		3 J	2 J	10 U
MW13	DIETHYLETHER					540 D						
MW13	ISOPROPYLBENZENE					7			4 J	5 J	4 J	3 J
MW13	METHYLACETATE								48	93	23	12
MW13	METHYLENE CHLORIDE	25	1 J	0.9 J	5 J	4	10 U	2 J	2 J	3 J	2 J	2 J
MW13	METHYL-TERTBUTYLETHER		0.5 J	0.5 J		0.5 U		10 U	0.43 J	10 U	10 U	10 U
MW13	NAPHTHALENE					0.3						
MW13	N-BUTYLBENZENE					0.4 J						
MW13	N-PROPYLBENZENE					0.3 J						
MW13	PH										6.46 JHTF	
MW13	SEC-BUTYLBENZENE					0.8						
MW13	TERT-BUTYLALCOHOL			450		140 D		730.53 E	503.08	390	473.18	430.64
MW13	TERT-BUTYLBENZENE					0.4 J						
MW13	TETRACHLOROETHENE	4 J		0.6 U	10 U	0.5 U	10 U		10 U	10 U	10 U	10 U
MW13	TETRAHYDROFURAN					21 D						
MW13	TOLUENE	23 U		0.8 J	10 U	0.4 J	10 U	10 U	10 U	10 U	10 U	10 U
MW13	TOTAL VOLATILE ORGANICS											
MW13	TOTAL XYLENES	23 U		1.7 U	1 J	0.7 J	10 U	10 U	10 U	10 U	10 U	10 U
MW13	TRANS-1,2-DICHLOROETHENE	19 J	9	10	9 J	0.4 U	2 J	2 J	10 U		10 U	10 U
MW13	TRICHLOROETHENE	23 U	0.6 J	0.8 U	10 U	0.3 J	10 U	10 U	10 U	10 U	10 U	10 U

Table 4-14b

10SEP02

MW-16

		Jan-96	Jun-97	May-98	Apr-99	May-00	Apr-01
MW16	1,1-DICHLOROETHANE	1 J	0.8	0.9 J	10 U	10 U	10 U
MW16	1,2-DICHLOROBENZENE	3 J	0.8 U			2 J	2 J
MW16	1,2-DICHLOROETHANE	22	0.6 U	28	14	9 J	7 J
MW16	1,2-DICHLOROPROPANE	1 J	1	1 J	10 U	10 U	10 U
MW16	1,4-DICHLOROBENZENE	19 J	19			12	11
MW16	AMMONIA						0.04 K C
MW16	BENZENE	29	27	32	23	11	7 J
MW16	BIOLOGICAL OXYGEN DEMAND						1.1 J 2
MW16	CHLORIDE						212 21:
MW16	CHLOROBENZENE	27	22	28	22	16	18
MW16	CHLOROETHANE	3 J	0.6 U	1 J	10 U	10 U	10 U
MW16	CHLOROFORM	2 J	0.7 U	4 J	1 J	10 U	10 U
MW16	CHLOROMETHANE	10 U	0.9 U	10 U	4 JN	10 U	10 U
MW16	CIS-1,2-DICHLOROETHENE					1 J	1 J
MW16	DATE						2E+07
MW16	METHYLENE CHLORIDE	4 J	5 B	6 J	2 J	10 U	10 U
MW16	PH						6.65 JH
MW16	TERT-BUTYLALCOHOL					134.8	191
MW16	TOLUENE	10 U	0.8 U	10 U	2 J	1 J	1 J
MW16	TOTAL VOLATILE ORGANICS						225
MW16	TRANS-1,2-DICHLOROETHENE	2 J	2	3 J	2 J	10 U	10 U

Table 4-15
10SEP02

MW-17

		Jan-96	Nov-97	Sep-98	Nov-99	Oct-00	Nov-01
MW17	1,1-DICHLOROETHANE	2 J	0.5 U	1	10 U	10 U	10 U
MW17	1,1-DICHLOROETHENE	10 U	1 U	0.1 J	10 U	10 U	10 U
MW17	1,2,4-TRICHLOROBENZENE	10 U		0.2 J			10 U
MW17	1,2-DICHLOROBENZENE	4 J	0.8 U	0.3	3 J	2 J	3 J
MW17	1,2-DICHLOROETHANE	2 J	0.6 U	11	9 J	9 J	9 J
MW17	1,2-DICHLOROPROPANE	10 U	0.5 J	0.7	10 U	10 U	10 U
MW17	1,3-DICHLOROBENZENE	10 U	0.8 U	0.3 J	10 U	10 U	10 U
MW17	1,4-DICHLOROBENZENE	21	18	19	15 J	10	12
MW17	2-BUTANONE	10 U		1 B	10 U	3 J	10 U
MW17	BENZENE	5 J	13	28 D	18 J	9 J	5 J
MW17	CARBON DISULFIDE	10 U		2	10 U	10 U	10 U
MW17	CHLOROBENZENE	37	24 B	25 D	28 J	20	19
MW17	CIS-1,2-DICHLOROETHENE			4	5 J	4 J	3 J
MW17	DICHLORODIFLUOROMETHANE				21 J	7 J	10 U
MW17	DIETHYLETHER			1100 D			
MW17	ISOPROPYLBENZENE			0.3 J		10 U	10 U
MW17	METHYLENE CHLORIDE	1 J	3 B	4	3 J	2 J	10 U
MW17	N-BUTYLBENZENE			0.2 J			
MW17	SEC-BUTYLBENZENE			0.5			
MW17	TERT-BUTYLALCOHOL		330	66 D	240.93	89.74	207.05
MW17	TERT-BUTYLBENZENE			0.4 J			
MW17	TOTAL XYLENES	10 U		0.2 J	10 U	10 U	10 U
MW17	TRANS-1,2-DICHLOROETHENE	10 U	2	0.4 U	10 U	10 U	10 U
MW17	TRICHLOROETHENE	10 U	0.8 U	2	3 J	2 J	3 J
MW17	VINYL CHLORIDE					1 J	10 U

Table 4-16

10SEP02

PT-2, PTO-3

PT-1	TOTAL VOLATILE ORGANICS	52	
		Dec-88	Mar-93
PT-2	1,2-DICHLOROPROPANE	3 J	
PT-2	2-BUTANONE	230	
PT-2	2-HEXANONE	8 J	
PT-2	4-METHYL-2-PENTANONE	33	
PT-2	ACETONE	90	
PT-2	BENZENE	16	
PT-2	BIOLOGICAL OXYGEN DEMAND	68 ?	
PT-2	CHEMICAL OXYGEN DEMAND	116.7	
PT-2	CHLOROBENZENE	52	
PT-2	CHLOROETHANE	13	
PT-2	DATE	19881200 pump test	
PT-2	ETHYLBENZENE	7 J	
PT-2	METHYLENE CHLORIDE	100	
PT-2	NITRATE	5.7	
PT-2	PH	6.44	
PT-2	PHOSPHORUS	0.315	
PT-2	SPECIFIC CONDUCTANCE	1810	
PT-2	SULFATE	11.8	
PT-2	TOLUENE	190	
PT-2	TOTAL DISSOLVED SOLIDS	1344	
PT-2	TOTAL SUSPENDED SOLIDS	3	
PT-2	TOTAL VOLATILE ORGANICS	759	
PT-2	TOTAL XYLENES	13	
PT-2	TRANS-1,2-DICHLOROETHENE	4 J	
		Dec-88	Mar-93
PTO-3	1,2-DICHLOROBENZENE		1 J
PTO-3	1,4-DICHLOROBENZENE		9 J
PTO-3	BENZENE		2 JY
PTO-3	CHLOROBENZENE		25

Table 4-17

11SEP02

PT-4

	Dec-88	Mar-93	Sep-93	Mar-94	Oct-94	Mar-95	Jan-96	Jun-97	May-98	Apr-99	May-00	Apr-01
CHLOROFORM	54	15 JD	35 JD	14	21	10 U	14 JD	5 B	2 J	6 J	10 U	10 U
BENZENE	5 U	1300 D	2000 D	340 D	56	10 U	260 D	45	10 U	10 U	10 U	10 U
DICHLORODIFLUOROMETHANE									32 NJ	tic m	19	23
PHENOL		13		9 J	NA	10 U	10	NA				
TRICHLOROFLUOROMETHANE								3			10 U	10 U

Table 4-18

PTO-2

		Mar-93	Sep-93	Mar-94	Oct-94	Mar-95	Jan-96	Jun-97	May-98	Apr-99	May-00	Apr-01
PTO-2	1,2-DICHLOROBENZENE					3 J	4 J	0.8 U			2 J	10 U
PTO-2	1,4-DICHLOROBENZENE	15 J-tic		20	NA	17	19	4			13	3 J
PTO-2	4-METHYLPHENOL					10 U	2 J	NA				
PTO-2	ACETONE	10 U	41	10 U	U*	10 U		NA	10 U	10 U	10 U	10 U
PTO-2	BENZENE	7 JY	10 U	4 J	5 J	10 U		1	2 J	1 J	10 U	10 U
PTO-2	CHLOROBENZENE	44	68	49	50	52		4	38	24	24	7 J
PTO-2	CHLOROETHANE	7 J	12	10 U	8 J	8 J		0.6 U	5 J	2 J	10 U	10 U
PTO-2	METHYLENE CHLORIDE	2 BJ	6 BJ n	3 BJ	5 J	10 U		1 U	10 U	10 U	10 U	10 U
PTO-2	TERT-BUTYLALCOHOL										157.42	32.34
PTO-2	TOTAL XYLENES	1 J	10 U	10 U		10 U		1.7 U	10 U	10 U	87 U	10 U

Table 4-19

11SEP02

S-1

		Aug-85	Dec-88	Jun-90	Feb-92	Sep-93	Oct-94
S1	1,1-DICHLOROETHANE	65	5 U	1 J	U	50 UJ	1 J
S1	1,2-DICHLOROETHANE		5 U	5 U	10 U	50 UJ	2 J
S1	1,2-DICHLOROBENZENE	U	10 U	18 J (19	28 J		NA
S1	1,3-DICHLOROBENZENE	NA	NA	NA	7 J		NA
S1	1,4-DICHLOROBENZENE		10 U	U	32		NA
S1	2-HEXANONE	U	6 J	U	10 U	50 UJ	10 U
S1	4-METHYL-2-PENTANONE	U	32	U	10 U	50 UJ	10 U
S1	ACETONE	U	240	39 B	10 U	50 UJ	10 U
S1	AMMONIA		0.1 <	4.26			
S1	BENZENE	65	44	35	13	50 UJ	6 J
S1	BIOLOGICAL OXYGEN DEMAND		64	30			
S1	BIS(2-ETHYLHEXYL)PHTHALATE	U	10 U	3 J (3J	29 U		
S1	CARBON DISULFIDE	U	3 J	1 J	10 U	50 UJ	
S1	CHEMICAL OXYGEN DEMAND		113	63			
S1	CHLORIDE		298	440			
S1	CHLOROBENZENE	U	27	140	86	610 DJ	34
S1	CHLOROETHANE	U	10 U	6 J	10 U	50 UJ	10 U
S1	DATE	19850904	19881208	2E+07	19920200		
S1	DICHLORODIFLUOROMETHANE	100 BM					
S1	DIETHYLPHTHALATE	U	2 J	11 J (9J	13 J		
S1	ETHYLBENZENE	U	12	6	10 U	50 UJ	10 U
S1	METHYLENE CHLORIDE	59.8 B	3 J	10 B	10 U	10 BJne	1 BJ
S1	NITRATE		2	0 <			
S1	PH		6.4	6.4			
S1	PHENOL	NA	NA	NA	7 J		
S1	PHOSPHORUS		1	0.15 <			
S1	SPECIFIC CONDUCTANCE		1852	2470			
S1	SULFATE		1	10 <			
S1	TOLUENE	1370	130	20	10 U	50 UJ	10 U
S1	TOTAL DISSOLVED SOLIDS		1454	1520			
S1	TOTAL KJELDAHL NITROGEN		2	7			
S1	TOTAL SUSPENDED SOLIDS		217	1.01 <			
S1	TOTAL VOLATILE ORGANICS	1556	518	213	99		
S1	TOTAL XYLENES	U	33	12	10 U	50 UJ	10 U
S1	TRANS-1,2-DICHLOROETHENE		5 U	5		50 UJ	4 J

Table 4-20

11SEP02

S-2

		Aug-85	Dec-88	Jun-90	Feb-92
S2	1,2-DICHLOROBENZENE	9.77	5 J	6 J	6 J
S2	1,4-DICHLOROBENZENE	39.4	21	33	32
S2	2-HEXANONE		5 J	U	
S2	ACETONE		15	30	
S2	BENZENE	4.4 <	5 U	2 J	10 U
S2	BIOLOGICAL OXYGEN DEMAND		18	2	
S2	BIS(2-ETHYLHEXYL)PHTHALATE	11 <	10 U	2 J	
S2	CHEMICAL OXYGEN DEMAND		30	10 <	
S2	CHLORIDE		46.9	42	
S2	CHLOROBENZENE	30	24	22	46
S2	DATE	19850904	19881214	2E+07	19920200
S2	METHYLENE CHLORIDE	5.84 B	5 U	U	
S2	NITRATE		1	0.1 <	
S2	PH		6.34	6.1	
S2	PHOSPHORUS		2.27	0.15 <	
S2	SPECIFIC CONDUCTANCE		2130	445	
S2	SULFATE		45.1	46.6	
S2	TOTAL COLIFORM		2 <	6	
S2	TOTAL DISSOLVED SOLIDS		271	291	
S2	TOTAL KJELDAHL NITROGEN		0.14 <	0.67	
S2	TOTAL SUSPENDED SOLIDS		85	509	
S2	TOTAL VOLATILE ORGANICS	34.74	44	54	46

Table 4-21
11SEP02

S-3

		Aug-85	Dec-88	Jun-90	Feb-92
S3	1,1-DICHLOROETHANE	51.4	5 U	U	5 U
S3	1,2-DICHLOROBENZENE		10 U	1 J	2 U
S3	1,3-DICHLOROBENZENE	NA	NA	NA	2 U
S3	1,4-DICHLOROBENZENE		10 U	8 J	10
S3	2-BUTANONE		10 U	180	
S3	ACETONE		5 U	330	
S3	BENZENE	80.2	5 U	6	2 J
S3	BIOLOGICAL OXYGEN DEMAND		530	49	
S3	BIS(2-CHLOROISOPROPYL)ETHER		1 J	U	6 U
S3	BIS(2-ETHYLHEXYL)PHTHALATE		16	56	
S3	CARBON DISULFIDE		5 U	2 JD	
S3	CHEMICAL OXYGEN DEMAND		863.8	95.2	
S3	CHLORIDE		607	510	
S3	CHLOROBENZENE	21.1	5 U	39 D	43.85307
S3	CHLOROETHANE		10 BM		10 U
S3	CHLOROFORM		5 U	U	2 UJ
S3	DATE	9850829	19881208	2E+07	19920200
S3	DI-N-BUTYLPHTHALATE		10 U	1 J	
S3	DI-N-OCTYLPHTHALATE		10 U	2 J	
S3	DICHLORODIFLUOROMETHANE	89.7			
S3	DIETHYLPHTHALATE	10.2	10 U	4 J	
S3	METHYLENE CHLORIDE	29.8 B	5 U	35 B	7 BJ
S3	NAPHTHALENE	3.16	10 U	4 J	
S3	NITRATE		3.1	0.1 <	
S3	PH		6.08	5.86	
S3	PHOSPHORUS		1.67	0.15 <	
S3	SPECIFIC CONDUCTANCE		1741	2300	
S3	SULFATE		6.3	10 <	
S3	TOLUENE	68.2	5 U	U	6 U
S3	TOTAL DISSOLVED SOLIDS		2396	1670	
S3	TOTAL KJELDAHL NITROGEN		0.28 <	2.71	
S3	TOTAL SUSPENDED SOLIDS		99	5.3	
S3	TOTAL VOLATILE ORGANICS	251.36		590	123
S3	TRANS-1,2-DICHLOROETHENE	8.02	5 U	U	
S3	TRICHLOROETHENE	4.04	5 U	U	2 U

Table 4.22

11 SEP 02

S-4

		Aug-85	Dec-88	Jun-90	Feb-92
S4	1,1-DICHLOROETHENE		5 U	2 J	
S4	1,2-DICHLOROBENZENE	7.25	10 U	2 J	3 J
S4	1,2-DICHLOROETHANE	6.1	5 U	U	
S4	1,4-DICHLOROBENZENE	10.1	10 U	U	13
S4	2-HEXANONE		9 J	U	
S4	4-CHLORO-3-METHYLPHENOL		10 U	28	
S4	ACETONE		10 U	62	
S4	BENZENE	4.446313 <	2 J	8	10 U
S4	BIOLOGICAL OXYGEN DEMAND		10 <	8	
S4	BIS(2-ETHYLHEXYL)PHTHALATE		10 U	1 J	
S4	CHEMICAL OXYGEN DEMAND		138.8	65.6	
S4	CHLORIDE		548	580	
S4	CHLOROBENZENE	18.2	29	39	41
S4	CHLOROETHANE	62	19	U	
S4	DATE	19850904	19881212	2E+07	19920200
S4	DI-N-BUTYLPHTHALATE	10 <	10 U	2 J	
S4	METHYLENE CHLORIDE	12 B	2 J	U	4 J
S4	NITRATE		4.4	0.1 <	
S4	PH		9.59	6.69	
S4	PHOSPHORUS		0.27	0.15 <	
S4	SPECIFIC CONDUCTANCE		2060	2460	
S4	SULFATE		4.7	10 <	
S4	TOTAL DISSOLVED SOLIDS		1602.2	1580	
S4	TOTAL KJELDAHL NITROGEN		0.28 <	2.53	
S4	TOTAL SUSPENDED SOLIDS		153	62.1	
S4	TOTAL VOLATILE ORGANICS	94.5	61	104	45

Table 4.23
11SEP02

		Aug-85	Dec-88	Jun-90	Feb-92
S5	BENZENE	4.4 U*	5 U	3 J	43
S5	BIS(2-ETHYLHEXYL)PHTHALATE	10 <	5 J	2 J	
S5	CHEMICAL OXYGEN DEMAND		15.7	10 <	
S5	CHLORIDE		4.4	3.5	
S5	CHLOROFORM	57.5	120	120	67
S5	DATE	19850828	19881216	2E+07	19920200
S5	DICHLORODIFLUOROMETHANE	25.8			
S5	METHYLENE CHLORIDE	11.6 B	1 JB	5	
S5	NITRATE		2.4	0.47	
S5	PH		7.93	6.7	
S5	PHOSPHORUS		0.55	0.15 <	
S5	SPECIFIC CONDUCTANCE		80.8	0.6	
S5	SULFATE		2.6	10 <	
S5	TOTAL COLIFORM		2 <	260	
S5	TOTAL DISSOLVED SOLIDS		NA	65.6	
S5	TOTAL KJELDAHL NITROGEN		0.14 <	0.16	
S5	TOTAL SUSPENDED SOLIDS		16	1 <	
S5	TOTAL VOLATILE ORGANICS	62.17	121	128	110

Table 4.24
11SEP02

PZ13 through PZ16

		Feb-96	May-97
PZ13	1,1-DICHLOROETHANE		0.77
PZ13	1,2-DICHLOROBENZENE		5.3
PZ13	1,3-DICHLOROBENZENE		0.54
PZ13	1,4-DICHLOROBENZENE		18.75
PZ13	2-CHLOROTOLUENE		0.39 J
PZ13	BENZENE	3.98	4.15
PZ13	CHLOROBENZENE	55.51	45.87
PZ13	CHLOROETHANE		3.14
PZ13	ISOPROPYLBENZENE		0.96
PZ13	METHYLENE CHLORIDE	0.5 JB	
PZ13	METHYLTERTBUTYLETHER		0.89
PZ13	TERT-BUTYLBENZENE		0.26 J
PZ13	TOLUENE	0.38 J	0.45
PZ13	TOTAL XYLENES		0.26 J
		Feb-96	May-97
PZ14	1,1-DICHLOROETHANE		1.25
PZ14	1,2-DICHLOROBENZENE		3.92
PZ14	1,3-DICHLOROBENZENE		0.48
PZ14	1,4-DICHLOROBENZENE		15.17
PZ14	BENZENE	2.93	3.09
PZ14	CHLOROBENZENE	72.15	39.93
PZ14	CHLOROETHANE		2.27
PZ14	ISOPROPYLBENZENE		0.79
PZ14	METHYLENE CHLORIDE	0.74 B	
PZ14	METHYLTERTBUTYLETHER		2.34
PZ14	NAPHTHALENE	1.02	
PZ14	SEC-BUTYLBENZENE		0.46
PZ14	TERT-BUTYLBENZENE		0.21 J
PZ14	TOLUENE	0.47 J	0.68
PZ14	TOTAL XYLENES	1.34	0.35 J
		Feb-96	May-97
PZ14A	1,1-DICHLOROETHANE		0.51
PZ14A	1,2-DICHLOROBENZENE		2.52
PZ14A	1,3-DICHLOROBENZENE		0.4
PZ14A	1,4-DICHLOROBENZENE		13.13
PZ14A	BENZENE	0.61 J	1.68
PZ14A	CHLOROBENZENE	8.65	22.85
PZ14A	CHLOROETHANE		1.38
PZ14A	CHLOROFORM	0.02 J	
PZ14A	CIS-1,2-DICHLOROETHENE	0.29 J	0.51
PZ14A	ISOPROPYLBENZENE		0.39 J
PZ14A	METHYLENE CHLORIDE	0.18 JB	
PZ14A	N-BUTYLBENZENE		0.21 J
PZ14A	SEC-BUTYLBENZENE		0.39 J
PZ14A	TETRACHLOROETHENE	0.02 J	
PZ14A	TOLUENE		0.27 J
PZ14A	TRICHLOROETHENE	0.02 J	
		Feb-96	May-97
PZ15	1,1-DICHLOROETHANE		1.53
PZ15	1,2-DICHLOROBENZENE		1.3
PZ15	1,4-DICHLOROBENZENE		9.64
PZ15	2-CHLOROTOLUENE		0.58
PZ15	BENZENE	9.26	4.9
PZ15	CHLOROBENZENE	17.34	13.61
PZ15	CHLOROETHANE		5.16
PZ15	CHLOROFORM	0.02 J	
PZ15	CIS-1,2-DICHLOROETHENE	0.56 J	0.57
PZ15	ISOPROPYLBENZENE		3.14
PZ15	METHYLENE CHLORIDE	1.1 B	0.56
PZ15	NAPHTHALENE	1.64	
PZ15	N-BUTYLBENZENE		0.3 J
PZ15	N-PROPYLBENZENE		1.22
PZ15	SEC-BUTYLBENZENE		0.41
PZ15	TOLUENE	0.73	0.29 J
PZ15	TOTAL XYLENES	2.41	0.86 J
PZ15	TRICHLOROETHENE	0.02 J	
		Feb-96	May-97
PZ16	1,4-DICHLOROBENZENE		0.41
PZ16	BENZENE	14.82	ND
PZ16	CHLOROBENZENE	13.55	1.03
PZ16	CHLOROETHANE		0.96
PZ16	CHLOROFORM	0.01 J	ND
PZ16	CIS-1,2-DICHLOROETHENE	1.62	ND
PZ16	ETHYLBENZENE	2.85	ND
PZ16	METHYLENE CHLORIDE	1.37 B	ND
PZ16	NAPHTHALENE	3.32	
PZ16	TETRACHLOROETHENE	0.19	ND
PZ16	TOLUENE	0.95	ND
PZ16	TOTAL XYLENES	4.2	ND
PZ16	TRICHLOROETHENE	0.07	ND

Table 4-27
2/7/02

PZ17 through PZ20

		Feb-96	May-97
PZ17	1,1-DICHLOROETHANE		0.41
PZ17	1,2-DICHLOROBENZENE		3.88
PZ17	1,3-DICHLOROBENZENE		0.39 J
PZ17	1,4-DICHLOROBENZENE		32
PZ17	BENZENE	8.11	5.15
PZ17	CHLOROBENZENE	65.18	48 D
PZ17	DICHLORODIFLUOROMETHANE		2.12
PZ17	ISOPROPYLBENZENE		3.41
PZ17	METHYLENE CHLORIDE	0.58 JB	ND
PZ17	METHYLTERTBUTYLETHER		0.67
PZ17	NAPHTHALENE	1.73	ND
PZ17	N-BUTYLBENZENE		0.37 J
PZ17	N-PROPYLBENZENE		0.29 J
PZ17	SEC-BUTYLBENZENE		0.53
PZ17	TERT-BUTYLBENZENE		0.28 J
PZ17	TOLUENE	0.7	0.46
PZ17	TOTAL XYLENES	1.4	ND
PZ18	1,1-DICHLORETHANE		4.13
PZ18	1,2-DICHLOROBENZENE		3.44
PZ18	1,2-DICHLOROETHANE		1.99
PZ18	1,3-DICHLOROBENZENE		0.33 J
PZ18	1,4-DICHLOROBENZENE		31.1
PZ18	BENZENE	2.76	3.14
PZ18	CHLOROBENZENE	38.58	38.57
PZ18	CHLOROETHANE		3.71
PZ18	CHLOROFORM	0.02 J	ND
PZ18	ISOPROPYLBENZENE		0.45
PZ18	METHYLENE CHLORIDE	0.85 B	ND
PZ18	METHYLTERTBUTYLETHER		0.6
PZ18	TERT-BUTYLBENZENE		0.24 J
PZ18	TOLUENE	0.65 J	0.44
PZ18	TOTAL XYLENES	0.26 J	0.7 J
PZ18	TRANS-1,2-DICHLOROETHENE	0.38	ND
PZ19	1,1-DICHLOROETHANE		5.69
PZ19	1,2-DICHLOROBENZENE		2.7
PZ19	1,2-DICHLOROETHANE		4.91
PZ19	1,4-DICHLOROBENZENE		5.54
PZ19	2-CHLOROTOLUENE		0.23
PZ19	BENZENE	20.48	45 D
PZ19	CHLOROBENZENE	21.47	12.79
PZ19	CHLOROFORM	11.83	21.53
PZ19	CIS-1,2-DICHLOROETHENE	1.34	2.42
PZ19	ISOPROPYLBENZENE		9.88
PZ19	METHYLENE CHLORIDE	5.09 B	11.08
PZ19	SEC-BUTYLBENZENE		0.3 J
PZ19	TETRACHLOROETHENE	0.35	0.87
PZ19	TRANS-1,2-DICHLOROETHENE	0.47	0.95
PZ19	TRICHLOROETHENE	1.34	2.75
PZ20	1,1-DICHLOROETHANE		6.97
PZ20	1,2-DICHLOROBENZENE		4.58
PZ20	1,2-DICHLOROETHANE		4.73
PZ20	1,4-DICHLOROBENZENE		8.63
PZ20	BENZENE	12.22	41 D
PZ20	CHLOROBENZENE	10.87	16.76
PZ20	CHLOROFORM	6.92	23.01
PZ20	CIS-1,2-DICHLOROETHENE	ND	1.44
PZ20	ISOPROPYLBENZENE		11.74
PZ20	METHYLENE CHLORIDE	2.84 B	11.81
PZ20	NAPHTHALENE	ND	0.88
PZ20	N-BUTYLBENZENE		0.28 J
PZ20	N-PROPYLBENZENE		0.24 J
PZ20	SEC-BUTYLBENZENE		0.43
PZ20	TETRACHLOROETHENE	0.19	0.71
PZ20	TOLUENE	ND	0.33 J
PZ20	TRANS-1,2-DICHLOROETHENE	0.22 J	0.88
PZ20	TRICHLOROETHENE	0.29	1.51

Table 4-28
2/7/02

PZ21 through PZ27

		Mar-94	Feb-96	May-97
PZ21	1,1-DICHLOROETHANE			0.39 J
PZ21	1,2-DICHLOROBENZENE			3.7
PZ21	1,2-DICHLOROETHANE			0.81
PZ21	1,4-DICHLOROBENZENE			19.44
PZ21	BENZENE		3.87	4.55
PZ21	CHLOROBENZENE		16.78	17.24
PZ21	CHLOROFORM		0.02 J	ND
PZ21	ISOPROPYLBENZENE			1.16
PZ21	METHYLENE CHLORIDE		0.54 JB	ND
PZ21	NAPHTHALENE		1.11	0.67
PZ21	SEC-BUTYLBENZENE			0.41
PZ21	TERT-BUTYLBENZENE			0.63
PZ21	TETRACHLOROETHENE		0.01 J	ND
PZ21	TOLUENE		ND	0.51
PZ21	TOTAL XYLENES		0.63 J	ND
PZ21	TRANS-1,2-DICHLOROETHENE		0.28 J	ND
PZ21	TRICHLOROETHENE		0.04	ND
PZ22	1,1-DICHLOROETHANE			0.29 J
PZ22	1,2-DICHLOROBENZENE			1.16
PZ22	1,4-DICHLOROBENZENE			12.12
PZ22	BENZENE		2.5	0.93
PZ22	CHLOROBENZENE		15.02	7.81
PZ22	CHLOROFORM		0.02 J	ND
PZ22	ISOPROPYLBENZENE			0.28 J
PZ22	METHYLENE CHLORIDE		0.73 B	ND
PZ22	SEC-BUTYLBENZENE			0.39 J
PZ22	TERT-BUTYLBENZENE			0.68
PZ22	TETRACHLOROETHENE		0.01 J	ND
PZ22	TRANS-1,2-DICHLOROETHENE		0.48	ND
PZ22	TRICHLOROETHENE		0.02 J	ND
		Mar-94	Feb-96	May-97
PZ23	METHYLENE CHLORIDE		0.75 B	0.4 U
PZ23	TETRACHLOROETHENE		0.01 J	0.4 U
PZ23	TOLUENE		0.48 J	0.4 U
		Mar-94	Feb-96	May-97
PZ24	BENZENE	3 J	0.67 U	0.4 U
PZ24	CHLOROBENZENE	12	1.33 U	0.4 U
PZ24	CHLOROFORM		0.13	0.4 U
PZ24	METHYLENE CHLORIDE		0.24 JB	0.4 U
PZ24	TETRACHLOROETHENE		0.01 J	0.4 U
PZ25	1,2-DICHLOROBENZENE			0.71
PZ25	1,4-DICHLOROBENZENE			3.91
PZ25	BENZENE		3.3	0.95
PZ25	CHLOROBENZENE		9.23	2.7
PZ25	CHLOROFORM		0.35	ND
PZ25	ISOPROPYLBENZENE			0.29 J
PZ25	METHYLENE CHLORIDE		0.79 B	ND
PZ25	TETRACHLOROETHENE		0.06	ND
PZ25	TRANS-1,2-DICHLOROETHENE		0.36	ND
PZ25	TRICHLOROETHENE		0.04	ND
PZ26	METHYLENE CHLORIDE		0.48 JB	ND
PZ27	BENZENE		268	NA
PZ27	CHLOROBENZENE		11.05	NA
PZ27	CIS-1,2-DICHLOROETHENE		0.76	NA
PZ27	ETHYLBENZENE		86.71	NA
PZ27	METHYLENE CHLORIDE		0.99 B	NA
PZ27	NAPHTHALENE		10.15	NA
PZ27	TETRACHLOROETHENE		0.19	NA
PZ27	TOLUENE		17.38	NA
PZ27	TOTAL XYLENES		222.67	NA
PZ27	TRANS-1,2-DICHLOROETHENE		0.75	NA
PZ27	TRICHLOROETHENE		0.41	NA

Table 4-29
2/8/02

S7, PZ23, PZ24

		Mar-93	Mar-94	Feb-96	May-97
S7	BENZENE	1 J	Not sampled	Not sampled	Not sampled
S7	CHLOROBENZENE	8 J			

		Mar-93	Mar-94	Feb-96	May-97
PZ23	METHYLENE CHLORIDE	Not sampled	Not sampled	0.75 B	0.4 U
PZ23	TETRACHLOROETHENE			0.01 J	0.4 U
PZ23	TOLUENE			0.48 J	0.4 U

		Mar-93	Mar-94	Feb-96	May-97
PZ24	BENZENE	Not sampled	3 J	0.67 U	0.4 U
PZ24	CHLOROBENZENE		12	1.33 U	0.4 U
PZ24	CHLOROFORM			0.13	0.4 U
PZ24	METHYLENE CHLORIDE			0.24 JB	0.4 U
PZ24	TETRACHLOROETHENE			0.01 J	0.4 U

Table 4-30
2/8/02

SB2

		Feb-92
SB2	2-BUTANONE	600 ^
SB2	4-METHYL-2-PENTANONE	150
SB2	4-METHYLPHENOL	520
SB2	ACETONE	590
SB2	BENZENE	460
SB2	DATE	19920200
SB2	METHYLENE CHLORIDE	21
SB2	PHENOL	110
SB2	TOLUENE	200
SB2	TOTAL VOLATILE ORGANICS	2651

Table 4-31
2/7/02

Station	Chemical	Y98_09	Y98_
RW-A	1,2-DICHLOROBENZENE	1.4	
RW-A	1,2-DICHLOROETHANE	1.7	
RW-A	1,4-DICHLOROBENZENE	6.1	
RW-A	ACRYLONITRILE	4	
RW-A	BENZENE	2	
RW-A	CHLOROBENZENE	9	
RW-A	CHLOROETHANE	1	
RW-A	CIS-1,2-DICHLOROETHENE	18	
RW-A	TRANS-1,2-DICHLOROETHENE	1.2	
RW-A	TRICHLORETHENE	6.1	
RW-A	VINYL CHLORIDE	2.9	
RW-B	1,1-DICHLOROETHENE	1.6	
RW-B	1,2-DICHLOROBENZENE	4.1	
RW-B	1,2-DICHLOROETHANE	5.1	
RW-B	1,4-DICHLOROBENZENE	22	
RW-B	ACRYLONITRILE	4	
RW-B	BENZENE	0.76	
RW-B	CHLOROBENZENE	21	
RW-B	CHLOROETHANE	4.4	
RW-B	CIS-1,2-DICHLOROETHENE	0.93	
RW-B	DICHLORODIFLUOROMETHAN	1.1	
RW-B	METHYLENE CHLORIDE	2.1	
RW-C	1,1-DICHLOROETHANE	1.4	
RW-C	1,2-DICHLOROBENZENE	2.9	
RW-C	1,2-DICHLOROETHANE	1.4	
RW-C	1,4-DICHLOROBENZENE	16	
RW-C	2-CHLOROTOLUENE	0.82	
RW-C	BENZENE	2.8	
RW-C	CHLOROBENZENE	34	
RW-C	CHLOROETHANE	2.4	
RW-C	CIS-1,2-DICHLOROETHENE	0.79	
RW-C	DICHLORODIFLUOROMETHAN	16	
RW-C	ISOPROPYLBENZENE	1.1	
RW-C	METHYLENE CHLORIDE	0.55	
RW-D	NO SAMPLE		
RW-E	1,2-DICHLOROBENZENE	0.69	
RW-E	1,4-DICHLOROBENZENE	4	
RW-E	ACRYLONITRILE	4	
RW-E	BENZENE	0.71	
RW-E	CHLOROBENZENE	7.8	
RW-F	NO SAMPLE		
RW-G	1,1-DICHLOROETHANE	0.53	
RW-G	1,2-DICHLOROBENZENE	2.7	
RW-G	1,4-DICHLOROBENZENE	19	
RW-G	BENZENE	1.7	
RW-G	CHLOROBENZENE	11	
RW-G	CHLOROETHANE	4	

Table 4-32

Station	Chemical	Y98_09	Y98
RW-G	DICHLORODIFLUOROMETHAN	1.3	
RW-G	ISOPROPYLBENZENE	4.1	
RW-H	1,1-DICHLOROETHANE	0.75	
RW-H	1,2-DICHLOROBENZENE	4.9	
RW-H	1,3-DICHLOROBENZENE	1.4	
RW-H	1,4-DICHLOROBENZENE	21	
RW-H	BENZENE	3.3	
RW-H	CHLOROBENZENE	61	
RW-H	CIS-1,2-DICHLOROETHENE	0.76	
RW-H	ISOPROPYLBENZENE	8.2	
RW-H	TOLUENE	0.58	
RW-I	1,1-DICHLOROETHANE	0.98	
RW-I	1,2-DICHLOROBENZENE	4.2	
RW-I	1,2-DICHLOROETHANE	1.4	
RW-I	1,3-DICHLOROBENZENE	1.4	
RW-I	1,4-DICHLOROBENZENE	15	
RW-I	BENZENE	5.3	
RW-I	CHLOROBENZENE	46	
RW-I	CIS-1,2-DICHLOROETHENE	1.7	
RW-I	DICHLORODIFLUOROMETHAN	17	
RW-I	ETHYLBENZENE	1.5	
RW-I	ISOPROPYLBENZENE	2.9	
RW-I	TOTAL XYLENES	1.7	
RW-J	1,1-DICHLOROETHANE	0.76	
RW-J	1,2-DICHLOROBENZENE	2.9	
RW-J	1,2-DICHLOROETHANE	2.2	
RW-J	1,3-DICHLOROBENZENE	0.81	
RW-J	1,4-DICHLOROBENZENE	13	
RW-J	CHLOROBENZENE	4.5	
RW-J	CHLOROFORM	0.97	
RW-J	CIS-1,2-DICHLOROETHENE	2.5	
RW-J	DICHLORODIFLUOROMETHAN	31	
RW-J	TETRACHLOROETHENE	0.61	
RW-J	TRICHLOROETHENE	0.66	
RW-J	VINYL CHLORIDE	1	
RW-K	1,2-DICHLOROBENZENE	1.1	
RW-K	1,2-DICHLOROETHANE	2.5	
RW-K	1,4-DICHLOROBENZENE	7.1	
RW-K	BENZENE	6.5	
RW-K	CHLOROBENZENE	7	
RW-K	CHLOROFORM	0.87	
RW-K	CIS-1,2-DICHLOROETHENE	2.3	
RW-K	DICHLORODIFLUOROMETHAN	61	
RW-K	ISOPROPYLBENZENE	0.57	
RW-K	METHYLENE CHLORIDE	0.72	
RW-K	VINYL CHLORIDE	1.1	
RW-L	1,2-DICHLOROBENZENE	0.75	

Station	Chemical	Y98_09	Y98_
RW-L	1,4-DICHLOROBENZENE	4.9	
RW-L	BENZENE	2.4	
RW-L	CHLOROBENZENE	4.4	
RW-L	CIS-1,2-DICHLOROETHENE	1.3	
RW-L	DICHLORODIFLUOROMETHAN	82	
RW-L	TETRACHLOROETHENE	0.78	
RW-L	TRICHLOROFLUOROMETHANE	13	
RW-L	VINYL CHLORIDE	1.6	
RW-M	NO SAMPLE		
RW-N	1,2-DICHLROETHANE	3.4	
RW-N	DICHLORODIFLUOROMETHAN	69	
RW-O	1,1-DICHLOROETHANE	0.5	U
RW-O	1,1-DICHLOROETHENE	0.5	U
RW-O	1,2-DICHLOROBENZENE	0.5	U
RW-O	1,2-DICHLOROETHANE	0.5	U
RW-O	1,3-DICHLOROBENZENE	0.5	U
RW-O	1,4-DICHLOROBENZENE	0.5	U
RW-O	2,2-DICHLOROPROPANE	0.5	U
RW-O	ACRYLONITRILE	4	U
RW-O	BENZENE	0.5	U
RW-O	CARBON TETRACHLORIDE	0.5	U
RW-O	CHLOROBENZENE	0.5	U
RW-O	CHLOROETHANE	1	U
RW-O	CHLOROFORM	0.5	U
RW-O	CIS-1,2-DICHLOROETHENE	1.4	
RW-O	DICHLORODIFLUOROMETHAN	1	U
RW-O	ETHYLBENZENE	0.5	U
RW-O	ISOPROPYLBENZENE	0.5	U
RW-O	METHYLENE CHLORIDE	0.5	U
RW-O	SEC-BUTYLBENZENE	0.5	U
RW-O	TERT-BUTYLBENZENE	0.5	U
RW-O	TETRACHLOROETHENE	0.5	U
RW-O	TOLUENE	0.5	U
RW-O	TOTAL XYLENES	0.5	U
RW-O	TRICHLOROETHENE	0.5	U
RW-O	TRICHLOROFLUOROMETHANE	1	U
RW-O	VINYL CHLORIDE	1	U
RW-P	NO SAMPLE		
RW-Q	1,2-DICHLOROBENZENE	3.5	
RW-Q	1,4-DICHLOROBENZENE	20	
RW-Q	2,2-DICHLOROPROPANE	2.5	
RW-Q	BENZENE	0.5	U
RW-Q	CARBON TETRACHLORIDE	4.3	
RW-Q	CHLOROBENZENE	16	
RW-Q	CHLOROETHANE	1.4	
RW-Q	ISOPROPYLBENZENE	2.2	
RW-Q	METHYLENE CHLORIDE	0.71	

Station	Chemical	Y98_09	Y98_
RW-Q	SEC-BUTYLBENZENE	0.53	
RW-Q	TERT-BUTYLBENZENE	0.53	
RW-Q	TRANS-1,2-DICHLOROETHENE	0.51	
RW-R	1,4-DICHLOROBENZENE	0.77	
RW-R	BENZENE	0.5	U
RW-R	CHLOROBENZENE	1.8	
RW-S	BENZENE	0.5	U
RW-S	CHLOROFORM	4.8	
RW-S	CIS-1,2-DICHLOROETHENE	0.82	
RW-S	METHYLENE CHLORIDE	0.6	
RW-S	TRICHLOROETHENE	1.8	

Table 4-33 Residential Well Water Quality, Potential Carcinogen VOC Indicator Chemicals,
Western Half Schoolhouse Lane

RI #	24	25	26	27	28	na	*Best*
POET letter/#	U/20		AA/26	X/23	Y/24	FF/31	*Estimate*
Lot #	17/24	17/23	17/44.01	17/22.01	17/45	17/44	
		(spring)					
CHLOROFORM							
NJGWQS=6 ug/l							
RI	*4.04*	*59.4*	*69.7*	*12.3*	*ND*	*ns*	***29.1***
Sep-Oct 92	ns	ns	25	3.6	ND	5.9	
Feb-Mar 93	1.1	ns	ND	4.4	ND	ND	
Sep-Oct 93	1.0	ns	ND	5.3	ND	12.	
Feb-Mar 94	0.72	ns	ND	2.9	ND	ND	
Aug-Sep 94	1.1	ns	ND	4.4	ND	2.9	
Mar-Apr 95	0.8	ns	30	2.2	1.5	2.2	
Sep 95	1.4	ns	22	1.5	9.0	13	
Mar 96	0.8	ns	1.1	3.9	1.0	0.7	
Sep 96	ND	ns	15	2.1	0.7	0.6	
Jun 97	0.6	ns	10	4.1	ND	ND	
Dec 98	0.7	ns	14	1.0	0.5	9.0	**4.51**
BENZENE							
NJGWQS=1 ug/l							
RI	*ND*	*ND*	*ND*	*ND*	*ND*	*ns*	***0***
Sep-Oct 92	ns	ns	5.7	ND	ND	ND	
Feb-Mar 93	ND	ns	ND	ND	ND	ND	
Sep-Oct 93	ND	ns	ND	ND	ND	ND	
Feb-Mar 94	ND	ns	ND	ND	ND	ND	
Aug-Sep 94	ND	ns	ND	ND	ND	ND	
Mar-Apr 95	ND	ns	4.5	ND	ND	ND	
Sep 95	2.9	ns	16.	ND	ND	ND	
Mar 96	ND	ns	ND	ND	ND	ND	
Sep 96	ND	ns	9.2	ND	ND	ND	
Jun 97	ND	ns	2.1	ND	ND	ND	
Dec 98	ND	ns	4.9	ND	ND	ND	**1.40**
PCE							
NJGWQS=1 ug/l							
RI	*ND*	*<4.1*	*6.29*	*ND*	*ND*	*ns*	***1.67***
Sep-Oct 92	ns	ns	3.5	ND	ND	ND	
Feb-Mar 93	ND	ns	ND	ND	ND	ND	
Sep-Oct 93	ND	ns	ND	0.31	0.61	0.97	
Feb-Mar 94	ND	ns	ND	ND	0.22	ND	
Aug-Sep 94	ND	ns	ND	ND	ND	ND	
Mar-Apr 95	ND	ns	3.1	ND	ND	ND	
Sep 95	ND	ns	2.8	ND	ND	0.97	
Mar 96	ND	ns	ND	ND	ND	ND	
Sep 96	ND	ns	1.9	ND	ND	ND	
Jun 97	ND	ns	1.5	ND	ND	ND	
Dec 98	ND	ns	4.7	ND	ND	0.8	**0.507**

Table 4-33 Residential Well Water Quality, Potential Carcinogen VOC Indicator Chemicals, *Western Half Schoolhouse Lane* (cont.)

RI #	24	25	26	27	28	na	*Best*
POET letter/#	U/20		AA/26	X/23	Y/24	FF/31	*Estimate*
Lot #	17/24	17/23	17/44.01	17/22.01	17/45	17/44	
		(spring)					
TCE							
NJGWQS=1 ug/l							
RI	*ND*	*ND*	*ND*	*4.66*	*ND*	*ns*	***0.93***
Sep-Oct 92	ns	ns	1.0	1.4	ND	ND	
Feb-Mar 93	ND	ns	ND	1.5	ND	ND	
Sep-Oct 93	ND	ns	ND	2.0	ND	ND	
Feb-Mar 94	ND	ns	ND	ND	ND	ND	
Aug-Sep 94	ND	ns	ND	1.4	ND	ND	
Mar-Apr 95	ND	ns	0.7	0.8	ND	ND	
Sep 95	ND	ns	0.9	ND	ND	ND	
Mar 96	ND	ns	ND	1.3	ND	ND	
Sep 96	ND	ns	ND	0.7	ND	ND	
Jun 97	ND	ns	ND	1.6	ND	ND	
Dec 98	ND	ns	1.3	ND	ND	ND	**0.232**
12DCA							
NJGWQS=2 ug/l							
RI	*ND*	*ND*	*ND*	*ND*	*18.5*	*ns*	***3.7***
Sep-Oct 92	ns	ns	ND	ND	ND	ND	
Feb-Mar 93	ND	ns	ND	ND	ND	ND	
Sep-Oct 93	ND	ns	ND	ND	ND	ND	
Feb-Mar 94	ND	ns	ND	ND	ND	ND	
Aug-Sep 94	ND	ns	ND	ND	ND	ND	
Mar-Apr 95	ND	ns	ND	ND	ND	ND	
Sep 95	ND	ns	ND	ND	ND	ND	
Mar 96	ND	ns	ND	ND	ND	ND	
Sep 96	ND	ns	ND	ND	ND	ND	
Jun 97	ND	ns	ND	ND	ND	ND	
Dec 98	ND	ns	ND	ND	ND	ND	**0**
METHYLENE CHLORIDE							
NJGWQS=3 ug/l							
RI	*ND*	*ND*	*ND*	*ND*	*ND*	*ns*	***0***
Sep-Oct 92	ns	ns	5.2	ND	ND	0.89	
Feb-Mar 93	ND	ns	ND	ND	ND	ND	
Sep-Oct 93	ND	ns	ND	ND	ND	1.5	
Feb-Mar 94	ND	ns	ND	ND	ND	ND	
Aug-Sep 94	ND	ns	ND	ND	ND	ND	
Mar-Apr 95	ND	ns	2.5	ND	ND	ND	
Sep 95	ND	ns	7.0	ND	ND	ND	
Mar 96	ND	ns	ND	0.6	ND	ND	
Sep 96	ND	ns	3.5	ND	ND	ND	
Jun 97	ND	ns	ND	ND	ND	ND	**0.544**
Dec 98	1.3B	ns	2.9B	0.6B	0.7B	1.9B	←ignored

Notes:
All concentrations are in ug/l
ns = not sampled
ND = not detected
Best estimate from RI (*italicized*) was calculated by averaging columns 2-6.
More recent best estimate (**bold**) was calculated by averaging last five valid samples for columns 2, 4-7.

Table 4.34 Risk from VOC Potential Carcinogens due to Ingestion of Ground Water,
Western Half Schoolhouse Lane

VOC Indicator Chemicals	Human Intake Factor	Long-term Concentration	Ground-water Chronic Daily Intake (CDI)	Carcinogenicity Potency Factor	Ingestion Risk
	(l/[kg-day])	(mg/l)	(mg/[kg-day])	$(mg/[kg\text{-}day])^{-1}$	
Chloroform	0.029	0.00451	1.307×10^{-4}	7.0×10^{-2}	9.16×10^{-6}
Benzene	0.029	0.00140	4.06×10^{-5}	4.45×10^{-2}	1.81×10^{-6}
PCE	0.029	0.000507	1.470×10^{-5}	5.1×10^{-2}	7.49×10^{-7}
12DCA	0.029	0	0	6.9×10^{-2}	0
TCE	0.029	0.000232	6.728×10^{-6}	1.1×10^{-2}	7.4×10^{-8}
Methylene chloride	0.029	0.000544	1.578×10^{-5}	(6.3×10^{-4})	(9.94×10^{-9})
Total Risk from GW VOC ICs					**1.18×10^{-5}**

Notes:

(1) This table is for comparative purposes only. For that reason it uses the now outmoded methodology applied in LMS (1986). The comparable ingestion risk from LMS (1986 Table 8-18) is **8.06×10^{-5}**.

(2) These calculations follow those of LMS (1986 Tables 8-13, 8-18, Appendix DD worksheet 5-2).

(3) This table was <u>not</u> prepared by, or reviewed by, a risk assessor, and is offered for litigation planning purposes only.

(4) As in LMS (Table 8-18), the carcinogenicity potency factor in parentheses was developed for the inhalation route and is used because no ingestion route factor was then available.

(5) Long-term concentrations are based on the most recent domestic well data available (1995-1998) as shown in Table 4-33.

PZ08

		Mar-98
PZ08	1,2-DICHLOROBENZENE	1 J
PZ08	1,4-DICHLOROBENZENE	7 J
PZ08	2-METHYLNAPHTHALENE	0.5 J
PZ08	ACETONE	14
PZ08	BENZENE	6 J
PZ08	BIS(2-ETHYLHEXYL)PHTHALATE	5 J
PZ08	CHLOROBENZENE	25
PZ08	NAPHTHALENE	2 J
PZ08	N-NITROSODIPHENYLAMINE	2 J
PZ08	TOLUENE	0.9 J

Table 4-25
2/4/02

Table 4-35. Treatment System Influent Water Quality

Reference	ARAR: MCL (3) / (4)	MCLG (4)	(1) 10/29/96	(1) 1/10/97	(7) 6/12/97	(7) 7/17/97	(5) 11/18/97	(5) 1/8/98	(6) 10/6/99	(6) 1/14/00	(6) 4/7/00	(6) 8/30/00	(6) 12/28/00	(2) 3/14/01	(2) 6/6/01	(2) 6/15/01
VOLATILE ORGANICS (ppb)																
ACETONE			NA	N(20)	N(1.8)	NA	NA	NA	NA	N(5)	NA	N(5)	N(5)	N(0.78)	NA	N(0.78)
BENZENE	5 / 5	0	NA	1.8 J	0.9	NA	8.1	9	N(5)	1.9 7	N(5)	2.7	1.9	1.9	N(5)	1.3
2-BUTANONE			NA	N(20)	N(0.4)	NA	NA	NA	NA	N(5)	NA	N(5)	N(5)	N(0.11)	NA	N(0.11)
CARBON DISULFIDE			NA	N(5)	N(0.4)	NA	NA	NA	NA	N(5)	NA	N(5)	1.1	N(0.07)	NA	8.7
CHLOROBENZENE	-- / 100	100	NA	12	5.7	NA	22	27	16	17 / 13	N(5)	15	13	14	12	9
CHLOROETHANE			NA	N(5)	N(2)	NA	N(10)	N(10)	N(10)	0.75	N(10)	N(5)	N(10)	N(0.07)	N(10)	N(0.07)
CHLOROFORM	80 TTHMs		NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	1.8	N(5)	2.8	2.4	4.7	N(5)	2.8
1,1-DICHLOROETHANE			NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	0.6	N(5)	N(5)	N(5)	N(0.18)	N(5)	N(0.18)
1,1-DICHLOROETHENE	-- / 7	7	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(0.07)	N(5)	N(0.07)
1,2-DICHLOROETHANE	5 / 5	0	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	2.1	N(5)	2	2.2	1.9	N(5)	N(0.27)
1,2-DICHLOROPROPANE	-- / 5	0	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(0.04)	N(5)	N(0.04)
2-HEXANONE			NA	N(20)	N(0.9)	NA	NA	NA	NA	NA	NA	N(5)	NA	N(0.49)	NA	N(0.49)
4-METHYL-2-PENTANONE			NA	N(20)	N(0.7)	NA	NA	NA	NA	NA	NA	N(5)	NA	N(0.29)	NA	N(0.29)
TOLUENE	-- / 1000		NA	N(5)	1.5	NA	N(5)	N(5)	N(5)	N(5)	N(5)	0.62	N(5)	N(0.13)	N(5)	N(0.13)
ETHYLBENZENE	-- / 700	700	NA	N(5)	N(1)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(0.02)	N(5)	N(0.02)
METHYLENE CHLORIDE	-- / 5	5	NA	N(5)	4.6	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(0.20)	N(5)	N(0.20)
TETRACHLOROETHENE	-- / 5	0	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	0.55	N(0.27)	N(5)	N(0.27)
TRANS-1,2-DICHLOROETHENE	-- / 100	100	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	N(0.22)	N(5)	N(0.22)
CIS-1,2-DICHLOROETHENE	-- / 70	70	NA	N(5)	N(0.4)	NA	NA	NA	NA	0.69	NA	1.3	1.3	1.7	NA	1.1
TRICHLOROETHENE	5 / 5	0	NA	N(5)	N(0.4)	NA	N(5)	N(5)	N(5)	N(5)	N(5)	N(5)	0.65	N(0.24)	N(5)	N(0.24)
VINYL CHLORIDE	2 / 2	0	NA	N(5)	N(2)	NA	N(10)	N(10)	N(10)	0.52	N(10)	N(5)	N(10)	N(0.11)	N(10)	N(0.11)
TOTAL XYLENES	-- / 10000	10000	NA	N(5)	N(2.6)	NA	NA	NA	NA	N(5)	NA	N(10)	N(10)	N(0.42)	NA	N(0.42)
DICHLORODIFLUOROMETHANE			NA	NA	NA	NA	NA	NA	NA	53	NA	63	58	96	NA	N(0.44)
TRICHLOROFLUOROMETHANE			NA	NA	ND(0.4)	NA	NA	NA	NA	1.6	NA	N(5)	1.7	4.3	NA	3.1
TERT-BUTYLALCOHOL			NA	NA	NA	NA	NA	NA	NA	14	NA	101	64	85	NA	N(8.6)
METHYTERTBUTYLETHER										N(5)	NA	N(5)	N(50)			
BASE NEUTRALS (ppb)																
ACENAPHTHENE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(3.1)	N(10)	N(3.1)
1,2-DICHLOROBENZENE	-- / 75	75	NA	N(10)	NA	NA	N(5)	N(5)	N(10)	1.6	N(10)	1.5	1.9	1.6 / 1.2 J	N(10)	0.7 J
1,3-DICHLOROBENZENE					NA	NA	N(5)	N(5)	N(10)	N(10)	N(10)	N(5)	N(5)			
1,4-DICHLOROBENZENE	-- / 600	600	NA	4 J	NA	NA	12	14	N(10)	N(10)	N(10)	8.2	8	7.4 / 4.6	N(10)	N(2.6)
BIS(2-CHLOROETHYL)ETHER			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(1.1)	N(10)	N(1.0)
BIS(2-CHLOROISOPROPYL)ETHER			NA	N(10)	NA	NA	(N10)	(N10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(2.0)	N(10)	N(2.0)
BIS(2-ETHYLHEXYL)PHTHALATE	-- / 6	0	NA	2 J	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	23	39	N(10)	N(3.7)
2,4-DINITROTOLUENE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(3.6)	N(10)	N(3.6)
PYRENE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(3.6)	N(10)	N(3.5)
NAPHTHALENE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(3.0)	N(10)	N(3.0)
4-CHLORO-3-METHYLPHENOL			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(3.6)	N(10)	N(3.6)
DIETHYLPHTHALATE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	0.75J	N(5.0)	N(10)	N(4.9)
DI-N-BUTYLPHTHALATE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(4.5)	N(10)	N(4.5)
ISOPHORONE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(2.1)	N(10)	N(2.1)
DI-N-OCTYLPHTHALATE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(4.1)	N(10)	N(4.0)
N-NITROSODIPHENYLAMINE			NA	N(10)	NA	NA	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(10)	N(2.6)	N(10)	N(2.6)
2-CHLOROTOLUENE			NA	NA	NA	NA	NA	NA	NA	0.68	NA	N(5)	1	0.63 J	NA	NA
GENERAL GW QUALITY																
pH																
TSS			7	332			16	1		<3	3	10	10	13	8	12
TDS																
Specific Conductance																
Chloride																
Nitrite																
Nitrate																
COD			21		91											
TKN						1.5	2.5	2.4								
Ammonia			0.7	5.65	5.3		1.2	0.54		<0.5	5	3	0.84	3.3	6.26	0.59
Sulfate																
Phosphorus																
BOD			N(2)			59	20	N(5)								
Total Coliform																
Fecal Coliform																
Total Organic Carbon			17	19.8			13	14		6.6	8.56	10.3	10.5	8.1	8.3	7.8
PESTICIDES (ppb)																
ALDRIN				0.056	N(0.020)		N(0.01)	N(0.01)	N(0.01)	N(0.01)	N(0.01)	N(0.01)	N(0.006)	N(0.004)	N(0.01)	N(0.004)
ENDOSULFAN SULFATE				0.071	N(0.040)		N(0.05)	N(0.05)	N(0.05)	N(0.05)	N(0.05)	N(0.05)	N(0.006)	N(0.007)	N(0.05)	N(0.006)

References:
(1) NJDOL (April 1997)
(2) NJDOL (October 2001)
(3) RI Table 8-7
(4) Current value at http://www.epa.gov/safewater/mcl.html#organic
(5) NJDEP Transmittal from J. Robbins to R. McKnight (March 2, 1998)
(6) NJDEP Transmittal from J. Farmer to J. Iannone (1/24/01)