

**Harding Lawson Associates**



April 9, 1991

20368,001.11

APR 15 1991

Utility Trailer Manufacturing Company  
17295 East Railroad Street  
P.O. Box 1299  
City of Industry, California 91749

Attention: Mr. John Stanton

Gentlemen:

**Quarterly Ground-Water Monitoring  
January, February, and March 1991  
Utility Trailer Manufacturing Company  
17300 East Chestnut Street  
City of Industry, California**

#### INTRODUCTION

This report represents Harding Lawson Associates' (HLA) quarterly monitoring report for the period from January 1 through March 31, 1991, for Utility Trailer Manufacturing Company, City of Industry, California (Plates 1 and 2).

#### WORK CONDUCTED THIS QUARTER

##### Ground-Water Monitoring

Site observation wells were monitored on January 31, February 27, and March 7, 1991, for depth to ground water using a Solinst electric well sounder or a chalked tape. Monitoring data collected during this quarter are listed in Table 1. February monitoring data were used to produce a ground-water contour map (Plate 3).

Ground water occurs beneath the site at an average elevation of 354 feet above mean sea level (MSL) with a northwesterly flow direction and an approximate gradient of 0.005 foot per foot.

##### Ground-Water Sampling

Ground-water samples for chemical analyses were collected from all site observation wells (MW-2 through MW-6) on February 27, 1991.

Engineering and  
Environmental Services

15621 Redhill Avenue, Suite 100, Tustin, CA 92680 714/259-7992, 213/617-7232

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**UTM 000740**

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Ground-water sampling activities were conducted by an HLA geologist. Prior to sampling, wells were purged of four to five well volumes to remove standing water and to promote the flow of water from the surrounding formation into the well casing. Purge water was collected by lowering a submersible pump to a depth approximately 2 feet above the bottom of each casing. Wells were purged until measurements of pH, electric conductance (EC), and temperature of the purged ground water stabilized. Well purging data are presented in Attachment A. To minimize cross-contamination between wells, purging and sampling equipment was decontaminated using a Liquinox detergent solution followed by potable and deionized water rinses.

Prior to ground-water sample collection, water levels in the well casings were allowed to recover to within at least 80 percent of the original static water level observed before purging. To minimize agitation/volatilization, the samples were collected by gently lowering a stainless-steel bailer into the ground water. The collected ground water was immediately and carefully transferred into laboratory-prepared 40-milliliter glass VOA vials. The vials were immediately sealed with screw caps, labeled, and placed in an iced field cooler for shipment to Terra Tech Labs, Inc., a California State-certified laboratory. One ground-water sample was collected in duplicate from Well MW-6, labeled MW-7, and submitted for analyses to monitor laboratory quality control. To assess the effectiveness of decontamination procedures, an equipment blank was collected, labeled MW-8, and submitted with the ground-water samples for analyses. All collected samples were analyzed for halogenated and aromatic volatile organic compounds using EPA Methods 601 and 602, respectively.

#### Ground-Water Analytical Results

Ground-water analytical results are presented in Table 2. Laboratory reports and chain-of-custody documentation are presented in Attachment B.

Six halogenated compounds, 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), chloroform, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and tetrachloroethene (PCE) were detected in site ground water. No aromatic compounds (benzene, toluene, ethylbenzene, and total xylenes) were present above their detection limit of 1 microgram per liter (ug/L).

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In general, the highest concentrations of halogenated compounds were detected in samples collected from observation Well MW-2. Ground water from Well MW-2 contained the site maximum concentrations of 1,1-DCE, 1,1-DCA, TCE, and PCE (68, 17, 33, and 500 ug/L, respectively). Samples from Well MW-3 contained the site maximum concentration of chloroform (4.7 ug/L). Ground water from Well MW-6 contained the site maximum concentration of 1,1,1-TCA (60 ug/L).

Concentrations of halogenated compounds detected in samples from Wells MW-4 through MW-6 were generally lower than those detected in Wells MW-2 and MW-3. Chemical analysis of the samples from Wells MW-4 through MW-6 detected concentrations of 1,1-DCE ranging from 18 to 55 ug/L, 1,1-DCA ranging from not detected to 8.6 ug/L, 1,1,1-TCA ranging from 4.8 to 60 ug/L, TCE ranging from 6.1 to 23 ug/L, and PCE ranging from 59 to 250 ug/L. Chloroform was not present in Wells MW-4 through MW-6 above the detection limit of 1.0 ug/L.

Concentrations of 1,1-DCE, 1,1-DCA, 1,1,1-TCA, TCE, and PCE in ground water were contoured to produce the isoconcentration maps presented on Plates 4 through 8. A uniform, linear relationship was used to interpolate concentration values between data points. The contouring did not account for site-specific geological, historical, or operational information.

#### WORK SCHEDULED FOR NEXT QUARTER

Ground-water monitoring activities are scheduled for the second week of April, May, and June 1991. Ground-water sampling will be conducted during the second week of May 1991. All monitoring activities are being coordinated with ground-water monitoring conducted at the facilities located directly east and south of the site.

Purge water generated during the February and May sampling events will be manifested as a hazardous waste and transported by a California state-licensed hazardous waste hauler to an appropriate facility for treatment and disposal. This waste will be transported on or prior to May 28, 1991.

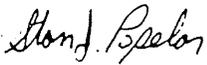
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CLOSURE

HLA appreciates the opportunity to provide this quarterly monitoring report to Utility Trailer Manufacturing Company. If you have any questions, please contact either of the undersigned.

Very truly yours,

HARDING LAWSON ASSOCIATES



Stan J. Popelar  
Project Geologist



Ted A. Koelsch, Ph.D.  
Registered Geologist - 4741

SJP/TAK/hk  
91UTM(X)5.Irp

Attachments: Tables 1 and 2  
Plates 1 through 8  
Attachments A and B

cc: Mr. Samuel Yu, Regional Water Quality Control Board, Los Angeles Region  
Mr. Dominic Holzhaus, Latham and Watkins

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Table 1. Ground-Water Monitoring Data

Well No.	Surveyed Elevation* (feet above MSL)	Depth to Ground Water			Ground-Water Elevation		
		1-31-91 (feet)	2-27-91 (feet)	3-7-91 (feet)	1-31-91 (feet)	2-27-91 (feet)	3-7-91 (feet)
MW-2	377.16	24.78	25.02	24.30	352.38	352.14	352.86
MW-3	378.56	23.27	23.45	22.86	355.29	355.11	355.70
MW-4	383.57	28.92	29.13	28.55	354.65	354.44	355.02
MW-5	381.15	27.51	27.71	27.08	353.64	353.44	354.07
MW-6	380.20	25.61	25.79	25.18	354.59	354.41	355.02

Notes:

MSL = Mean Sea Level

Elevations referenced to top edge of well box

\* Surveyed elevations based on data presented in Hydro-Fluent, Inc., Bimonthly Ground-Water Monitoring, June-July 1990 report, dated July 31, 1990

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Table 2. Ground-Water Chemical Analytical Summary

Well No.	EPA Method 602			EPA Method 601*						
	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	1,1-DCE (ug/L)	1,1-DCA (ug/L)	Chloroform (ug/L)	1,1,1-TCA (ug/L)	TCE (ug/L)	PCE (ug/L)
MW-2	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	68	17	2.6	29	33	500
MW-3	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	10	2.1	4.7	4.8	33	390
MW-4	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	18	ND(1.0)	ND(1.0)	4.8	6.1	250
MW-5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	33	4.8	ND(1.0)	36	8.4	59
MW-6	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	53	6.6	ND(1.0)	60	23	140
MW-6*	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	55	8.6	ND(1.0)	59	23	160
Blank**	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)	ND(1.0)

Notes:

1,1-DCE = 1,1-dichloroethene  
 1,1-DCA = 1,1-dichloroethane  
 1,1,1-TCA = 1,1,1-trichloroethane  
 TCE = trichloroethene  
 PCE = tetrachloroethene

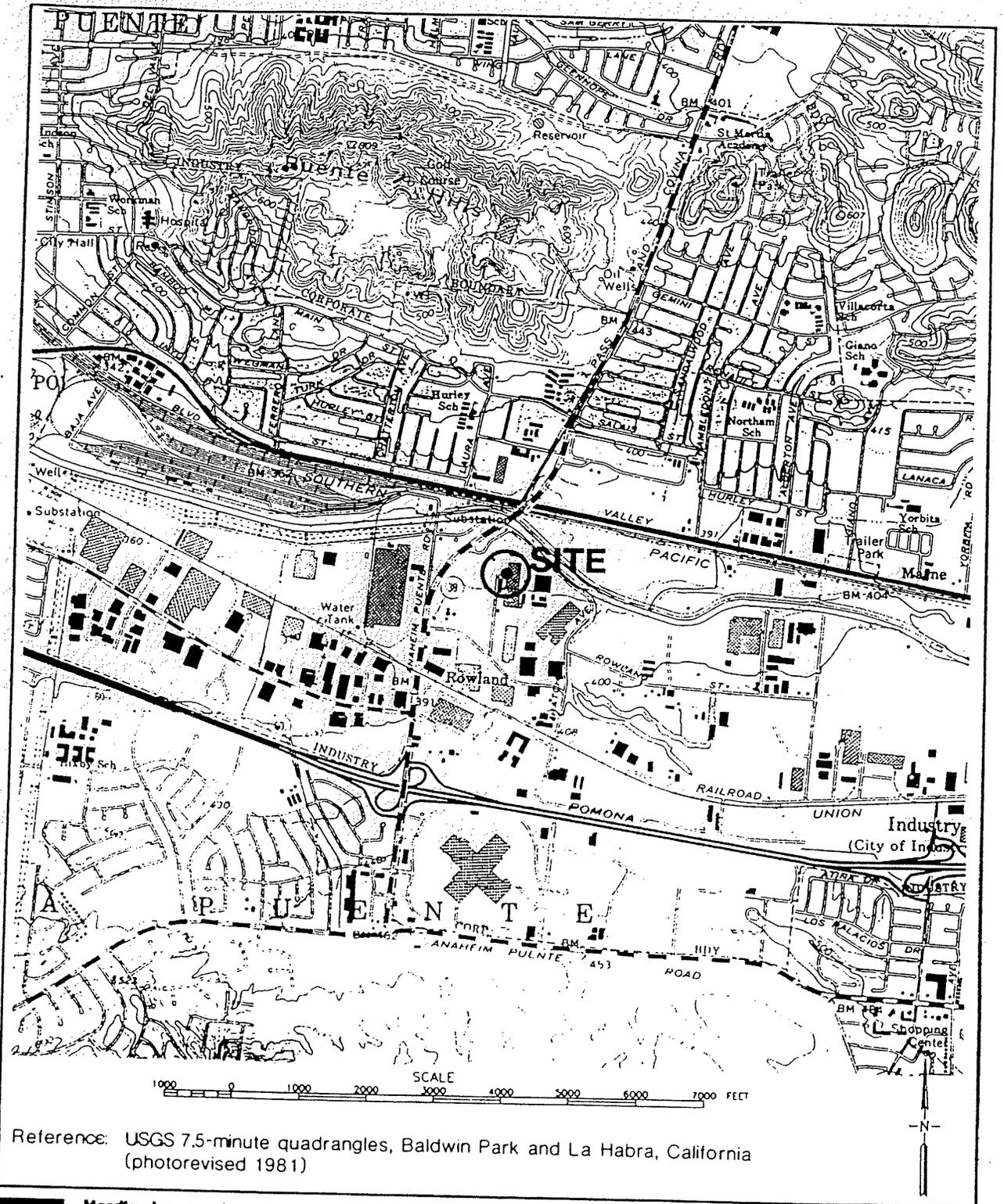
ug/L = micrograms per liter (parts per billion)

ND( ) = not detected above enclosed detection limit

\* Duplicate of Well MW-6, labeled MW-7

\*\* Equipment blank, labeled MW-8

\* Analytes that were not detected in at least one site well are not shown



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 Engineers, Geologists  
 & Geophysicists

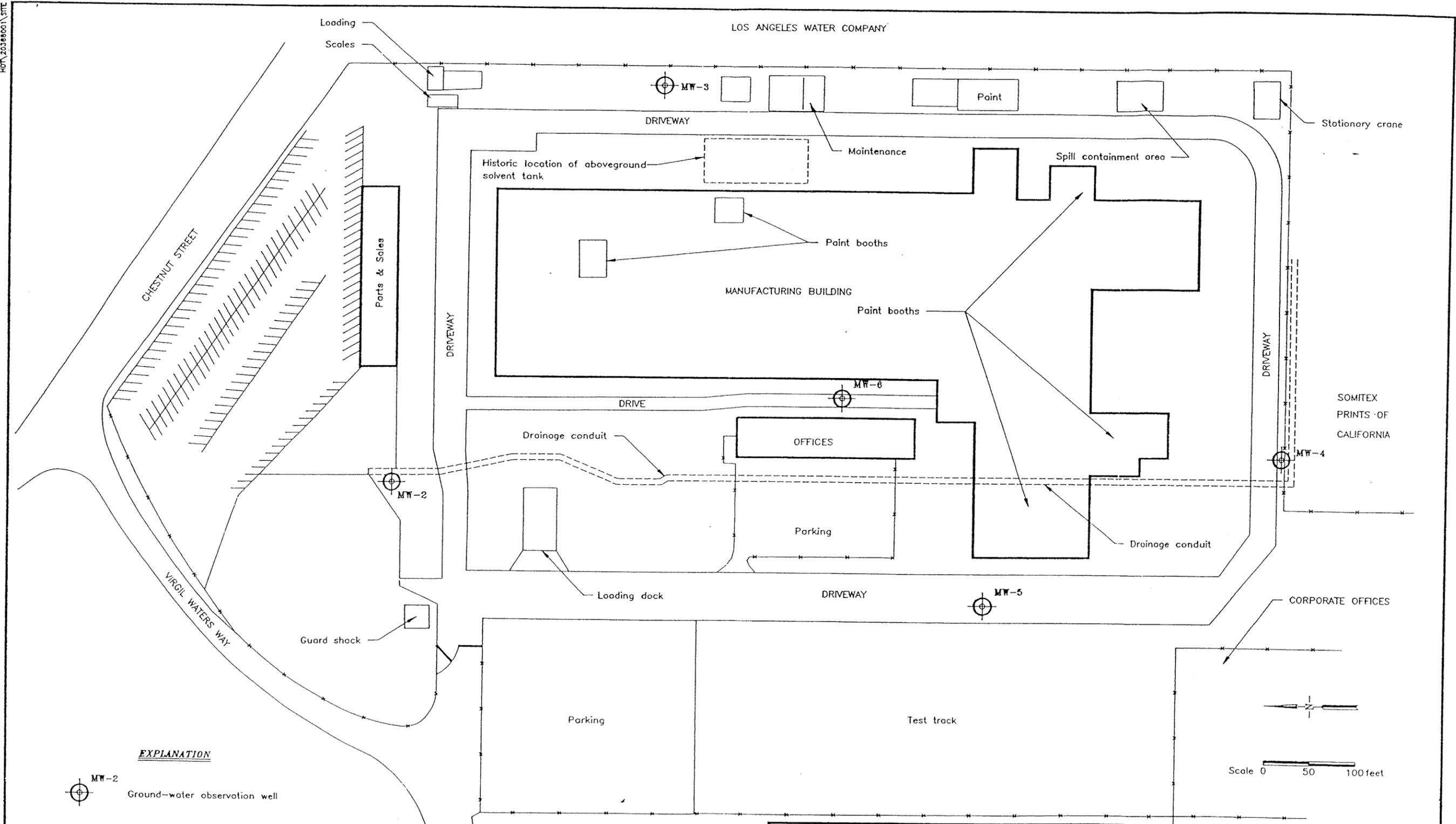
**VICINITY MAP**  
 Utility Trailer Manufacturing Company  
 City of Industry, California

PLATE  
**1**

DRAWN jb	JOB NUMBER 20368,001.11	APPROVED PS	DATE 3/91	REVISED	DATE
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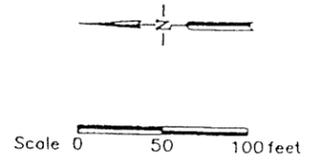
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LOT 20368001 SITE



**EXPLANATION**

-  MW-2  
Ground-water observation well
-  Fence



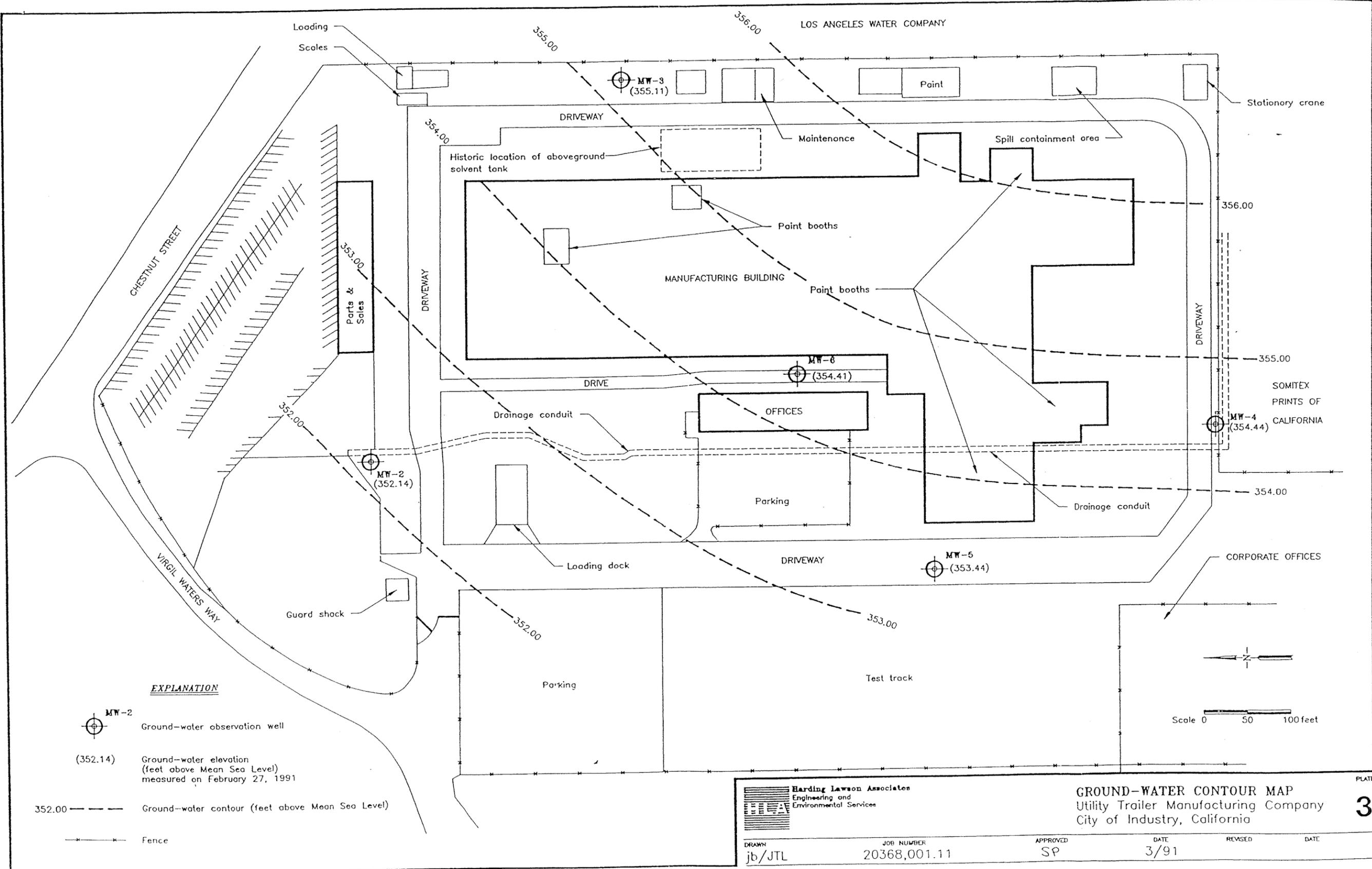
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**SITE PLAN**  
Utility Trailer Manufacturing Company  
City of Industry, California

PLATE 2

DRAWN jb/JTL	JOB NUMBER 20368,001.11	APPROVED SP	DATE 2/91	REVISED	DATE 3/91
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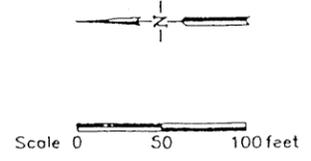


**EXPLANATION**

- MW-2  
Ground-water observation well
- (352.14)  
Ground-water elevation  
(feet above Mean Sea Level)  
measured on February 27, 1991

352.00 --- Ground-water contour (feet above Mean Sea Level)

--- Fence



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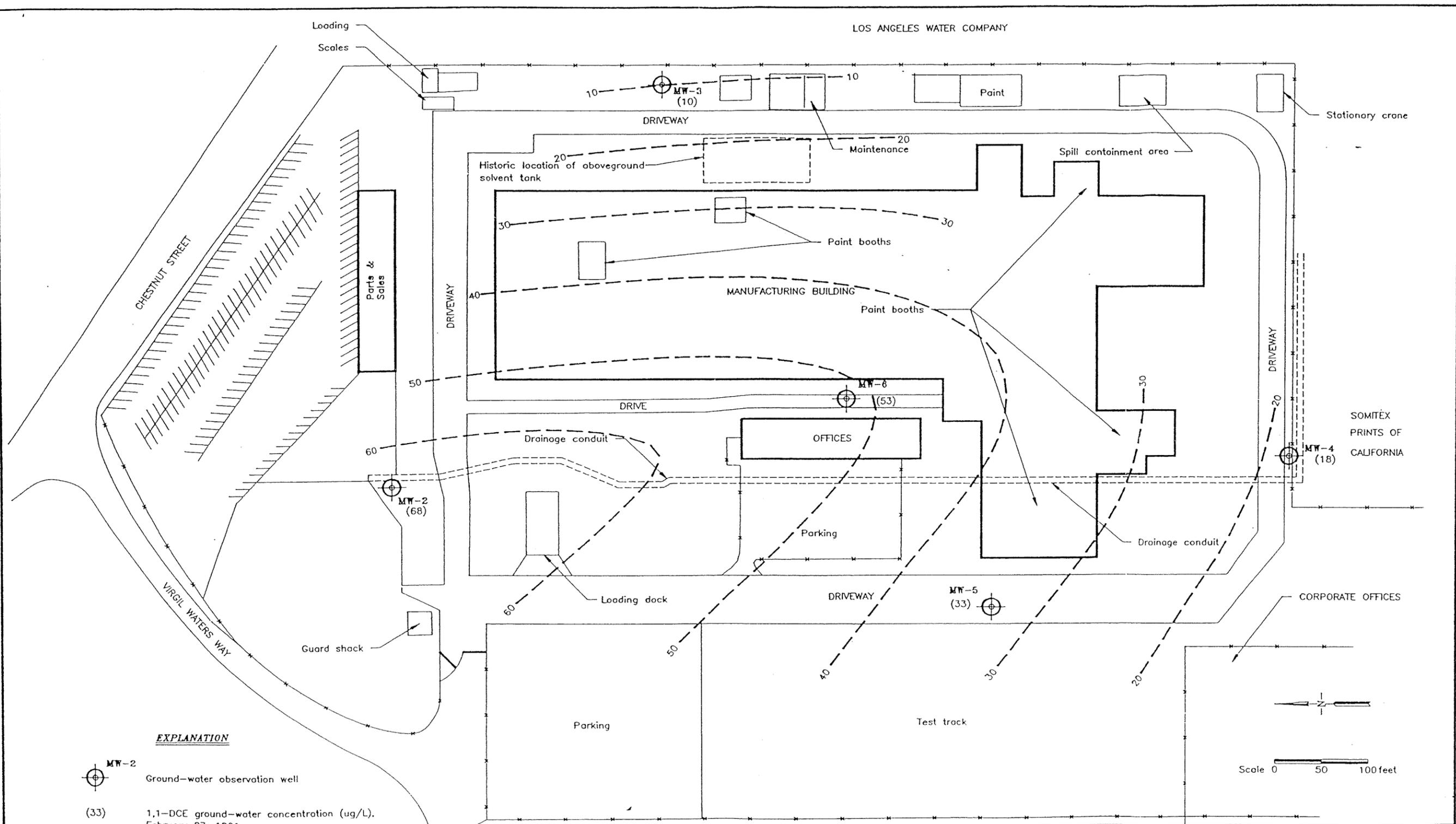
**GROUND-WATER CONTOUR MAP**  
Utility Trailer Manufacturing Company  
City of Industry, California

PLATE **3**

DRAWN jb/JTL	JOB NUMBER 20368,001.11	APPROVED SP	DATE 3/91	REVISED DATE
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**EXPLANATION**

- MW-2  
Ground-water observation well
- (33)  
1,1-DCE ground-water concentration (ug/L), February 27, 1991
- 50 — — —  
1,1-DCE ground-water isoconcentration contour (ug/L)
- x — x —  
Fence

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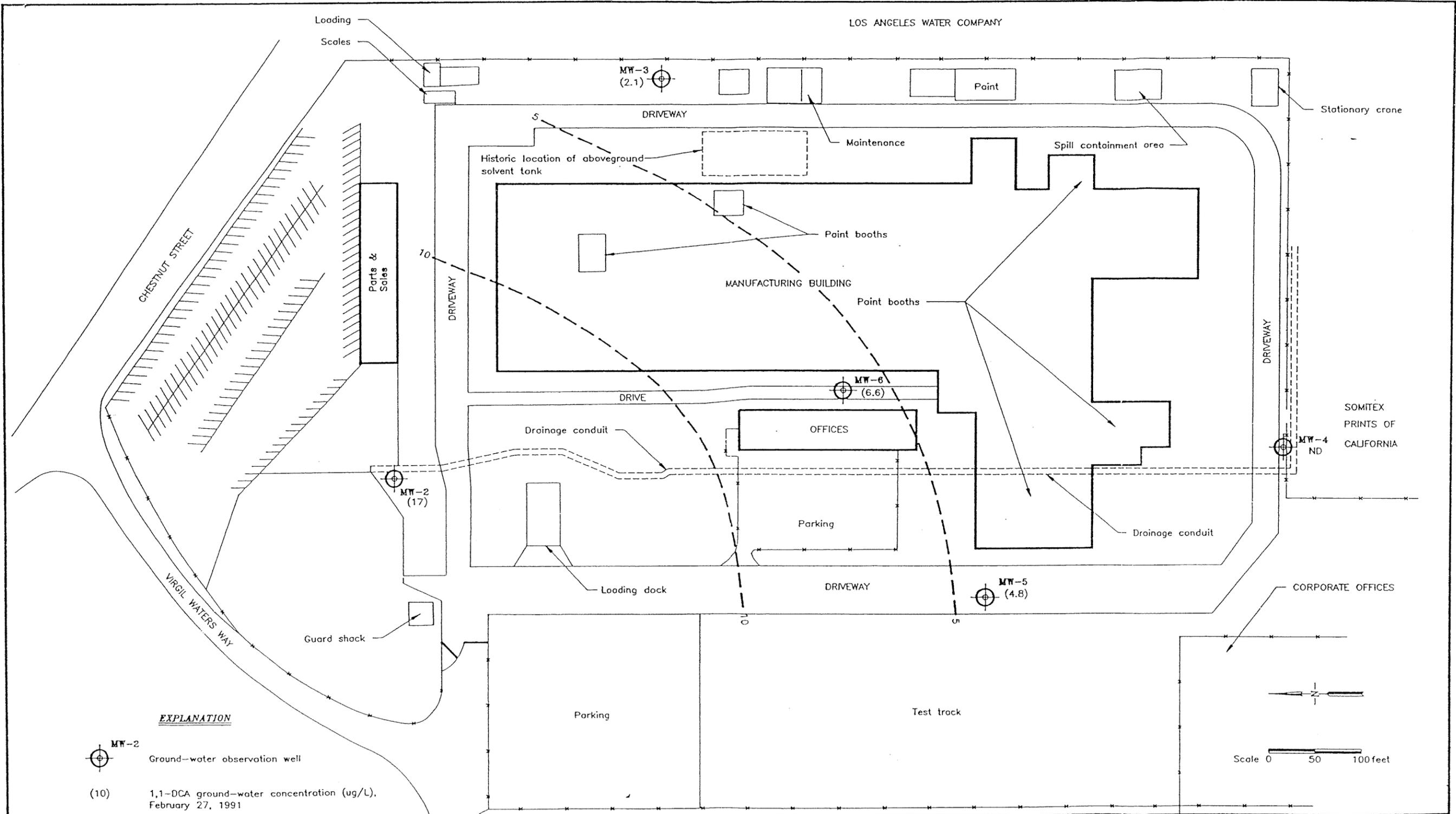
**1,1-DCE GROUND-WATER ISOCONCENTRATION MAP**  
Utility Trailer Manufacturing Company  
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PLATE **4**

DRAWN jb/JTL	JOB NUMBER 20368,001.11	APPROVED SP	DATE 4/91	REVISED	DATE
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Scale 0 50 100 feet

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**EXPLANATION**

- MW-2 Ground-water observation well
- (10) 1,1-DCA ground-water concentration (ug/L), February 27, 1991
- 10 --- 1,1-DCA ground-water isoconcentration contour (ug/L)
- ND Not detected
- Fence

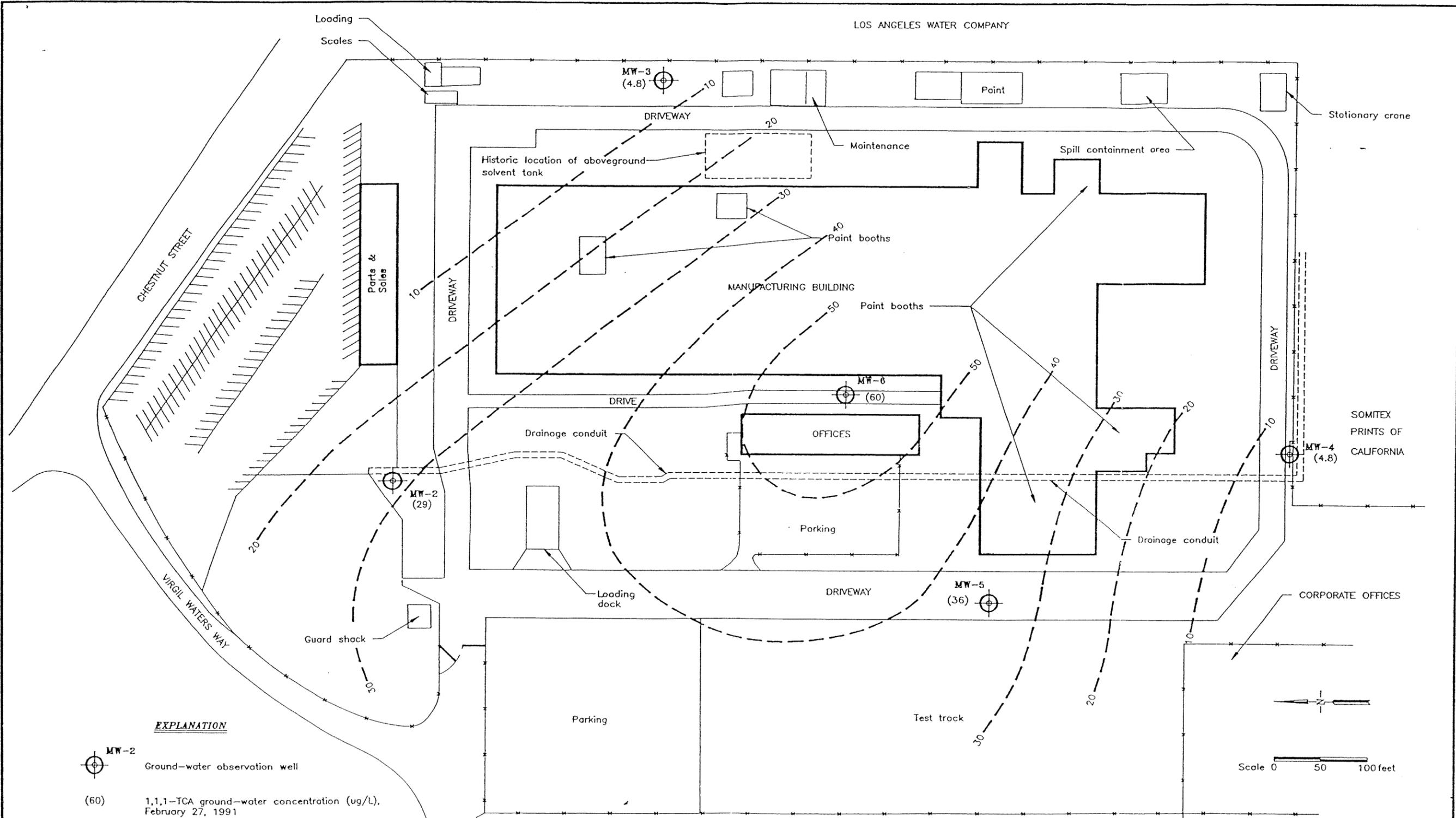
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**1,1-DCA GROUND-WATER  
 ISOCONCENTRATION MAP**  
 Utility Trailer Manufacturing Company  
 City of Industry, California

PLATE **5**

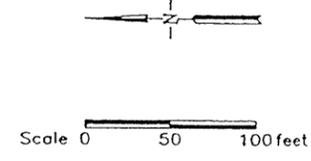
DRAWN jb/JTL	JOB NUMBER 20368,001.11	APPROVED SP	DATE 3/91	REVISED	DATE
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DATE PLOTTED: 3/91



**EXPLANATION**

- MW-2  
Ground-water observation well
- (60)  
1,1,1-TCA ground-water concentration (ug/L),  
February 27, 1991
- 50  
1,1,1-TCA ground-water isoconcentration  
contour (ug/L)
- Fence



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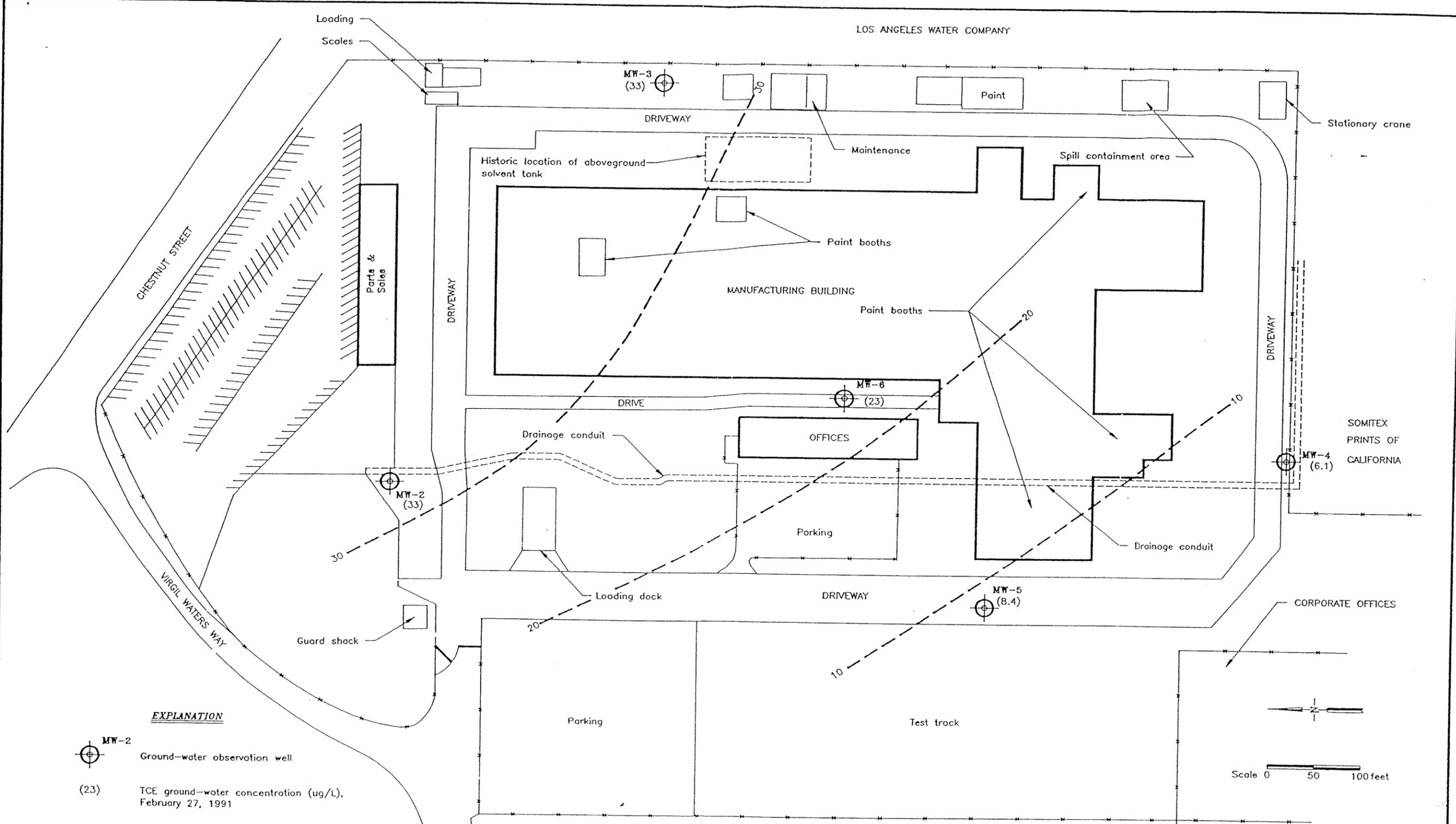
**1,1,1-TCA GROUND-WATER  
ISOCONCENTRATION MAP**  
Utility Trailer Manufacturing Company  
City of Industry, California

PLATE  
**6**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
jb/JTL	20368,001.11	SP	3/91		

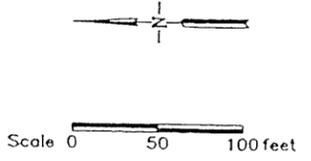
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**EXPLANATION**

- MW-2 Ground-water observation well
- (23) TCE ground-water concentration (ug/L), February 27, 1991
- 50 --- TCE ground-water isoconcentration contour (ug/L)
- Fence



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**TCE GROUND-WATER  
 ISOCONCENTRATION MAP**  
 Utility Trailer Manufacturing Company  
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PLATE

**7**

DRAWN jb/JTL	JOB NUMBER 20368,001.11	APPROVED SP	DATE 3/91	REVISED	DATE
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