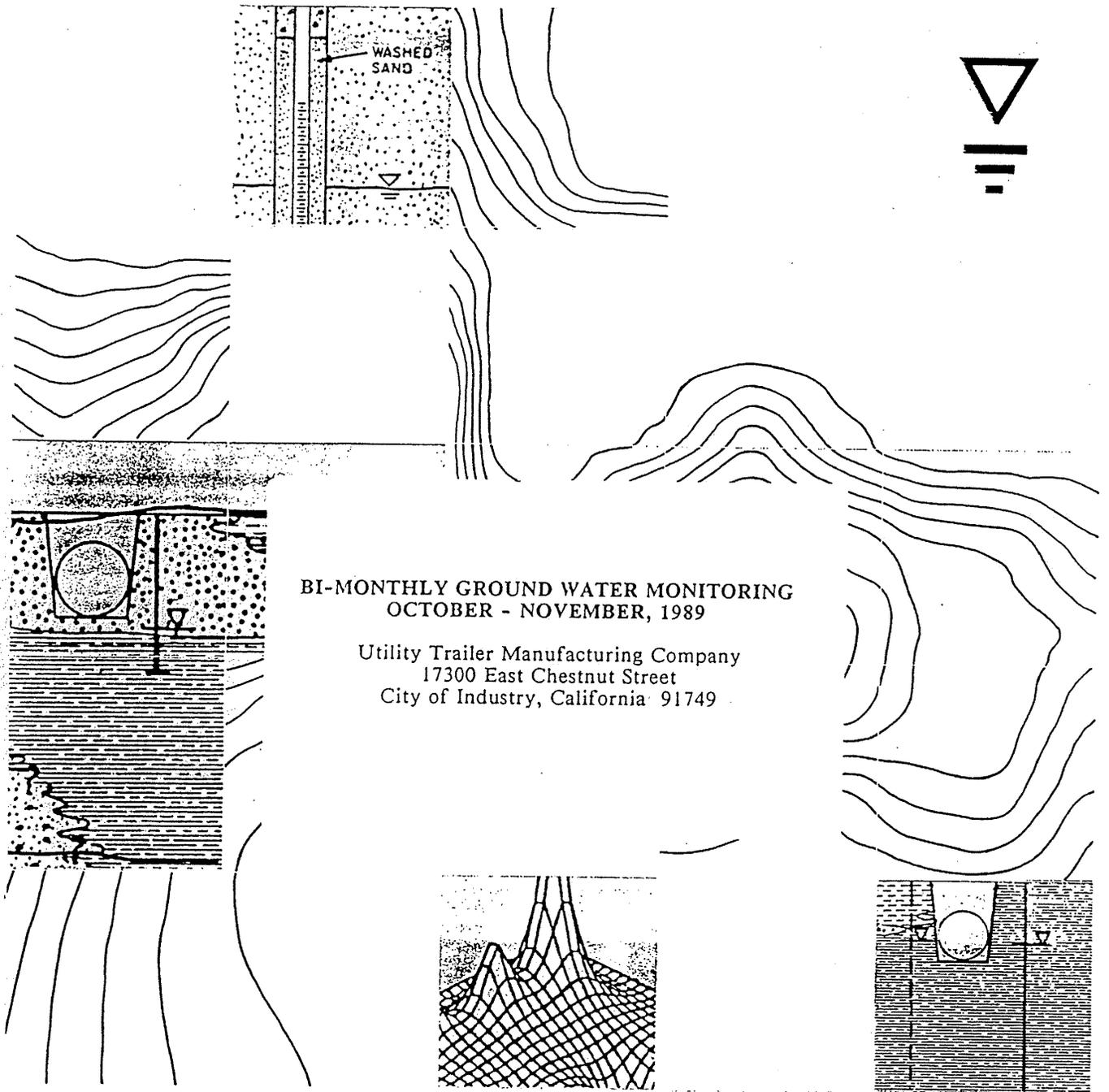


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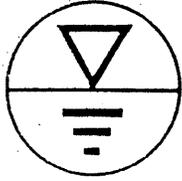


BI-MONTHLY GROUND WATER MONITORING  
OCTOBER - NOVEMBER, 1989

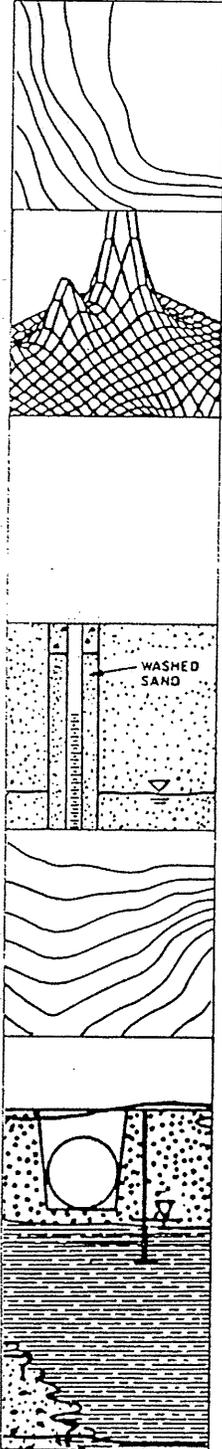
Utility Trailer Manufacturing Company  
17300 East Chestnut Street  
City of Industry, California 91749

**HYDRO-FLUENT, INC.**  
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UTM 000433



# HYDRO-FLUENT, INC.



Prepared for:

Utility Trailer Manufacturing, Inc.  
P.O. Box 1299  
City of Industry, California 91749

Attention: Mr. Gary Little

## BI-MONTHLY GROUND WATER MONITORING OCTOBER - NOVEMBER, 1989

Utility Trailer Manufacturing Company  
17300 East Chestnut Street  
City of Industry, California 91749

HFL00253.089

Project Number 1614-06

November 29, 1989

UTM 000434

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UTM 000436

BI-MONTHLY GROUND WATER MONITORING  
OCTOBER - NOVEMBER, 1989  
17300 EAST CHESTNUT STREET  
CITY OF INDUSTRY, CALIFORNIA

1.0 EXECUTIVE SUMMARY

Presented herein are the results of bi-monthly ground water sampling completed during October and November, 1989 for Utility Trailer Manufacturing, Inc. located in the City of Industry, California. Samples collected from the Site's five ground water monitoring wells were analyzed for volatile halogenated and aromatic hydrocarbons. Sampled ground water is shallow and unconfined with an average gradient of 0.00495 feet per foot and a northwesterly flow direction.

Eight volatile halogenated hydrocarbon compounds were detected in Site ground water. In general, maximum concentrations were detected in the northwestern and northern portions of the Site. Changes in the maximum observed concentration of PCE occurred between the May and August, 1989 sampling periods and again between the August and October, 1989 sampling periods. In May, the observed Site PCE maximum concentration of 1100 parts per billion was detected at MW-2 and in August, a maximum concentration of 530 parts per billion was detected at MW-3. The most recent sampling (October, 1989) detected a Site PCE maximum of 990 parts per billion at MW-2. Monitoring well MW-2 is located in the northwestern portion of Utility Trailer's property.

## 2.0 INTRODUCTION

This report presents the findings of bi-monthly ground water monitoring completed for Utility Trailer Manufacturing, Incorporated. Included are an analysis of collected data and a summary of monitoring related activities completed during October and November, 1989.

### 2.1 SITE DESCRIPTION

Utility Trailer Manufacturing Company (the "Site") is located at 17300 East Chestnut Street, in the City of Industry, Los Angeles County, California (Figure 1).

The Site is bounded by Chestnut Street and San Jose Creek to the north, Los Angeles Water Company to the east, Somitex Prints of California, Inc. to the south and a vacant dirt field adjacent to Azusa Road to the west (Figure 2). The Site is currently occupied by a main manufacturing building, plant operations building and numerous small operational support buildings. The property is paved with asphalt and concrete, except for two unpaved areas located on the north and west portions of the Site. The northern area is used as an employee parking lot. The western area is used as a quality assurance test track. In the past, the Site has been used by previous occupants for raising livestock and other agricultural activities.

### 2.2 BACKGROUND

Numerous environmental investigations have been conducted at the Site by Triad Engineering and HYDRO-FLUENT, INC. These studies assessed the degree to which Site soil and ground water had been impacted by volatile halogenated and aromatic hydrocarbons. An overview of these investigations was presented in HYDRO-FLUENT, INC.'s June 9, 1989 report entitled "Ground Water Assessment" (Job No. 1614-04).

Upon reviewing these reports the California Regional Water Quality Control Board (CRWQCB) requested a bi-monthly ground water monitoring program for the Site (File No. AB105.296). In response to this request, Utility Trailer Manufacturing, Inc. contracted HYDRO-FLUENT, INC. to collect ground water samples from the Site's five existing monitoring wells and to present analytical test results in a format acceptable to the CRWQCB. The requested monitoring period began in August, 1989 and will continue until October, 1990.

### 3.0 GEOLOGY

#### 3.1 REGIONAL GEOLOGY

The Site is located in the Puente Valley between the San Jose Hills to the north and the Puente Hills to the south. The Site is part of the Peninsular Range physiographic province, and lies within the Northeastern structural block as defined by United States Geological Survey Professional Paper 420-A. The region consists of Quaternary aged sediments and moderately thick Tertiary aged sedimentary strata overlying crystalline basement rocks.

The Tertiary aged sequence consists of fine- to coarse-grained marine clastic sedimentary rocks which have been divided into three formational units, the Puente, Repetto, and Pico Formations. The Puente Formation is the oldest Tertiary aged unit and the Pico Formation the youngest.

Quaternary aged sediments consists of unconsolidated to semi-consolidated alluvial and terrace deposits. Recent alluvium consists of coarse boulders, gravel, sand, silt, and some clay. Thickness of the alluvium ranges from a few inches to 100 feet depending upon the distance from the local hills. The thicker deposits occur at the center of the valley. Sediments are generally finer grained with increased distance from the local hills.

The Site overlies the Puente ground water basin. Water bearing zones exist in the upper member of the Pico Formation and the alluvium deposits. Ground water flow is generally east to west towards the Whittier Narrows area, and generally follows the San Jose Creek flood control channel.

#### 3.2 SITE GEOLOGY

The Site is located adjacent to San Jose Creek within Quaternary aged alluvium underlain by Tertiary aged marine sediments. Clayey silts and sandy silts comprise the majority of sediments between the ground surface and 12 feet. Sands interbedded with silty clay predominate the sediments from 12 to 50 feet. The sands range from fine- to coarse-grained and commonly contain some clay. Coarser-grained sands generally occur at a lower depth within the borings and commonly contain approximately ten percent irregular shaped, angular gravel ranging from one to three inches in diameter. The MW-3 and MW-6 borings were terminated in a suspected impermeable silty clay.

#### 3.3 HYDROGEOLOGY

Depth to ground water was measured at the time of sampling on October 11, 1989 and again on November 16, 1989 (See Table 1). Ground water elevations were then calculated by subtracting this height from the surveyed well elevations. Using this data, two ground water piezometric surfaces were contoured and are presented on Figures 3 and 4.

The contoured data exhibits a shallow unconfined layer of perched (?) ground water at an elevation of approximately 355.15 feet above mean seal level with an average gradient of 0.00495 feet per foot and a northwesterly flow direction. From October 11, 1989 to November 16, 1989 the ground water surface dropped an average of 0.08 feet (See Figure 5).

#### 4.0 GROUND WATER SAMPLING METHODS

Prior to sampling, the wells were purged a minimum of three well volumes to remove standing water from the well casing and to promote the flow of water from the surrounding formation into the well casing. Well purging was accomplished through the use of a teflon bailer. Well volumes were calculated based on the height of the water column in the well casing and the casing diameter. All purging equipment was thoroughly steam cleaned and washed using an aqueous solution of Alconox and double rinsed in bottled distilled water before being placed into a well.

Purge water was collected by lowering the bailer to the mid-point of the screened interval of each well. The wells were purged until the pH, electric conductance (EC) and temperature stabilized. A Presto-Tek model DspH-3 pH and conductivity meter was used to measure pH and EC, and a Taylor Instruments pocket mercury thermometer was used to measure temperature.

Water samples were collected using a clean teflon bailer. The teflon bailer was properly steam cleaned, washed with an aqueous solution of Alconox and double rinsed in distilled water prior to the each use. For the purpose of quality control, a field blank was collected and designated "Field Blank". This sample consisted of water which had been used for the final rinse of the sampling equipment. Chemical analysis of this sample is presented in Appendix A.

Samples obtained for determination of volatile organic hydrocarbons (VOC) were collected in 40-milliliter, "zero head-space" glass vials with teflon septa. The pre-cleaned vials were filled so that a positive (upward) meniscus resulted. The caps were secured and the vial inverted and tapped on a hard surface. If air bubbles were observed, the sample was discarded and the sampling procedure repeated.

All ground water samples were immediately labeled, placed into an ice chest with blue ice and chilled to 4 degrees Centigrade. Samples were delivered to a California state certified laboratory for analysis.

## 5.0 ANALYTICAL TESTING

Subsequent to the collection and proper labeling of each water sample, a HYDRO-FLUENT, INC. Chain Of Custody Form was utilized to properly document the samples' date and time of collection, field conditions and identification number and/or location. Upon the completion of each day's field work, samples were transported under chain of custody to The Earth Technology Corporation, a California state certified laboratory, for chemical analysis by EPA established test methods. All testing procedures are described in Section 5.1 Analytical Methods.

### 5.1 ANALYTICAL METHODS

All ground water samples were analyzed utilizing EPA Method 624 (Method 624) which identifies volatile halogenated and aromatic hydrocarbons utilizing a gas chromatograph as a separator and a mass spectrometer as a detector.

### 5.2 ANALYTICAL RESULTS

Method 624 analysis of Site ground water revealed detectable amounts of eight volatile halogenated hydrocarbons, one aromatic hydrocarbon, and one non-hydrocarbon compound. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), 1,1 dichloroethane (DCA), 1,1 dichloroethene (DCE), trans-1,2-dichloroethene (trans-1,2-DCE), chloroform, trichlorofluoromethane (Freon 11), toluene, and carbon disulfide. Four of these compounds, trans-1,2-DCE, chloroform, toluene, and carbon disulfide, were detected in Site ground water for the first time.

With the exception of chloroform, highest concentrations of halogenated hydrocarbons were detected in samples collected from monitoring wells MW-2 and MW-3, where MW-2 concentrations were greater for all detected halogenated compounds except TCE, Freon 11, and trans-1,2 DCE (See Tables 2 and 3). Samples obtained from MW-2 contained 120 parts per billion (ppb) of DCE, 70 ppb of TCA, 990 ppb of PCE, 96 ppb of TCE, 42 ppb of DCA, 17 ppb of Freon 11, and 13 ppb of trans-1,2-DCE. Chemical analysis of samples collected from MW-3 revealed 34 ppb of DCE, 6 ppb of TCA, 170 ppb of PCE, 100 ppb of TCE, 11 ppb of DCA, 31 ppb of Freon 11, and 20 ppb of trans-1,2-DCE.

The amount of halogenated hydrocarbons detected at MW-4, MW-5, and MW-6 were considerably lower than the concentrations detected at MW-2 and MW-3. An exception to this are the concentrations of chloroform, toluene, and carbon disulfide, which were not detected in samples collected from MW-2 and MW-3, and the amount of TCA detected from MW-3, which was less than the concentrations detected from samples collected at MW-4, MW-5, and MW-6. Chemical analysis of these samples detected concentrations of PCE ranging from 34 to 73 ppb, TCE concentrations ranging from 4 to 9 ppb, TCA concentrations ranging from 19 to 50 ppb, DCE concentrations ranging from 9 to 45 ppb, DCA concentration of 4 ppb in MW-6, chloroform concentration of 2 ppb in MW-5, toluene concentrations of 2 ppb in MW-4 and 1 ppb in MW-6, and carbon disulfide concentration of 7 ppb in MW-5 and MW-6 (See Tables 2, 3, 4, 5, and 6).

## 6.0 SUMMARY OF FINDINGS

### 6.1 HYDROGEOLOGY

Contoured ground water piezometric surfaces exhibit a shallow unconfined layer of perched (?) ground water with an average gradient of 0.00495 feet per foot and a northwesterly flow direction.

### 6.2 VOLATILE HYDROCARBON ANALYSIS

Eight volatile halogenated hydrocarbons, one aromatic hydrocarbon, and one non-hydrocarbon compound were detected in Site ground water samples. Generally the highest concentrations of compounds were detected in samples collected from monitoring wells MW-2 and MW-3. Maximum Site concentrations detected in samples collected from MW-3 were, 100 ppb of TCE, 31 ppb of Freon 11, and 20 ppb of trans-1,2-DCE. The maximum site concentrations detected in samples collected from MW-2 were, 120 ppb of DCE, 70 ppb of TCA, 990 ppb of PCE, and 42 ppb of DCA.

Four compounds, trans-1,2 DCE, chloroform, toluene, and carbon disulfide had not been previously detected in Site ground water. Two of these compounds, chloroform and toluene, were detected as trace amounts (1 to 2 ppb) in two Site wells. Future sampling will determine if these low concentrations are significant. Carbon disulfide was detected at greater concentrations (4 to 7 ppb) in three Site wells; however, the highest concentration was detected in the field blank. Therefore, the appearance of this compound is probably due to contamination during sampling or analysis. Trans-1,2 DCE was detected in samples collected from MW-2 and MW-3, determined at 13 and 20 ppb, respectively. Trans-1,2 DCE is a biodegradation product of TCE and the detected levels are probably due to natural biodegradation of this compound.

Concentrations of detected volatile halogenated hydrocarbons were contoured to produce compound specific isoconcentration maps of the Site (See Figures 6, 7, 8, 9, and 10). All isoconcentration maps illustrate the location of highest concentrations of volatile halogenated hydrocarbons to be on the northwestern or northern portions of the Site (near MW-2 and MW-3, respectively). The highest TCA concentration occurred in the northwestern and central portions of the Site (near MW-2 and MW-6, respectively).

All concentrations of detected volatile halogenated hydrocarbons were slightly higher than those observed during the August 1989 sampling. PCE, TCA, DCA, and DCE concentrations, however, were lower than the amounts detected in the May 1989 sampling of the same wells. In May 1989, the observed Site PCE maximum concentration of 1100 ppb was detected at MW-2 and in August 1989 a Site PCE maximum of 530 ppb was detected in MW-3. The most recent sampling detected a Site PCE maximum of 990 ppb in MW-2. Monitoring well MW-2 is located in the northwestern portion of Utility Trailer's property.

## 7.0 SCHEDULED WORK ACTIVITIES

Six hundred gallons of purge water generated during August and October sampling work was manifested as a hazardous waste and transported by a California state licensed hazardous waste hauler to Gibson Oil Refinery for treatment and disposal (See Appendix B).

Ground water sampling is tentatively scheduled for the middle of December, 1989. Ground water elevations will be measured during the sampling work and again in the middle of January, 1990.

## 8.0 LIMITATIONS

### 8.1 REPORT

Services performed by the Consultant under this Agreement were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions and in similar locations.

Client recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys, or explorations are made by the Consultant and that the data, interpretations and recommendations of the Consultant are based solely on the information available to him. The Consultant shall not be responsible for the interpretation by others of the information developed.

The interpretations and conclusions of this report are based in part on data supplied by others, (previous investigation performed by others, laboratory analysis results, and toxicology or health information supplied by others). Such information, prepared by professionals, and in the case of the laboratory, certified by the State of California and using test methods established by the Environmental Protection Agency, are presumed correct and representative. The consultant has no control over or involvement in such testing or analysis, and does not possess a means of confirming accuracy of test results. Therefore, the consultant disclaims any responsibility for inaccuracy of information supplied by others in the preparation of this report.

Samples, sample analyses and observations used in the preparation of this report are inferred to be representative of the study area, however, geologic and hydrogeologic conditions revealed by future work at the site may disagree with preliminary findings. If conditions are different from those presented in the preliminary findings, the designs and plans may be re-evaluated and adjusted by the project engineer or geologist.

The findings in this report are valid as of the date presented. Site conditions may alter with time due to natural or man-made changes on this or adjacent property. Additionally, changes in governmental regulations applicable to the site may occur. The findings of this report may be partially, or wholly invalidated by changes beyond the consultant's control.

**TABLES**

**UTM 000444**

TABLE 1

GROUND WATER ELEVATIONS

MONITORING WELL NUMBER	WELL LOCATION CALIFORNIA COORDINATES NORTHINGS/EASTINGS	* SURVEYED ELEVATION (FEET ABOVE MEAN SEA LEVEL)	DEPTH TO GROUND WATER (FEET)		GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)	
			10/11/89	11/16/89	10/11/89	11/16/89
MW-2	4,115,173.6537 / 4,310,197.4018	377.16	23.63	23.70	353.53	353.46
MW-3	4,114,893.3839 / 4,310,644.9150	378.56	22.48	22.55	356.08	356.01
MW-4	4,114,197.0643 / 4,310,242.6061	383.57	27.85	27.94	355.72	355.63
MW-5	4,114,527.5265 / 4,310,068.9473	381.15	26.30	26.41	354.85	354.74
MW-6	4,114,687.7317 / 4,310,297.7964	380.20	24.63	24.67	355.57	355.53

\* ELEVATION SURVEYED TO TOP EDGE OF WELL BOX

† THE CALIFORNIA COORDINATES FOR MW-3 SHOWN ON HYDRO-FLUENT, INC. JUNE 9, 1989 (JOB # 1614-04.) REPORT WERE INCORRECTLY CALCULATED BY THE SURVEYOR. THE CORRECT COORDINATES ARE SHOWN HERE.

TABLE 2

GROUND WATER ANALYTICAL RESULTS  
MONITORING WELL MW-2

EPA METHOD 624 ug/l (ppb)			
DETECTED COMPOUNDS	5/10/89	8/29/89	10/12/89
VC	TR (3)	ND (10)	ND (5)
FREON 11	ND (5)	ND (5)	17
DCE	480	26	120
DCA	72	9	42
TRANS -1,2 DCE	ND (5)	ND (5)	13
TCA	240	37	70
TCE	74	62	96
PCE	1100	150	990

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (VC) vinyl chloride; (FREON 11) trichlorofluoromethane; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TRANS-1,2 DCE) trans-1,2 dichloroethene; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

UTM 000446

TABLE 3

GROUND WATER ANALYTICAL RESULTS  
MONITORING WELL MW-3

EPA METHOD 624 ug/l (ppb)			
DETECTED COMPOUNDS	5/11/89	8/29/89	10/12/89
FREON 11	5	ND (10)	31
DCE	28	97	34
DCA	18	20	11
TRANS-1,2 DCE	ND (5)	ND (5)	20
TCA	89	53	6
TCE	63	53	100
PCE	100	530	170

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (FREON 11) trichlorofluoromethane; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TRANS-1,2 DCE) trans-1,2 dichloroethene; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

TABLE 4

GROUND WATER ANALYTICAL RESULTS  
MONITORING WELL MW-4

EPA METHOD 624 ug/l (ppb)			
DETECTED COMPOUNDS	5/11/89	8/28/89	10/11/89
CARBON DISULFIDE	ND (5)	ND (5)	TR (4)
DCE	25	17	14
DCA	TR (2)	ND (5)	ND (5)
TCA	30	20	19
TCE	5	TR (3)	ND (5)
PCE	120	79	73
TOLUENE	ND (5)	ND (5)	TR (2)

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

UTM 000448

TABLE 5

## GROUND WATER ANALYTICAL RESULTS

## MONITORING WELL MW-5

EPA METHOD 624 ug/l (ppb)			
DETECTED COMPOUNDS	5/10/89	8/28/89	10/11/89
CARBON DISULFIDE	ND (5)	ND (5)	7
DCE	17	11	9
DCA	TR (2)	ND (5)	ND (5)
CHLOROFORM	ND (5)	ND (5)	TR (2)
TCA	32	20	21
TCE	6	TR (4)	TR (4)
PCE	48	32	34

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

UTM 000449

TABLE 6

GROUND WATER ANALYTICAL RESULTS  
MONITORING WELL MW-6

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)		
	5/10/89	8/28/89	10/11/89
CARBON DISULFIDE	ND (5)	ND (5)	7
DCE	58	53	45
DCA	5	ND (5)	TR (4)
TCA	79	52	50
TCE	10	8	9
PCE	77	62	64
TOLUENE	ND (5)	ND (5)	TR (1)

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

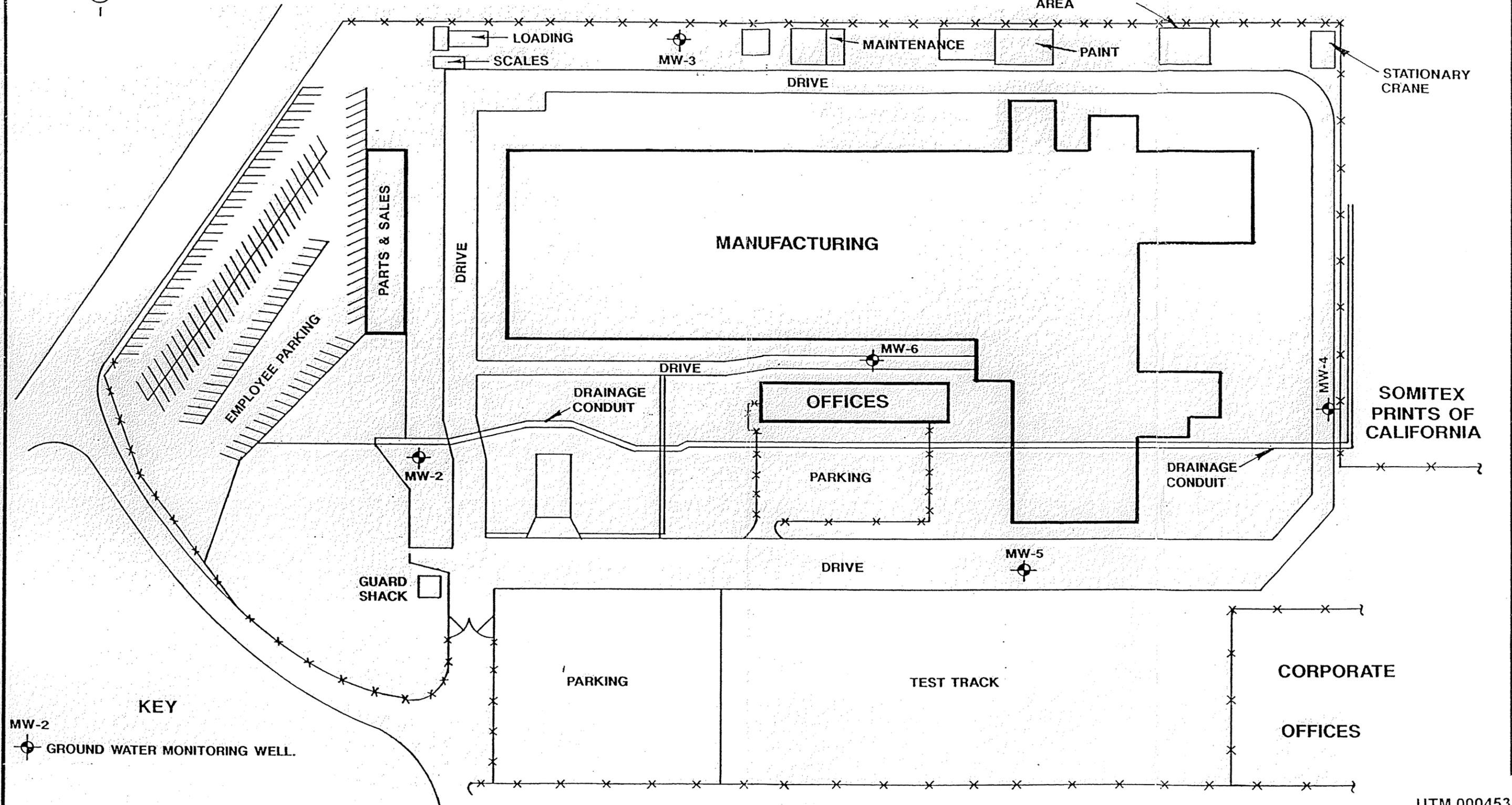
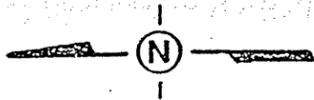
**FIGURES**

UTM 000451

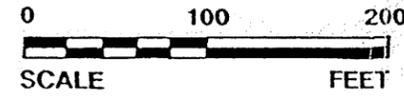


LOS ANGELES WATER CO.

SITE PLOT PLAN



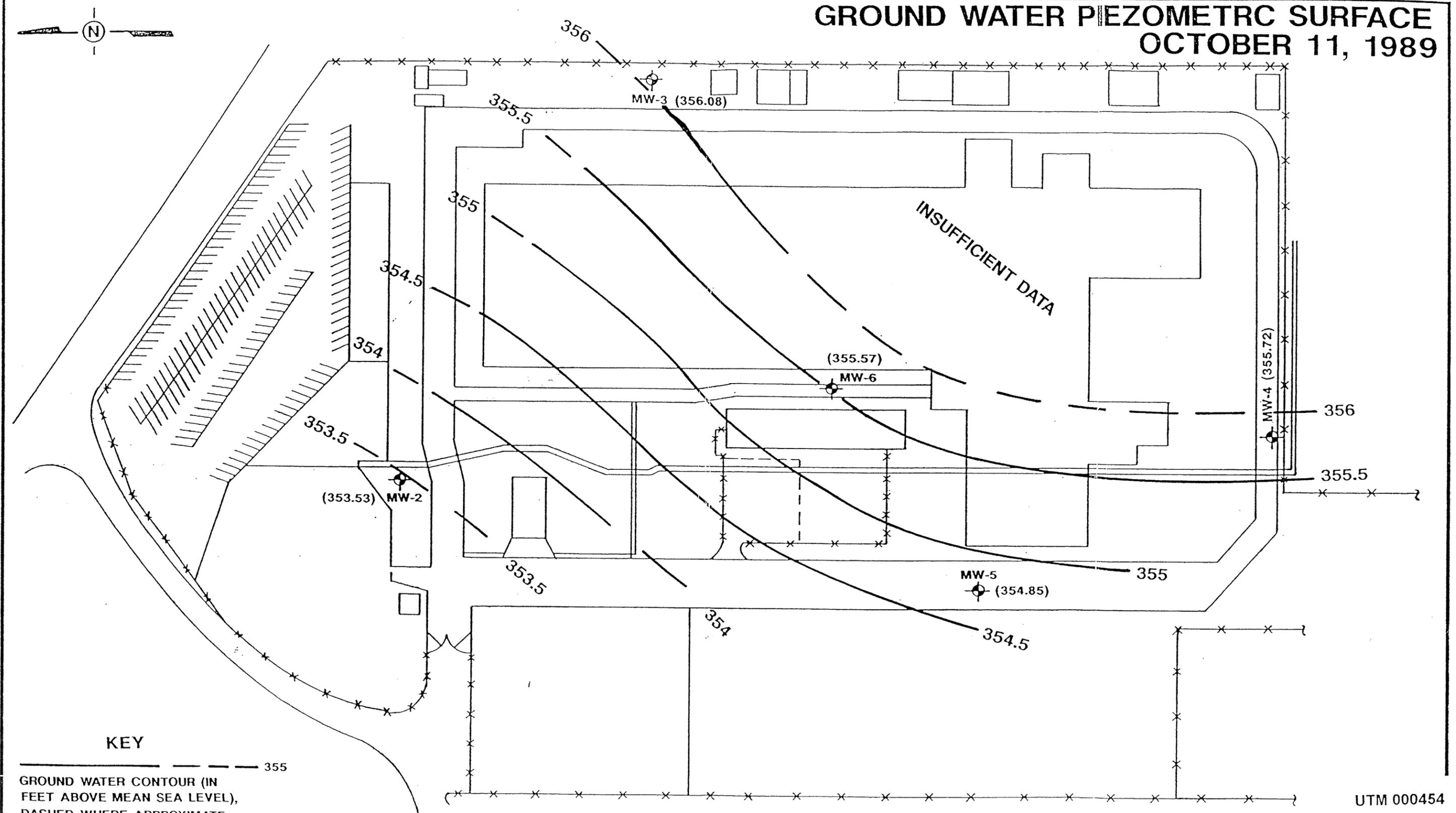
KEY  
 MW-2  
 GROUND WATER MONITORING WELL.



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	Project No.: 1614-06	Figur : No.: 2

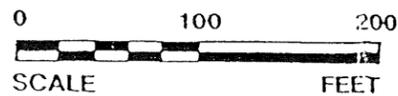
UTM 000453

# GROUND WATER PIEZOMETRIC SURFACE OCTOBER 11, 1989



### KEY

— 355 —  
 GROUND WATER CONTOUR (IN FEET ABOVE MEAN SEA LEVEL),  
 DASHED WHERE APPROXIMATE.



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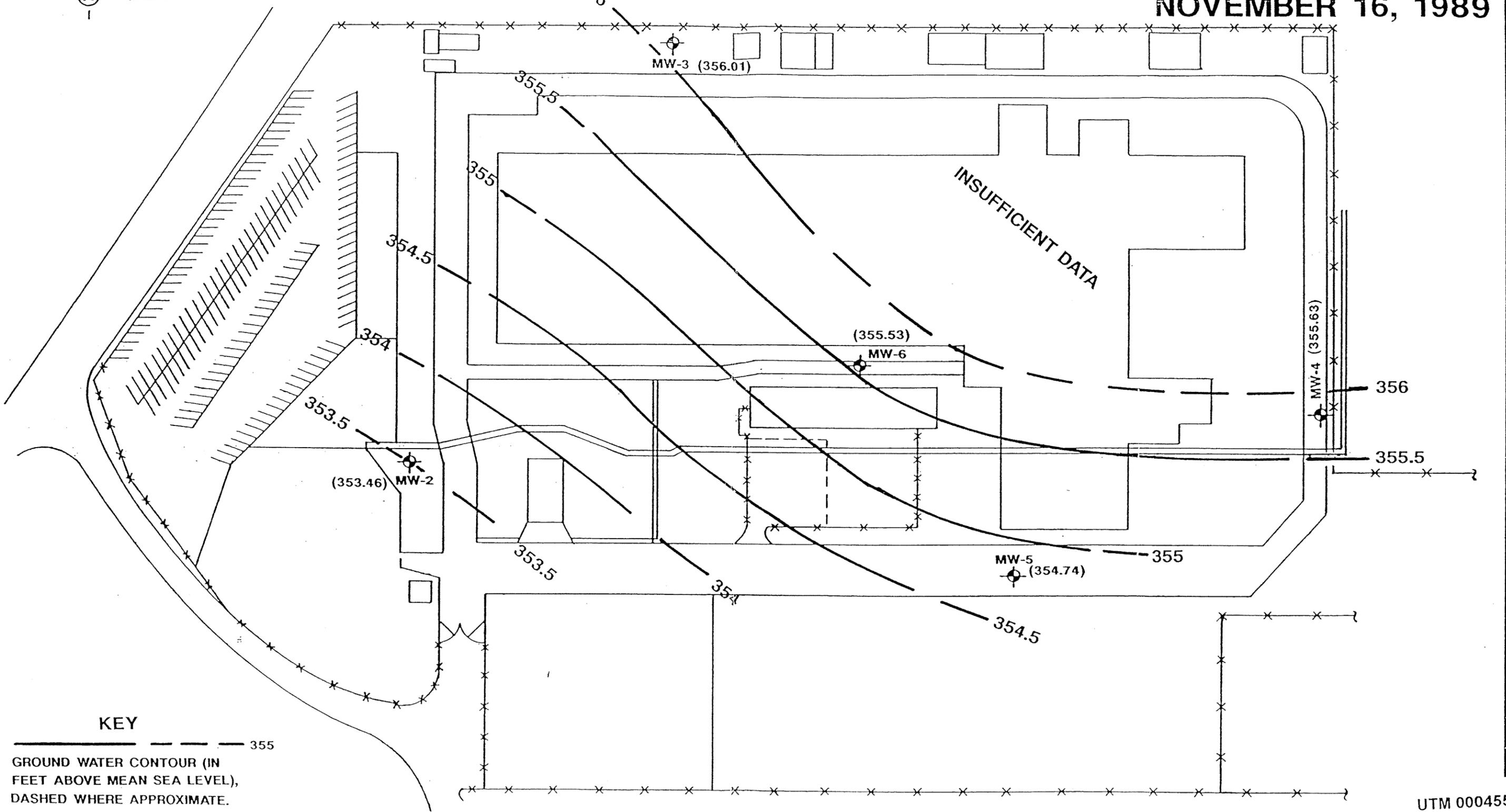
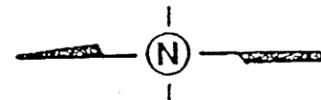
**UTILITY TRAILER MANUFACTURING, CO**  
 1730 E. CHESTNUT STREET  
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 3

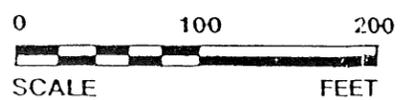
UTM 000454

# GROUND WATER PIEZOMETRIC SURFACE NOVEMBER 16, 1989



### KEY

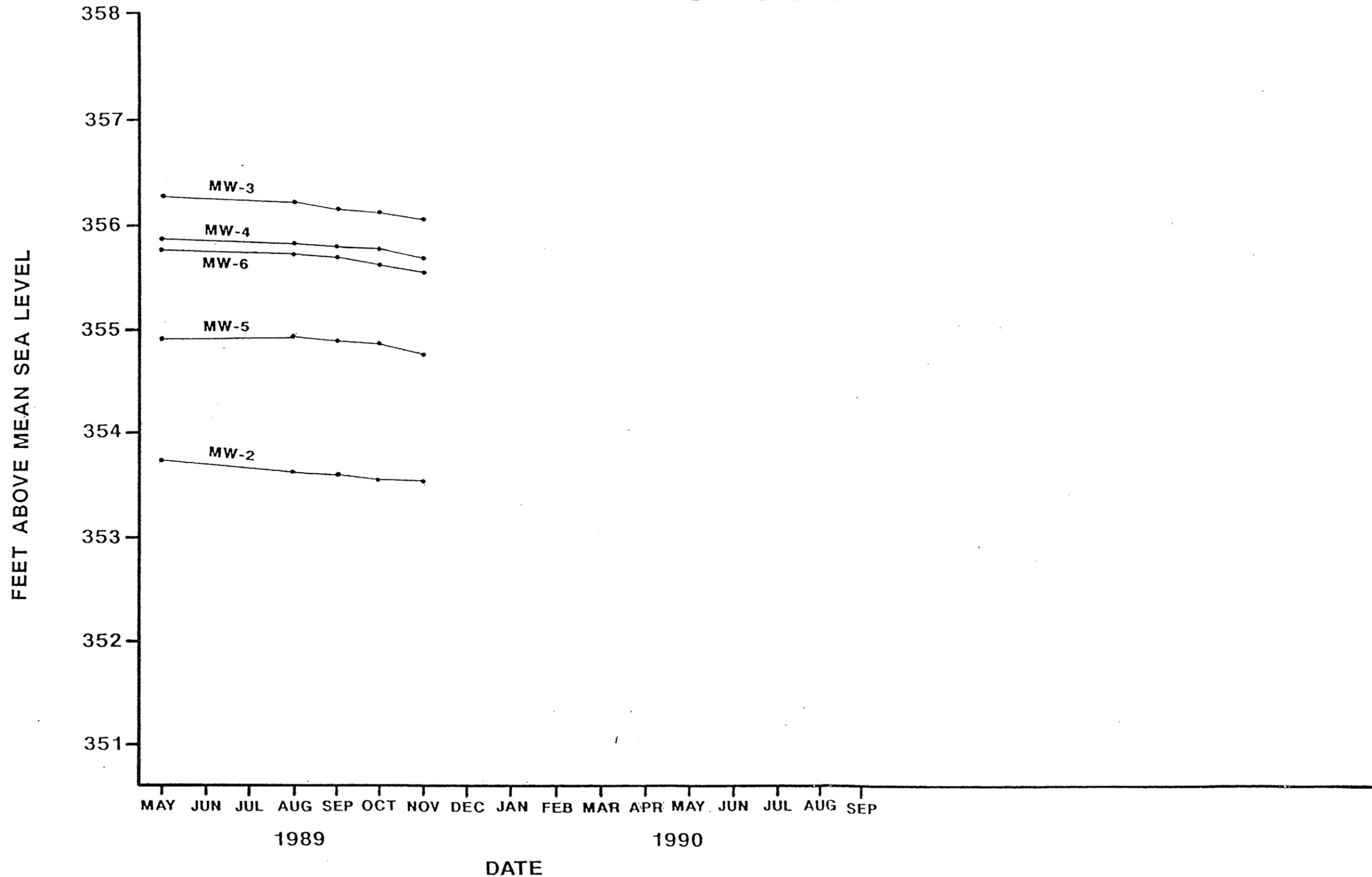
— 355 —  
 GROUND WATER CONTOUR (IN FEET ABOVE MEAN SEA LEVEL),  
 DASHED WHERE APPROXIMATE.



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	Project No.: 1614-06	Figure No.: 4

UTM 000455

# GROUND WATER ELEVATION HYDROGRAPH



UTM 000456

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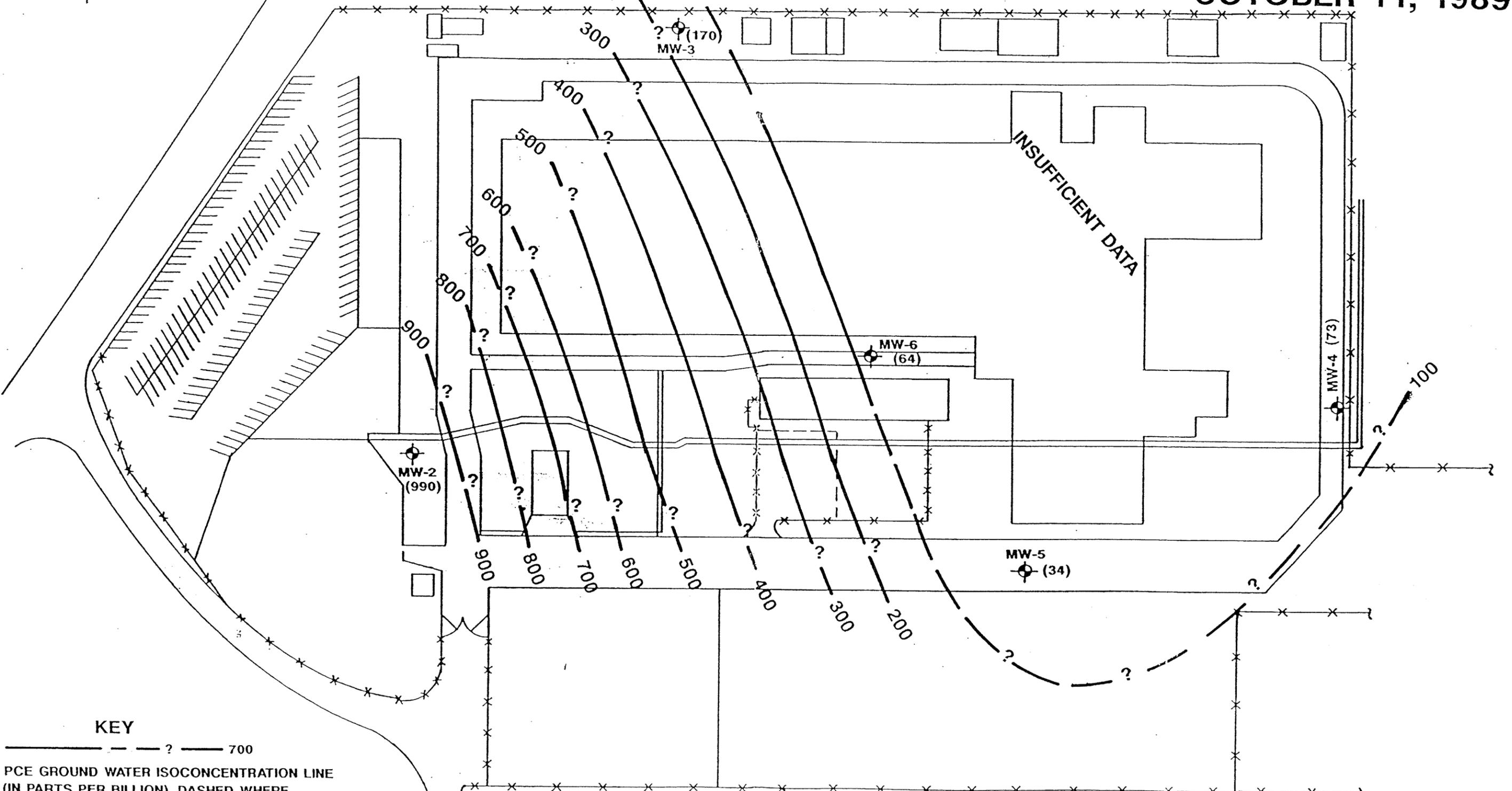
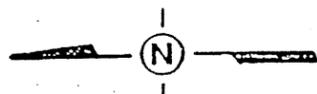


**UTILITY TRAILER MANUFACTURING**  
1730 E. CHESTNUT STREET  
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 5

# PCE ISOCONCENTRATION MAP OCTOBER 11, 1989



### KEY

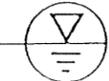
— ? — 700  
 PCE GROUND WATER ISOCONCENTRATION LINE  
 (IN PARTS PER BILLION), DASHED WHERE  
 APPROXIMATE, QUERIED WHERE UNCERTAIN.



UTM 000457

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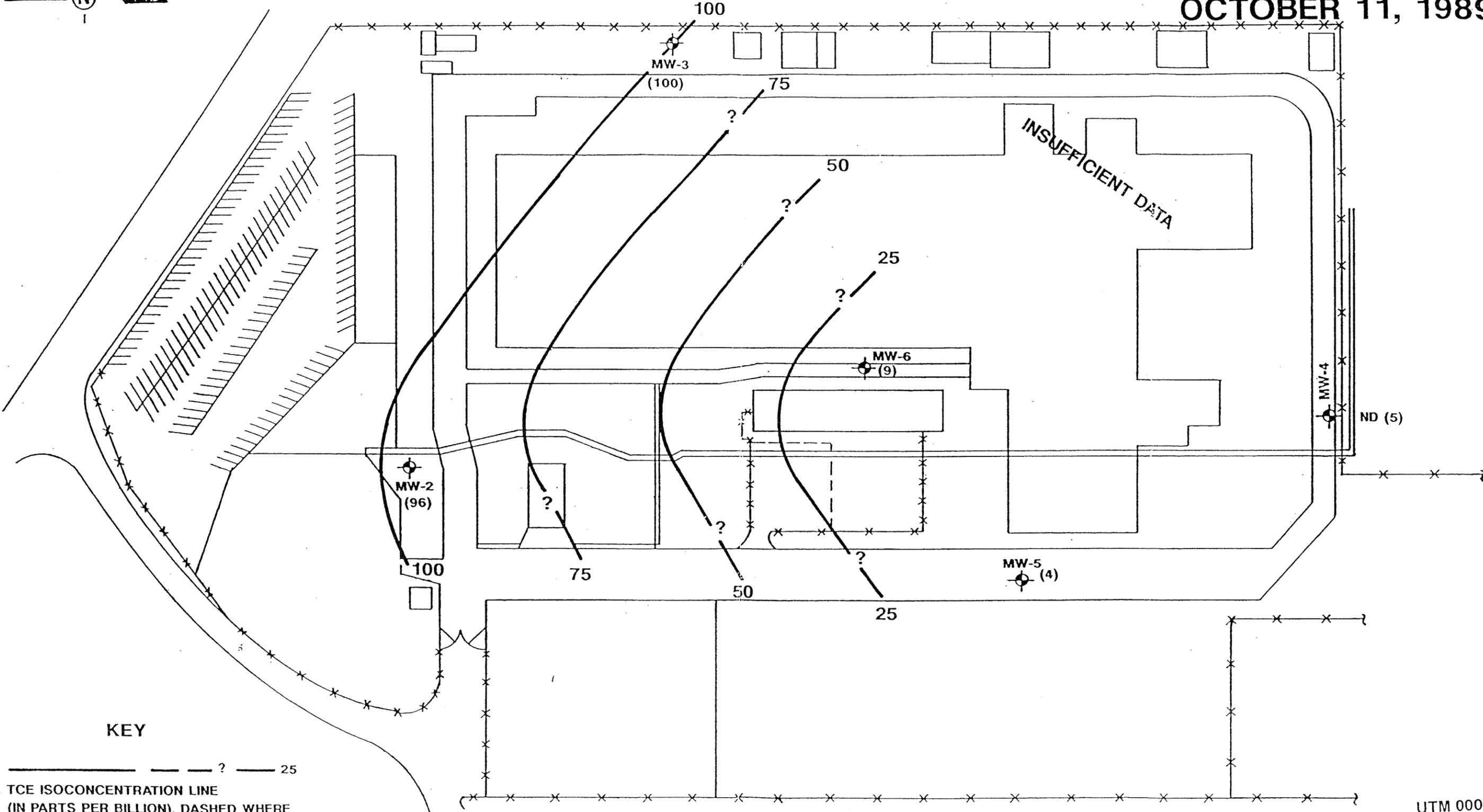
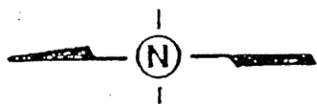


UTILITY TRAILER MANUFACTURING, CO  
 1730 E. CHESTNUT STREET  
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

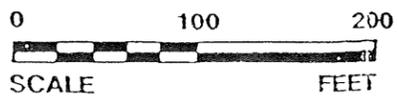
Figure No.: 6

# TCE ISOCONCENTRATION MAP OCTOBER 11, 1989



### KEY

— ? — 25  
 TCE ISOCONCENTRATION LINE  
 (IN PARTS PER BILLION), DASHED WHERE  
 APPROXIMATE, QUERIED WHERE UNCERTAIN.



UTM 000458

**HYDRO-FLUENT, INC.**  
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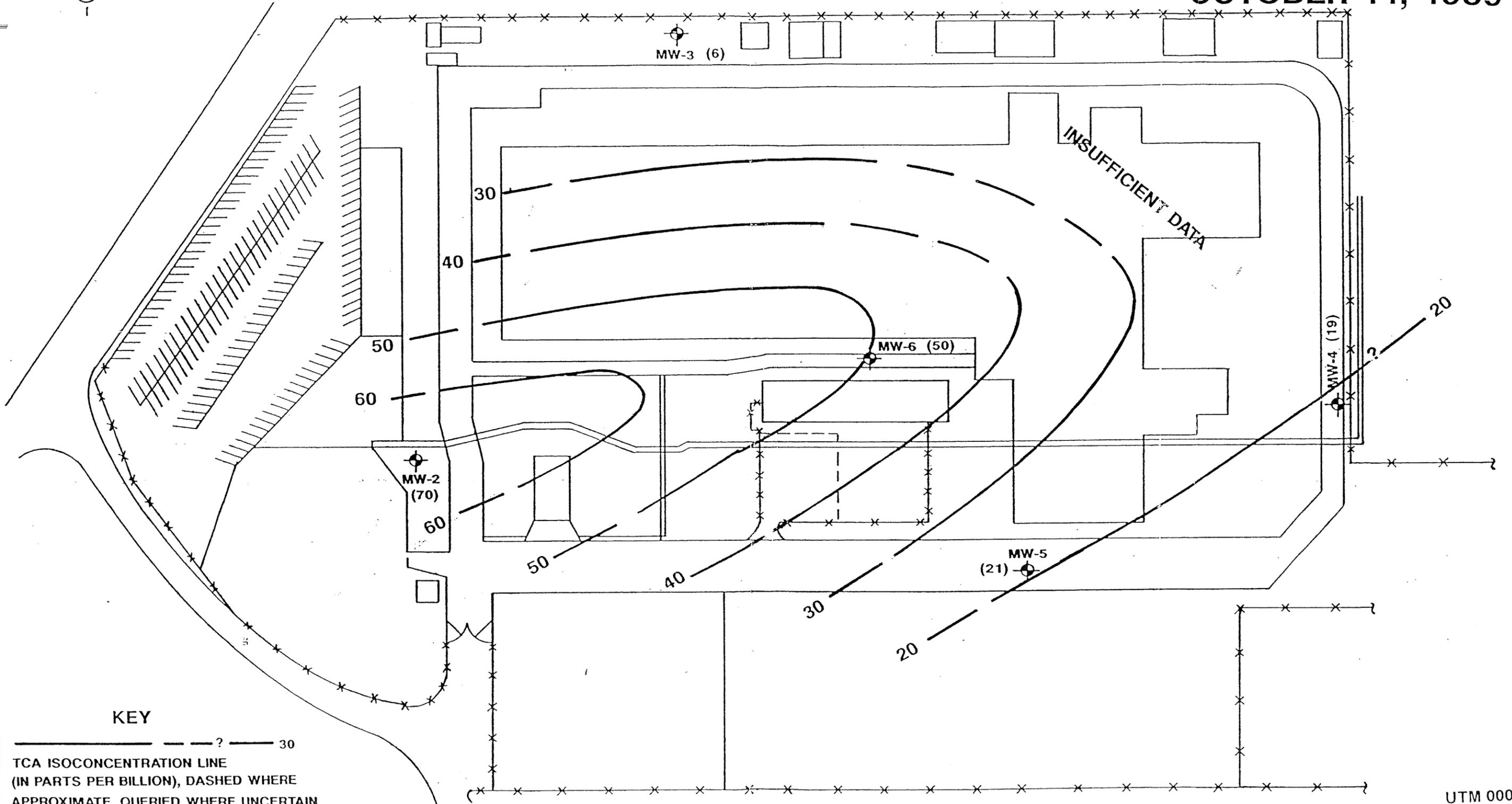
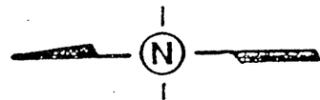


**UTILITY TRAILER MANUFACTURING, CO**  
 1730 E. CHESTNUT STREET  
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

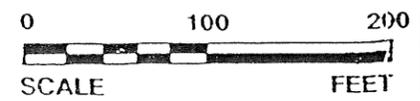
Figure No.: 7

# TCA ISOCONCENTRATION MAP OCTOBER 11, 1989



### KEY

TCA ISOCONCENTRATION LINE  
 (IN PARTS PER BILLION), DASHED WHERE  
 APPROXIMATE, QUERIED WHERE UNCERTAIN.



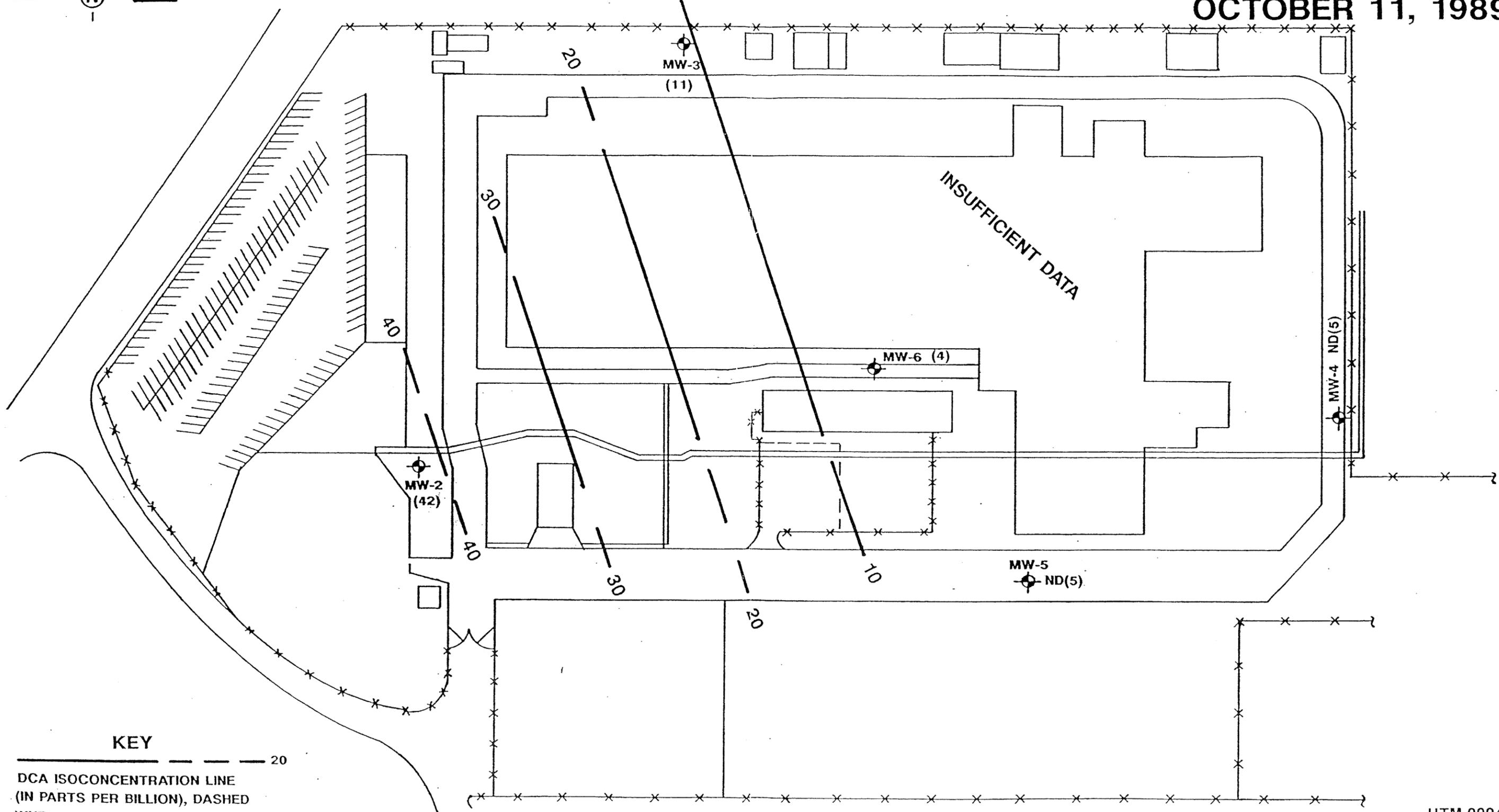
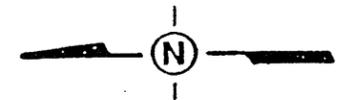
**HYDRO-FLUENT, INC.**  
 geology • engineering • environmental services

**UTILITY TRAILER MANUFACTURING, CO**  
 1730 E. CHESTNUT STREET  
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06      Figure No.: 8

UTM 000459

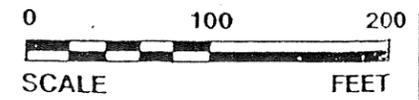
# DCA ISOCONCENTRATION MAP OCTOBER 11, 1989



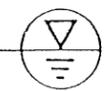
**KEY**

— 20 —

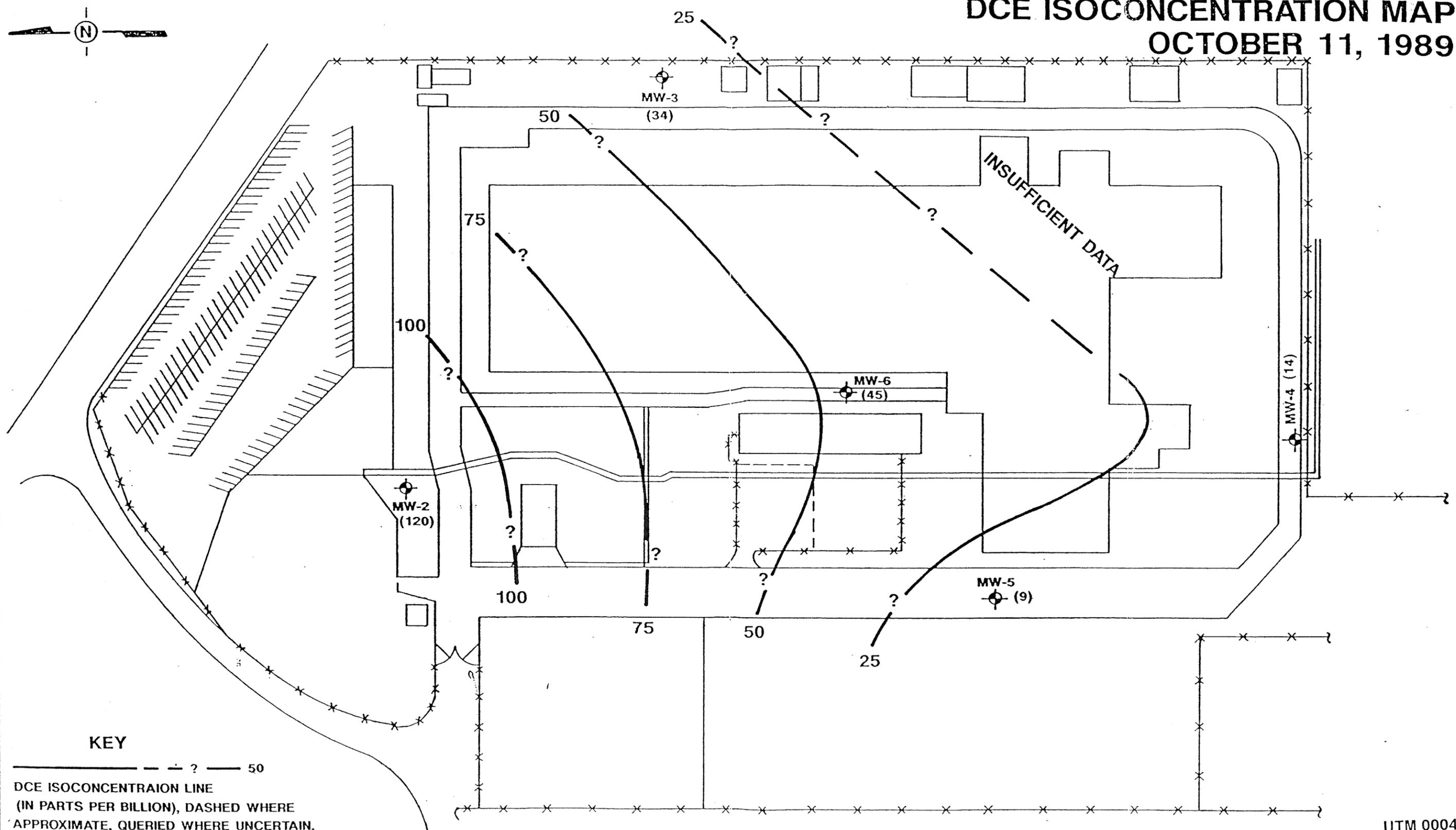
DCA ISOCONCENTRATION LINE  
(IN PARTS PER BILLION), DASHED  
WHERE APPROXIMATE.



UTM 000460

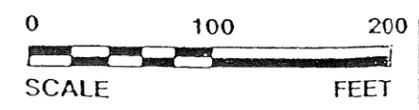
<b>HYDRO-FLUENT, INC.</b> <small>geology • engineering • environmental services</small> 	<b>UTILITY TRAILER MANUFACTURING, CO</b> 1730 E. CHESTNUT STREET CITY OF INDUSTRY, CALIFORNIA	
	Project No.: 1614-06	Figure No.: 9

# DCE ISOCONCENTRATION MAP OCTOBER 11, 1989

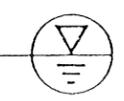


### KEY

DCE ISOCONCENTRATION LINE  
 (IN PARTS PER BILLION), DASHED WHERE  
 APPROXIMATE, QUERIED WHERE UNCERTAIN.



**HYDRO-FLUENT, INC.**  
geology • engineering • environmental services



**UTILITY TRAILER MANUFACTURING, CO**  
1730 E. CHESTNUT STREET  
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 10

UTM 000461

APPENDIX A  
CHAIN OF CUSTODY FORMS  
AND  
LABORATORY ANALYSES

UTM 000462













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 The Earth Technology  
Corporation

Analytical Laboratories

2705 Santa Ana Ave.

Orange, CA 92666

Phone: (714) 771-7000 Fax: (714) 771-7001

L A B O R A T O R Y   R E P O R T

Report to: Hydro-Fluent, Inc.  
701 East Ball Road, Suite 105  
Anaheim, CA 92805

Project Name: Utility Trailer

Project No.: 1614

Laboratory No.: 01835

Report Date: 10-27-89

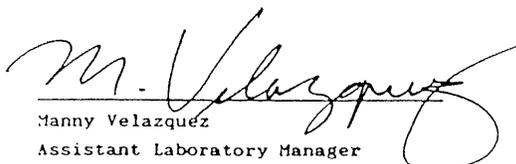
Attention: Stan Popelar

Received Date: 10-12-89

Sample Description: Three Water Samples

Testing Methods: Volatile Organics Analysis/GC-MS; EPA Method 624

Results for the three 624 analyses are given on the following summary sheet(s).

  
Manny Velazquez  
Assistant Laboratory Manager

  
Val Mallari  
Technical Director

UTM 000469

Analytical Laboratories

ANALYTICAL RESULTS SUMMARY  
Volatile Organics Analysis - EPA Method 8240

Laboratory Job No.: 01835  
Date Collected: 10-12-89  
Date Received (in lab): 10-13-89  
Date Analyzed: 10-23-89  
Sample Matrix: Water

Client Name: Hydro-Fluent  
Client Project No.: 1614  
Project Name: Utility Trailer

Laboratory Sample No.: 01835-001  
Client Sample No.: MW-2

<u>Compound Name</u>	<u>Detection Limit (ug/L )</u>	<u>Results (ug/L )</u>
Chloromethane	10	ND
Bromomethane	5	ND
Vinyl Chloride	5	ND
Chloroethane	5	ND
Methylene Chloride	5	ND
Acetone	10	ND
Carbon Disulfide	10	ND
Trichlorofluoromethane	5	17
1,1-Dichloroethene	5	120
1,1-Dichloroethane	5	42
trans-1,2-Dichloroethene	5	13
Chloroform	5	ND
1,2-Dichloroethane	5	ND
2-Butanone (MEK)	10	ND
1,1,1-Trichloroethane	5	70
Carbon Tetrachloride	5	ND
Vinyl Acetate	10	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
Trichloroethene	5	96
Benzene	5	ND
Chlorodibromomethane	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
2-Chloroethyl vinyl ether	5	ND
Bromoform	5	ND
4-Methyl-2-Pentanone (MIBK)	10	ND
2-Hexanone (MBK)	10	ND
Tetrachloroethene	5	990
1,1,2,2-Tetrachloroethane	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
Ethyl Benzene	5	ND
Styrene	10	ND
m-Xylene	5	ND
o&p-Xylene	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND

ND = Not Detected

UTM 000470

Analytical Laboratories

10000 10th Street

Houston, Texas 77036

Telephone: (713) 865-8800

## ANALYTICAL RESULTS SUMMARY

Volatile Organics Analysis - EPA Method 8240

 Laboratory Job No.: 01835  
 Date Collected: 10-12-89  
 Date Received (in lab): 10-13-89  
 Date Analyzed: 10-23-89  
 Sample Matrix: Water

 Client Name: Hydro-Fluent  
 Client Project No.: 1614  
 Project Name: Utility Trailer  
 Laboratory Sample No.: 01835-002  
 Client Sample No.: MW-3

Compound Name	Detection Limit (ug/L)	Results (ug/L)
Chloromethane	10	ND
Bromomethane	5	ND
Vinyl Chloride	5	ND
Chloroethane	5	ND
Methylene Chloride	5	ND
Acetone	10	ND
Carbon Disulfide	10	ND
Trichlorofluoromethane	5	31
1,1-Dichloroethene	5	34
1,1-Dichloroethane	5	11
trans-1,2-Dichloroethene	5	20
Chloroform	5	ND
1,2-Dichloroethane	5	ND
2-Butanone (MEK)	10	ND
1,1,1-Trichloroethane	5	6.0
Carbon Tetrachloride	5	ND
Vinyl Acetate	10	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
Trichloroethene	5	100
Benzene	5	ND
Chlorodibromomethane	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
2-Chloroethyl vinyl ether	5	ND
Bromoform	5	ND
4-Methyl-2-Pentanone (MIBK)	10	ND
2-Hexanone (MBK)	10	ND
Tetrachloroethene	5	170
1,1,2,2-Tetrachloroethane	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
Ethyl Benzene	5	ND
Styrene	10	ND
m-Xylene	5	ND
o&p-Xylene	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND

ND = Not Detected

UTM 000471

Analytical Laboratories  
5702 Bosa Avenue  
Burlington, North Carolina 27217  
Telephone: (704) 992-2121

ANALYTICAL RESULTS SUMMARY  
Volatile Organics Analysis - EPA Method 8240

Laboratory Job No.: 01835  
Date Collected: 10-12-89  
Date Received (in lab): 10-13-89  
Date Analyzed: 10-23-89  
Sample Matrix: Water

Client Name: Hydro-Fluent  
Client Project No.: 1614  
Project Name: Utility Trailer

Laboratory Sample No.: 01835-003  
Client Sample No.: Field Blank

<u>Compound Name</u>	<u>Detection Limit (ug/L)</u>	<u>Results (ug/L)</u>
Chloromethane	10	ND
Bromomethane	5	ND
Vinyl Chloride	5	ND
Chloroethane	5	ND
Methylene Chloride	5	ND
Acetone	10	ND
Carbon Disulfide	10	12
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
trans-1,2-Dichloroethene	5	ND
Chloroform	5	ND
1,2-Dichloroethane	5	ND
2-Butanone (MEK)	10	ND
1,1,1-Trichloroethane	5	ND
Carbon Tetrachloride	5	ND
Vinyl Acetate	10	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
Trichloroethene	5	ND
Benzene	5	ND
Chlorodibromomethane	5	ND
trans-1,3-Dichloropropene	5	ND
1,1,2-Trichloroethane	5	ND
2-Chloroethyl vinyl ether	5	ND
Bromoform	5	ND
4-Methyl-2-Pentanone (MIBK)	10	ND
2-Hexanone (MBK)	10	ND
Tetrachloroethene	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
Ethyl Benzene	5	ND
Styrene	10	ND
m-Xylene	5	ND
o&p-Xylene	5	ND
1,3-Dichlorobenzene	5	ND
1,2-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND

ND = Not Detected

UTM 000472

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THE ENVIRONMENTAL  
CORPORATION

LABORATORY REPORT

Report to: Hydro-Fluent, Inc.  
701 East Ball Road, Suite 105  
Anaheim, CA 92805

Project Name: Utility Trailer

Project No.: 1641-02

Laboratory No.: 01829

Report Date: 10-23-89

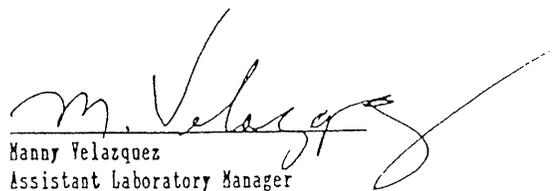
Received Date: 10-11-89

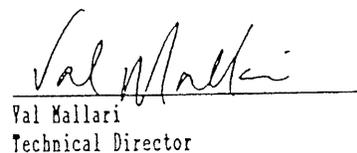
Attention: Stan Popelar

Sample Description: Three Water Samples

Testing Method: Volatile Organics Analysis/GC-MS; EPA Method 624

Results for the three 624 analyses are given on the following summary sheet(s).

  
Manny Velazquez  
Assistant Laboratory Manager

  
Val Mallari  
Technical Director

UTM 000473

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
EPA METHOD 624

CLIENT SAMPLE NO.

MW-4

Lab Name:=== ETAL ===

Lab Sample No.: 1829-001

Client: HYDRO FLUENT

Data File: >2AOD1

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 10/11/89

Analyst: JANET

Date Analyzed: 10/21/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
75-69-4	-----Trichlorofluoromethane	10.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	4.	■T
156-60-5	-----Trans-1,2-Dichloroethene	5.	U
75-35-4	-----1,1-Dichloroethene	14.	■
75-34-3	-----1,1-Dichloroethane	5.	U
67-66-3	-----Chloroform	5.	U
107-02-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	19.	■
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
108-10-1	-----4-Methyl-2-pentanone	10.	U
591-78-6	-----2-Hexanone	10.	U
127-18-4	-----Tetrachloroethene	73.	■
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	2.	■T
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
133-02-7	-----Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.  
T = Trace. Amount shown is approximate and below quantification limit.  
■ = Compound was found in sample.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
EPA METHOD 624

CLIENT SAMPLE NO.

MW-5
------

Lab Name:=== ETAL ===

Lab Sample No.: 1829-002

Client: HYDRO FLUENT

Data File: >2AOD2

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 10/11/89

Analyst: JANET

Date Analyzed: 10/21/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
75-69-4	-----Trichlorofluoromethane	10.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	7.	■
156-60-5	-----Trans-1,2-Dichloroethene	5.	U
75-35-4	-----1,1-Dichloroethene	9.	■
75-34-3	-----1,1-Dichloroethane	5.	U
67-66-3	-----Chloroform	2.	■T
107-02-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	21.	■
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	4.	■T
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
108-10-1	-----4-Methyl-2-pentanone	10.	U
591-78-6	-----2-Hexanone	10.	U
127-18-4	-----Tetrachloroethene	34.	■
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
133-02-7	-----Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.  
T = Trace. Amount shown is approximate and below quantification limit.  
■ = Compound was found in sample.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
EPA METHOD 624

CLIENT SAMPLE NO.

MW-6

Lab Name:=== ETAL ===

Lab Sample No.: 1829-003

Client: HYDRO FLUENT

Data File: >2AOD3

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 10/11/89

Analyst: JANET

Date Analyzed: 10/21/89

Dilution Factor: 1.00000

CONCENTRATION

UNITS:

ug/L

Q

CAS NO.	COMPOUND	CONCENTRATION ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	7.	■
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	45.	■
75-34-3	1,1-Dichloroethane	4.	■T
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	50.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	9.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	64.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	1.	■T
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.  
T = Trace. Amount shown is approximate and below quantification limit.  
■ = Compound was found in sample.

APPENDIX B  
UNIFORM HAZARDOUS WASTE MANIFEST

UTM 000477

## REFERENCES

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<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>CAD990883177</i>		Manifest Document No. <i>CA080015116</i>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <i>UTILITY TRAILER MANUFACTURING INC. 17300 EAST CHESTNUT ST. CITY OF INDUSTRY, CA. 91749</i>						A. State Manifest Document Number <b>89600861</b>							
4. Generator's Phone ( )						B. State Generator's ID							
5. Transporter 1 Company Name <i>NIETO AND SONS TRUCKING</i>			6. US EPA ID Number <i>CAT080015116</i>			C. State Transporter's ID <i>008263</i>		D. Transporter's Phone <i>714-990-6855</i>					
7. Transporter 2 Company Name						E. State Transporter's ID		F. Transporter's Phone					
9. Designated Facility Name and Site Address <i>GIBSON OIL REFINERY COMMERCIAL DRIVE BAKERSFIELD, CA 93308</i>						10. US EPA ID Number <i>CAD990883177</i>		G. State Facility's ID					
						H. Facility's Phone <i>805-327-0413</i>							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <i>CALIFORNIA REGULATED WASTE ONLY</i>						<i>0 DILT T - 1100 G</i>						State <i>241</i>	
b.												EPA/Other <i>EXEMPT</i>	
c.												State	
d.												EPA/Other	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
<i>HYDROCARBONS 5 %</i>													
<i>WATER 90 %</i>													
<i>SOLIDS 5 %</i>													
15. Special Handling Instructions and Additional Information													
<i>DEMMONO KARDOON CAD080013352</i>						<i>PETROLEUM RECYCLERS INC. CAT080011059</i>							
<i>2000 N. ALAMEDA 213-537-7100</i>						<i>1835 E. 29th STREET 213-595-6597</i>							
<i>COMPTON, CA 90222</i>						<i>SIGNAL HILL, CA 90806</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Jim Crowe</i>				Month Day Year <i>1/11/89</i>					
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature <i>Ronnie Roubiliez</i>				Month Day Year <i>1/11/89</i>					
19. Discrepancy Indication Space								<b>UTM 000479</b>					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name				Signature				Month Day Year					

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650  
 GENERATOR  
 TRANSPORTER  
 FACILITY

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS  
 To: P.O. Box 400 Sacramento CA 95812-0400

REFERENCES

UTM 000480