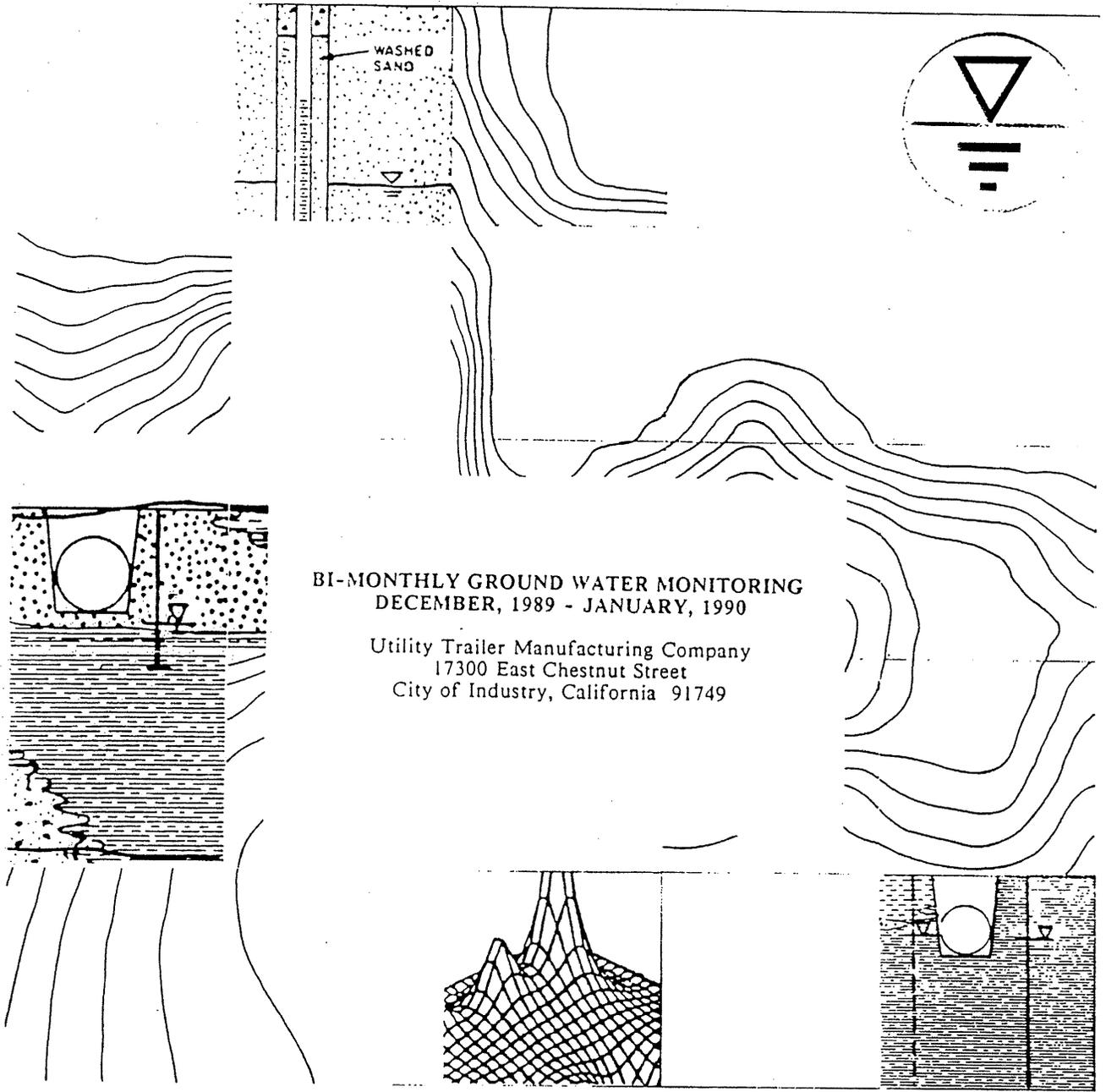


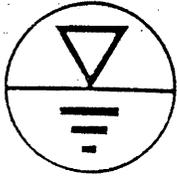
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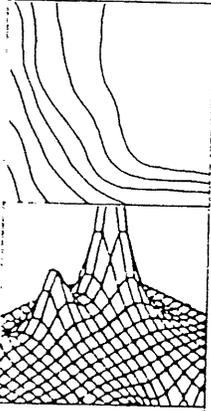
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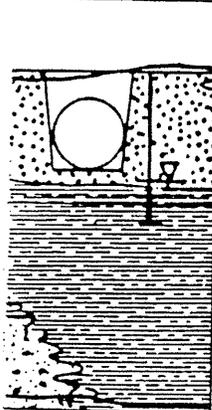
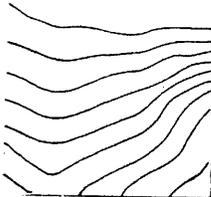
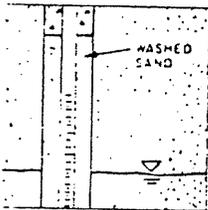
Prepared for:

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

Attention: Mr. Gary Little

BI-MONTHLY GROUND WATER MONITORING
DECEMBER, 1989 - JANUARY, 1990

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



HFR00004.090

Project Number 1614-06

January 30, 1990

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UTM 000482

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BI-MONTHLY GROUND WATER MONITORING
DECEMBER, 1989 - JANUARY, 1990
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 December, 1989 and January, 1990 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 0.005 feet per foot and a northwesterly flow direction.

Seven 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, which is consistent with the distribution patterns observed during previous sampling periods. Detected Site maximum concentrations of tetrachloroethene, trichloroethene, 1,1,1 trichloroethane, 1,1 dichloroethene, and 1,1 dichloroethane were lower than those observed from the October, 1989 sampling.

UTM 000485

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 December, 1989 and January, 1990.

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 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 December 11, 1989 and again on January 15, 1990 (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 354 feet above mean sea level with an average gradient of 0.005 feet per foot and a northwesterly flow direction. From December 11, 1989 to January 15, 1990 the ground water surface generally remained at the same elevation (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 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 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 "MW-7". 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 seven volatile halogenated hydrocarbon compounds. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), 1,1 dichloroethane (DCA), 1,1 dichloroethene (DCE), chloroform, and trichlorofluoromethane (Freon 11). All of these compounds have been previously detected in Site ground water.

The highest concentrations of halogenated hydrocarbons were detected in samples collected from monitoring wells MW-2 and MW-3, in which MW-2 concentrations were higher for all analytes except TCE (See Tables 2 and 3). Ground water collected from MW-2 contained an estimated concentration of 910 parts per billion (ppb) of PCE, 65 ppb of TCE, 64 ppb of TCA, 22 ppb of DCA, 110 ppb of DCE, and detectable trace amounts of chloroform and Freon 11 (approximately 3 and 8 ppb, respectively). Chemical analysis of samples collected from MW-3 contained 330 ppb of PCE, 80 ppb of TCE, and detectable trace amounts of TCA and DCE (approximately 16 ppb and 15 ppb, respectively).

Concentrations of halogenated hydrocarbons detected at monitoring wells MW-4, MW-5, and MW-6 were generally lower than those detected at monitoring wells MW-2 and MW-3 (See Tables 4, 5, and 6). Chemical analysis of these samples detected concentrations of PCE ranging from 38 to 89 ppb, TCE concentrations ranging from detectable trace amounts (approximately 5 ppb) to 10 ppb, TCA concentrations ranging from 17 ppb to 43 ppb, DCA concentrations ranging from nondetected to trace amounts (approximately 4 ppb), and DCE concentrations ranging from nondetected to 39 ppb.

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 0.005 feet per foot and a northwesterly flow direction.

6.2 VOLATILE HYDROCARBON ANALYSIS

Seven volatile halogenated hydrocarbon compounds were detected in Site ground water samples. Generally, highest concentrations were detected in samples collected from monitoring wells MW-2 and MW-3. Maximum Site concentrations detected from MW-2 ground water were, 910 ppb of PCE, 64 ppb of TCA, 22 ppb of DCA, 110 ppb of DCE, 3 ppb of chloroform, and 8 ppb of Freon 11. A TCA Site maximum concentration of 80 ppb was detected in ground water samples collected from MW-3.

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).

Concentrations of detected volatile halogenated hydrocarbons were generally lower than those observed during the October, 1989 sampling, except for detected levels of PCE. Detected concentrations of PCE were higher at all sample localities except for MW-2, where the detected concentration was slightly lower than that observed in the previous sampling.

7.0 SCHEDULED WORK ACTIVITIES

Ground water sampling is tentatively scheduled for the middle of February, 1990. Ground water elevations will be measured during the sampling work and again in the middle of March, 1990. Purge water generated during December, 1989 and February, 1990 sampling work 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 prior to March 10, 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

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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)	
			12/11/90	01/15/90	12/11/89	01/15/90
MW-2	4,115,173.6537 / 4,310,197.4018	377.16	23.75	23.76	353.41	353.40
MW-3	4,114,893.3839 / 4,310,644.9150	378.56	22.57	22.57	355.99	355.99
MW-4	4,114,197.0643 / 4,310,242.6061	383.57	28.01	28.04	355.56	355.53
MW-5	4,114,527.5265 / 4,310,068.9473	381.15	26.50	26.52	354.65	354.63
MW-6	4,114,687.7317 / 4,310,297.7964	380.20	24.75	24.76	355.45	355.44

* 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

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)			
	5/10/89	8/29/89	10/12/89	12/12/89
VC	TR (3)	ND (10)	ND (5)	ND (10)
FREON 11	ND (5)	ND (5)	17	TR (8)
TRANS -1,2 DCE	ND (5)	ND (5)	13	ND (5)
DCE	480	26	120	110
DCA	72	9	42	22
CHLOROFORM	ND (5)	ND (5)	ND (5)	TR (3)
TCA	240	37	70	64
TCE	74	62	96	65
PCE	1100	150	990	E (910)

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (E) estimated concentration; (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 000494

TABLE 3

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-3

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)			
	5/11/89	8/29/89	10/12/89	12/12/89
FREON 11	5	ND (10)	31	ND(100)
TRANS-1,2 DCE	ND (5)	ND (5)	20	ND (50)
DCE	28	97	34	TR (15)
DCA	18	20	11	ND (50)
TCA	89	53	6	TR (16)
TCE	63	53	100	80
PCE	100	530	170	330

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.

UTM 000495

TABLE 4

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-4

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)			
	5/11/89	8/28/89	10/11/89	12/12/89
CARBON DISULFIDE	ND (5)	ND (5)	TR (4)	ND (50)
DCE	25	17	14	ND (50)
DCA	TR (2)	ND (5)	ND (5)	ND (50)
TCA	30	20	19	TR (17)
TCE	5	TR (3)	ND (5)	TR (23)
PCE	120	79	73	89
TOLUENE	ND (5)	ND (5)	TR (2)	ND (50)

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.

TABLE 5

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-5

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)			
	5/10/89	8/28/89	10/11/89	12/11/89
CARBON DISULFIDE	ND (5)	ND (5)	7	ND (5)
DCE	17	11	9	8
DCA	TR (2)	ND (5)	ND (5)	TR (1)
CHLOROFORM	ND (5)	ND (5)	TR (2)	ND (5)
TCA	32	20	21	17
TCE	6	TR (4)	TR (4)	TR (5)
PCE	48	32	34	38

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 000497

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	12/12/89
CARBON DISULFIDE	ND (5)	ND (5)	7	ND (5)
DCE	58	53	45	39
DCA	5	ND (5)	TR (4)	TR (4)
TCA	79	52	50	43
TCE	10	8	9	10
PCE	77	62	64	76
TOLUENE	ND (5)	ND (5)	TR (1)	ND (5)

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.

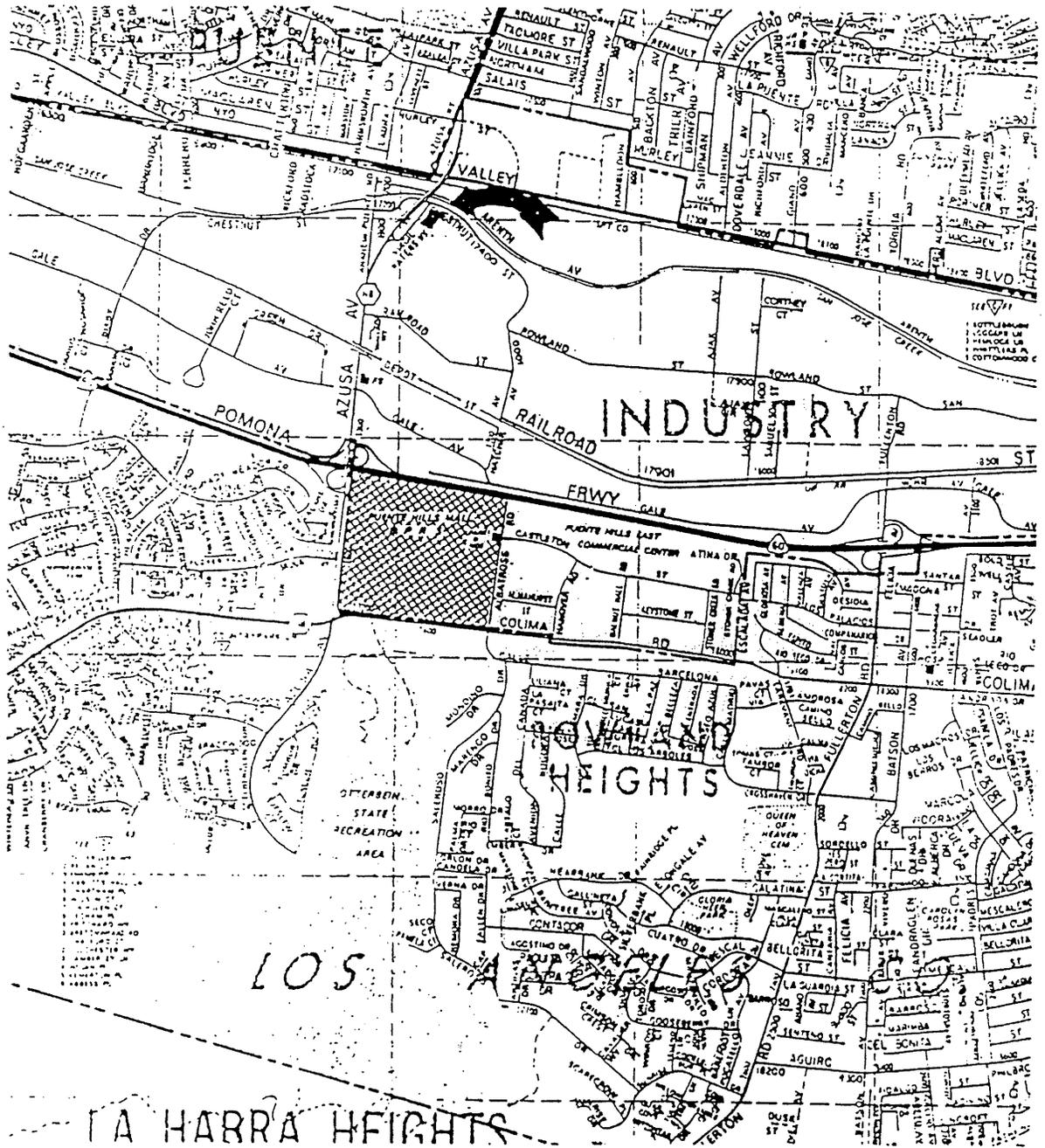
FIGURES

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SITE

LOCATION

MAP



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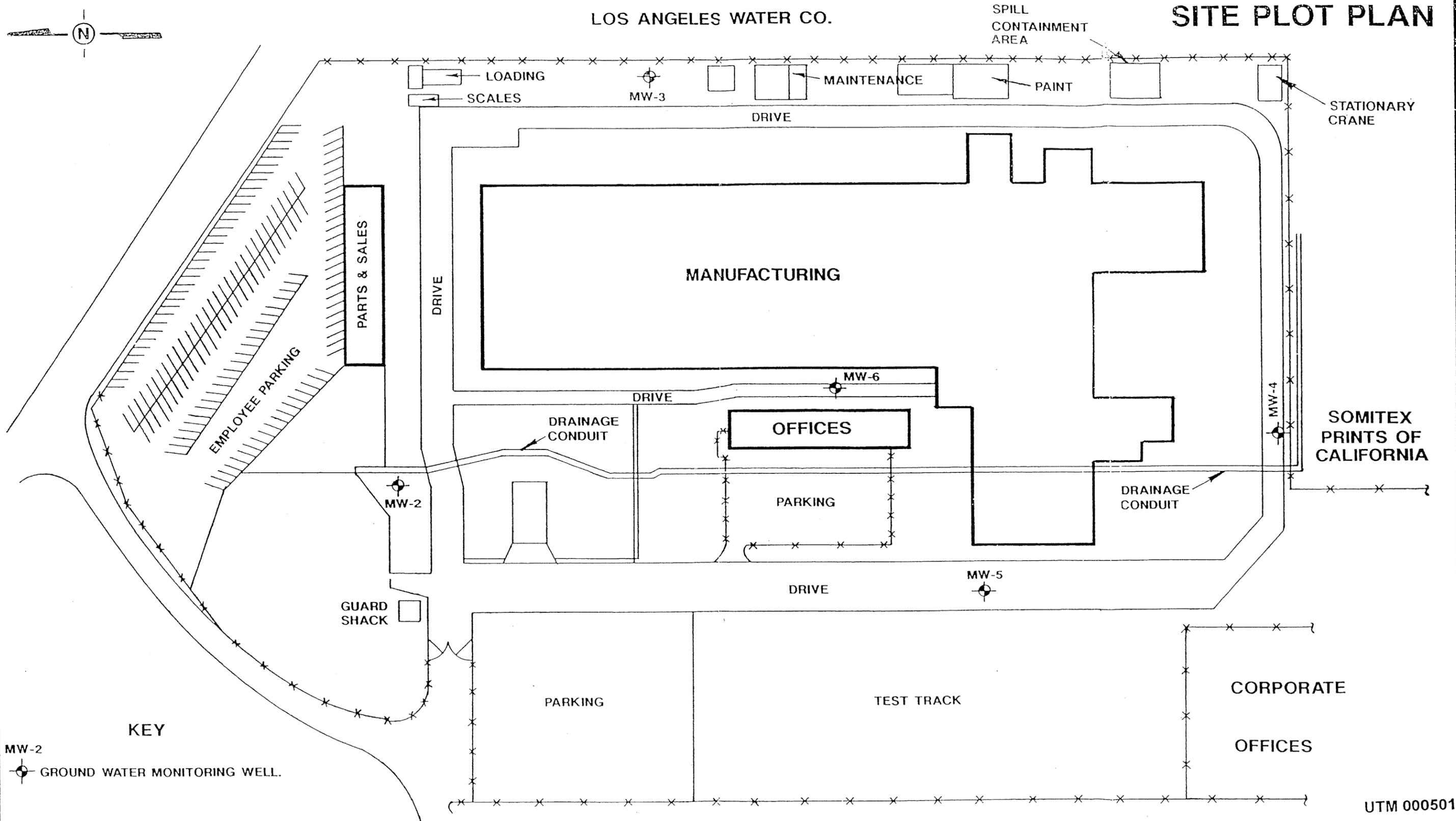
Project No.: 1614-06

Figure No.: 1

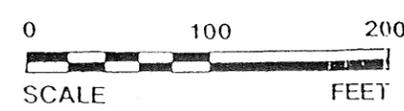
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LOS ANGELES WATER CO.

SITE PLOT PLAN



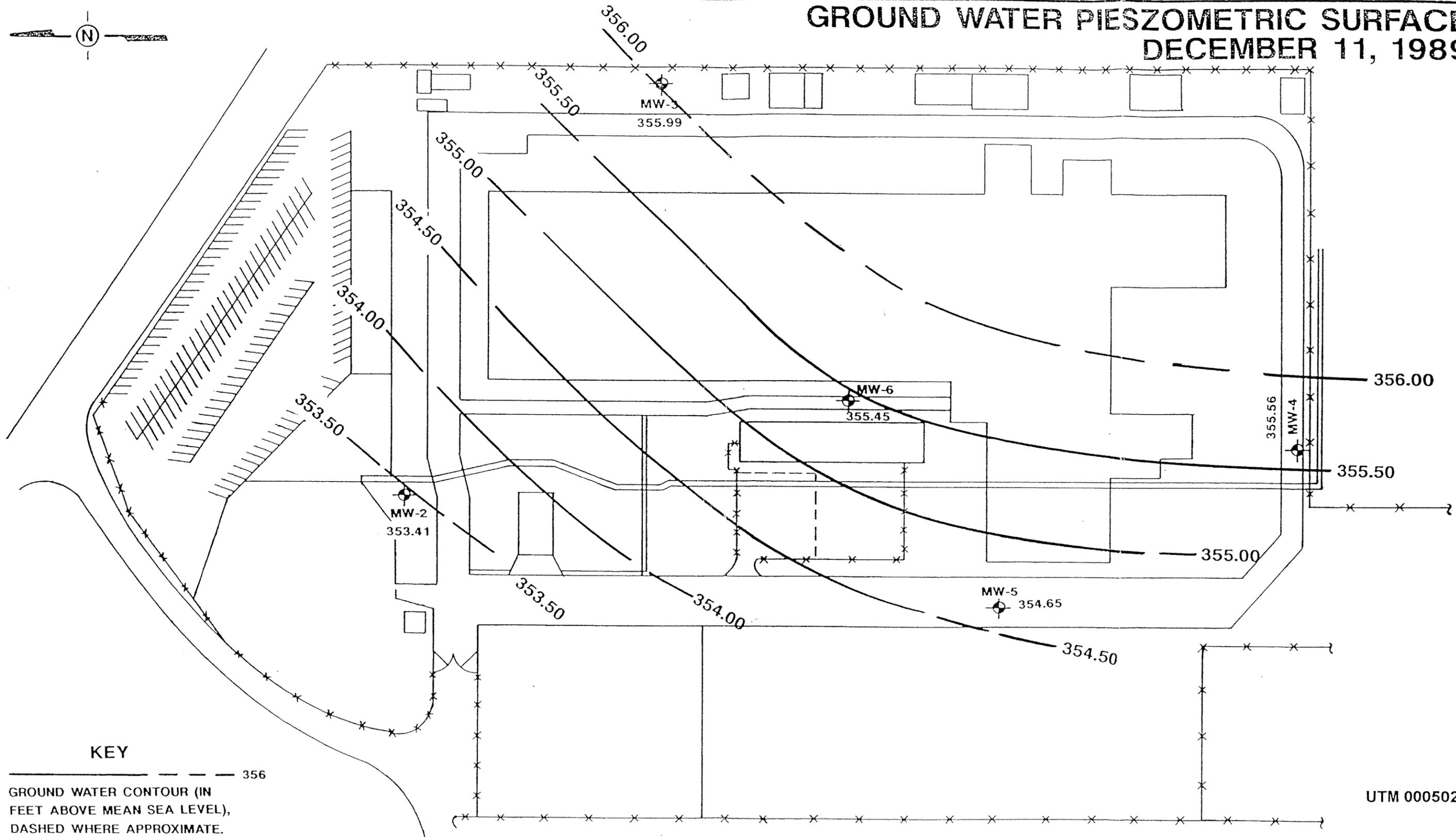
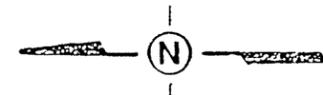
KEY
 MW-2
 GROUND WATER MONITORING WELL.



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

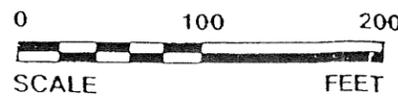
UTM 000501

GROUND WATER PIEZOMETRIC SURFACE DECEMBER 11, 1989



KEY

— — — — — 356
 GROUND WATER CONTOUR (IN FEET ABOVE MEAN SEA LEVEL),
 DASHED WHERE APPROXIMATE.



UTM 000502

JAN 1990

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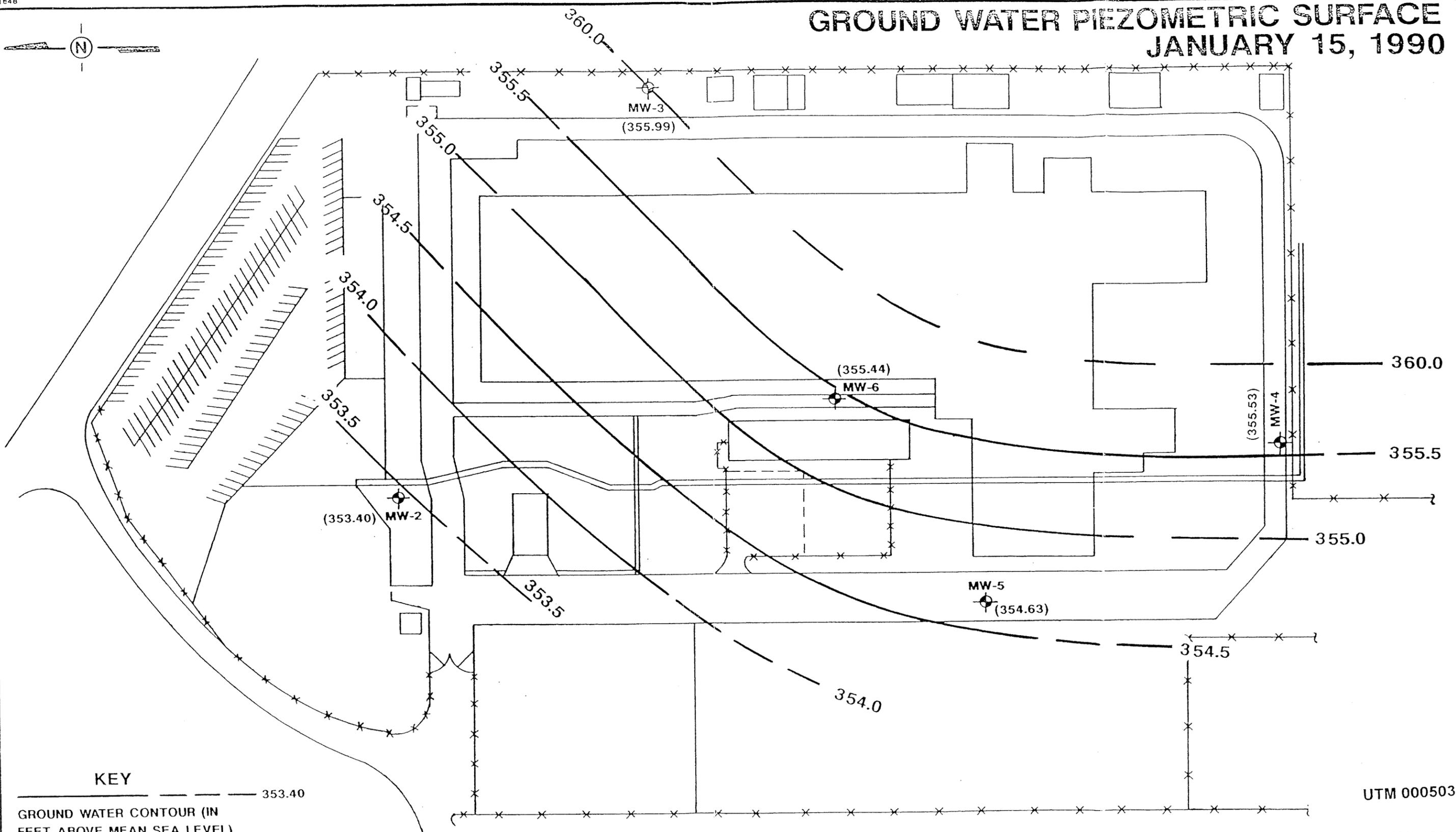
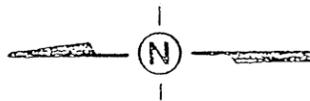


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 CITY OF INDUSTRY, CALIFORNIA

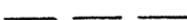
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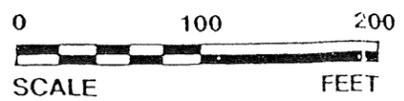
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GROUND WATER PIEZOMETRIC SURFACE JANUARY 15, 1990

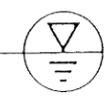


KEY

 353.40
 GROUND WATER CONTOUR (IN FEET ABOVE MEAN SEA LEVEL),
 DASHED WHERE APPROXIMATE.



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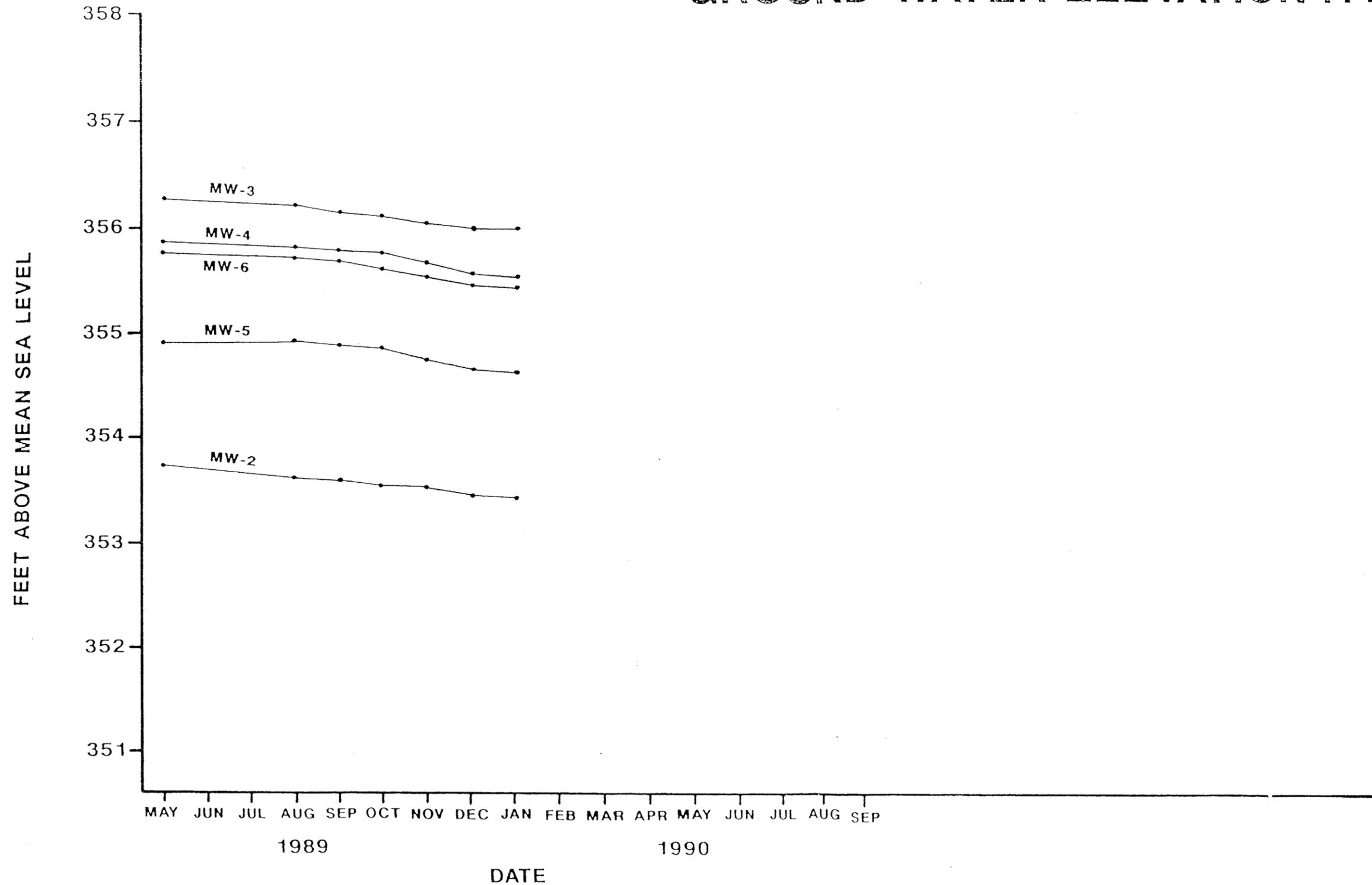
Project No.: 1614-06

Figure No.: 4

UTM 000503

JAN 1990

GROUND WATER ELEVATION HYDROGRAPH



UTM 000504

JAN 1990

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geology • engineering • environmental services

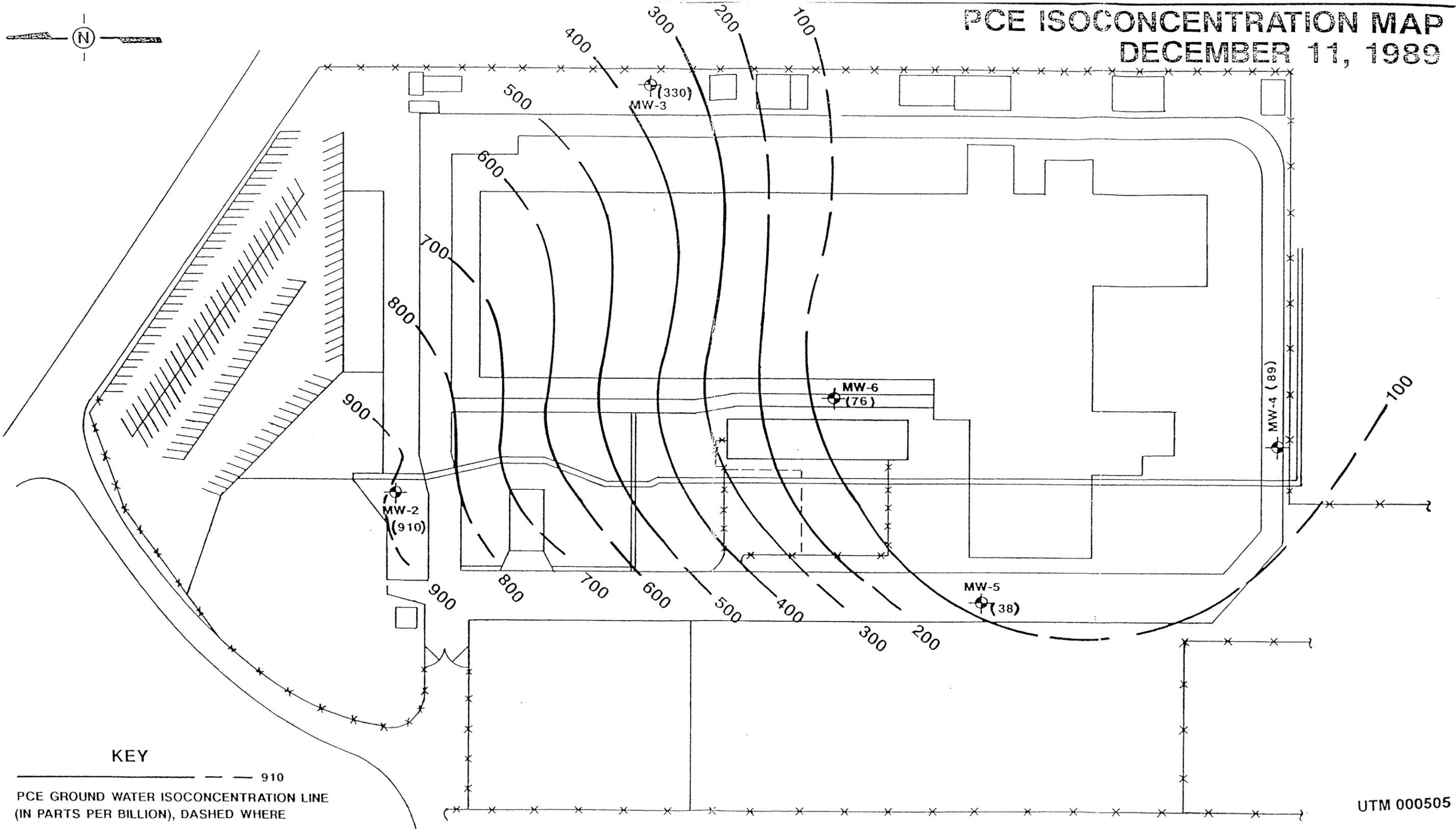
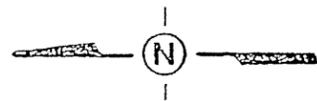


UTILITY TRAILER MANUFACTURING
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

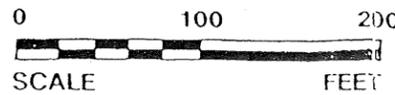
Figure No.: 5

PCE ISOCONCENTRATION MAP DECEMBER 11, 1989



KEY

— 910
PCE GROUND WATER ISOCONCENTRATION LINE
(IN PARTS PER BILLION), DASHED WHERE
APPROXIMATE.



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CITY OF INDUSTRY, CALIFORNIA

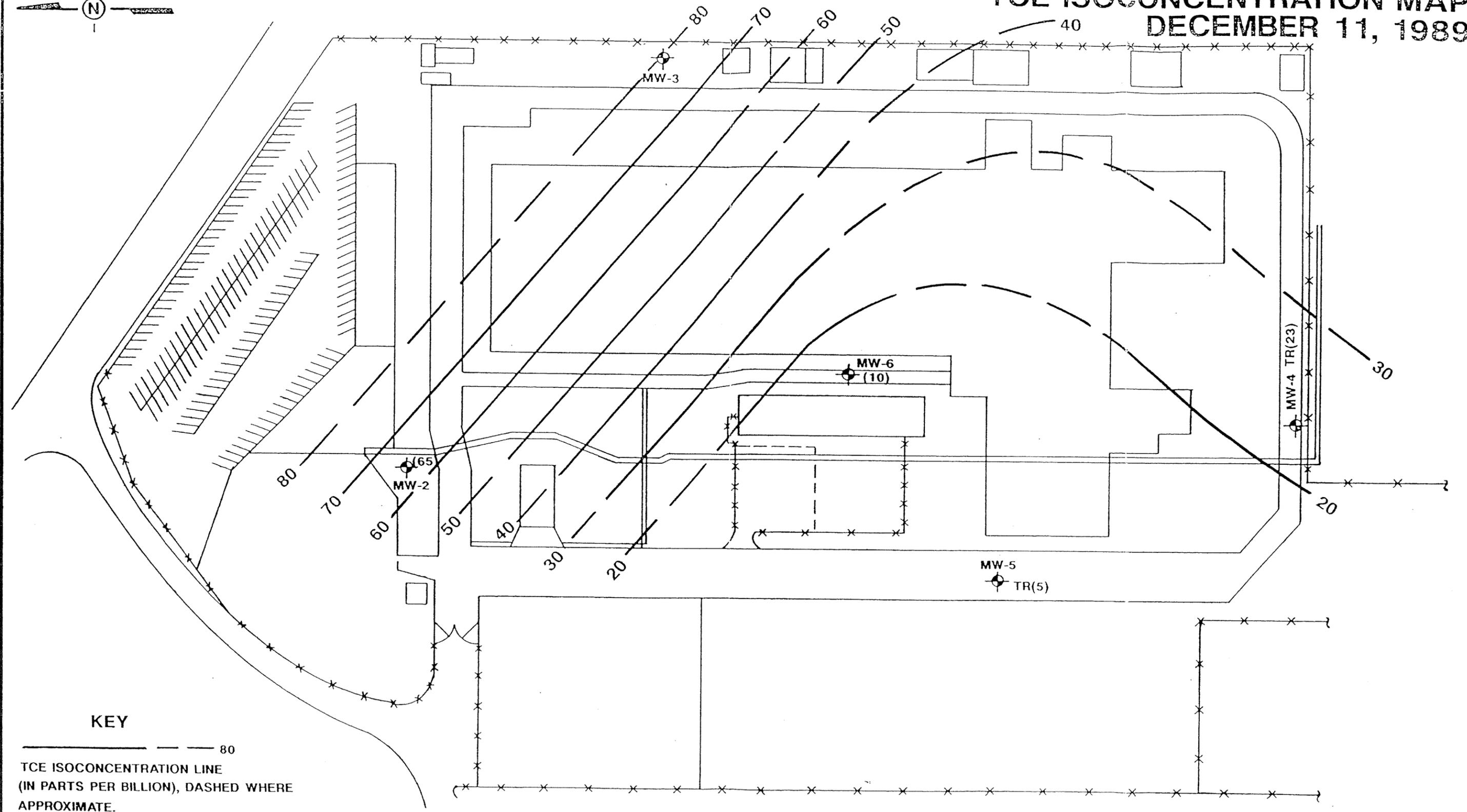
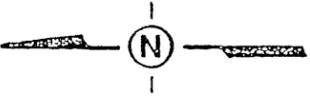
Project No.: 1614-06

Figure No.: 6

UTM 000505

JAN 1990

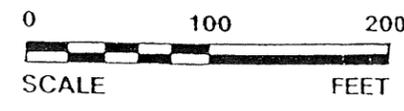
TCE ISOCONCENTRATION MAP DECEMBER 11, 1989



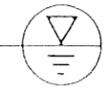
KEY

— 80
TCE ISOCONCENTRATION LINE
(IN PARTS PER BILLION), DASHED WHERE
APPROXIMATE.

TR-TRACE DETECTED, ESTIMATED
AMOUNT SHOWN.



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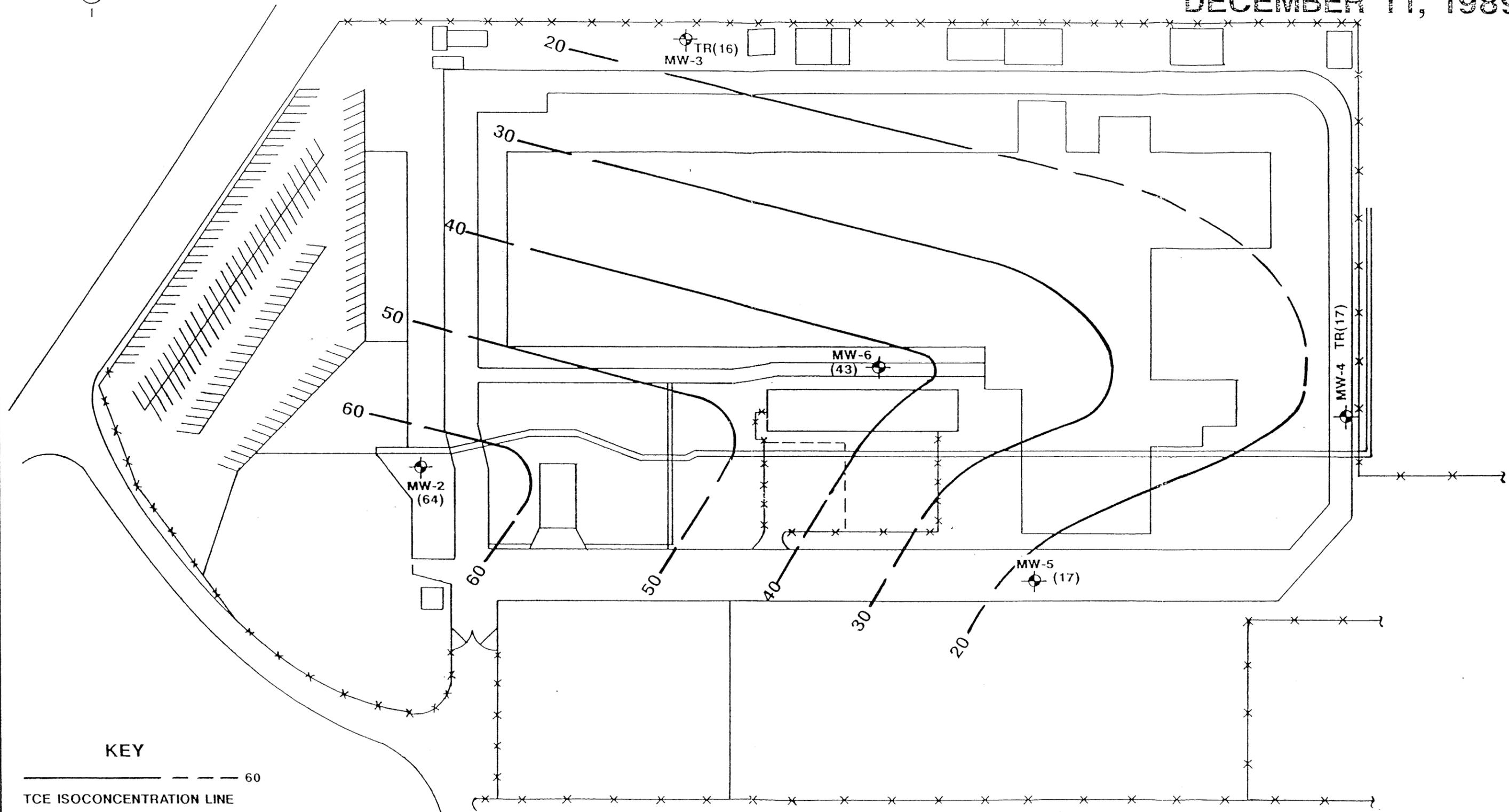
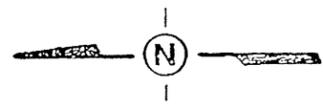
UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 7

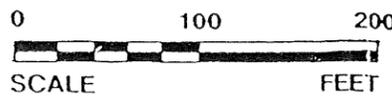
JAN 1990

TCA ISOCONCENTRATION MAP DECEMBER 11, 1989



KEY

——— 60
 TCE ISOCONCENTRATION LINE
 (IN PARTS PER BILLION), DASHED WHERE
 APPROXIMATE.
 ———
 TR-TRACE DETECTED, ESTIMATED
 AMOUNT SHOWN.



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CITY OF INDUSTRY, CALIFORNIA

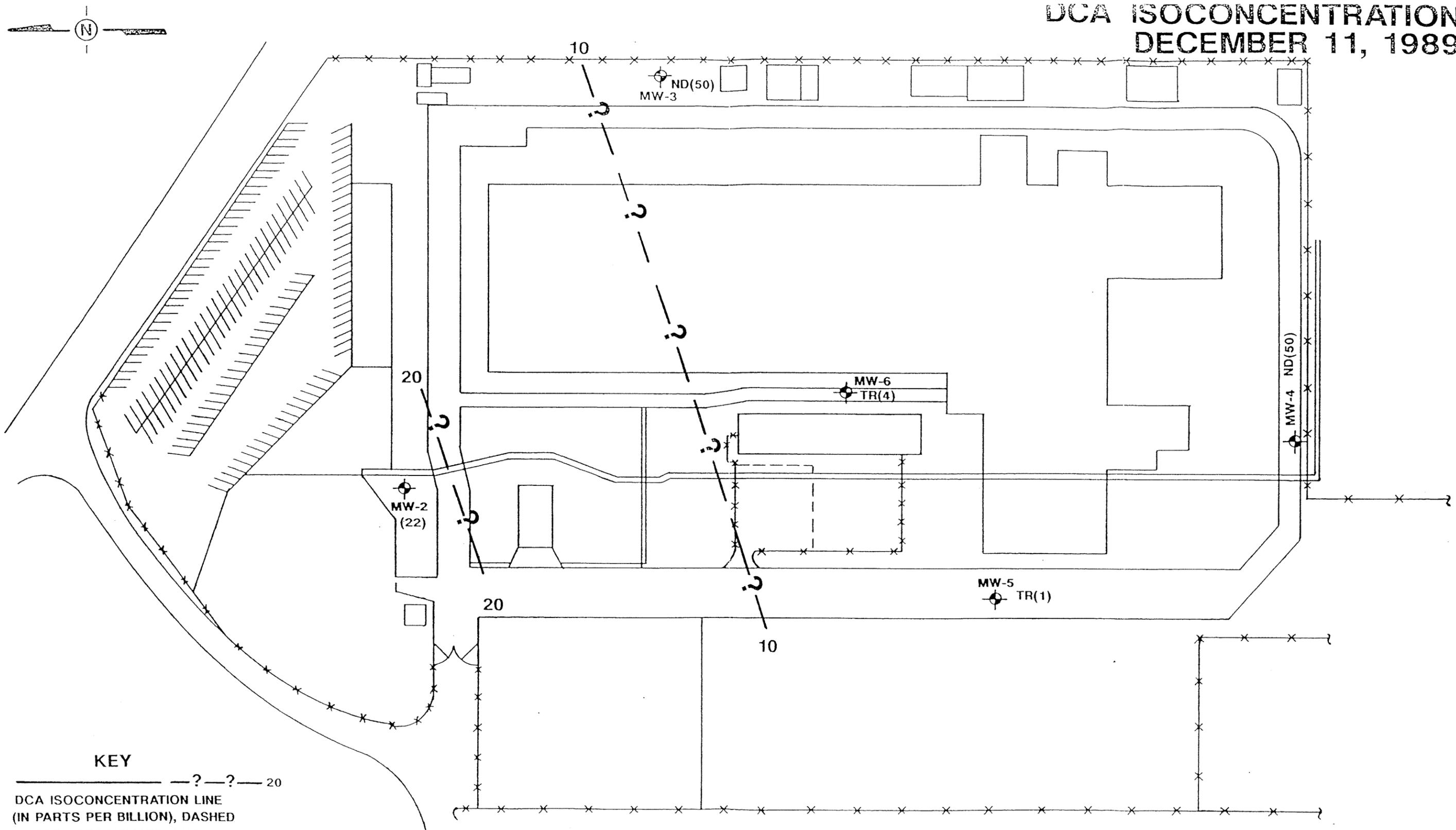
Project No.: 1614-06

Figure No.: 8

JAN 1990

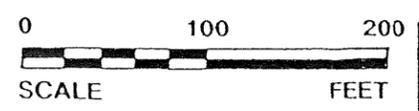
UTM 000507

DCA ISOCONCENTRATION DECEMBER 11, 1989



KEY

DCA ISOCONCENTRATION LINE
 (IN PARTS PER BILLION), DASHED
 WHERE APPROXIMATE, QUERIED WHERE
 UNCERTAIN.
 ND-NONDETECTED, PRACTICAL QUANTIFICATION
 LIMIT SHOWN.
 TR-TRACE DETECTED, ESTIMATED
 AMOUNT SHOWN.



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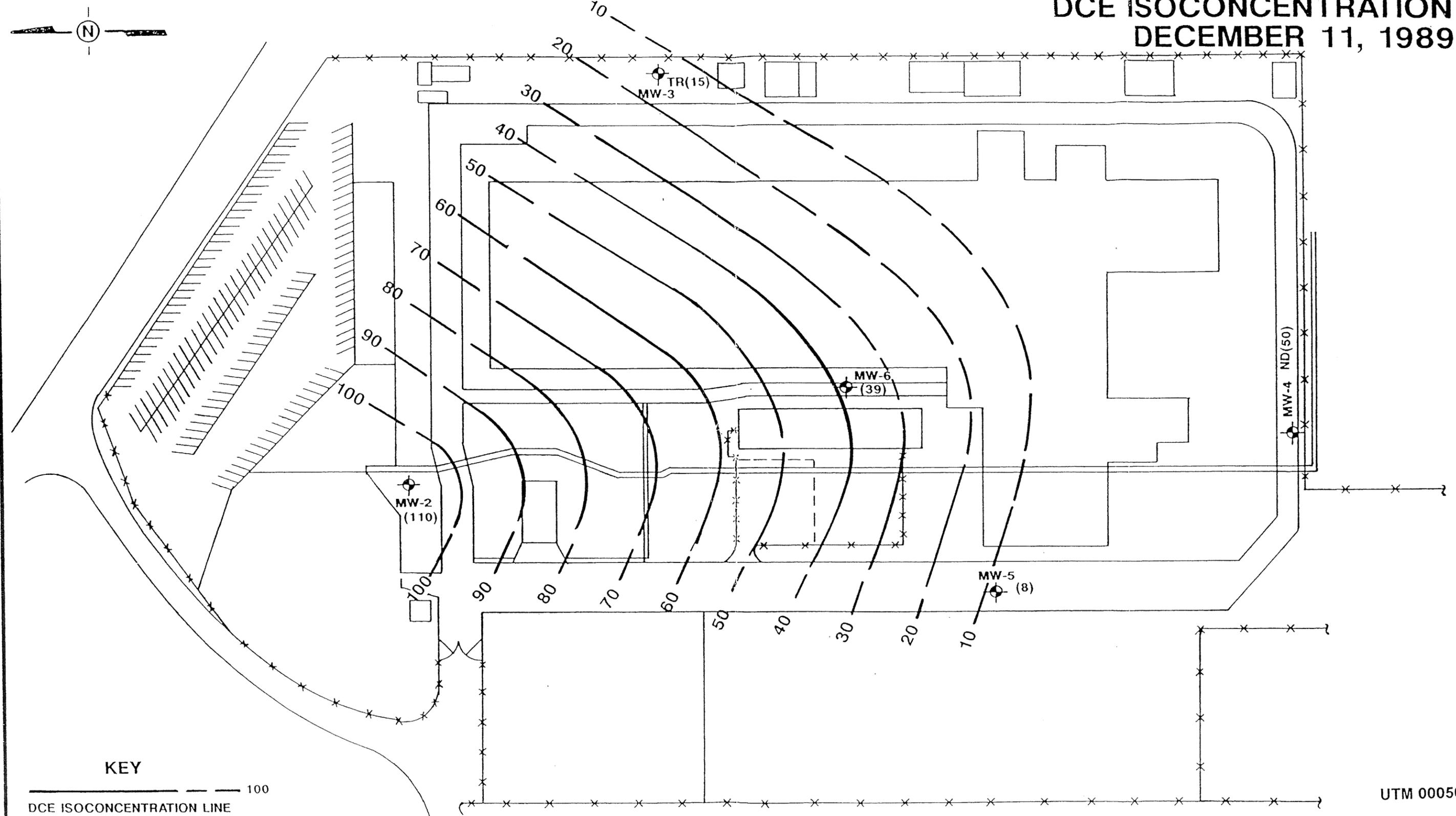


UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

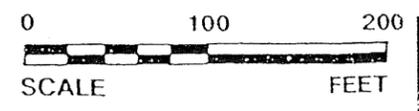
Figure No.: 9

DCE ISOCONCENTRATION DECEMBER 11, 1989



KEY

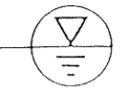
 100
 DCE ISOCONCENTRATION LINE
 (IN PARTS PER BILLION), DASHED WHERE
 APPROXIMATE.
 ND-NONDETECTED, PRACTICAL QUANTIFICATION
 LIMIT SHOWN.
 TR-TRACE DETECTED, ESTIMATED
 AMOUNT SHOWN.



UTM 000509

JAN 1990

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

Project No.: 1614-06

Figure No.: 10

APPENDIX A
CHAIN OF CUSTODY FORMS
AND
LABORATORY ANALYSES

UTM 000510

HYDRO-FLUENT, INC.

geology • engineering • environmental services

701 E. BALL ROAD, SUITE 105, ANAHEIM, CA. 92805 714-772-1220

CHAIN OF CUSTODY FORM

02103

Sheet 1 of 1

Project No. 17-17-06	Project Name UTILITY TRAILER	Samplers (Signatures) <i>Sanjiv Patel & Chela Mendell</i>
-------------------------	---------------------------------	--

Sampling Method EVL	Field Conditions Sunny & Warm
------------------------	----------------------------------

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
12-12-89	10:30 AM	MW 2	H ₂ O	VOA	BLUE ICE	12 /
12-12-89	11:50 AM	MW 3				
12-11-89	1:30 PM	MW 4				
12-11-89	11:50 AM	MW 5				
12-12-89	7:55 AM	MW 6				
12-11-89	12:00 PM	MW 7				
12-12-89		MW 8				
12-12-89		MW 9				
12-11-89	1:30 PM	MW 4				
12-11-89	11:50 AM	MW 5				
12-11-89	7:55 AM	MW 6				
12-11-89	12:00 PM	MW 7				

Comments RELINQUISHED TO [Signature]	Total Number of Containers	
Relinquished By: (Signature)	Received By: (Signature)	Time
Date	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Time
Date	Date	Time

RECEIVED
DEC 29 1989
RECEIVED

LABORATORY REPORT

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

Project Name: Utility Trailer

Project No.: 1614-06

Laboratory No.: 02103

Report Date: 12-24-89

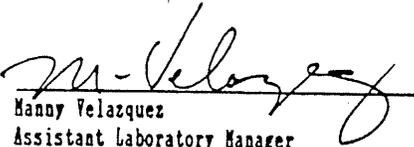
Analysis Request Date: 12-12-89

Attention: Stan Popelar

Sample Description: Six Water Samples

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

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


Manny Velazquez
Assistant Laboratory Manager


Val Mallari
Technical Director

UTM 000512

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

== MW2 ==

ab Sample No.: 02103-001
Data File: >2AQY0
sample wt/vol: 5 mL
analyst: MANNY
Dilution Factor: 1.00000

Client: H. FLUENT
Matrix: WATER
Date Received: 12/27/89
Date Analyzed: 12/23/89

DEC 29 1989

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	8.	@T
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	110.	@
75-34-3	1,1-Dichloroethane	22.	@
67-66-3	Chloroform	3.	@T
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	64.	@
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	65.	@
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	910.	@ E
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. E = Estimated Concentration.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

== MW3 ==

ab Sample No.: 02103-002
Data File: >2AQY1
sample wt/vol: 0.5 mL
analyst: MANNY
Dilution Factor: 10

Client: H. FLUENT
Matrix: WATER
Date Received: 12/12/89
Date Analyzed: 12/23/89

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	Chloromethane	100.	U
74-83-9	Bromomethane	100.	U
75-01-4	Vinyl Chloride	100.	U
75-00-3	Chloroethane	100.	U
75-09-2	Methylene Chloride	50.	U
75-69-4	Trichlorofluoromethane	100.	U
67-64-1	Acetone	100.	U
75-15-0	Carbon Disulfide	50.	U
156-60-5	Trans-1,2-Dichloroethene	50.	U
75-35-4	1,1-Dichloroethene	15.	@T
75-34-3	1,1-Dichloroethane	50.	U
67-66-3	Chloroform	50.	U
107-02-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	16.	@T
56-23-5	Carbon Tetrachloride	50.	U
108-05-4	Vinyl Acetate	100.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	80.	@
124-48-1	Dibromochloromethane	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-pentanone	100.	U
591-78-6	2-Hexanone	100.	U
127-18-4	Tetrachloroethene	330.	@
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
133-02-7	Xylene (total)	50.	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.

== MW4 ==

ab Sample No.: 02103-003
Data File: >2AQY2
Sample wt/vol: 0.5 mL
Analyst: MANNY
Dilution Factor: 10

Client: H. FLUENT
Matrix: WATER
Date Received: 12/12/89
Date Analyzed: 12/23/89

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DEC 29 1989

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS: ug/L	Q
74-87-3	-----Chloromethane	100.	U
74-83-9	-----Bromomethane	100.	U
75-01-4	-----Vinyl Chloride	100.	U
75-00-3	-----Chloroethane	100.	U
75-09-2	-----Methylene Chloride	50.	U
75-69-4	-----Trichlorofluoromethane	100.	U
67-64-1	-----Acetone	100.	U
75-15-0	-----Carbon Disulfide	50.	U
156-60-5	-----Trans-1,2-Dichloroethene	50.	U
75-35-4	-----1,1-Dichloroethene	50.	U
75-34-3	-----1,1-Dichloroethane	50.	U
67-66-3	-----Chloroform	50.	U
107-02-2	-----1,2-Dichloroethane	50.	U
78-93-3	-----2-Butanone	100.	U
71-55-6	-----1,1,1-Trichloroethane	17.	@T
56-23-5	-----Carbon Tetrachloride	50.	U
108-05-4	-----Vinyl Acetate	100.	U
75-27-4	-----Bromodichloromethane	50.	U
78-87-5	-----1,2-Dichloropropane	50.	U
10061-01-5	-----cis-1,3-Dichloropropene	50.	U
79-01-6	-----Trichloroethene	23.	@T
124-48-1	-----Dibromochloromethane	50.	U
79-00-5	-----1,1,2-Trichloroethane	50.	U
71-43-2	-----Benzene	50.	U
10061-02-6	-----trans-1,3-Dichloropropene	50.	U
75-25-2	-----Bromoform	50.	U
108-10-1	-----4-Methyl-2-pentanone	100.	U
591-78-6	-----2-Hexanone	100.	U
127-18-4	-----Tetrachloroethene	89.	@
79-34-5	-----1,1,2,2-Tetrachloroethane	50.	U
108-88-3	-----Toluene	50.	U
108-90-7	-----Chlorobenzene	50.	U
100-41-4	-----Ethylbenzene	50.	U
100-42-5	-----Styrene	50.	U
133-02-7	-----Xylene (total)	50.	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.

== MW5 ==

ab Sample No.: 02103-004
Data File: >2AQY3
Sample wt/vol: 0.5 mL
Analyst: MANNY
Dilution Factor: 10

Client: H. FLUENT
Matrix: WATER
Date Received: 12/12/89
Date Analyzed: 12/23/89

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	Chloromethane	100.	U
74-83-9	Bromomethane	100.	U
75-01-4	Vinyl Chloride	100.	U
75-00-3	Chloroethane	100.	U
75-09-2	Methylene Chloride	50.	U
75-69-4	Trichlorofluoromethane	100.	U
67-64-1	Acetone	100.	U
75-15-0	Carbon Disulfide	50.	U
156-60-5	Trans-1,2-Dichloroethene	50.	U
75-35-4	1,1-Dichloroethene	50.	U
75-34-3	1,1-Dichloroethane	50.	U
67-66-3	Chloroform	50.	U
107-02-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	16.	@T
56-23-5	Carbon Tetrachloride	50.	U
108-05-4	Vinyl Acetate	100.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	50.	U
124-48-1	Dibromochloromethane	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-pentanone	100.	U
591-78-6	2-Hexanone	100.	U
127-18-4	Tetrachloroethene	47.	@T
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
133-02-7	Xylene (total)	50.	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.

== MW5 ==

Lab Sample No.: 02103-004
Data File: >2AQZ4
Sample wt/vol: 5.0 mL
Analyst: MANNY
Dilution Factor: 1.00000

Client: H. FLUENT

Matrix: WATER

Date Received: 12/12/89

Date Analyzed: 12/24/89

DEC 29 1989

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	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	8.	@
75-34-3	1,1-Dichloroethane	1.	@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	17.	@
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.	@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	38.	@
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.

== MW6 ==

ab Sample No.: 02103-005

Client: H. FLUENT

Data File: >2AQY4

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 12/12/89

Analyst: MANNY

Date Analyzed: 12/23/89

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	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	39.	@
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	43.	@
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	10.	@
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	76.	@
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.

== MW7 ==

Lab Sample No.: 02103-006

Data File: >2AQY5

Sample wt/vol: 5 mL

Analyst: MANNY

Dilution Factor: 1.00000

Client: H. FLUENT

Matrix: WATER

Date Received: 12/12/89

Date Analyzed: 12/23/89

REC'D
DEC 23 1989
LABORATORY

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	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
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	5.	U
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	5.	U
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.

REFERENCES

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REFERENCES

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