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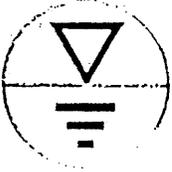
BI-MONTHLY GROUND WATER MONITORING
JUNE - JULY, 1990

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

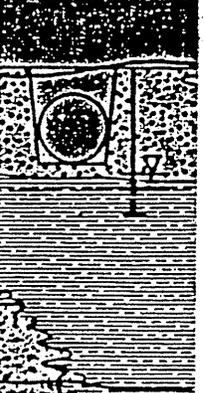
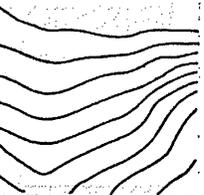
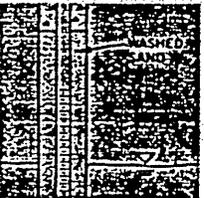
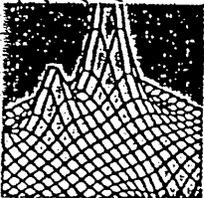
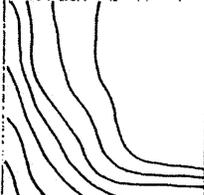
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UTM 000605



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 JUNE - JULY, 1990

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

HFR00037.090

Project Number 1614-06

July 31, 1990

UTM 000606

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BI-MONTHLY GROUND WATER MONITORING
JUNE - JULY, 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 June and July, 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 less than 0.01 feet per foot and a northwesterly flow direction.

Four volatile halogenated hydrocarbon compounds were detected in Site ground water. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), and 1,1 dichloroethene (DCE). All of these compounds have been previously detected in Site ground water. All isoconcentration maps illustrate the location of highest concentrations of volatile halogenated hydrocarbons to be on the northern or central portions of the Site, near MW-2, MW-3, and MW-6.

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 June and July, 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

From October, 1987 to June, 1989 environmental investigations were 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 (Yerkes and others, 1965). 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 to the nearest 0.01 of a foot at the time of sampling on June 7, 1990 and again on July 10, 1990. Ground water elevations were calculated by subtracting these heights from the surveyed well elevations and are presented in Table 1. Using these 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 feet above mean sea level with an average gradient of less than 0.01 feet per foot (calculated at 0.005 feet per foot) and a northwesterly flow direction. From June, 1990 to July, 1990 the ground water surface rose slightly (an average rise of 0.03 feet), as depicted in 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 PVC 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 four volatile halogenated hydrocarbon compounds. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), and 1,1 dichloroethene (DCE). All of these compounds have been previously detected in Site ground water. Three other compounds not normally observed in Site ground water, acetone, 2-butanone (MEK), and chloroform were also detected.

Acetone was detected in all samples including the field blank, indicating that the appearance of this compound is due to contamination during sampling or analysis. MEK was initially detected in samples from three Site wells but not in the field blank. However, the analytical lab was able to trace the occurrence of this analyte to carryover from a previously analyzed sample, and consequently resubmitted the lab reports to indicate that MEK was nondetected (See Appendix A). Chloroform was only detected in MW-3 at a low concentration (4 ppb).

The highest concentrations of halogenated hydrocarbons were detected in samples collected from monitoring wells MW-2, MW-3, and MW-6 (See Tables 2, 3, and 6). Ground water from MW-2 contained the Site maximum concentrations of PCE and TCE, determined at 990 and 61 ppb, respectively. Samples from MW-6 contained the Site maximum concentration of TCA and DCE, determined at 89 and 65 ppb, respectively.

Concentrations of halogenated hydrocarbons detected at wells MW-4 and MW-5 were generally lower than those detected at monitoring wells MW-2, MW-3, and MW-6 (See Tables 4 and 5). Chemical analysis of these samples detected concentrations of PCE ranging from 41 to 83 ppb, TCE concentrations ranging from nondetected to 5 ppb, TCA concentrations ranging from 16 to 18 ppb, and DCE concentrations ranging from 9 to 12 ppb. DCA which had been detected previously at the site was nondetected during this monitoring period.

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 less than 0.01 feet per foot and a northwesterly flow direction.

6.2 ANALYTICAL OBSERVATIONS

Four volatile halogenated hydrocarbon compounds were detected in Site ground water samples. The highest concentrations were detected in samples collected from monitoring wells MW-2, MW-3, and MW-6. Maximum Site concentrations detected from MW-2 ground water were, 990 ppb of PCE and 61 ppb of DCA. The maximum Site concentration of TCA and DCE were detected in MW-6 ground water, determined at 89 and 65 ppb, respectively.

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). A uniform, linear relationship was used to interpolate concentration values between data points. The contouring did not incorporate any site specific geological, historical, or operational information. An isoconcentration map was not contoured for DCA, because concentrations of this analyte were nondetectable. All isoconcentration maps illustrate the location of highest concentrations of volatile halogenated hydrocarbons to be on the northern or central portions of the Site (near MW-2 and MW-3, and MW-6, respectively).

Concentrations of detected volatile halogenated hydrocarbons were generally higher or remained approximately the same as those observed during the April, 1990 sampling.

7.0 SCHEDULED WORK ACTIVITIES

Four hundred and fifty gallons of purge water generated during April and June, 1990 sampling work was manifested as a hazardous waste and transported on July 10, 1990 by a California state licensed hazardous waste hauler to Petroleum Recyclers, Inc. for treatment and disposal (See Appendix B).

Ground water sampling is tentatively scheduled for the middle of August, 1990. Ground water elevations will be measured during the sampling work and again in the middle of September, 1990. Purge water generated during August, 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 on or prior to September 30, 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

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)	
			6/07/90	7/10/90	6/07/90	7/10/90
MW-2	4,115,173.6537 / 4,310,197.4018	377.16	23.92	23.85	353.24	353.31
MW-3	▼ 4,114,893.3839 / 4,310,644.9150	378.56	22.63	22.62	355.93	355.94
MW-4	4,114,197.0643 / 4,310,242.6061	383.57	28.30	28.29	355.27	355.28
MW-5	4,114,527.5265 / 4,310,068.9473	381.15	26.85	26.82	354.30	354.33
MW-6	4,114,687.7317 / 4,310,297.7964	380.20	24.95	24.92	355.25	355.28

* 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	2/13/90	4/13/90	6/08/90
VC	TR (3)	ND (10)	ND (5)	ND (10)	ND (50)	ND (50)	ND (50)
FREON 11	ND (5)	ND (5)	17	TR (8)	ND (50)	ND (50)	ND (50)
ACETONE	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)	ND (50)	TR (43)
TRANS -1,2 DCE	ND (5)	ND (5)	13	ND (5)	ND (25)	ND (25)	ND (25)
DCE	480	26	120	110	97	43	E (61)
DCA	72	9	42	22	TR (19)	TR (10)	ND (25)
CHLOROFORM	ND (5)	ND (5)	ND (5)	TR (3)	ND (25)	ND (25)	ND (25)
TCA	240	37	70	64	52	27	35
TCE	74	62	96	65	56	40	52
PCE	1100	150	990	E (910)	820	720	990

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.

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	12/12/89	2/13/90	4/13/90	6/08/90
FREON 11	5	ND (10)	31	ND(100)	ND (50)	ND (50)	ND (10)
ACETONE	ND (10)	ND (10)	ND (10)	ND(100)	ND (50)	ND (50)	TR (0.9)
TRANS-1,2 DCE	ND (5)	ND (5)	20	ND (50)	ND (25)	ND (25)	ND (5)
DCE	28	97	34	TR (15)	TR (13)	ND (25)	E (14)
DCA	18	20	11	ND (50)	ND (25)	ND (25)	ND (5)
CHLOROFORM	ND (5)	ND (5)	ND (5)	ND (50)	ND (25)	ND (25)	TR (4)
TCA	89	53	6	TR (16)	TR (10)	ND (25)	9
TCE	63	53	100	80	56	49	ND (5)
PCE	100	530	170	330	340	340	E (420)

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

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)						
	5/11/89	8/28/89	10/11/89	12/12/89	2/12/90	4/12/90	6/07/90
ACETONE	ND (10)	ND (10)	ND (10)	ND (100)	ND (10)	ND (50)	65
CARBON DISULFIDE	ND (5)	ND (5)	TR (4)	ND (50)	ND (5)	ND (25)	ND (5)
DCE	25	17	14	ND (50)	12	ND (25)	E (12)
DCA	TR (2)	ND (5)	ND (5)	ND (50)	ND (5)	ND (25)	ND (5)
TCA	30	20	19	TR (17)	15	TR (13)	16
TCE	5	TR (3)	ND (5)	TR (23)	TR (3)	ND (25)	ND (5)
PCE	120	79	73	89	87	80	83
TOLUENE	ND (5)	ND (5)	TR (2)	ND (50)	ND (5)	ND (25)	ND (5)

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (E) estimated concentration; (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	2/12/90	4/12/90	6/07/90
ACETONE	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	38
CARBON DISULFIDE	ND (5)	ND (5)	7	ND (5)	ND (5)	ND (5)	ND (5)
DCE	17	11	9	8	9	9	E (9)
DCA	TR (2)	ND (5)	ND (5)	TR (1)	ND (5)	ND (5)	ND (5)
CHLOROFORM	ND (5)	ND (5)	TR (2)	ND (5)	ND (5)	ND (5)	ND (5)
TCA	32	20	21	17	21	17	18
TCE	6	TR (4)	TR (4)	TR (5)	TR (4)	TR (4)	5
PCE	48	32	34	38	44	34	41

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

TABLE 6

GROUND WATER ANALYTICAL RESULTS

MONITORING WELL MW-6

EPA METHOD 624

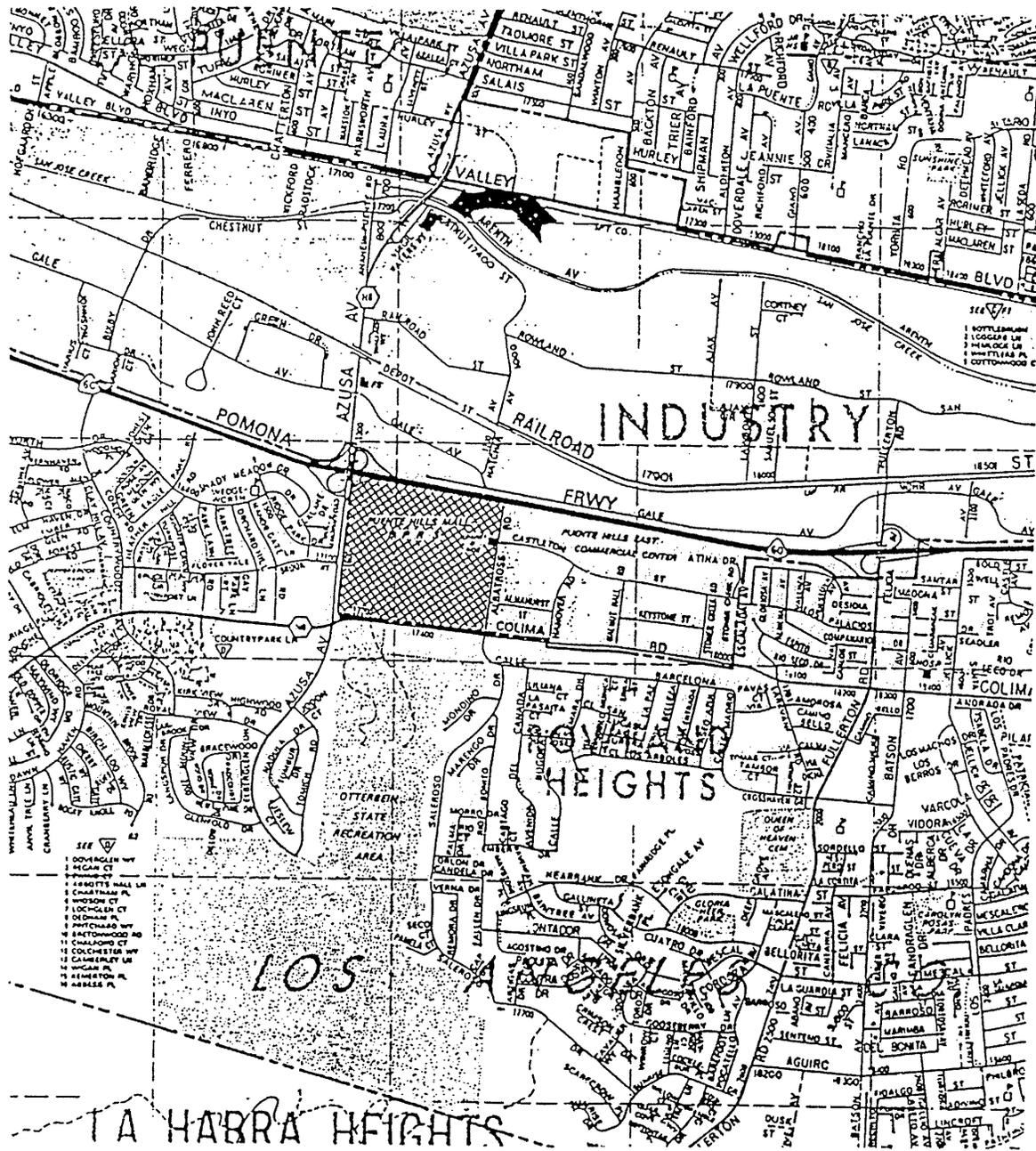
ug/l (ppb)

DETECTED COMPOUNDS	5/10/89	8/28/89	10/11/89	12/12/89	2/12/90	4/12/90	6/07/90
ACETONE	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	28
CARBON DISULFIDE	ND (5)	ND (5)	7	ND (5)	ND (5)	ND (5)	ND (5)
DCE	58	53	45	39	39	E (49)	E (65)
DCA	5	ND (5)	TR (4)	TR (4)	TR (5)	TR (5)	ND (5)
TCA	79	52	50	43	49	57	89
TCE	10	8	9	10	10	11	14
PCE	77	62	64	76	72	90	120
TOLUENE	ND (5)	ND (5)	TR (1)	ND (5)	ND (5)	ND (5)	ND (5)

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

SITE LOCATION MAP



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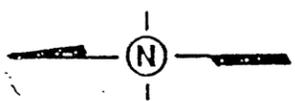


UTILITY TRAILER MANUFACTURING CO
 1730 E CHESTNUT STREET
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 1

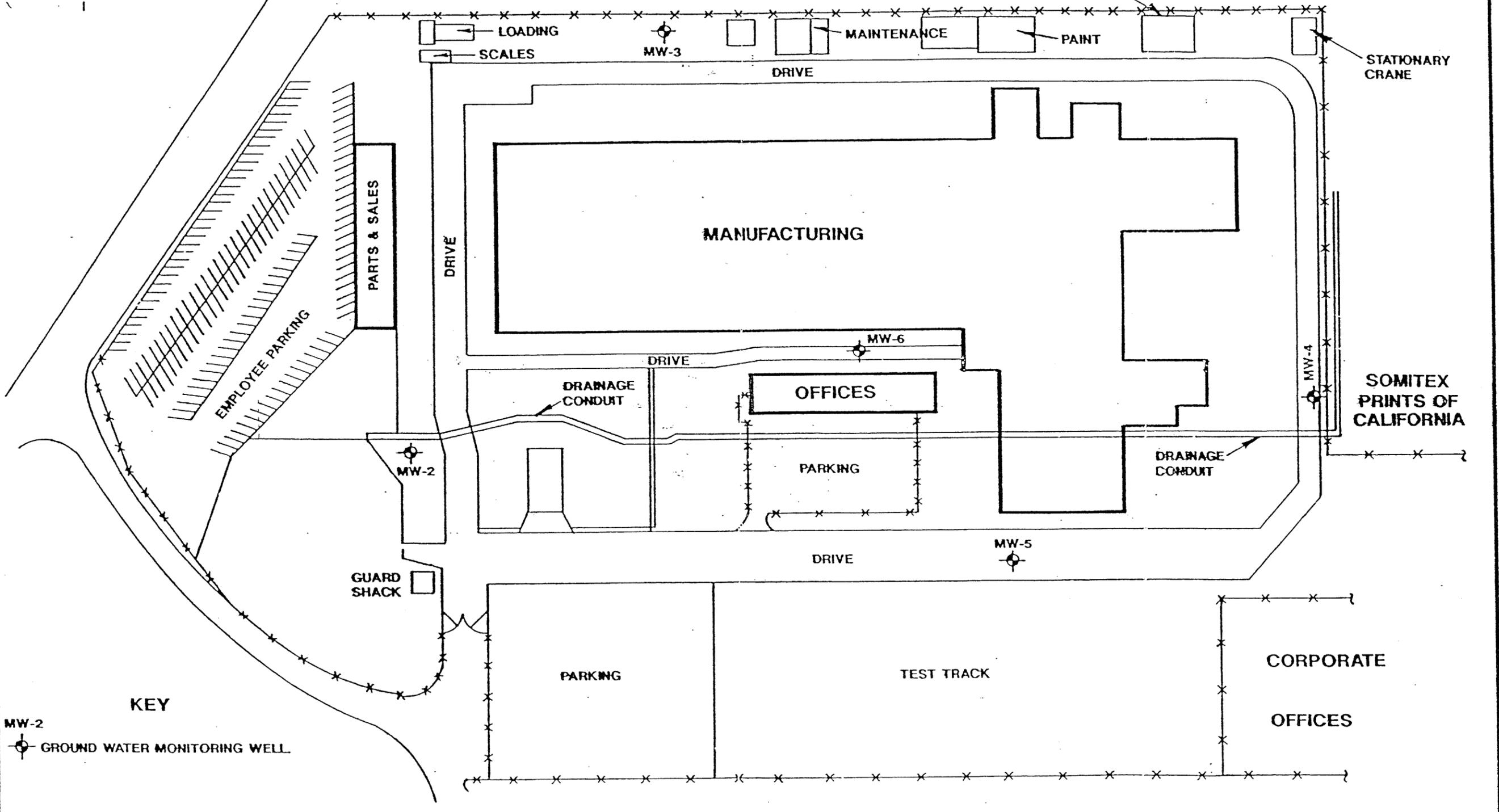
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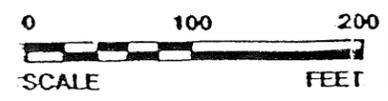
LOS ANGELES WATER CO.

SITE PLOT PLAN

SPILL
CONTAINMENT
AREA



KEY
 MW-2
 GROUND WATER MONITORING WELL.

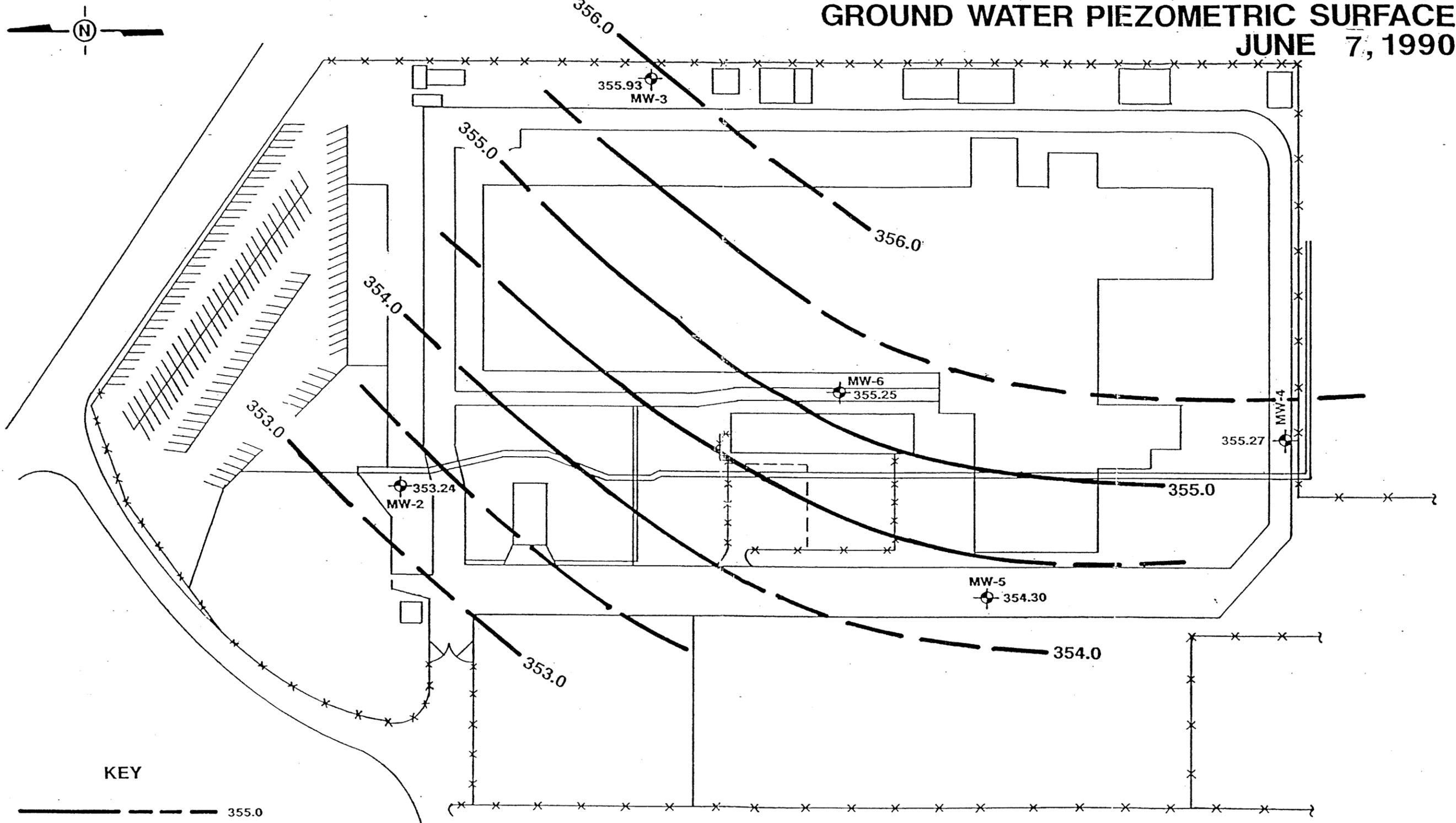


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UTILITY TRAILER MANUFACTURING, CO
 1730 E. CHESTNUT STREET
 CITY OF INDUSTRY, CALIFORNIA

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

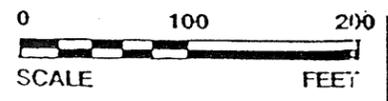
GROUND WATER PIEZOMETRIC SURFACE JUNE 7, 1990



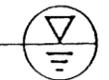
KEY

— 355.0

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



HYDRO-FLUENT, INC.
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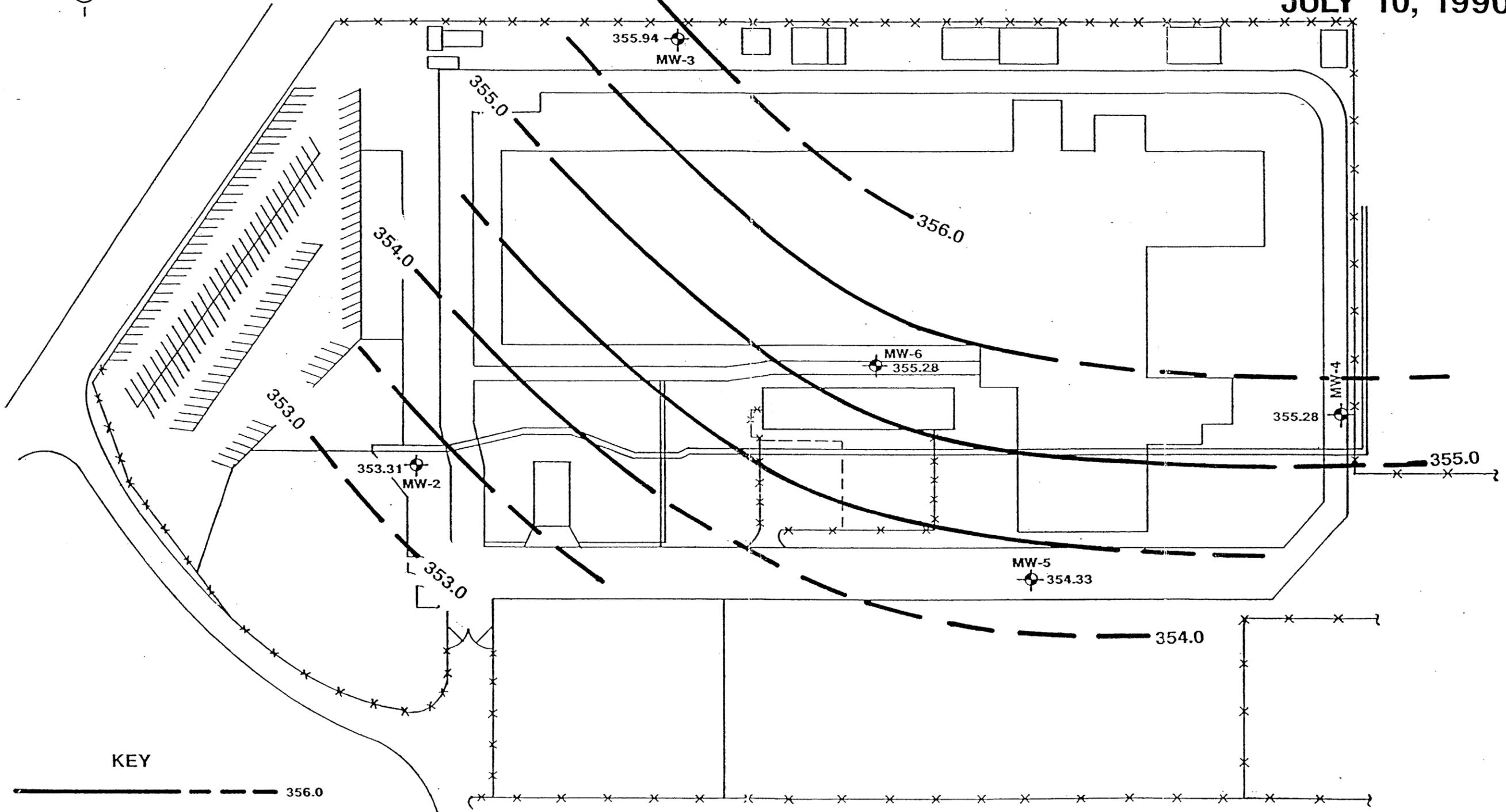
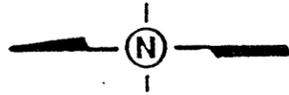
UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 3

JULY 90

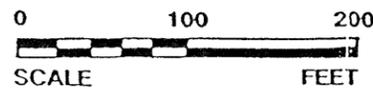
GROUND WATER PIEZOMETRIC SURFACE JULY 10, 1990



KEY

— 356.0

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



JULY 90

HYDRO-FLUENT, INC.
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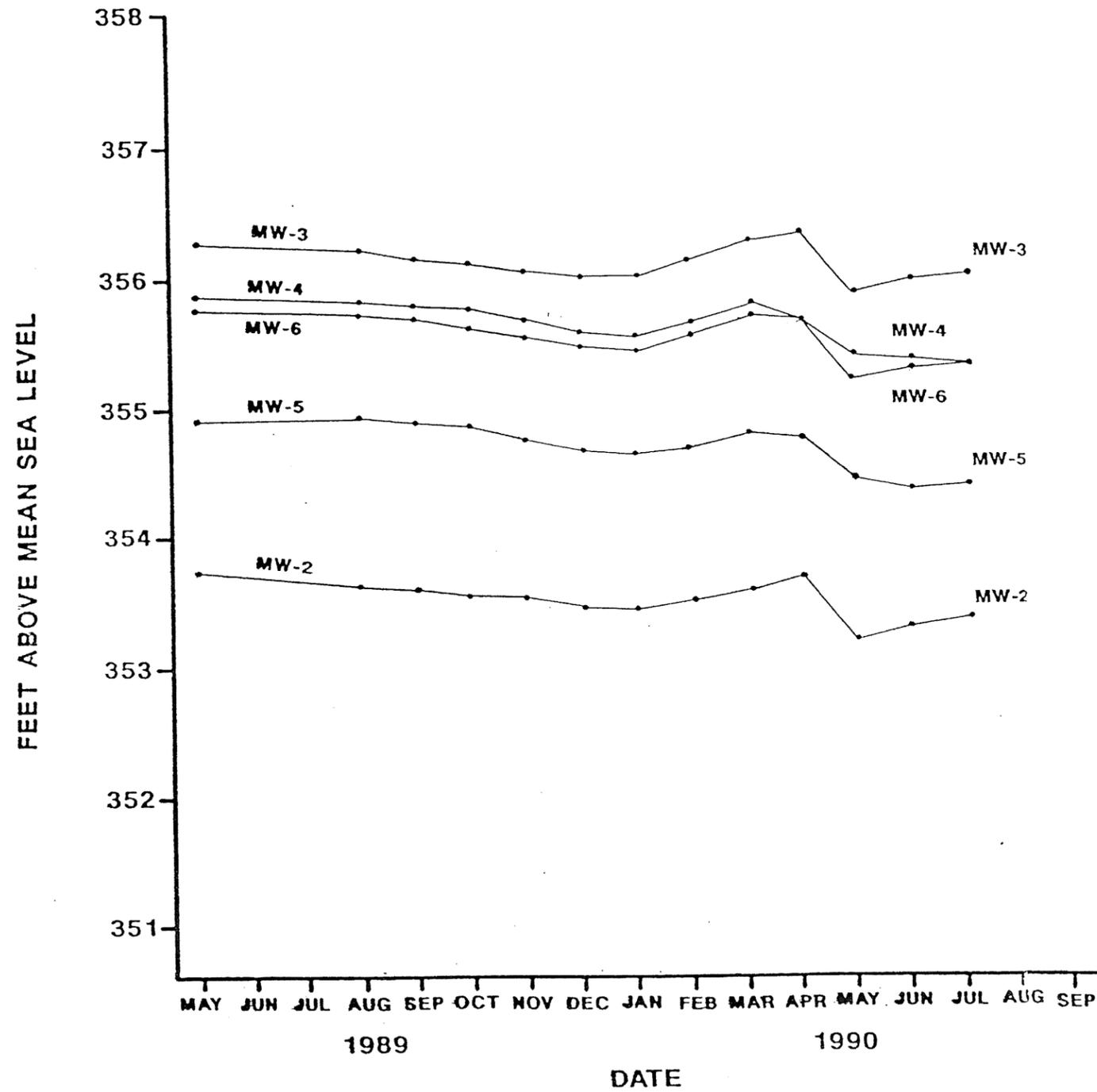


UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 4

GROUND WATER ELEVATION HYDROGRAPH



JULY 90

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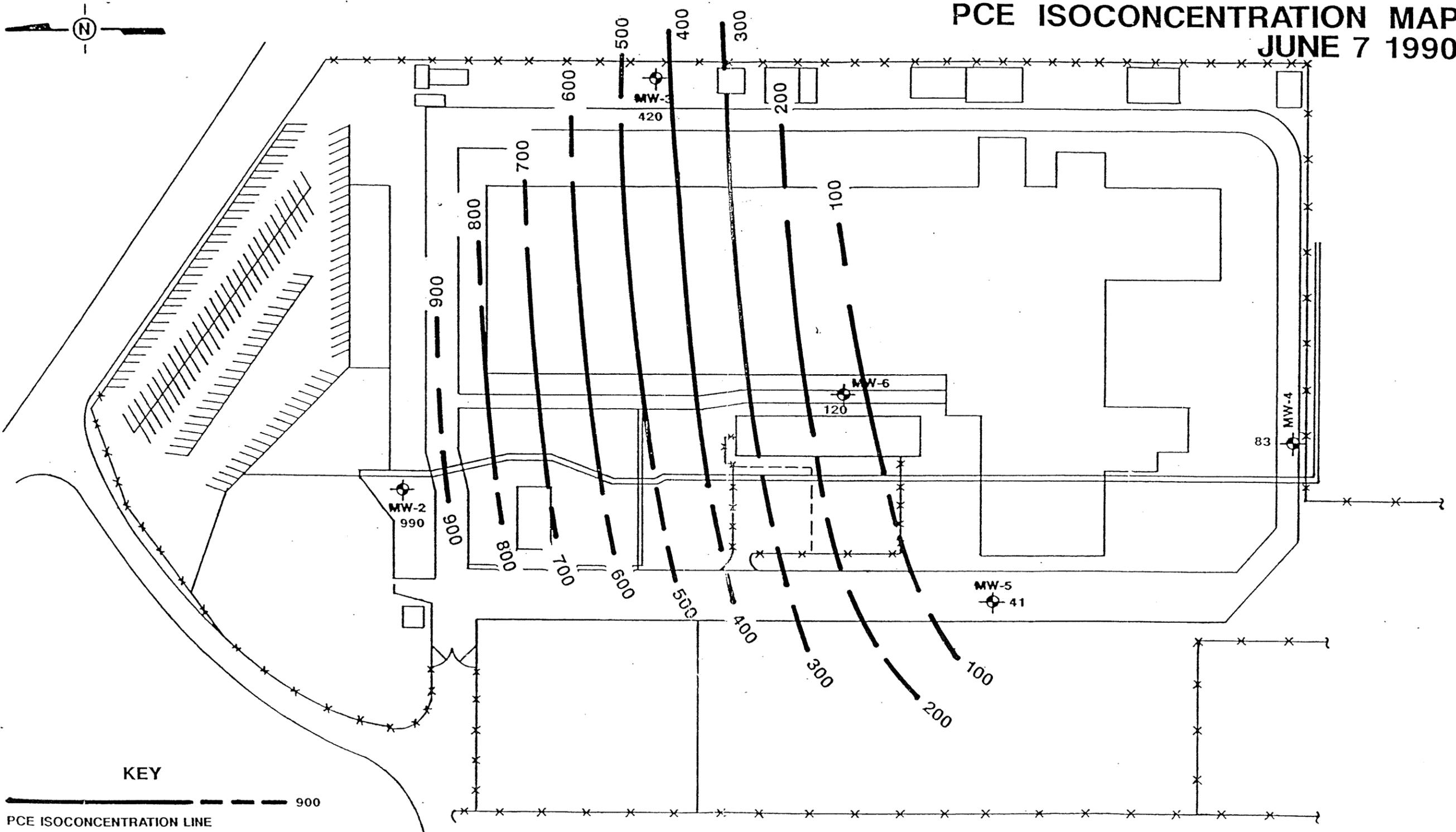


UTILITY TRAILER MANUFACTURING
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 5

PCE ISOCONCENTRATION MAP JUNE 7 1990



KEY

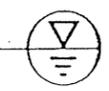
— 900

PCE ISOCONCENTRATION LINE
(IN PART PER BILLION)
DASHED WHERE APPROXIMATE.

0 100 200
SCALE FEET

JULY 90

HYDRO-FLUENT, INC.
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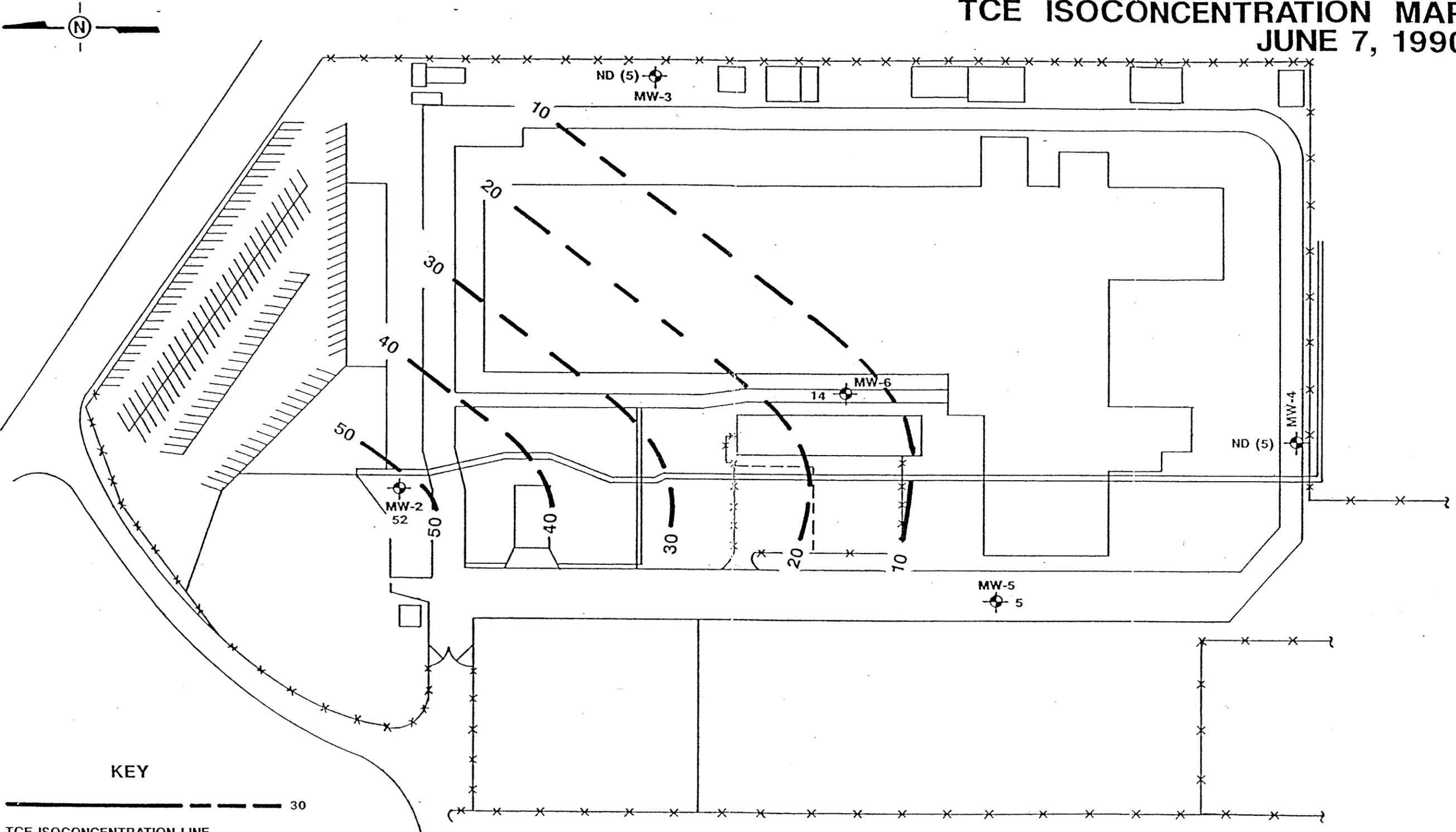


UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 6

TCE ISOCONCENTRATION MAP JUNE 7, 1990

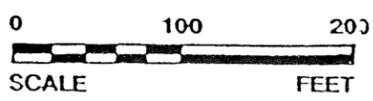


KEY

----- 30

TCE ISOCONCENTRATION LINE
(IN PART PER BILLION)
DASHED WHERE APPROXIMATE.

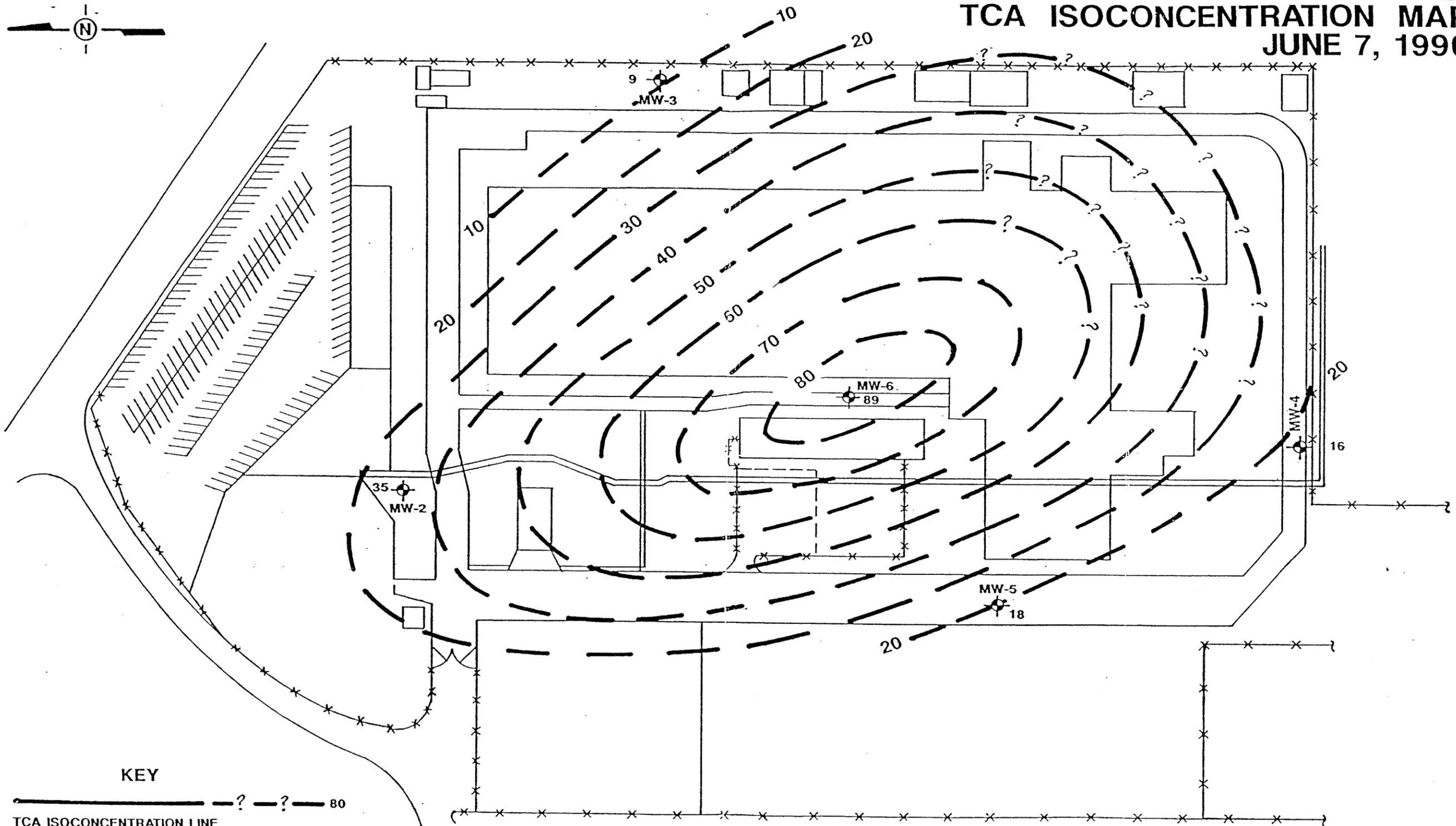
ND NONDETECTED, PRACTICAL QUANTIFICATION
LIMIT SHOWN.



JULY 90

HYDRO-FLUENT, INC. <small>geology • engineering • environmental services</small>	UTILITY TRAILER MANUFACTURING, CO 1730 E. CHESTNUT STREET CITY OF INDUSTRY, CALIFORNIA	
	Project No.: 1614-06	Figure No.: 7

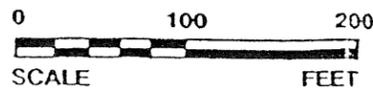
TCA ISOCONCENTRATION MAP JUNE 7, 1990



KEY

— ? — ? — 80

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



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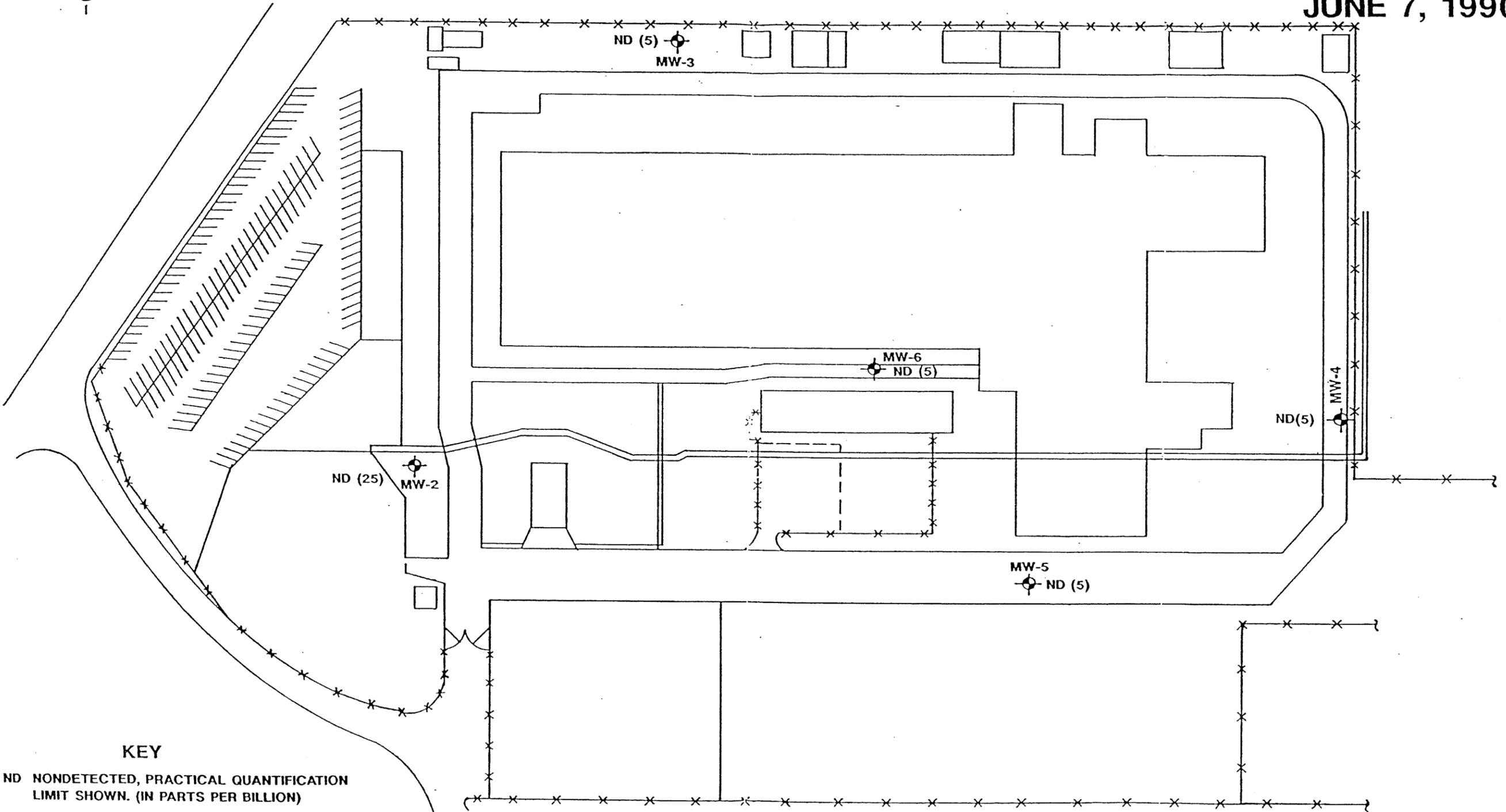
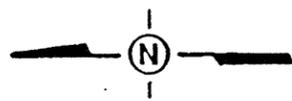
UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 8

JULY 90

DCA ISOCONCENTRATION MAP JUNE 7, 1990

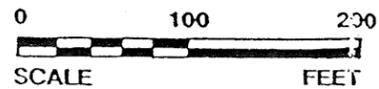


KEY

ND NONDETECTED, PRACTICAL QUANTIFICATION
LIMIT SHOWN. (IN PARTS PER BILLION)

NOTE:

ISOCONCENTRATION CONTOURS WERE NOT DRAWN
BECAUSE DCA WAS NON-DETECTED AT THE SITE FOR THIS
MONITORING PERIOD.



JULY 90

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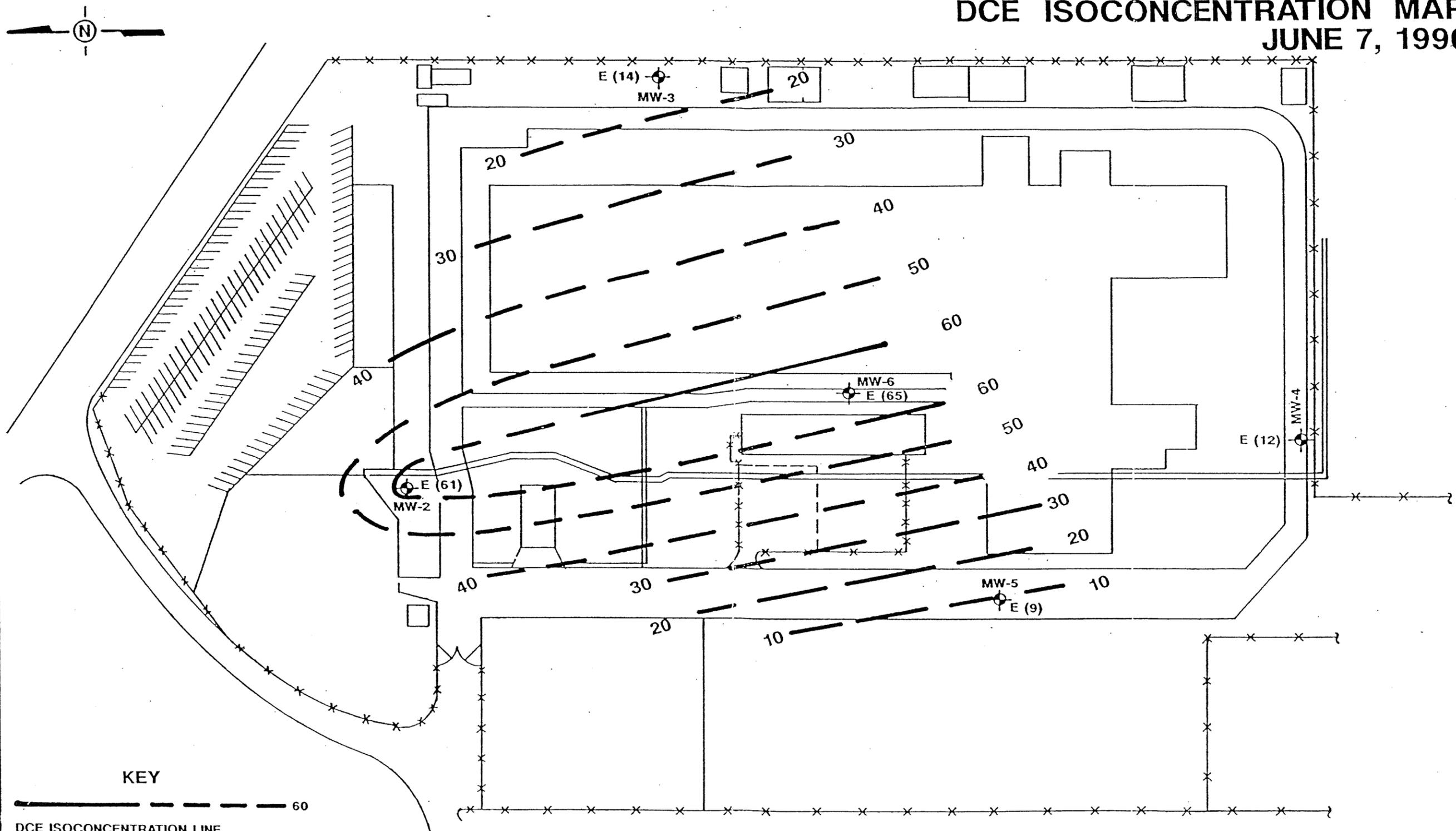


UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 9

DCE ISOCONCENTRATION MAP JUNE 7, 1990

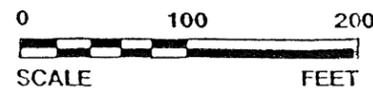


KEY

60

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

E - ESTIMATED CONCENTRATION.



JULY 90

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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 000634

HYDRO-FLUENT, INC.

geology • engineering • environmental services

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

CHAIN OF CUSTODY FORM

18987

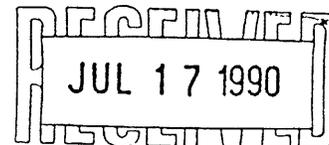
Sheet 1 of 2

Project No.		Project Name		Samplers (Signatures)		
1614-06		UTILITY TRAILER		<i>Tom Bealon</i>		
Sampling Method		Field Conditions				
BAILER		Sunny & Warm				
Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
6-8-90	7:14 AM	MW-2	WATER	VDA	BLUE ICC	624
6-8-90	10:25 AM	MW-3				
6-7-90	11:10 AM	MW-4				
6-7-90	8:27 AM	MW-5				
6-7-90	9:40 AM	MW-6				
6-7-90	10:15 AM	MW-7				
6-8-90	7:14 AM	MW-2 DUPLICATE				HOLD
6-8-90	10:25 AM	MW-3				
6-7-90	11:10 AM	MW-4				
6-7-90	8:27 AM	MW-5				
6-7-90	7:40 AM	MW-6				
6-7-90	8:15 AM	MW-7				
Comments: RESULTS TO STAN: POPELAIR DIE 6-22-90 2.0°C LG.F						Total Number of Containers
						12
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time	Received By: (Signature)
<i>Tom Bealon</i>	6/5/90	12:55 PM	<i>[Signature]</i>			
Relinquished By:	Date	Time	Received By: (Signature)	Date	Time	Received By: (Signature)

Stan



Analytical Laboratories
5702 Bolsa Avenue
Huntington Beach, California 92649
Telephone: (714) 892-2565 / Fax: (714) 890-4032



L A B O R A T O R Y R E P O R T

Report to: Hydro-Fluent, Inc.
140 Technology Drive
Irvine, CA 92718

Project Name: Utility Trailer
Client Project No.: 1614-06
Laboratory Job No.: 02987
Revised Report Date: 07-11-90
Analysis Request Date: 06-08-90

Attention: Stan Popelar

Sample Description: Six Water Samples

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

This is a corrected and complete resubmittal of results originally reported on 6-21-90. The 624 results for MW-2, MW-4, and MW-5 have been corrected to reverse the previously reported positive result for 2-butanone. The false positive results were due to carryover from a previously run sample. All other positive hits have been verified to be correct.

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



Val Mallari
Program Administration Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW-2

Job Sample No.: 2987-001

Client: HYDRO-FLUENT

Data File: >1AAK5

Matrix: WATER

Sample wt/vol: 1 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/14/90

Dilution Factor: 5.

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	-----Chloromethane	50.	U
74-83-9	-----Bromomethane	50.	U
75-01-4	-----Vinyl Chloride	50.	U
75-00-3	-----Chloroethane	50.	U
75-09-2	-----Methylene Chloride	25.	U
75-69-4	-----Trichlorofluoromethane	50.	U
67-64-1	-----Acetone	43.	@T
75-15-0	-----Carbon Disulfide	25.	U
156-60-5	-----Trans-1,2-Dichloroethene	25.	U
75-35-4	-----1,1-Dichloroethene	61.	@ E
75-34-3	-----1,1-Dichloroethane	25.	U
67-66-3	-----Chloroform	25.	U
107-02-2	-----1,2-Dichloroethane	25.	U
78-93-3	-----2-Butanone	50.	U
71-55-6	-----1,1,1-Trichloroethane	35.	@
56-23-5	-----Carbon Tetrachloride	25.	U
108-05-4	-----Vinyl Acetate	50.	U
75-27-4	-----Bromodichloromethane	25.	U
78-87-5	-----1,2-Dichloropropane	25.	U
10061-01-5	-----cis-1,3-Dichloropropene	25.	U
79-01-6	-----Trichloroethene	52.	@
124-48-1	-----Dibromochloromethane	25.	U
79-00-5	-----1,1,2-Trichloroethane	25.	U
71-43-2	-----Benzene	25.	U
10061-02-6	-----trans-1,3-Dichloropropene	25.	U
75-25-2	-----Bromoform	25.	U
108-10-1	-----4-Methyl-2-pentanone	50.	U
591-78-6	-----2-Hexanone	50.	U
127-18-4	-----Tetrachloroethene	990.	@
79-34-5	-----1,1,2,2-Tetrachloroethane	25.	U
108-88-3	-----Toluene	25.	U
108-90-7	-----Chlorobenzene	25.	U
100-41-4	-----Ethylbenzene	25.	U
100-42-5	-----Styrene	25.	U
133-02-7	-----Xylene (total)	25.	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.

MW-3

Sample No.: 2987-002

Client: HYDRO-FLUENT

Data File: >1AAK6

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/14/90

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	.9	@T
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	14.	@ E
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	4.	@T
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	9.	@
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	420.	@ 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.

MW-4

Lab Sample No.: 2987-003

Client: HYDRO-FLUENT

Data File: >1AAJ4

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/13/90

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	65.	@
75-15-0	-----Carbon Disulfide	5.	U
156-60-5	-----Trans-1,2-Dichloroethene	5.	U
75-35-4	-----1,1-Dichloroethene	12.	@ E
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	16.	@
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	83.	@
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.

MW-5

Lab Sample No.: 2987-004

Client: HYDRO-FLUENT

Data File: >1AAJ5

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/13/90

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	38.	@
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	9.	@ E
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	18.	@
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.	@
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	41.	@
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.

MW-6

Lab Sample No.: 2987-005

Client: HYDRO-FLUENT

Data File: >1AAJ6

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/13/90

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	28.	@
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	65.	@ E
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	89.	@
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	14.	@
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	120.	@
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.

MW-7

Lab Sample No.: 2987-006

Client: HYDRO-FLUENT

Data File: >1AAJ7

Matrix: WATER

Sample wt/vol: 5 mL

Date Received: 6/08/90

Analyst: TIM

Date Analyzed: 6/13/90

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	23.	@
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.

APPENDIX B
UNIFORM HAZARDOUS WASTE MANIFEST
90080022

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.						
		CA 019901739252		10102R										
3. Generator's Name and Mailing Address						A. State Manifest Document Number								
UTILITY TRAILER MANUFACTURING, INC. 17300 E. CHESTNUT, CITY OF INDUSTRY, CA						90080022								
4. Generator's Phone (818) 965-1541 91749						B. State Generator's ID								
HGH03161-101150316														
5. Transporter 1 Company Name			6. US EPA ID Number			C. State Transporter's ID								
NIETO AND SONS TRUCKING			CAT0800116116											
7. Transporter 2 Company Name						D. Transporter's Phone								
						714-990-6855								
9. Designated Facility Name and Site Address						G. State Facility's ID								
PETROLEUM RECYCLERS INC. 1835 E. 29th STREET SIGNAL HILL, CA 90806														
10. US EPA ID Number						H. Facility's Phone								
CAT080011059						213-595-6597								
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		L Waste No.		
a. NON RCRA HAZARDOUS WASTE LIQUID						0 10 1 T T		450		G		State 241		
												EPA/Other EXEMPT		
												State		
												EPA/Other		
												State		
b.												State		
												EPA/Other		
												State		
												EPA/Other		
												State		
c.												State		
												EPA/Other		
												State		
												EPA/Other		
												State		
d.												State		
												EPA/Other		
												State		
												EPA/Other		
												State		
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above								
NO SMOKING 1% CHLORINATED SOLVENTS GLOVES 99% Water GOGGLES						a. b. c. d.								
15. Special Handling Instructions and Additional Information														
DEMENNO KERDOON CAT080013352 GIBSON OIL REFINERY CAD980883177 2000 N. ALAMEDA 213-537-7100 COMMERCIAL DRIVE 805-327-0413 COMPTON, CA 90222 BAKERSFIELD, CA 93308														
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.														
Printed/Typed Name						Signature			Month Day Year					
TONY ESNAULT						Tony Esnault			10/11/90					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Month Day Year		
						G. Stagner			GEORGE STAGNER			11/7/90		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Month Day Year		
19. Discrepancy Indication Space														
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					

REFERENCES

REFERENCES

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- Triad Foundation Engineering, Inc., 1987b. Contaminated Soils Investigation # 2, 87-467, prepared for Utility Trailer Manufacturing, Inc., November.
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