Copper and Brass Sales, Inc.

5450 E. HOME AVENUE
FRESNO, CALIFORNIA 93727

(209) 252-1645
FAX (209) 252-3846

STID 3932

March 1, 1994

Susan L. Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

RE: Submittal of Quarterly Ground-Water Monitoring Report,
1295 67th Street, Emeryville, California

Dear Ms. Hugo,

Enclosed is the document entitled "Quarterly Ground-Water Monitoring Report No. 2, 1295 67th Street, Emeryville, California," which was prepared by Azure Environmental on behalf of Copper and Brass Sales, Inc. This report is submitted to you pursuant to requirements contained in letters sent by your agency on March and June 22, 1993.

To the best of my knowledge, the information in the attached report is accurate and I concur with the conclusions and recommendations contained in the report.

Please call me should you have any questions or comments regarding this document.

Sincerely,

COPPER AND BRASS SALES, INC.

George T. Blandino

George T. Blandino
General Manager

Enclosure

cc: Rich Hiett, RWQCB

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City: SAN RAFAEL State: CA ZIP Required: 94901

2 To (Recipient's Name) Please Print: Susan Hugo

Recipient's Phone Number (Very Important): (510) 271-4530

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Department/Floor No:

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QUARTERLY GROUND-WATER MONITORING REPORT NO. 2

1295 67th Street
Emeryville, California

March 1, 1994
AZ119-001

Prepared for:
Copper and Brass Sales, Inc.
1900 Embarcadero, Suite 102
Oakland, CA 94606

AZURE ENVIRONMENTAL

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March 1, 1994 AZ119-001

QUARTERLY GROUND-WATER MONITORING
REPORT NO. 2
1295 67th Street
Emeryville, California

INTRODUCTION

This Quarterly Ground-Water Monitoring Report No. 2 is submitted on behalf of Copper and Brass Sales, Inc. for the property at 1295 67th Street in Emeryville, California ("the Site"; Figure 1). The ground-water monitoring program is conducted at the Site pursuant to the Alameda County Health Care Services Agency's (ACHCSA) requirements contained in their letters to Copper and Brass Sales, Inc. dated March 30 and June 22, 1993.

This report presents the results of ground-water monitoring performed at the Site for the period of November 1993 through January 1994. The ground-water monitoring program was implemented at the Site in response to investigations which indicated the presence of fuel hydrocarbons (primarily diesel) in soil and ground water adjacent to former underground storage tank (UST) at the Site. Detailed descriptions of environmental investigations performed at the Site are included in the previously submitted Preliminary Site Assessment (PSA) report (Azure Environmental, 1993).

The Site is located within 1/2-mile east of the San Francisco Bay (Figure 1). The ground surface in the Site vicinity is approximately 30 feet above mean sea level and slopes gently toward the Bay. One 2,000-gallon capacity UST was previously located at the western boundary of the Site (Figure 2). The UST was reportedly installed at the Site in 1973 and was used to store diesel until October 1992. The tank was removed from the Site in December 1992. No other underground storage tanks are known to be present at the Site.

DESCRIPTION OF GROUND-WATER MONITORING PROGRAM

The ground-water monitoring program at the Site consists of the following activities:

- Quarterly collection of ground-water level measurements from monitoring well MW-1.

- Quarterly collection and laboratory analysis of a ground-water sample from monitoring well MW-1. The sample from was analyzed for Total Petroleum Hydrocarbons as diesel (TPHd) using EPA Method 3520, Total Petroleum Hydrocarbons as gasoline (TPHg) using Standard Method 5030 and benzene, toluene ethylbenzene and total xylenes (BTEX) using EPA Method 8020.

Methods and procedures used to perform quarterly monitoring activities are described in Appendix A.

GROUND-WATER MONITORING RESULTS

Ground-Water Elevations and Flow Direction

The quarterly and historical water-level measurements and calculated ground-water elevations in well MW-1 are summarized in Table 1. The depth to ground water measured on December 30, 1993 was 10.21 feet below grade (18.31 feet above mean sea level).

The ground-water flow direction and gradient at the Site was estimated using ground-water elevation data collected at the nearby Oliver Rubber facility. The Oliver Rubber facility is located at 1200 65th Street in Emeryville, approximately 600 feet southeast of the Site (Figure 1). Potentiometric surface maps using ground-water elevation data collected at Oliver Rubber on January 18 and July 14, 1993 are presented in Appendix C.

Ground-water elevation measurements at the Oliver Rubber facility indicate the general direction of ground-water flow is toward the southwest (see figures in Appendix C). The calculated horizontal ground-water gradient is 0.001 ft/ft. The ground-water flow direction at Oliver Rubber is generally consistent with the estimated ground-water flow direction (southwest) based on the proximity and direction of the facility to San Francisco Bay. Ground-water flow at the Oliver Rubber facility is expected to be representative of ground-water flow conditions at the Site since the two locations are relatively near each other (less than 2 blocks apart), and they are nearly the same distance and direction from the Bay.

Ground-Water Sampling and Laboratory Analysis

On December 30, 1993, a ground-water sample was collected from monitoring well MW-1. Quarterly and historical laboratory analysis results for well MW-1 are summarized in Table 2; laboratory certificates for the quarterly sample are included in Appendix B.

TPHd, TPHg and BTEX compounds were not detected in the ground-water sample from well MW-1. Floating free product was also not present in the well.

SUMMARY AND RECOMMENDATIONS

Quarterly ground-water monitoring results presented in this report indicate fuel hydrocarbons and related chemical compounds were not detected in the ground-water sample collected at the Site. Historical results indicate fuel hydrocarbons were not detected in the ground-water sample collected during the preceding quarterly period.

Based on results of three quarters of monitoring completed at the Site, it is recommended that the monitoring program be continued for one additional quarterly period. Data from the final and previous three quarterly monitoring events will be evaluated to develop a plan for site closure, which will be submitted with the final quarterly monitoring report on May 30, 1994.

SELECTED REFERENCES

Azure Environmental. 1993. Preliminary Site Assessment Report, August 30.

SIGNATURE PAGE

All hydrogeologic and geologic information, conclusions, and recommendations contained in this report have been prepared by a California Registered Geologist.

Jeff Hennier
Principal Hydrogeologist
California Registered Geologist (4605)

3/1/14
Date

TABLE 1

QUARTERLY AND HISTORICAL
GROUND-WATER ELEVATION DATA
1295 67th Street, Emeryville, California

Well Number	Well Elevation	Date Measured	Depth to Ground Water	Ground-Water Elevation
MW-1	28.52	7/29/93	10.70	17.82
		10/29/93	11.02	17.50
		12/30/93	10.21	18.31

Notes:

- Depth to ground water measured in feet
- Elevations measured relative to mean sea level (MSL)

TABLE 2

QUARTERLY AND HISTORICAL GROUND-WATER
SAMPLE ANALYSIS RESULTS (ppm)
1295 67th Street, Emeryville, California

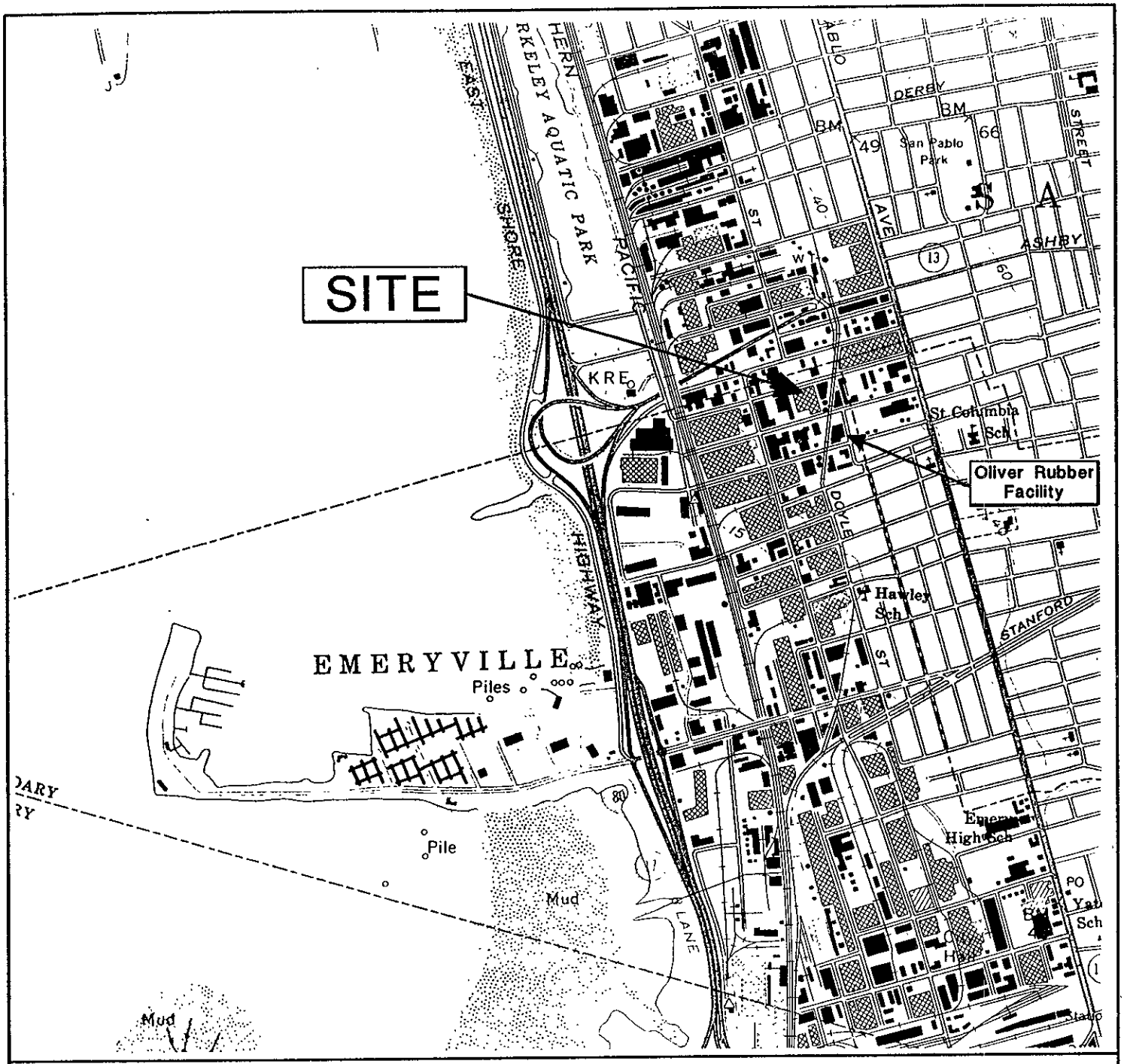
Well Number	Sample Date	TPHd	TPHg	B	T	E	X
MW-1	7/29/93	**0.09**	<0.05	<0.0005	<0.0005	<0.0005	<0.002
	10/29/93	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.002
	12/30/93	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.002

Notes:

- ppm - parts per million
- Samples analyzed by American Environmental Network, Pleasant Hill, California; Laboratory certificates are included in report Appendix B.

B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes

TPHd - Total Petroleum Hydrocarbons as Diesel
TPHg - Total Petroleum Hydrocarbons as Gasoline



Source: U. S. G. S.
Oakland West Quadrangle

Figure 1: Site Location Map

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AZ119–001

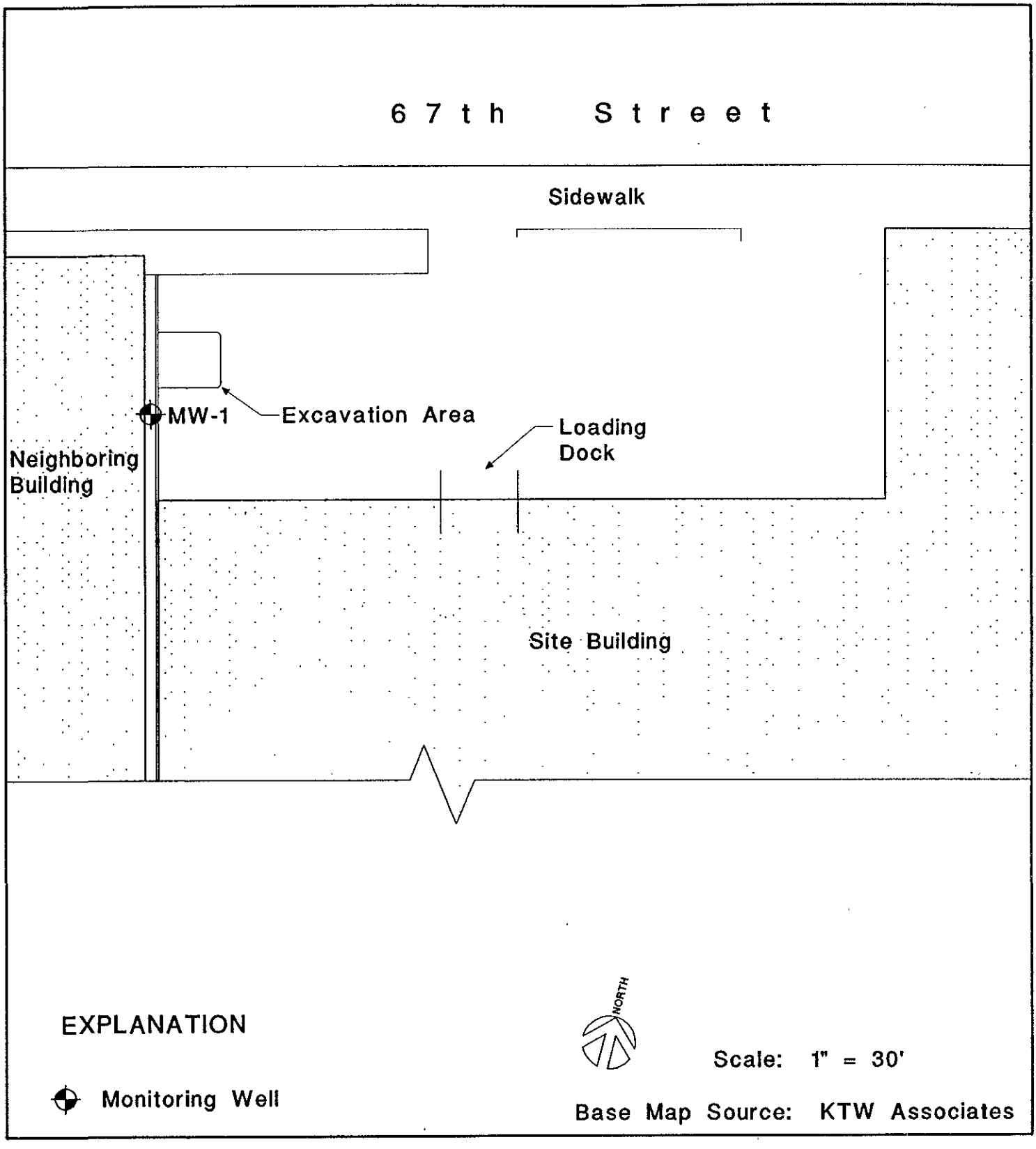

Figure 2: Site Plan

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APPENDIX A: FIELD METHODS AND PROCEDURES

Water-Level Measurement

A water-level measurement was collect on December 30, 1993 from well MW-1. The depth to water measurement was collected using an electric water-level meter. The ground-water elevation was calculated based on the measured depth to ground water.

Ground-Water Sampling

Well MW-1 was sampled on December 30, 1993. Prior to sampling, the well was purged by bailing to remove static water in the well. Observations of the quality and clarity of water withdrawn, and measurements of water temperature, pH and specific conductivity were recorded during this process. The wells were purged until the above parameters stabilized. Approximately 3 well volumes were removed during well purging.

Ground-water samples were collected using a clean Teflon bailer and gently poured into laboratory supplied containers which were appropriate for the type of analyses performed on the sample. Samples analyzed for TPHg and BTEX were placed in 40-milliliter VOA containers. Samples analyzed for diesel were placed in one-liter amber containers. The containers were filled so as to exclude air bubbles, in order to minimize potential volatilization of chemical compounds in the samples. The water samples were placed in a chilled cooler immediately after collection for transport to the laboratory.

Purge Water Storage

Purge water generated during well sampling activities was temporarily stored at the Site in a 55-gallon drum. Appropriate disposal options will be evaluated.

APPENDIX B: LABORATORY CERTIFICATES

American Environmental Network

DOHS Certification: 1172

CERTIFICATE OF ANALYSIS

AZURE ENVIRONMENTAL
1001 LINCOLN AVENUE
SAN RAFAEL, CA 94901

ATTN: JEFF HENNIER

CLIENT PROJ. ID: 119.001
PROJ. NAME: C & B SALES

REPORT DATE: 01/13/94

DATE SAMPLED: 12/30/93

DATE RECEIVED: 12/30/93

AEN JOB NO: 9312318

PROJECT SUMMARY:

On December 30, 1993, this laboratory received one (1) water sample.

Client requested the sample be analyzed for organic parameters. Sample identification, methodologies, results, and dates analyzed are summarized on the following pages.

All laboratory quality control parameters were found to be within established limits. Batch QC data is included at the end of this report.

If you have any questions, please contact Client Services at (510) 930-9090.

Andrew Bradeen for
Larry Klein
General Manager

Results FAXed 01/11/94

AZURE ENVIRONMENTAL

SAMPLE ID: MW-1
AEN LAB NO: 9312318-01
AEN WORK ORDER: 9312318
CLIENT PROJ. ID: 119.001

DATE SAMPLED: 12/30/93
DATE RECEIVED: 12/30/93
REPORT DATE: 01/13/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	01/05/94
Toluene	108-88-3	ND	0.5	ug/L	01/05/94
Ethylbenzene	100-41-4	ND	0.5	ug/L	01/05/94
Xylenes, Total	1330-20-7	ND	2	ug/L	01/05/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	01/05/94
#Extraction for Diesel/Oil	EPA 3510	-		Extrn Date	12/31/93
TPH as Diesel	GC-FID	ND	0.05	mg/L	01/05/94

ND = Not detected
* = Indicates value above reporting limit

QUALITY CONTROL DATA

DATE EXTRACTED: 12/30/93
DATE ANALYZED: 12/30/93
CLIENT PROJ. ID: 119.001

AEN JOB NO: 9312318
SAMPLE SPIKED: D.I. WATER
INSTRUMENT: C

METHOD SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE WATER
METHOD: EPA 3510 GCFID

ANALYTE	Spike Conc. (mg/L)	Average Percent Recovery	RPD
Diesel	2.02	79	<1

CURRENT QC LIMITS (Revised 10/18/93)

Analyte	Percent Recovery	RPD
Diesel	(55-119)	8

RPD = Relative Percent Difference

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

CLIENT PROJ. ID: 119.001

AEN JOB NO: 9312318

INSTRUMENT: F

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION Client Id.	Lab Id.	SURROGATE RECOVERY (PERCENT) Fluorobenzene
01/05/94	MW-1	01	99

CURRENT QC LIMITS

ANALYTE	PERCENT RECOVERY
Fluorobenzene	(70-115)

QUALITY CONTROL DATA

DATE ANALYZED: 01/05/94
SAMPLE SPIKED: 9312306-03
CLIENT PROJ. ID: 119.001

AEN JOB NO: 9312318
INSTRUMENT: F

MATRIX SPIKE RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

ANALYTE	Spike Conc. (ug/L)	Average Percent Recovery	RPD
Benzene	8.9	103	1
Toluene	31.2	103	<1
Hydrocarbons as Gasoline	500	106	<1

CURRENT QC LIMITS (Revised 05/14/92)

Analyte	Percent Recovery	RPD
Benzene	(81-115)	10
Toluene	(85-112)	9
Gasoline	(72-119)	12

RPD = Relative Percent Difference

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

93123 18

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
117.001	C. [illegible] Sales

Send Report Attention of:	Report Due	Verbal Due
J. H. Hemmer	/ /	/ /

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPH (D)	Type of Analysis: TPH (g) BTEX	Condition of Samples	Initial
MW-1	12/30/93	2:00	H_2O		01A-E	5	3 VOAs 2 liter amber	X	X		

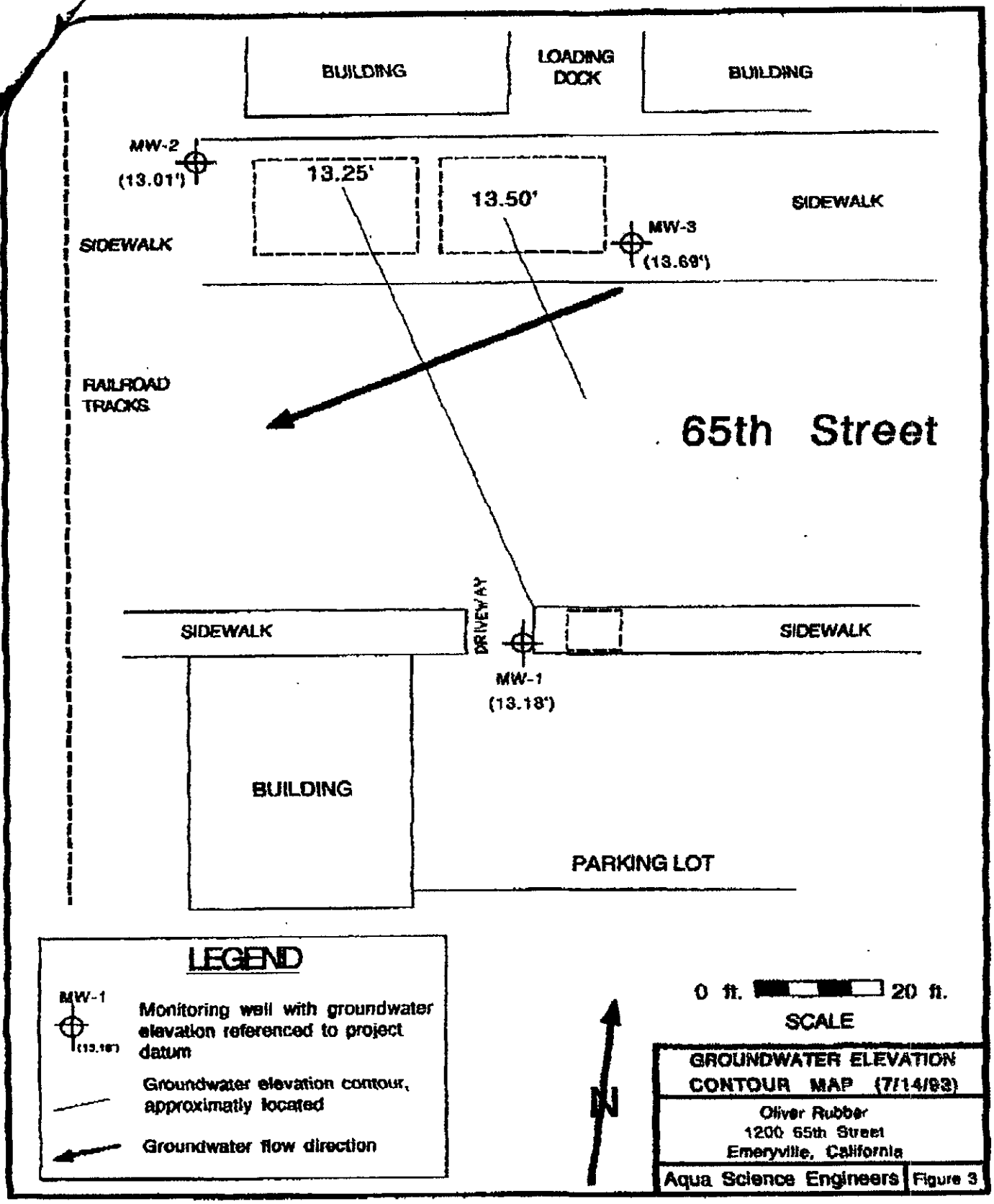
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	12/30/93	[signature]	12/30/93 500
[signature]	12/30/93 500	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab: [signature]	Date/Time 12-30-93 1720

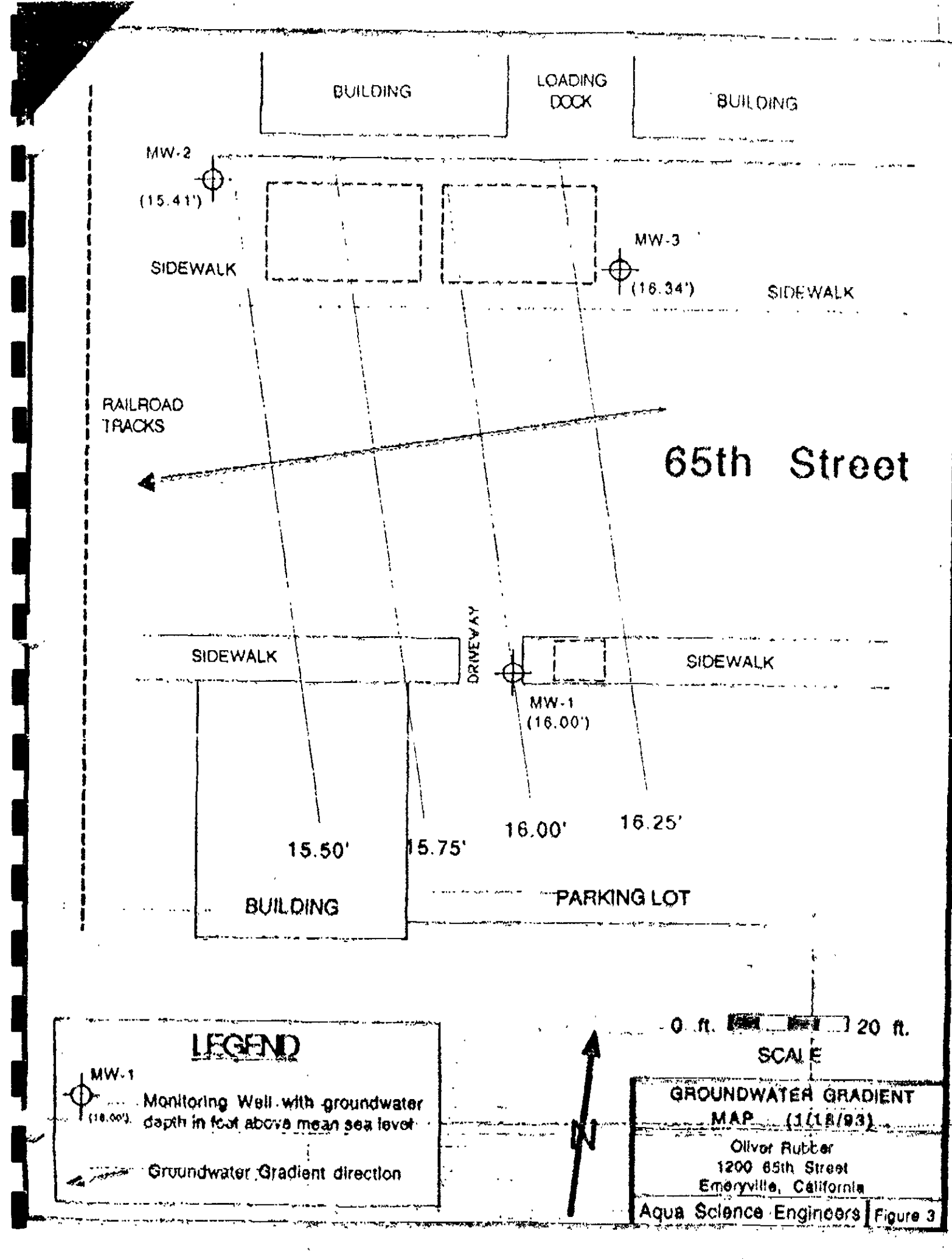
Remarks:

COMPANY:
ADDRESS:
PHONE :
FAX :

APPENDIX C

POTENTIOMETRIC SURFACE MAP FROM THE NEARBY OLIVER RUBBER FACILITY


BUILDING
LOADING DOCK
BUILDING
MW-2
(13.01')
13.25'
13.50'
SIDEWALK
SIDEWALK
MW-3
(13.69')
RAILROAD TRACKS
65th Street
DRIVEWAY
SIDEWALK
SIDEWALK
MW-1
(13.18')
BUILDING
PARKING LOT
LEGEND
MW-1
(13.18')
Monitoring well with groundwater elevation referenced to project datum
Groundwater elevation contour, approximatly located
Groundwater flow direction
N
0 ft.
20 ft.
SCALE
GROUNDWATER ELEVATION CONTOUR MAP (7/14/93)
Oliver Rubber
1200 65th Street
Emeryville, California
Aqua Science Engineers
Figure 3


BUILDING
LOADING DOCK
BUILDING
MW-2
(15.41')
MW-3
(16.34')
SIDEWALK
SIDEWALK
RAILROAD TRACKS
65th Street
SIDEWALK
DRIVEWAY
SIDEWALK
MW-1
(16.00')
15.50'
15.75'
16.00'
16.25'
BUILDING
PARKING LOT
LEGEND
MW-1
(16.00')
Monitoring Well with groundwater depth in feet above mean sea level
Groundwater Gradient direction
0 ft.
20 ft.
SCALE
N
GROUNDWATER GRADIENT MAP (1/18/93)
Oliver Rubber
1200 65th Street
Emeryville, California
Aqua Science Engineers
Figure 3