Crosby & Overton
Industrial & Environmental Services

FAXOGRAM

TRANSMISSION ERROR
⇒ RESENDING

TO: FROM:

NAME Amir GHOLAMI DARRELL TAYLOR

COMPANY CROSBY & OVERTON, INC.

PHONE: ( ) (510) 633-0336

FAX: (510) 569-4757 (510) 633-0759

MESSAGE: MR. GHOLAMI,

HERE IS THE INFORMATION ON THE RECENT GROUNDWATER MONITORING HISTORY.

BIT OF CONCERN NOW IS THE OIL TANK (SEE FIG-3) IT HAS BEEN CLEANED OF ALL MATERIAL, IT IS A CEMENT LINED VAULT, IT HAD A STEEL LINER WHICH WAS REMOVED AS PART OF THE CLEANING PROCESS. THE MATERIAL REMOVED FROM THE OIL TANK WAS BEEN DRUMMED ON-SITE AND IS AWAITING REMOVAL.

THE OWNER REQUESTS PERMISSION TO BACKFILL THIS TANK BEFORE RAINWATER BEGINS TO COLLECT IN THE TANK. ANY TIME YOU CAN LEND TO THIS MATTER WOULD BE MUCH APPRECIATED. THANKS!

Pamela Taylor

( ) ORIGINAL TO FOLLOW:
( ) VIA U.S. MAIL
( ) VIA EXPRESS MAIL

(X) NO HARD COPY TO FOLLOW

( ) PLEASE CONFIRM RECEIPT OF FACSIMILE TRANSMITTAL

( ) REPLY REQUESTED

THIS FAXOGRAM HAS A TOTAL OF 7 PAGES, INCLUDING THIS PAGE. IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT US IMMEDIATELY AT THE TELEPHONE NUMBER LISTED ABOVE.

8430 Amelia Street, Oakland, California 94621
(510) 633-0336 (800) 821-0424 FAX (510) 633-0759

August 27, 1992

Alameda Co. Health Agency
Division of Hazardous Materials
Dept. of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
Attn: Ravi Arulanantham

Dear Mr. Arulanantham;

Enclosed please find the letter report of the latest Groundwater Monitor Well Sampling at Hoyt and Buettner Tractor Co., 22117 Meekland Ave., Hayward, California, submitted to us by Crosby & Overton Industrial & Environmental Services.

Sincerely,

Harry Buettner

Crosby & Overton
Industrial & Environmental Services

92 AUG 21 PM 2:47

August 18, 1992 9472-S

Harry Buettner
Hoyt & Buettner Tractor Co.
22117 Meekland Avenue
Hayward, CA 94541

RE: Groundwater Monitoring Well Sampling at Hoyt & Buettner Tractor Co. 22117 Meekland Avenue, Hayward, California

Dear Mr. Buettner,

Crosby & Overton, Inc. (C&O) is pleased to submit this letter report concerning the results of groundwater monitoring well sampling and analyses for three groundwater monitoring wells (MW-1, MW-2, MW-3) at 22117 Meekland Avenue, Hayward California (see Figure 1).

BACKGROUND

At this site a waste oil underground storage tank was removed, the excavation pit was backfilled and the area was re-paved with concrete. Due to the discovery that samples from the backfill material were hydrocarbon impacted, re-excavation of the material and further excavation of adjacent impacted soils was required.

C&O was contracted by Hoyt & Buettner Tractor Company to re-excavate; overexcavate as necessary; conduct clearance sidewall sampling; biodetoxify the excavated soil; and to install, develop, and sample three groundwater monitoring wells at the site.

On August 4, 1992 C&O personnel resampled the three wells located at 22117 Meekland Avenue (see Figure 2).

PROCEDURES

Standard Operating Procedures for groundwater monitoring well sampling is included as an attachment.

After stabilization, the wells were sampled and analyzed for total oil and grease (TOG), total petroleum hydrocarbons as diesel (TPH-d), and BTEX (benzene, toluene, xylenes, and ethylbenzene). All samples from this sampling event were sent to Quanteq Laboratories

of Pleasant Hill, California (formerly Med-Tox). Quanteq Laboratories is certified by the State of California for the analyses requested.

RESULTS AND CONCLUSIONS

All groundwater monitoring well samples yielded not detected levels for TOG, TPH-d, and BTEX (see Table 1). Groundwater elevations and gradient directions are given in Table 2.

TABLE 1

ANALYTIC RESULTS OF GROUNDWATER MONITORING WELL SAMPLING

DATE	SAMPLE	TOG ppm	TPH-d ppm	B ppb	T ppb	E ppb	X ppb
04/05/91	MW-1	ND	ND	ND	ND	ND	ND
10/08/91	MW-1	ND	ND	ND	ND	ND	ND
03/27/92	MW-1	ND	ND	ND	ND	ND	ND
08/04/92	MW-1	ND	ND	ND	ND	ND	ND
04/05/91	MW-2	0.2	ND	ND	ND	ND	ND
10/08/91	MW-2	ND	ND	ND	1.0	ND	ND
03/27/92	MW-2	ND	ND	ND	ND	ND	ND
08/04/92	MW-2	ND	ND	ND	ND	ND	ND
04/05/91	MW-3	ND	ND	ND	ND	ND	ND
10/08/91	MW-3	ND	ND	ND	ND	ND	ND
03/27/92	MW-3	ND	ND	ND	ND	ND	ND
08/04/92	MW-3	ND	ND	ND	ND	ND	ND

TOG = total oil and grease
TPH-d = total petroleum hydrocarbons as diesel
B = benzene
T = toluene
E = ethylbenzene
X = xylenes
ppm = parts per million (mg/L)
ppb = parts per billion (μg/L)

TABLE 2
GROUNDWATER ELEVATIONS

DATE	WELL ID	TOC	DEPTH TO WATER	GROUNDWATER ELEVATION	GROUNDWATER GRADIENT
4-5-91	MW-1	63.97'	35.95'	28.02'	0.003 W/NW
4-5-91	MW-2	63.71'	35.69'	28.02'	
4-5-91	MW-3	63.65'	35.55'	28.10'	
10-8-91	MW-1	63.97'	36.82'	27.15'	0.003 WEST
10-8-91	MW-2	63.71'	36.60'	27.11'	
10-8-91	MW-3	63.65'	36.49'	27.16'	
3-27-92	MW-1	63.97'	34.78'	29.19'	0.000
3-27-92	MW-2	63.71'	34.52'	29.19'	
3-27-92	MW-3	63.65'	34.46'	29.19'	
8-4-92	MW-1	63.97'	35.53'	28.44'	0.0006 EAST
8-4-92	MW-2	63.71'	35.26'	28.45'	
8-4-92	MW-3	63.65'	35.21'	28.44'	

TOC = Top Of Casing
Top Of Casing Referenced To Mean Sea Level

REPORTAGE

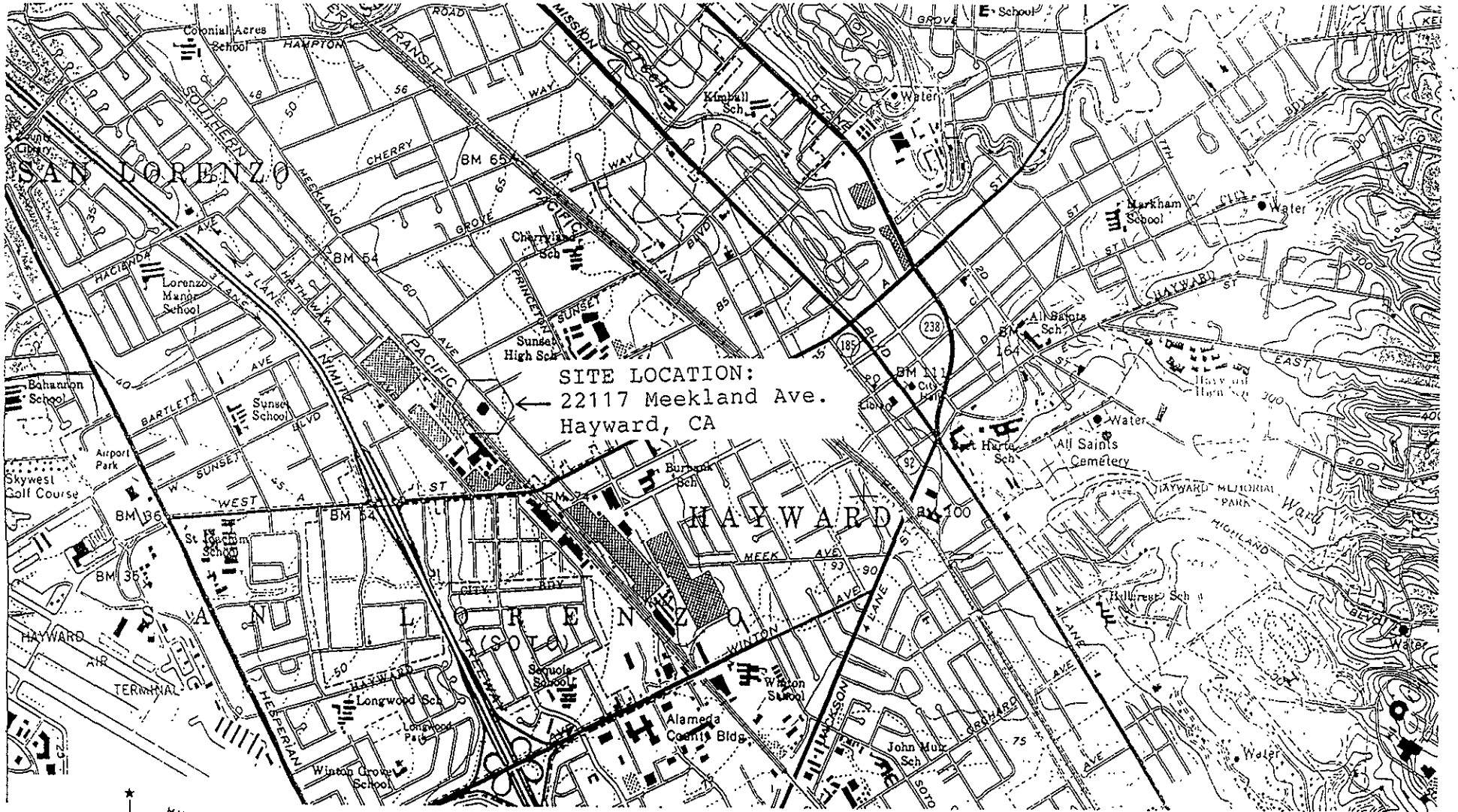
SFBRWQCB
2101 Webster Street
Oakland, CA 94612
Attn: **Tom Gandesbery**

Alameda Co Health Agency
Division of Hazardous Materials
Dept of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
Attn: **Ravi Arulanantham**

Should you have any questions or comments, or if we may be of further service, please do not hesitate to call me at (510) 633-0336.

Sincerely,

Darrell Taylor
Environmental Geologist



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FAX (415) 633-0759

FIGURE 1
After USGS 15' Hayward CA quadrangle 1959, rev. 1980.

DATE -16-1991 JOB NUMBER [illegible] DRAWN BY [illegible]

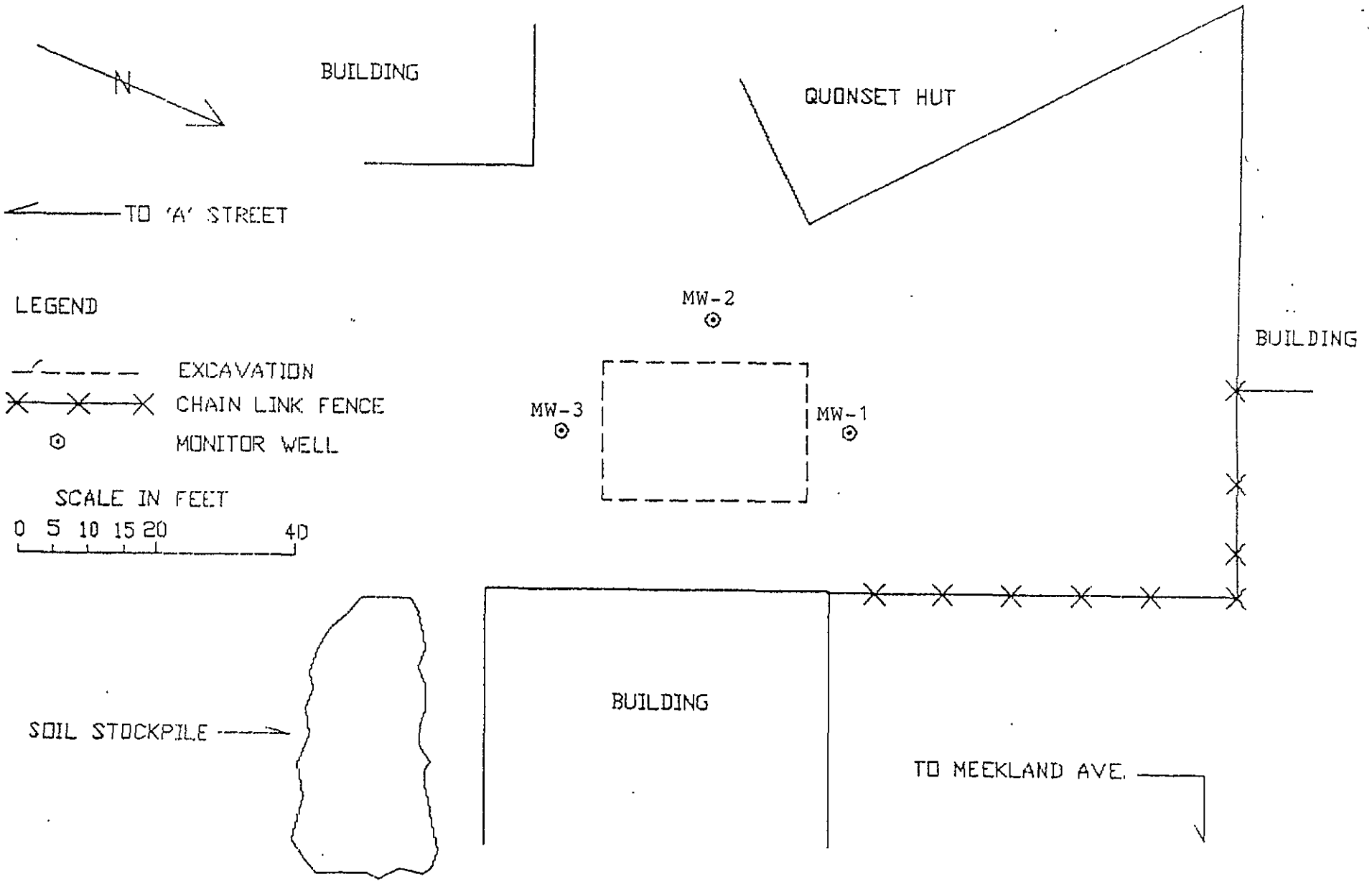

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FIGURE 2
SITE MAP

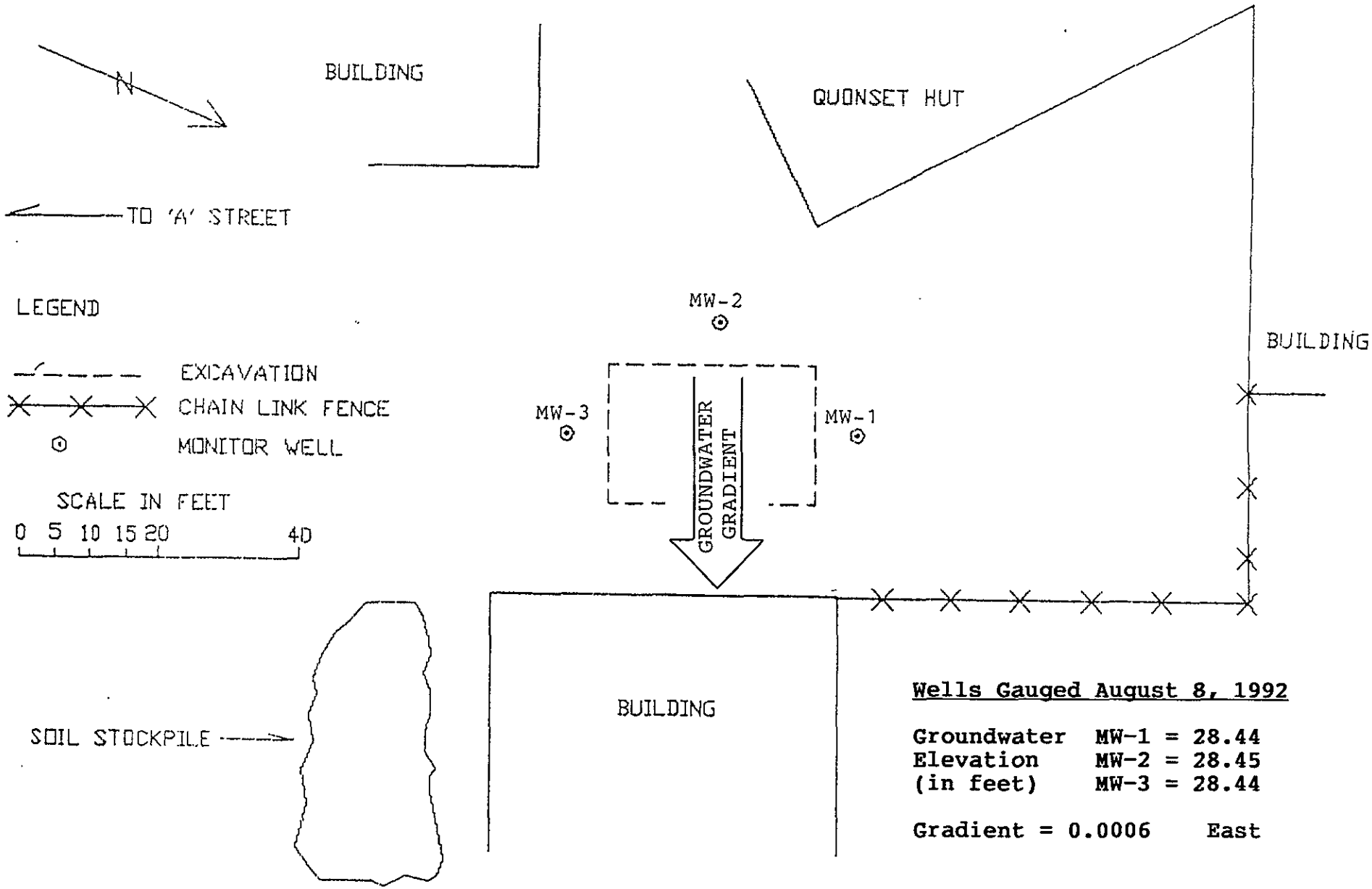

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FIGURE 3
SITE MAP

APPENDIX A

STANDARD OPERATING PROCEDURES

CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
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STANDARD OPERATING PROCEDURES

Monitoring Well Sampling

A minimum of three well volumes are pumped from each well, each well is permitted to recharge to ≥80% of original capacity and stabilize. Stabilization is determined by measuring the parameters of pH; temperature; and electrical conductivity. When two subsequent measurements of these three parameters are within 10% of each other, the well is considered stabilized and is sampled.

The samples are collected using a new polyethylene bailer with a bottom siphon and nylon cord. The bailers are disposable, and therefore, never reused. Duplicate water samples for volatile organic compounds are collected from the well and siphoned into three (3) clear 40 ml VOA vials with all headspace removed, and preserved with hydrochloric acid. For all other analyses, samples are collected in 950 ml amber glass bottles. All samples are labeled, chilled to 4°C (utilizing either crushed ice or Blue-Ice®) in an ice chest, and sent to a California State Certified hazardous materials testing laboratory under chain-of-custody documentation.

Groundwater sampling is performed in accordance with the California Regional Water Quality Control Board (RWQCB) procedures described in the *Leaking Underground Fuel Tank (LUFT) Field Manual, the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites,* and local regulatory guidelines.

Standard Environmental Protection Agency (EPA), San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), and Department of Health Services (DHS) methodologies are routinely utilized.

Chain of Custody documentation accompanies all samples to the laboratory. A copy of the Chain of Custody documentation is attached to the Certificate of Analysis.

APPENDIX B

LABORATORY RESULTS
&
CHAIN OF CUSTODY DOCUMENTATION

Quanteq Laboratories

An Ecologics Company

FORMERLY MED-TOX

Certificate of Analysis

DOHS CERTIFICATION NO. E772

AIHA ACCREDITATION NO. 332

CROSBY & OVERTON, INC.
8430 AMELIA STREET
OAKLAND, CA 94621

ATTN: DARRELL TAYLOR

CLIENT PROJ. ID: 9472-S
P.O. NO: 13930

REPORT DATE: 08/17/92

DATE SAMPLED: 08/04/92

DATE RECEIVED: 08/05/92

QUANTEQ JOB NO: 9208037

ANALYSIS OF: WATER SAMPLES

Client Sample Id.	Quanteq Lab Id.	Extractable Hydrocarbons as Diesel (mg/L)	Oil & Grease (mg/L)	Hydrocarbons (mg/L)
MW-1	01A	---	ND	ND
MW-1	01B	ND	---	---
MW-2	02A	---	ND	ND
MW-2	02B	ND	---	---
MW-3	03A	---	ND	ND
MW-3	03B	ND	---	---
Detection Limit		0.05	1	1
Method:		3510 GCFID	5520B	5520F
Instrument:		C	ME1	ME1
Date Extracted:		08/06/92	08/07/92	08/07/92
Date Analyzed:		08/06/92	08/07/92	08/07/92

ND = Not Detected

Larry Klein For
Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 08/14/92

CROSBY & OVERTON, INC.

SAMPLE ID: MW-1
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 08/04/92
DATE RECEIVED: 08/05/92
REPORT DATE: 08/17/92

QUANTEQ LAB NO: 9208037-01C
QUANTEQ JOB NO: 9208037
DATE ANALYZED: 08/06/92
INSTRUMENT: F

BTEX (WATER MATRIX)
METHOD: EPA 8020 (5030)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

CROSBY & OVERTON, INC.

SAMPLE ID: MW-2
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 08/04/92
DATE RECEIVED: 08/05/92
REPORT DATE: 08/17/92

QUANTEQ LAB NO: 9208037-02C
QUANTEQ JOB NO: 9208037
DATE ANALYZED: 08/06-07/92
INSTRUMENT: F

BTEX (WATER MATRIX)
METHOD: EPA 8020 (5030)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

CROSBY & OVERTON, INC.

SAMPLE ID: MW-3
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 08/04/92
DATE RECEIVED: 08/05/92
REPORT DATE: 08/17/92

QUANTEQ LAB NO: 9208037-03C
QUANTEQ JOB NO: 9208037
DATE ANALYZED: 08/06-07/92
INSTRUMENT: F

BTEX (WATER MATRIX)
METHOD: EPA 8020 (5030)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

QUALITY CONTROL DATA

DATE EXTRACTED: 08/10/92
DATE ANALYZED: 08/10/92
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9208037
SAMPLE SPIKED: D.I. WATER
INSTRUMENT: ME1

GRAVIMETRIC DETERMINATION/OIL AND GREASE
MATRIX SPIKE RECOVERY SUMMARY
METHOD 5520B (WATER MATRIX)

ANALYTE	MS Conc. (mg/L)	MSD Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Oil	70.4	67.9	ND	69.4	65.0	97.2	3.0

CURRENT QC LIMITS (Revised 06/22/92)

Analyte	Percent Recovery	RPD
Oil	(92-100)	5.0

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

QUALITY CONTROL DATA

DATE EXTRACTED: 08/06/92
DATE ANALYZED: 08/06/92
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9208037
SAMPLE SPIKED: D.I. WATER
INSTRUMENT: C

MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE WATER
METHOD 3520 GCFID
(WATER MATRIX; EXTRACTION METHOD)

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Diesel	2.61	ND	2.07	2.12	80.3	2.4

CURRENT QC LIMITS (Revised 08/15/91)

Analyte	Percent Recovery	RPD
Diesel	(49-101)	29

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

QUALITY CONTROL DATA

DATE ANALYZED: 08/05/92
SAMPLE SPIKED: 9208048-01A
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9208037
INSTRUMENT: F

MATRIX SPIKE RECOVERY SUMMARY
METHOD 5030 w/GCFID/8020
(WATER MATRIX)

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
Benzene	14.2	ND	13.6	14.3	98.2	5.0
Toluene	46.7	ND	46.3	48.5	101.5	4.6
Hydrocarbons as Gasoline	500	ND	519	550	106.9	5.8

CURRENT QC LIMITS (Revised 05/14/92)

Analyte	Percent Recovery	RPD
Benzene	(81.4-115.3)	10.2
Toluene	(85.3-112.4)	9.4
Gasoline	(72.0-119.4)	12.8

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

R-1, 5-1
R-3, 5-1

9208037

PROJ. NO.	PROJECT NAME	P.O. NO.
9472-3	MELKLAND	13930

SAMPLERS: Signature Daniel Taylor — Send report attention to

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TOG 5520 B/F	TPH-D (BTEX)	REMARKS
mw-1	8-4-92	10:00		X	22117 MELKLAND 01A-E	3 VOA/2-950	X	X	
mw-2	8-4-92	12:00		X	22117 MELKLAND 02A-E	3 VOA/2-950	X	X	
mw-3	8-4-92	2:30		X	22117 MELKLAND 03A-E	3 VOA/2-950	X	X	

Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time
Daniel Taylor	8-5-92/12:00	Robert W. Mann	8-5-92/12:05
Relinquished by:Signature Robert W. Mann	Date/Time 8-5-92/1250	Received by:Signature	Date/Time
Relinquished by:Signature	Date/Time	Received by:Signature Denise Harrington	Date/Time 8/5/92/1250

REMARKS: NORMAL TAT

Company Name
Address QUANTIC
930-9090

CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
(800) 821-0424 • (415) 633-0336
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