

Table I Analytic results of groundwater well sampling.

DATE	SAMPLE	TOG ppm	TPHd ppm	B ppb	T ppb	X ppb	E ppb
Detection Limits		0.05	0.05	0.3	0.3	1.0	0.3
04/05/91	MW-1	ND	ND	ND	ND	ND	ND
10/08/91	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
04/05/91	MW-3	ND	ND	ND	ND	ND	ND
10/08/91	MW-3	ND	ND	ND	ND	ND	ND

TOG = Total Oil and Grease
 TPHd = Total Petroleum Hydrocarbons as diesel
 ppm = parts per million (mg/L)
 ppb = parts per billion (µg/L)
 ND = not detected

RESULTS AND CONCLUSIONS

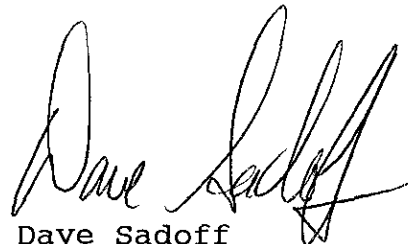
Groundwater monitoring wells MW-1 and MW-3 had below detectable quantities of TOG, TPHd, and BTEX. MW-2 yielded below detectable quantities for all analyses except for toluene. Toluene concentration in MW-2 was detected at 1.0 parts per billion (ppb).

If we may be of further service, or should you have any questions, please contact us at your convenience.

Sincerely,



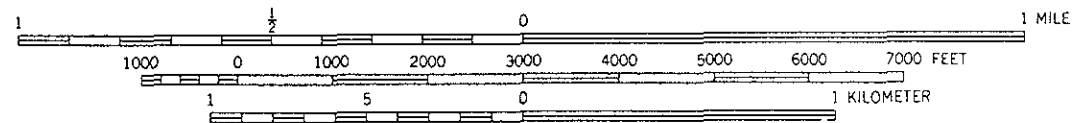
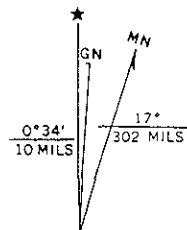
Matthew Walraven
Staff Geologist



Dave Sadoff
Project Geologist



SITE LOCATION:
 ← 22117 Meekland Ave.
 Hayward, CA



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

UTM GRID AND 1980 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

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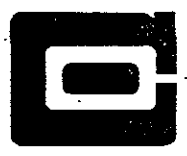
(800) 821-0424 • (415) 633-0336
 FAX (415) 633-0759

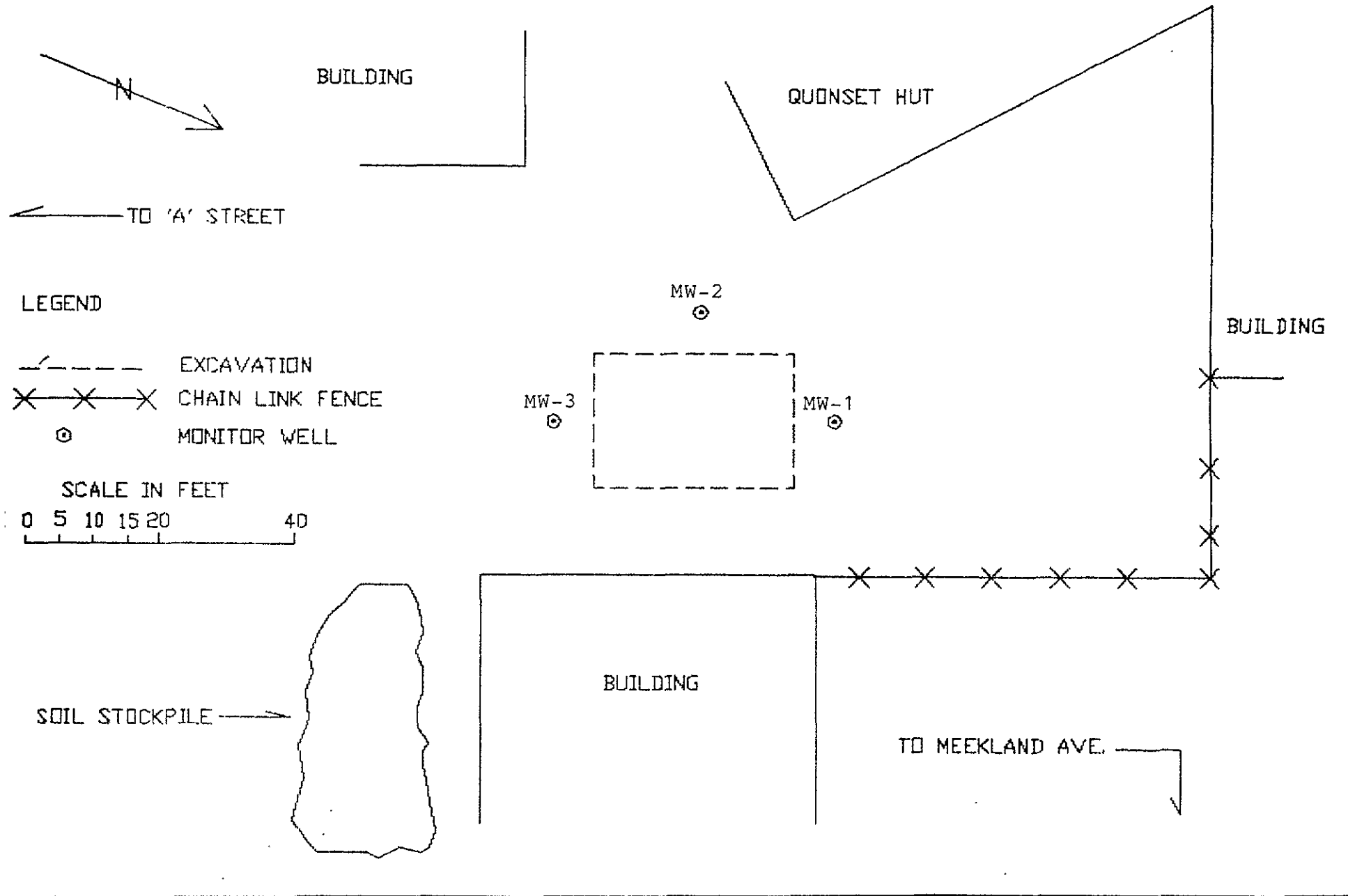
After USGS 15' Hayward CA quadrangle
 1959, rev. 1980.

FIGURE 1




DATE: 5-16-1991 JOB NUMBER: 8205-S

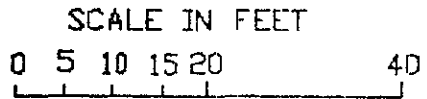
DRAWN BY: MHW





LEGEND

-  EXCAVATION
-  CHAIN LINK FENCE
-  MONITOR WELL



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FIGURE 2
 SITE MAP

DATE: 5-16-1991 JOB NUMBER: 8205-S

DRAWN BY: M. Ayala



APPENDIX A
STANDARD OPERATING PROCEDURES

STANDARD OPERATING PROCEDURESMonitoring Well Sampling

A minimum of three well volumes are pumped from each well, each well is permitted to recharge to $\geq 80\%$ 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. 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 transported in a refrigerated environment under Chain-of-Custody documentation to a California State certified hazardous materials testing laboratory for the analyses requested.

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 REPORT

ANALYTICAL SERVICES

RECEIVED

OCT 17 1991

MED-TOX
ASSOCIATES, INC

Ans'd.....

DOHS CERTIFICATION NO: E772

CERTIFICATE OF ANALYSIS

PAGE 1 OF 7

CROSBY & OVERTON, INC.
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OAKLAND, CA 94621

REPORT DATE: 10/18/91

DATE SAMPLED: 10/08/91

ATTN: DAVE SADOFF

DATE RECEIVED: 10/08/91

CLIENT PROJ. ID: 9149-S
PURCHASE ORDER NO: 12372

MED-TOX JOB NO: 9110077

ANALYSIS OF: WATER SAMPLES

Sample Identification	Extractable Hydrocarbons as Diesel (mg/L)	Oil & Grease (mg/L)	Hydrocarbons (mg/L)
Client Id. Lab No.			
MW-1 01C	ND	---	---
MW-1 01D	---	ND	ND
MW-2 02C	ND	---	---
MW-2 02D	---	ND	ND
MW-3 03C	ND	---	---
MW-3 03D	---	ND	ND
Detection Limit	0.05	0.5	0.5
Method:	3510 GCFID	5520C	5520F
Instrument:	E	IR	IR
Date Extracted:	10/11/91	10/09/91	10/09/91
Date Analyzed:	10/15/91	10/09/91	10/09/91

ND = Not Detected



Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 10/17/91

CROSBY & OVERTON, INC.

CLIENT PROJ. ID: 9149-S
CLIENT ID: MW-1
DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/08/91
REPORT DATE: 10/18/91

MED-TOX LAB NO: 9110077-01A
MED-TOX JOB NO: 9110077
DATE ANALYZED: 10/11/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

	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.

CLIENT PROJ. ID: 9149-S
CLIENT ID: MW-2
DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/08/91
REPORT DATE: 10/18/91

MED-TOX LAB NO: 9110077-02A
MED-TOX JOB NO: 9110077
DATE ANALYZED: 10/11/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

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

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT PROJ. ID: 9149-S
CLIENT ID: MW-3
DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/08/91
REPORT DATE: 10/18/91

MED-TOX LAB NO: 9110077-03A
MED-TOX JOB NO: 9110077
DATE ANALYZED: 10/11/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

	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
CROSBY & OVERTON, INC.
CLIENT PROJECT ID: 9149-S
MED-TOX JOB NO: 9110077

DATE EXTRACTED: 10/09/91
DATE ANALYZED: 10/09/91
SAMPLE SPIKED: D.I. WATER

MED-TOX JOB NO: 9110077
CLIENT PROJ. ID: 9149-S
INSTRUMENT: IR

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
METHOD SPIKE RECOVERY SUMMARY
WATER MATRIX

ANALYTE	MS Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Oil	7.33	ND	7.00	7.00	95.5	0.0

CURRENT QC LIMITS (Revised 08/14/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Oil	(87-116)	6.5

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

DATE EXTRACTED: 10/11/91
DATE ANALYZED: 10/15/91
CLIENT PROJ. ID: 9149-S

MED-TOX JOB NO: 9110077
SAMPLE SPIKED: D.I. WATER
INSTRUMENT: E

**MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE WATERS
METHOD 3510 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	0.636	ND	0.468	0.478	74.4	2.1

CURRENT QC LIMITS (Revised 08/15/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Diesel	(49.3-101.4)	29.0

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

DATE ANALYZED: 10/11/91

MED-TOX JOB NO: 9110077

SAMPLE SPIKED: 9110077-01A

INSTRUMENT: F

**MATRIX SPIKE RECOVERY SUMMARY
METHOD TPHBTW
5030 w/GCFID/8020**

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
Benzene	15.6	ND	14.3	15.7	96.2	9.3
Toluene	64.5	ND	59.4	64.8	96.8	8.7
Hydrocarbons as Gasoline	519	ND	518	561	104.0	8.0

CURRENT QC LIMITS (Revised 08/15/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Benzene	(77.7-118.0)	10.3
Toluene	(80.7-116.2)	10.1
Gasoline	(72.5-110.7)	13.6

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

1, 2, 3

9110011

PROJ. NO. 91495	PROJECT NAME NEEDLAND	P.O. NO. 12372	NO. OF CON-TAINERS
--------------------	--------------------------	-------------------	--------------------

SAMPLERS: Signature *[Signature]* Send report attention to *[Signature]*

BTPH-DTBIE
5520 Y/C

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION						REMARKS
MW-1	10/8/91	14:02		✓	WELL ONE	4	X	X			01A-D
MW-2	"	14:31		✓	WELL TWO	4	X	X			02A-D
MW-3	"	14:14		✓	WELL THREE	4	X	X			03A-D

Relinquished by: Signature <i>[Signature]</i>	Date/Time 10/8/91 15:21	Received by: Signature <i>[Signature]</i>	Date/Time 10/8/91 3:21	REMARKS: Company Name Address
Relinquished by: Signature <i>[Signature]</i>	Date/Time 10/8/91 5:30	Received by: Signature <i>[Signature]</i>	Date/Time 10/8/91 17:30	
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time	

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