L. B. Reed Construction, Inc.

22232 Moyers Street
Castro Valley, California 94546
(415) 537-7718
License #412678

92 MAY -8 PM 12:12

May 6, 1992

Alameda Co Health Agency
Division of Hazardous Materials
Dept of Environmental Health
80 Swan Way,Room 200
Oakoland,CA 94621

Attn: Ravi Arulanantham

RE: GROUNDWATER MONITOR WELL SAMPLING AT HOYT & BUETTNER TRACTOR CO.

Dear Mr. Arulanantham

Enclosed please find a copy of the recent groundwater monitoring report for the Hoyt & Buettner Tractor Co., 22117 Meekland Ave.,Hayward,CA

Crosby & Overton,Inc. are pleased to note that all analytes have dropped to non dectectable levels.

Should you have any question, please call(510)537-7718.

Thank You,

Lynn B. Reed

CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

92 MAY -5 PM 3:12

April 20, 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 March 27, 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.

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
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
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

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)

RESULTS AND CONCLUSIONS

All groundwater monitoring well samples yielded not detected levels for TOG, TPH-d, and BTEX (see Table 1).

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**

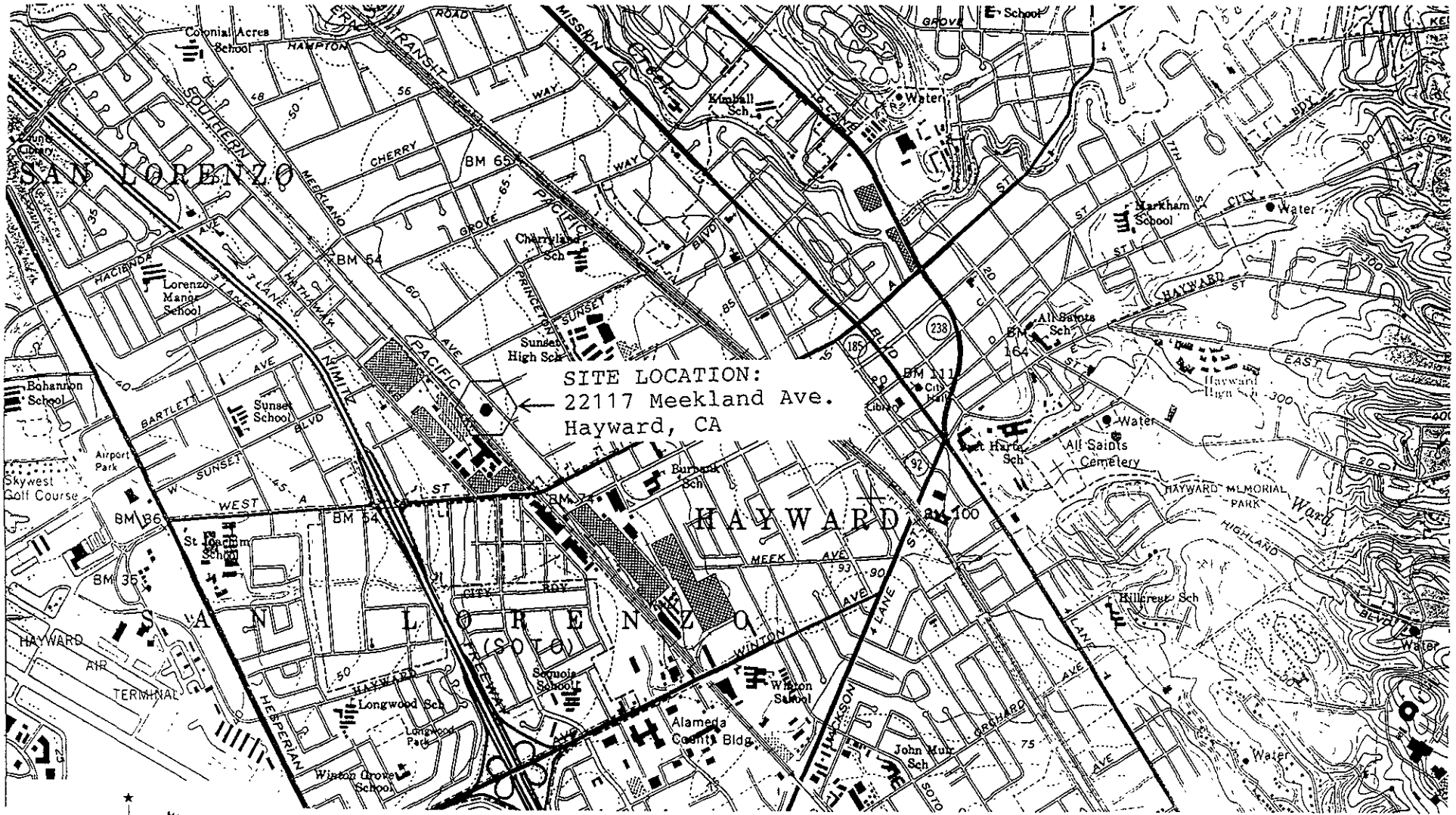
Should you have any questions or comments, or if we may be of further service, please do not hesitate to call us at (510) 633-0336.

Sincerely,

Darrell Taylor
Staff Geologist

Dave Sadoff
Project Environmental Geologist
R.E.A. No. 03642

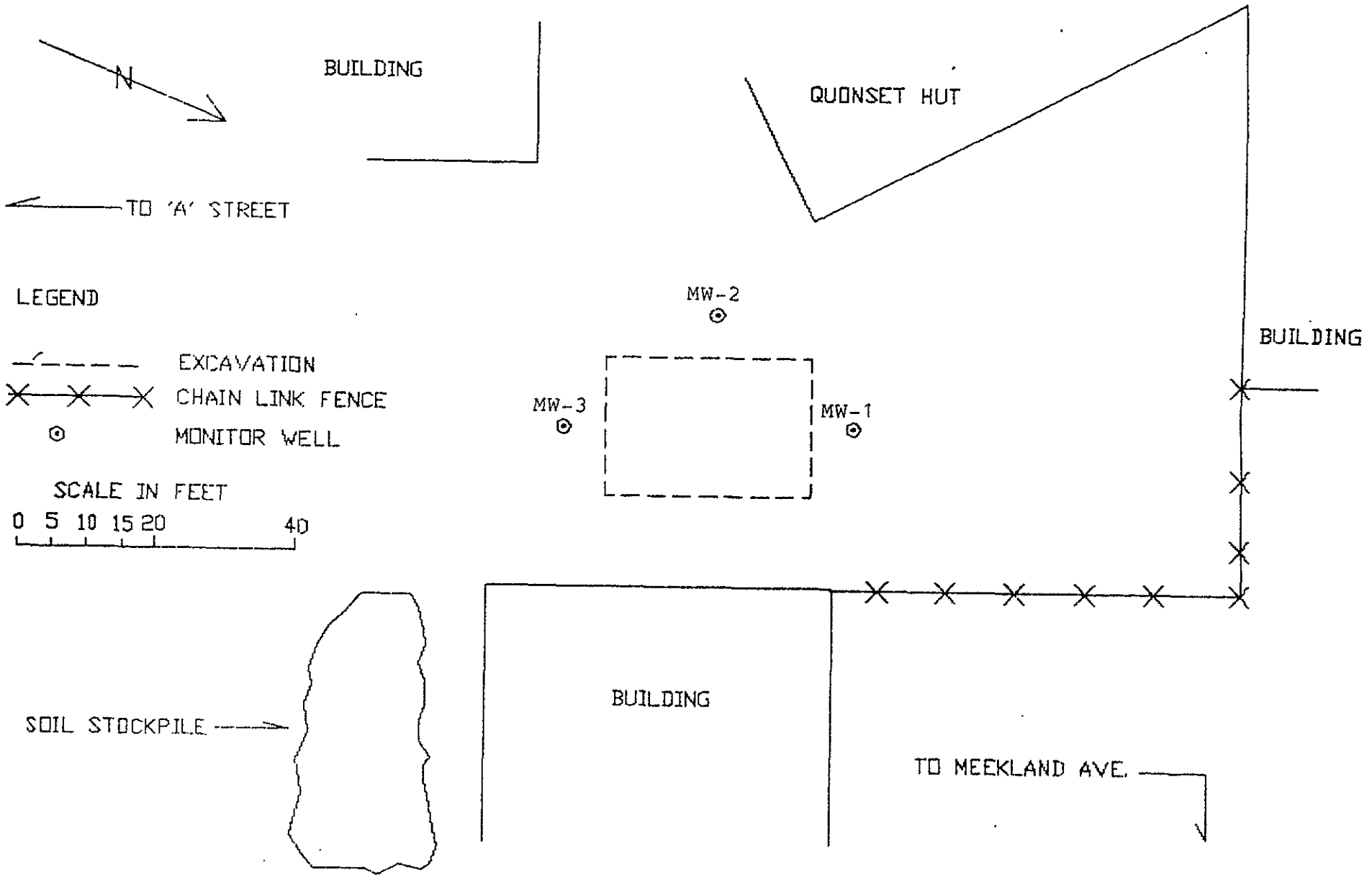
scott\meekland.lrt



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

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

DATE: 5-16-1991 JOB NUMBER: 8205-S DRAWN BY: MHW



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

FIGURE 2
SITE MAP

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

DRAWN BY: M. Ayala

APPENDIX A

STANDARD OPERATING PROCEDURES

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: DAVE SADOFF

CLIENT PROJ. ID: 9472-S

REPORT DATE: 04/13/92

DATE SAMPLED: 03/27/92

DATE RECEIVED: 03/30/92

QUANTEQ JOB NO: 9203228

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:		3520 GCFID	5520B	5520F
Instrument:		C	ME1	ME1
Date Extracted:		04/03/92	04/07/92	04/07/92
Date Analyzed:		04/06/92	04/07/92	04/07/92

ND = Not Detected

Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 04/08/92

CROSBY & OVERTON, INC.

CLIENT ID: MW-1
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 03/27/92
DATE RECEIVED: 03/30/92
REPORT DATE: 04/13/92

QUANTEQ LAB NO: 9203228-01C
QUANTEQ JOB NO: 9203228
DATE ANALYZED: 04/07/92
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.

CLIENT ID: MW-2
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 03/27/92
DATE RECEIVED: 03/30/92
REPORT DATE: 04/13/92

QUANTEQ LAB NO: 9203228-02C
QUANTEQ JOB NO: 9203228
DATE ANALYZED: 04/07/92
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.

CLIENT ID: MW-3
CLIENT PROJ. ID: 9472-S
DATE SAMPLED: 03/27/92
DATE RECEIVED: 03/30/92
REPORT DATE: 04/13/92

QUANTEQ LAB NO: 9203228-03C
QUANTEQ JOB NO: 9203228
DATE ANALYZED: 04/07/92
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: 04/07/92
DATE ANALYZED: 04/07/92
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9203228
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	79.3	82.0	ND	76.1	78.6	95.9	0.2

CURRENT QC LIMITS (Revised 01/09/92)

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: 04/03/92
DATE ANALYZED: 04/06/92
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9203228
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	2.51	ND	1.66	1.69	66.7	1.8

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: 04/07/92
SAMPLE SPIKED: 9203228-02C
CLIENT PROJ. ID: 9472-S

QUANTEQ JOB NO: 9203228

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	16.0	ND	16.2	15.7	99.7	3.1
Toluene	48.3	ND	47.5	45.7	96.5	3.9
Hydrocarbons as Gasoline	550	ND	520	526	95.1	1.1

CURRENT QC LIMITS (Revised 08/15/91)

Analyte	Percent Recovery	RPD
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

QUANTUM R-1, S-B R-3, S-2

9203228

PROJ. NO.	PROJECT NAME	P.O. NO.
9472-5 ~~9449-5~~	MEEKLAND	13252

SAMPLERS: Signature Send report attention to Darrell Taylor

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TDG 5520 BF	TPH-D/BTEX							REMARKS
MW-1	3/27/92	2:20		X	22117 MEEKLAND AVE 01A-E	5	X	X							
MW-2	3/27/92	2:45		X	22117 MEEKLAND AVE 02A-E	5	X	X							
MW-3	3/27/92	3:00		X	22117 MEEKLAND AVE 03A-E	5	X	X							

Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time
Kim Flores	3/30/92 11:17	Kim Flores	3/30/92 11:17
Kim Flores	3/30/92 12:00		
Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time
		Denise Harrington	3/30/92 1200

REMARKS:

NORMAL TAT

Company Name
Address

CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621
(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759