

**QUARTERLY GROUNDWATER SAMPLING &
MONITORING FOR THE PROPERTY
LOCATED AT 5175 BROADWAY STREET,
OAKLAND, CALIFORNIA
NOVEMBER 15, 1996**

**PREPARED FOR:
MR. MOHAMMAD MEHDIZADEH
150 RANDOM WAY,
PLEASANT HILL, CA 94523**

**BY:
SOIL TECH ENGINEERING, INC.
1761 JUNCTION AVENUE
SAN JOSE, CALIFORNIA 95112**

SOIL TECH ENGINEERING, INC.

LIST OF FIGURES

- FIGURE 1** ... SITE VICINITY MAP SHOWING 5175
BROADWAY STREET, OAKLAND,
CALIFORNIA
- FIGURE 2** ... SITE PLAN SHOWING LOCATIONS OF
BUILDINGS AND MONITORING WELLS

LIST OF APPENDICES

- APPENDIX "A"** ... TABLE 1 AND 2
- APPENDIX "B"** ... FIGURE 1 AND 2
- APPENDIX "C"** ... STANDARD OPERATION PROCEDURES
- APPENDIX "D"** ... LABORATORY ANALYTICAL RESULTS AND
CHAIN-OF-CUSTODY DOCUMENTATION

<u>TABLE OF CONTENTS</u>	<u>PAGE NO.</u>
LETTER OF TRANSMITTAL	1-8
SITE DESCRIPTION AND BACKGROUND	2-4
SCOPE OF PRESENT WORK	4
CURRENT FIELD WORK	5
GROUNDWATER MONITORING	
GROUNDWATER SAMPLING	
GROUNDWATER FLOW DIRECTION	6
LABORATORY RESULTS	6
RECOMMENDATIONS	7
LIMITATIONS	7

APPENDIX "A"

TABLE 1 - GROUNDWATER MONITORING DATA &
ANALYTICAL RESULTS T1

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS
FOR TOTAL LEAD (Pb) T2

APPENDIX "B"

FIGURE 1 - VICINITY MAP M1

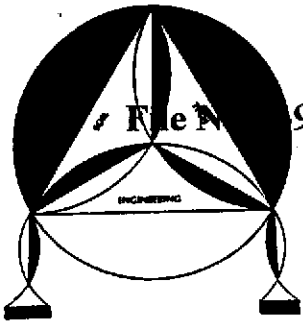
FIGURE 2 - SITE MAP M2

APPENDIX "C"

STANDARD OPERATING PROCEDURE
(GROUNDWATER SAMPLING) SOP1

APPENDIX "D"

LABORATORY ANALYTICAL REPORT
& CHAIN-OF-CUSTODY RECORD



SOIL TECH ENGINEERING

Environmental and Geological Engineers

File No. 8-90-420-GI

1761 JUNCTION AVENUE, SAN JOSE, CA 95112

(408) 441-1881

November 15, 1996

File No. 8-90-420-GI

Mr. Mohammad Mehdizadeh
150 Random Way
Pleasant Hill, California 94523

**SUBJECT: QUARTERLY GROUNDWATER SAMPLING AND MONITORING
AT THE PROPERTY Located at 5175 Broadway Street,
in Oakland, California**

Dear Mr. Mehdizadeh:

This report presents the results of quarterly groundwater monitoring and sampling conducted on November 7, 1996, by Soil Tech Engineering, Inc. (STE), at the subject site located at 5175 Broadway Street, in Oakland, California (Figure 1).

Five monitoring wells (MW-1 through MW-3, STMW-4 and STMW-5) are located on-site (location of wells Figure 2). This quarterly monitoring and sampling was conducted in accordance with STE's work plan dated October 5, 1994 and October 10, 1996 letter from Alameda County Health Department requesting immediate initiation of quarterly monitoring program.

SOIL TECH ENGINEERING, INC.

SITE DESCRIPTION AND BACKGROUND:

The site is located at 5175 Broadway Street, in Oakland, California. The area in the vicinity of the site consists mainly of residential and light commercial (Figure 1).

In January 1990, Tank Protect Engineering, Inc. (TPE), was retained to supervise the removal of underground fuel tanks and to conduct soil sampling, soil excavation, soil treatment and disposal. In addition, TPE installed three monitoring wells on-site.

Initial analytical results of soil samples collected from the tank excavation area showed moderate levels of Total Petroleum Hydrocarbons as Gasoline (TPHg) in two locations. The rest of the samples showed TPHg ranging from non-detected to less than 120 parts per million (ppm). Due to the presence of elevated levels of TPHg detected in the excavation, TPE installed three on-site monitoring wells (MW-1 to MW-3), as required by state and local regulatory agencies (Figure 2). TPE's preliminary groundwater assessment also indicated that the shallow groundwater had been impacted.

The Alameda County Health Department (ACHD) requested the property owner to conduct further investigation in order to define the extent of dissolved hydrocarbon contamination in the ground-water.

Soil Tech Engineering, Inc. (STE), was retained in September 1990 to conduct monitoring and sampling of the on-site monitoring wells. The objective of the quarterly groundwater sampling program was to monitor seasonal and long-term variations in the conditions of the shallow aquifer beneath the site and to assess the direction of groundwater flow for further investigation.

STE sampled the three on-site groundwater monitoring wells (MW-1 to MW-3) on September 26, 1990, and January 14, 1991. The sampling was conducted in accordance with ACHD and California Regional Water Quality Control Board (CRWQCB) guidelines and STE's

File No. 8-90-420-GI

Standard Operating Procedures (SOP) included in Appendix "C".

The three on-site wells contained moderate to high levels of dissolved hydrocarbons. A comparison of the September 1990 sampling with TPE's analytical results of April 1990 showed an increase in dissolved hydrocarbons in wells MW-1 and MW-2. In well MW-3 (the down-gradient well), TPHg and Toluene levels decreased, whereas Benzene, Ethyl Benzene and Total Xylenes increased slightly.

The analytical results for groundwater samples collected on January 14, 1991, showed an increase in TPH and BTEX levels in well MW-2 compared to those reported in September 1990. Well MW-1 also showed a slight increase in TPH and Benzene, but showed a decrease in Toluene, Ethyl Benzene and Xylene levels. Well MW-3 showed a substantial decrease in TPH and BTEX.

The Alameda County Health Department (ACHD) in a letter dated March 29, 1991, requested additional investigation to define the extent of dissolved hydrocarbon plume. STE installed two additional monitoring wells STMW-1 (STMW-4) and STMW-2 (STMW-5) on June 21, 1991. The July 3, 1991, water sampling results showed low levels of dissolved Total Petroleum Hydrocarbons as gasoline (TPHg) and Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) in all five wells. The presence of low levels of TPHg and BTEX in the up-gradient well, STMW-1 (STMW-4), (located on the east corner of the property) indicated a potential off-site source. Based on the water level data, the groundwater direction was west to southwest on July 3, 1991. The detail of this investigation is summarized in STE's report dated July 23, 1991. STE recommended a quarterly monitoring and sampling of five on-site wells for at least a year.

The second quarterly sampling was conducted in November 1991. The detail of the sampling is described in STE's report dated November 22, 1991. The quarterly monitoring and samplings conducted by STE are described in STE's report dated March 10, 1992, June 1992, October 1992 and January 1993.

File No. 8-90-420-GI

The last quarterly monitoring and sampling was conducted by STE on August 15, 1994, details in STE report dated September 20, 1994. STE prepared a work plan proposal for additional soil and groundwater investigation of the property dated October 5, 1994 but no further activity on the subject site was authorized by the owner. Hence, there was a discontinuation of quarterly monitoring and sampling activity.

SCOPE OF PRESENT WORK:

The scope of work for this sampling was to:

- 1) Re-survey the well casing elevations
- 2) Measure the depth-to-groundwater and monitor the presence of dissolved hydrocarbons in the five on-site wells
- 3) Collect groundwater samples from the on-site wells for analyses of Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd), Benzene, Toluene, Ethyl Benzene and Total Xylenes (BTEX) and Methyl Tertiary Butyl Ether (MTBE) and submit to a State-Certified laboratory.
- 3) Update the database for water level / dissolved hydrocarbon level and groundwater field observation data
- 4) Review analytical results and prepare a report

File No. 8-90-420-GI

CURRENT FIELD WORK:

On November 7, 1996, the five on-site wells were re-surveyed, monitored, purged and sampled in accordance with STE's Standard Operating Procedures (SOP) (Appendix "C"), which follows state and local guidelines.

GROUNDWATER MONITORING:

During field observation, STE staff detected very light to light petroleum odors in wells MW-3, STMW-4 and STMW-5, and very light to light sewage odor in wells MW-1 and MW-2. Very thin layer of brown sheen was noted in well MW-3, and rainbow sheen spots were noted in wells STMW-4 and STMW-5. Table 1 summarizes the groundwater monitoring data and laboratory analytical results.

GROUNDWATER SAMPLING:

Following groundwater monitoring, the on-site wells were purged at least five well volumes and sampled. The water samples were collected in glass vials and amber bottles with teflon-lined caps, labeled and placed in an ice-cooled chest for transportation to Priority Environmental Labs, a State-Certified laboratory with appropriate chain-of-custody record.

The samples were analyzed for TPHg, TPHd, BTEX, MTBE and Lead (Pb).

File No. 8-90-420-GI

GROUNDWATER FLOW DIRECTION:

Groundwater elevation data was used to determine the direction of groundwater flow. The groundwater flow was approximately in a westerly direction as of November 11, 1996.

LABORATORY RESULTS:

Table 1 summarizes the water sample analytical results. Monitoring well MW-1 detected TPHg at 1.2 mg/L, TPHd at 0.27 mg/L, Benzene at 0.003 mg/L, Toluene at 0.0011 mg/L, Ethyl Benzene at 0.0015 mg/L and Total Xylenes at 0.0038 mg/L. Monitoring well MW-2 detected TPHg at 4.2 mg/L, TPHd at 0.78 mg/L, Benzene at 0.025 mg/L, Toluene at 0.0049 mg/L, Ethyl Benzene at 0.0081 mg/L and Total Xylenes at 0.014 mg/L. TPHg level in MW-3 was at 68 mg/L, TPHd at 0.47, Benzene at 0.033 mg/L, Toluene at 0.027 mg/L, Ethyl Benzene at 0.063 mg/L and Total Xylenes at 0.12 mg/L. STMW-4 detected TPHg concentrations at 13 mg/L, TPHd at 0.18 mg/L, Benzene at 0.040 mg/L, Toluene at 0.0029 mg/L, Ethyl Benzene at 0.0078 mg/L and Total Xylenes at 0.019 mg/L. STMW-5 showed concentrations of TPHg at 1.2 mg/L, TPHd 0.33 mg/L, Benzene at 0.011 mg/L, Toluene at 0.0017 mg/L, Ethyl Benzene at 0.0044 mg/L and Total Xylenes at 0.013 mg/L. All five wells detected concentrations of MTBE and Lead (Pb) below laboratory detection limit.

Compared to the last sampling on August 15, 1994, monitoring wells MW-1, MW-2 and STMW-5 show reduced levels of TPHg and BTEX, while MW-3 and STMW-4 show elevated concentration levels of TPHg and reduced BTEX concentrations.

File No. 8-90-420-GI

RECOMMENDATIONS:

Since dissolved hydrocarbons continue to be present in the wells and some of the hydrocarbon constituents decreased and some have increased in the wells, STE recommends the continuation of monitoring and sampling of the five monitoring wells. In addition, STE recommends a meeting with ACEHD and the Regional Water Quality Control Board to discuss the results and obtain a sense of direction as to the additional investigation(s) necessary for the site.

A copy of this report should be sent to the Alameda County Health Department and the California Regional Water Quality Control Board.

LIMITATIONS:

This report was prepared in accordance with the currently accepted standards for environmental investigations. The contents of this report reflect the conditions of the subject site at this particular time. No other warranties, expressed or implied, as to the professional advice provided are made.

The findings of this report are based on the results of independent laboratory analyses and are valid at the present date and conditions. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man, on this property or adjacent properties.

File No. 8-90-420-GI

If you have any questions or require additional information, please feel free to contact our office at (408) 441-1881 at your convenience.

Sincerely,

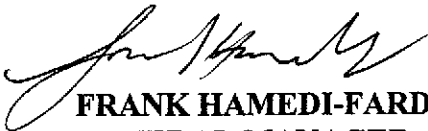
SOIL TECH ENGINEERING, INC.



**NOORI AMELI
PROJECT ENGINEER**



**LAWRENCE KOO, P. E.
C. E. #34928**



**FRANK HAMEDI-FARD
GENERAL MANAGER**

SOIL TECH ENGINEERING, INC.

TABLE 1
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)

Date	Well No./ Elevation	Depth of Well	Perf. Length	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
04/30/89	MW-1 (97.71)	23	10	N/A	N/A	No sheen No odor	0.20	NA	0.018	0.005	0.002	0.012	NA
05/17/90				9.26	88.45	N/A	NA	NA	NA	NA	NA	NA	NA
09/26/90				9.92	87.79	No sheen Mild pet. odor	1.3	NA	0.055	0.031	0.12	0.1	NA
01/14/91				9.54	88.17	No sheen Mild pet. odor	3.1	NA	0.35	0.083	0.086	0.13	NA
07/03/91	(102.04) resurveyed			9.42	92.62	No sheen Light pet. odor	0.58	NA	0.032	0.041	0.04	0.055	NA
11/11/91				9.45	92.59	No sheen Mild pet. odor	0.33	NA	0.02	0.002	0.002	0.011	NA
03/04/92	(101.83) resurveyed			7.93	93.90	No sheen Light pet. odor	0.81	NA	0.011	0.005	0.010	0.023	NA
06/01/92				8.98	92.85	No sheen Mild sewage odor	2.2	NA	0.093	0.032	0.04	0.12	NA
09/28/92				9.29	92.54	No sheen Mild sewage odor	2.9	NA	0.024	0.0078	0.019	0.037	NA
01/11/93				7.56	94.27	No sheen Light sewage odor	1.7	NA	0.0057	0.006	0.011	0.028	NA
08/15/94				9.19	92.64	No sheen Mild sewage odor	2.0	NA	0.12	0.003	0.006	0.016	NA
11/07/96	(97.50) resurveyed			8.73	88.77	No sheen L. sewage odor	1.2	0.27	0.003	0.0011	0.0015	0.0038	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline TPHd - Total Petroleum Hydrocarbons as Diesel Pet. - Petroleum
 B - Benzene T - Toluene E - Ethyl Benzene X - Total Xylenes ND - Not Detected NA - Not Analyzed
 N/A - Not Applicable GW Elev. - Groundwater Elevation MTBE - Methyl Tertiary Butyl Ether L. - Light

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)**

Date	Well No./ Elevation	Depth of Well	Perf. Length	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
04/30/89	MW-2 (97.78)	23	15	N/A	N/A	No sheen No odor	0.23	NA	0.039	0.018	0.005	0.023	NA
05/17/90				10.00	87.78	N/A	NA	NA	NA	NA	NA	NA	NA
09/26/90				10.83	86.95	No sheen Mild pet. odor	0.85	NA	0.94	0.005	0.025	0.047	NA
01/14/91				10.63	87.15	No sheen No odor	3.1	NA	0.35	0.083	0.086	0.13	NA
07/03/91	(102.02) resurveyed			10.08	91.94	No sheen Light pet. odor	1.59	NA	0.03	0.052	0.024	0.034	NA
11/11/91				10.21	91.81	No sheen Mild pet. odor	0.96	NA	0.32	0.015	0.004	0.029	NA
03/04/92	(101.67) resurveyed			8.70	92.97	No sheen Light pet. odor	1.5	NA	0.0095	0.0084	0.0098	0.022	NA
06/01/92				9.52	92.15	No sheen Mild sewage odor	2.8	NA	0.084	0.041	0.059	0.095	NA
09/28/92				10.09	91.58	No sheen Mild sewage odor	1.6	NA	0.047	0.020	0.047	0.097	NA
01/11/93				8.52	93.15	No sheen L. sewage odor	2.5	NA	0.0086	0.01	0.017	0.032	NA
08/15/94				9.91	91.76	No sheen L. pet. odor	6.0	NA	0.45	0.06	0.1	0.095	NA
11/07/96	(97.49) resurveyed			10.02	87.47	No sheen V. l. sewage odor	4.2	0.78	0.025	0.0049	0.0081	0.014	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline TPHd - Total Petroleum Hydrocarbons as Diesel Pet. - Petroleum
 B - Benzene T - Toluene E - Ethyl Benzene X - Total Xylenes ND - Not Detected NA - Not Analyzed
 N/A - Not Applicable GW Elev. - Groundwater Elevation MTBE - Methyl Tertiary Butyl Ether L. - Light V. - Very

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)**

Date	Well No./ Elevation	Depth of Well	Perf. Length	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
04/30/90	MW-3 (98.14)	27	20	N/A	N/A	No sheen Mild pet. odor	56	NA	3.6	8.6	1.3	7.2	NA
05/17/90				12.42	85.72	N/A	NA	NA	NA	NA	NA	NA	NA
09/26/90				13.50	84.64	No sheen Mild pet. odor	54	NA	5.1	0.42	1.6	8.0	NA
01/14/91				12.58	85.56	Light sheen Strong pet. odor	35	NA	2.6	6.6	1.5	5.7	NA
07/03/91	(102.46) resurveyed			12.08	90.38	Rainbow sheen Strong pet. odor	33	NA	4.12	4.3	1.4	4.8	NA
11/11/91				12.29	90.17	V. l. rainbow sh. Mild pet. odor	57	NA	3.9	8.4	2.1	14	NA
03/04/92	(102.18) resurveyed			10.26	91.92	Brown sheen Strong. pet. odor	57	NA	0.72	0.87	0.81	3.1	NA
06/01/92				11.40	90.78	Rainbow sheen Mild pet. odor	50	NA	0.24	0.24	0.22	0.74	NA
09/28/92				12.64	89.54	Rainbow sh. spots Strong pet. odor	64	NA	0.11	0.093	0.097	0.25	NA
01/11/93				10.10	92.08	Rainbow sheen Mild pet. odor	61	NA	0.21	0.28	0.36	0.99	NA
08/15/94				12.20	89.98	Brown sheen spots Mild pet. odor	50	NA	0.87	1.2	1.3	3.0	NA
11/07/96	(97.94) resurveyed			12.40	85.54	V. thin layer of brown sheen Light pet. odor	68	0.47	0.033	0.027	0.063	0.12	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline TPHd - Total Petroleum Hydrocarbons as Diesel Pet. - Petroleum
 B - Benzene T - Toluene E - Ethylbenzene X - Total Xylenes ND - Not Detected NA- Not Analyzed
 N/A - Not Applicable GW Elev. - Groundwater Elevation MTBE - Methyl Tertiary Butyl Ether L. - Light sh. - sheen V. - Very

T1 cont'd

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)**

Date	Well No./ Elevation	Depth of Well	Perf. Length	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
07/03/91	STMW-1 (103.58)	19.5	11.5	11.00	92.58	L. rainbow sheen Mild pet. odor	3.1	NA	0.61	0.062	0.039	0.15	NA
11/11/91	STMW-4 (renamed)			11.08	92.5	L. rainbow sheen Strong pet. odor	3.6	NA	0.99	0.015	0.0026	0.18	NA
03/04/92	(103.08) resurveyed			9.44	93.64	Brown sh. spots Mild pet. odor	5.0	NA	0.035	0.02	0.022	0.071	NA
06/01/92				10.32	92.76	No sheen Light pet. odor	13	NA	0.14	0.045	0.063	0.21	NA
09/28/92				10.76	92.32	Brown sh. spots Mild pet. odor	40	NA	0.035	0.020	0.048	0.11	NA
01/11/93				9.28	93.80	Brown sh. spots Mild pet. odor	24	NA	0.026	0.088	0.092	0.28	NA
08/15/94				10.54	92.54	L. rainbow sh. spots Light pet. odor	9.0	NA	0.5	0.034	0.046	0.13	NA
11/07/96	(98.80) resurveyed			10.37	88.43	Rainbow sh. spots V. l. pet. odor	13	0.18	0.040	0.0029	0.0078	0.019	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline TPHd - Total Petroleum Hydrocarbons as Diesel Pet. - Petroleum
 B - Benzene T - Toluene E - Ethylbenzene X - Total Xylenes ND - Not Detected NA - Not Analyzed
 N/A - Not Applicable GW Elev. - Groundwater Elevation MTBE - Methyl Tertiary Butyl Ether
 L. - Light sh. - sheen V. Very

T1 cont'd

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)**

Date	Well No./ Elevation	Depth of Well	Perf. Length	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
07/03/91	STMW-2 (101.99)	24	16	13.92	88.07	No sheen No odor	0.69	NA	0.099	0.081	0.019	0.098	NA
11/11/91	STMW-5 (renamed)			14.00	87.99	No sheen V. l. pet. odor	0.41	NA	0.061	0.0024	0.0014	0.02	NA
03/04/92	(101.36) resurveyed			11.80	89.56	No sheen V. l. pet. odor	0.46	NA	0.013	0.0065	0.011	0.018	NA
06/01/92				13.06	88.30	No sheen Mild pet. odor	1.80	NA	0.027	0.02	0.021	0.043	NA
09/28/92				14.04	87.32	No sheen Mild sewage odor	1.5	NA	0.014	0.0061	0.018	0.022	NA
01/11/93				11.61	89.75	No sheen L. sewage odor	0.8	NA	0.0018	0.003	0.0031	0.0094	NA
08/15/94				13.85	87.51	No sheen M. sewage odor	3.0	NA	0.32	0.062	0.034	0.22	NA
11/07/96				13.67	87.51	Rainbow sh. spots V. l. pet. odor	1.2	0.33	0.011	0.0017	0.0044	0.013	ND

TPHg - Total Petroleum Hydrocarbons as Gasoline TPHd - Total Petroleum Hydrocarbons as Diesel Pet. - Petroleum
 B - Benzene T - Toluene E - Ethylbenzene X - Total Xylenes ND - Not Detected NA- Not Analyzed
 N/A - Not Applicable GW Elev. - Groundwater Elevation MTBE - Methyl Tertiary Butyl Ether
 L. - Light V. - very sh. - sheen

TABLE 2

**GROUNDWATER SAMPLES ANALYZED FOR
TOTAL LEAD (Pb) (mg/L)**

SAMPLE I. D.	LEAD (Pb)
MW - 1	ND
MW - 2	ND
MW - 3	ND
STMW - 4	ND
STMW - 5	ND

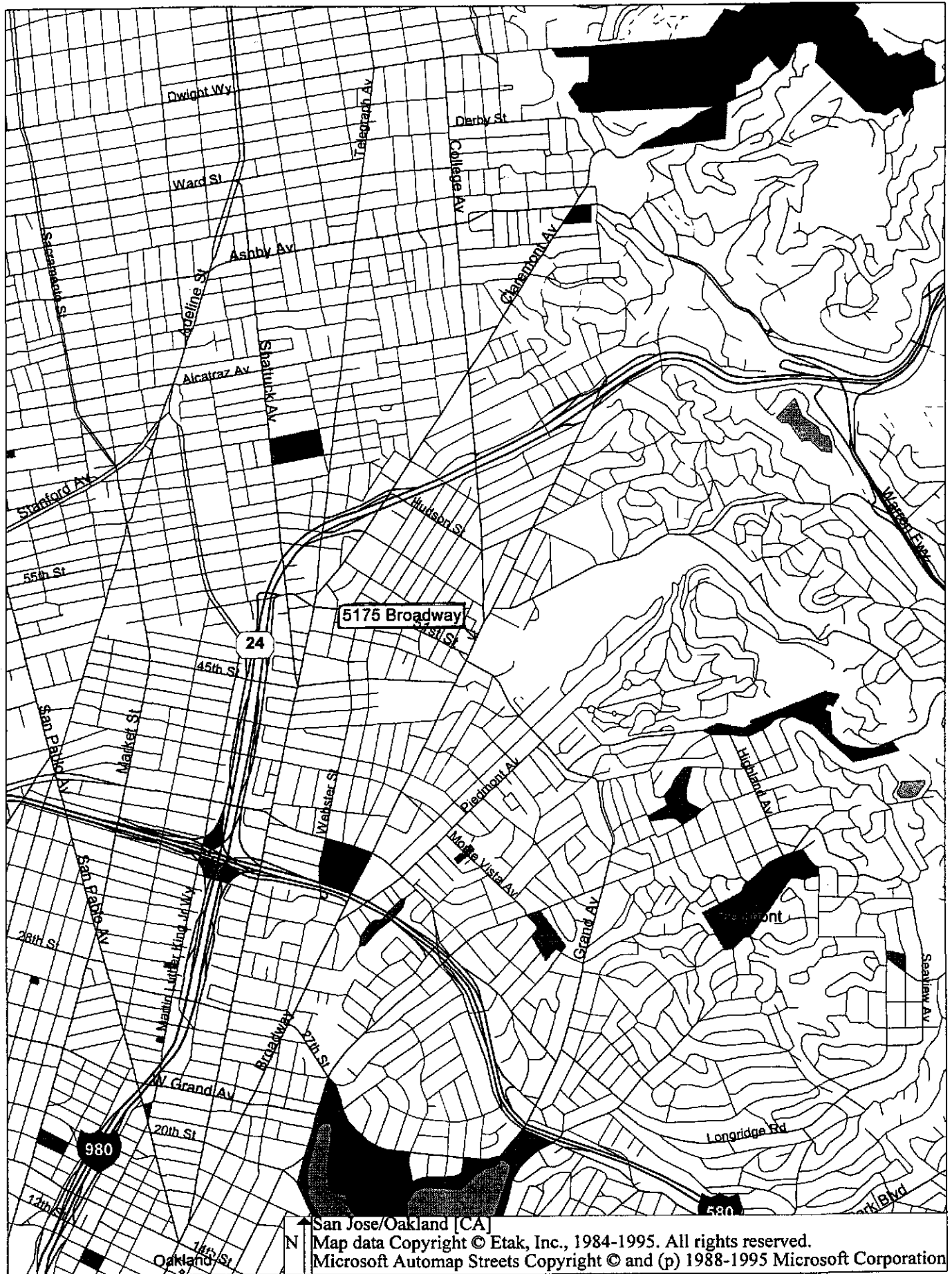
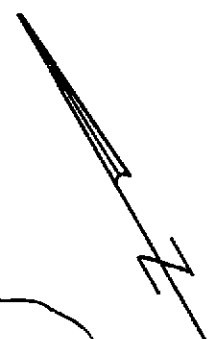


Figure 1

Approximate
Direction of
Groundwater
Flow as of
11/7/96

CORONADO AVENUE



BROADWAY STREET

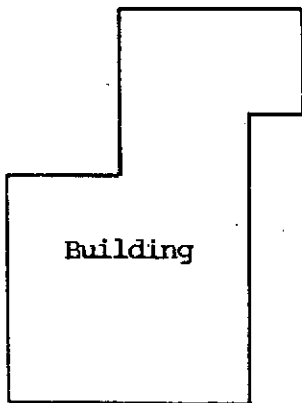
MW-1

STMW-4

Residential
Building

MW-2

MW-3



Building

STMW-5

Commercial Building

C. EL. Casing Elevation

W. EL. Water Elevation

⊕ Monitoring Well

Street
Flow Line

SCALE: 1"=20'

Figure 2

GROUNDWATER SAMPLING

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc...) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vial was then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

November 12, 1996

PEL # 9611016

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Five water samples for Gasoline/BTEX with MTBE and Diesel analyses.

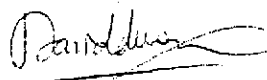
Project name: 5175 Broadway St., - Oakland
Project number: 8-90-420-GI

Date sampled: Nov 07, 1996
Date extracted: Nov 08-12, 1996

Date submitted: Nov 08, 1996
Date analyzed: Nov 08-12, 1996

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Diesel (ug/L)
MW-1	1200	N.D.	3.0	1.1	1.5	3.8	270
MW-2	4200	N.D.	25	4.9	8.1	14	780
MW-3	68000	N.D.	33	27	63	120	470
STMW-4	13000	N.D.	40	2.9	7.8	19	180
STMW-5	1200	N.D.	11	1.7	4.4	13	330
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	86.1%	---	84.7%	112.6%	83.5%	87.7%	87.9%
Detection limit	50	0.5	0.5	0.5	0.5	0.5	50
Method of Analysis	5030 / 8015	602	602	602	602	602	3510 / 8015


David Duong
Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

November 13, 1996

PEL # 9611016

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Five water samples for total Lead analysis.

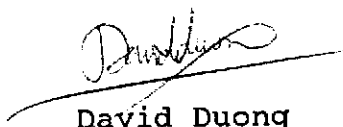
Project name: 5175 Broadway St., - Oakland
Project number: 8-90-420-GI

Date sampled: Nov 07, 1996
Date extracted: Nov 08-13, 1996

Date submitted: Nov 08, 1996
Date analyzed: Nov 08-13, 1996

RESULTS:

SAMPLE I.D.	Lead (mg/L)
MW-1	N.D.
MW-2	N.D.
MW-3	N.D.
STMW-4	N.D.
STMW-5	N.D.
Blank	N.D.
Detection limit	0.05
Method of Analysis	7420


David Duong
Laboratory Director

PROJ NO. 8-90-420-GI NAME 5175 Broadway st. OAKLAND

SAMPLERS: (Signature) *W. Amal*

ANALYSES REQUESTED
 TPHG/BTEX
 TPHD
 MTBE
 PAH

PML # 9611016
 INV # 27405

NO.	DATE	TIME	SOIL		LOCATION	CON-TAINER	ANALYSES REQUESTED							
			SOIL	WATER			TPHG/BTEX	TPHD	MTBE	PAH				
1	11/7/96	11 ⁵⁰		✓	MW-1	3	✓	✓	✓	✓				
2	11/7/96	13 ²⁵		✓	MW-2	3	✓	✓	✓	✓				
3	11/7/96	15 ¹⁰		✓	MW-3	3	✓	✓	✓	✓				
4	11/7/96	14 ²⁵		✓	STMW-4	3	✓	✓	✓	✓				
5	11/7/96	12 ²⁵		✓	STMW-5	3	✓	✓	✓	✓				

Relinquished by: (Signature) <i>W. Amal</i>	Date / Time	Received by: (Signature) <i>W. Amal</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time 11/8/96 16:00	Received for Laboratory by: (Signature) <i>PEL</i>	Date / Time	Remarks	



SOIL TECH ENGINEERING
 Environmental and Geotechnical Engineers