File No. 8-90-421-SI

QUARTERLY GROUNDWDATER MONITORING AND SAMPLING FOR PLAZA CAR WASH PROPERTY LOCATED AT 400 SAN PABLO AVENUE ALBANY, CALIFORNIA MARCH 26, 1996

PREPARED FOR:
MR. MURRAY STEVENS
KAMUR INDUSTRIES, INC.
2351 SHORELINE DRIVE
ALAMEDA, CALIFORNIA 94501

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

SOIL TECH ENGINEERING, INC.

File No. 8-90-421-SI

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

File No. 8-90-421-SI

TABLE OF CONTENTS

SOIL TECH ENGINEERING
Soil, Foundation and Geological Engineers
1761 JUNCTION AVENUE, SAN JOSE, CA 95112 - (408) 441-1881

March 26, 1996

File No. 8-90-421-SI

Mr. Murray Stevens
Kamur Industries, Inc.
2351 Shoreline Drive
Alameda, California 94501

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING FOR PLAZA CAR WASH PROPERTY Located at 400 San Pablo Avenue, in Albany, California

Dear Mr. Stevens:

This report presents the results of quarterly groundwater monitoring and sampling conducted by Soil Tech Engineering, Inc. (STE), on February 29, 1996, at the subject site (Figure 1).

BACKGROUND:

Currently there are four monitoring wells (MW-2, MW-3, STMW-1 and STMW-2) located on-site (see Figure 2). Wells STMW-1 and STMW-2 were installed by STE, and on-site wells MW-2 & MW-3 were installed by other consultants. This quarterly well monitoring and sampling was conducted in accordance with STE's recommendations made in the report entitled "Report of Supplemental Subsurface

Investigations", dated May 14, 1991. During this quarter's reporting period, the following field activities were performed:

- Monitored the depth-to-static groundwater for on-site monitoring wells STMW-1, STMW-2, MW-2 and MW-3.
- Purged on-site monitoring wells STMW-1, STMW-2, MW-2 and MW-3 prior to sampling.
- Submitted water samples to a State-Certified laboratory to be analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and for aromatic hydrocarbons: Benzene, Toluene, Ethylbenzene Total Xylenes (BTEX), Volatile Organic Compounds (VOC's).
- Reviewed results and prepared a report of the investigation.

GROUNDWATER MONITORING:

On February 29, 1996, STE staff monitored the four on-site wells to measure water depth and check for the presence of sheen and/or odor. During monitoring of the wells, light sewerage odor was detected in monitoring well MW-2. Rainbow sheen and mild petroleum odor were detected in monitoring well MW-3. Non-measureable free floating product and strong petroleum odor were detected in monitoring wells STMW-1. Rainbow sheen and light petroleum odor were presence in monitoring well STMW-2. After purging of the wells, no sheen was observed in any of the wells. Table 1 summarizes the depth to the groundwater and observations made. The static shallow groundwater levels ranged from 4.37 to 7.83 feet below ground surface during the recent quarterly sampling event.

GROUNDWATER SAMPLING:

Following groundwater monitoring, the wells were purged at least four well volumes and sampled in accordance with STE's Standard Operating Procedures (Appendix "C"), which follows State and local guidelines for sampling and monitoring wells. The samples were submitted to a California State-Certified laboratory for analysis, accompanied by chain-of-custody. The samples were analyzed for TPHg per EPA Methods 5030/8025, BTEX per EPA Method 602 and VOC's per EPA Method 601.

GROUNDWATER FLOW:

The water elevation data were used to determine groundwater direction. Table 1 summarizes the groundwater elevations. The local groundwater flow direction was in southerly direction as of February 29, 1996 (Figure 2).

ANALYTICAL RESULTS:

The four on-site wells continued to show the presence of low levels of Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). Monitoring well STMW-1 detected TPHg at 71 milligrams per liter (mg/L); Benzene at 0.12 mg/L; Toluene at 0.095 mg/L; Ethylbenzene at 0.018 mg/L and Total Xylenes at 0.26 mg/L. Monitoring well STMW-2 detected TPHg at 33 mg/L and BTEX at (0.075 mg/L, 0.055 mg/L, 0.052 mg/L and 0.15 mg/L), respectively. Well MW-2 detected TPHg at 1.2 mg/L and BTEX at 0.0061 mg/L, 0.0012 mg/L, 0.0062 mg/L

and 0.0087 mg/L, respectively. Monitoring well MW-3 detected TPHg at 15 mg/L and BTEX at 0.012 mg/L, 0.0038 mg/L, 0.01 mg/L and 0.024 mg/L, respectively. Monitoring well MW-3 detected low levels of 1,2-Dichloroethene (0.035 mg/L), Chloroform (0.16 mg/L), Trichloroethene (0.11 mg/L) and Tetrachloroethene (0.08 mg/L). The other three monitoring wells (STMW-1, STMW-2 and MW-2) detected VOC's below laboratory detection limit.

The results of laboratory are tabulated in Table 2. The chain-of-custody records and certified analytical report are included in Appendix "D".

DISCUSSION:

A comparison of the recent analytical results with the November 30, 1995 results showed a increase in TPHg concentrations in wells MW-2 (from 0.12 to 1.2 mg/L) and STMW-1 (from 67 to 71 mg/L). TPHg concentrations decrease in wells STMW-2 (from 66 to 33 mg/L) and MW-3 (from 100 to 15 mg/L).

Monitoring wells STMW-1, STMW-2 and MW-3 showed a slight decrease of BTEX concentrations. Monitoring well MW-2 showed a slight increased in Toluene, Ethylbenzene and Total Xylenes concentrations and a decrease in Benzene concentrations in this quarter.

RECOMMENDATION:

We recommend continuing quarterly monitoring of on-site wells until interim groundwater treatment is initiated. This quarterly

report should be submitted to Alameda County Health Department (ACHD) and the Regional Water Quality Control Board (RWQCB).

LIMITATIONS:

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

1) The observations of field personnel.

2) The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent properties.

The services that STE provided have been in accordance with generally accepted environmental professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed.

File No. 8-90-421-SI

Per your request, this report will be submitted to ACEHD and RWQCB.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

NOORI AMELI
PROJECT ENGINEER

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

FRANK HAMEDI-FARD
GENERAL MANAGER

File No. 8-90-421-SI

TABLE 1
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
3/11/91	STMW-1 (100.62)	5.29	95.33	None	None
	STMW-2 (100.63)	5.25	95.38	None	Mild
	MW-2 (99.39)	4.92	95.07	None	Mild
	MW-3 (100.09)	4.67	95.42	Trace	Moderate
	OTMW-5 (100.87)	5.02	95.85	None	Mild
7/03/91	STMW-1 (100.62)	5.83	94.79	None	Mild
	STMW-2 (100.63)	4.75	95.88	None	Mild
	MW-2 (99.39)	5.83	93.53	None	Mild
	MW-3 (100.09)	7.75	94.55	Light	Strong
	OTMW-5 (100.87)	5.65	95.12	None	Mild

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
11/04/91	STMW-1 (100.62)	5.83	94.79	None	Mild
	STMW-2 (100.63)	5.92	94.71	None	Mild
	MW-2 (99.39)	4.79	94.57	None	Mild
	MW-3 (100.09)	5.67	94.42	Trace	Strong
	OTMW-5 (100.87)	5.77	95.10	None	Mild
1/20/92	STMW-1 (100.62)	5.79	94.84	Light	Mild
	STMW-2 (100.63)	5.88	94.75	None	Mild
	MW-2 (99.39)	4.60	94.76	None	Mild
	MW-3 (100.09)	5.54	94.55	Light	Strong
	OTMW-5 (100.87)	5.58	95.29	None	Mild

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
5/07/92	STMW-1 (100.62)	5.80	94.82	None	Mild
	STMW-2 (100.63)	5.70	94.92	None	Mild
	MW-2 (99.39)	4.42	94.94	None	Mild
	MW-3 (100.09)	5.18	94.91	Rainbow	Strong
	OTMW-5 (100.87)	5.43	95.44	None	Mild
8/17/92	STMW-1 (100.62)	5.77	94.85	None	Mild
	STMW-2 (100.63)	5.71	94.92	None	None
	MW-2 (99.39)	4.43	94.96	None	Mild
	MW-3 (100.09)	5.24	94.85	Rainbow	Mild
	OTMW-5 (100.87)	5.45	95.42	None	None
	OTMW-6	4.88	NA	None	None

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
12/10/92	STMW-1 (100.62)	6.61	94.01	Light	Mild
	STMW-2 (100.63)	6.39	94.24	Light	Mild
	MW-2 (99.39)	4.94	94.45	None	Mild
	MW-3 (100.09)	4.42	95.67	Light	Strong
	OTMW-5 (100.87)	7.30	93.57	None	Mild
3/18/93	STMW-1 (100.62)	6.68	93.94	Light	Mild
	STMW-2 (100.63)	6.50	94.13	Light	Mild
	MW-2 (99.39)	5.11	94.28	None	Light Sewage
	MW-3 (100.09)	5.39	94.70	Thick	Strong
	OTMW-5 (100.87)	7.11	93.76	None	Light Sewage

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
7/13/93	STMW-1 (100.62)	7.13	93.49	Light Rainbow	Strong Petroleum
	STMW-2 (100.63)	6.95	93.68	None	Septic
	MW-2 (99.39)	5.53	93.86	Rainbow	Light Petroleum
	MW-3 (100.09)	6.07	94.02	Light Rainbow	Strong Petroleum
	OTMW-5 (100.87)	7.45	93.42	None	None
10/11/93	STMW-1 (100.62)	7.26	93.36	None Measurable	Strong Petroleum
	STMW-2 (100.63)	7.09	93.54	None Measurable	Strong Petroleum
	MW-2 (99.39)	5.64	93.75	None	None
	MW-3 (100.09)	6.34	93.75	None Measurable	Strong Petroleum
	OTMW-5 (100.87)	7.65	93.22	None	None

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
1/07/94	STMW-1 (100.62)	7.15	93.47	None Measurable	Strong Petroleum
	STMW-2 (100.63)	6.93	93.70	Rainbow	Mild Petroleum
	MW-2 (99.39)	5.52	93.87	None	None
	MW-3 (100.09)	6.34	93.75	None Measurable	Strong Petroleum
	OTMW-5 (100.87)	7.67	93.20	None	None
4/06/94	STMW-1 (100.62)	7.10	93.52	None	Strong Petroleum
	STMW-2 (100.63)	6.84	93.79	None	Strong Petroleum
	MW-2 (99.39)	5.82	93.57	None	None
	MW-3 (100.09)	6.14	93.95	None	None
	OTMW-5 (100.87)	7.72	93.15	None	None

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
8/03/94	STMW-1 (100.62)	5.70	94.92	None	Strong Petroleum
	STMW-2 (100.63)	7.10	93.53	None	Mild Petroleum
	MW-2 (99.39)	7.47	91.92	None	None
	MW-3 (100.09)	6.34	93.75	Sheen with Grease	Moderate Petroleum
11/08/94	STMW-1 (100.62)	6.47	94.15	Brown Non-Measurable	Strong Petroleum
	STMW-2 (100.63)	6.19	94.44	Rainbow	Mild Petroleum
	MW-2 (99.39)	4.69	94.70	None	Mild Sewerage
	MW-3 (100.09)	3.89	96.20	Brown Non-Measurable	Strong Petroleum

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
2/16/95	STMW-1 (100.62)	6.96	93.66	Rainbow Non-Measurable	Strong Petroleum
	STMW-2 (100.63)	6.72	93.91	Rainbow	Mild Petroleum
	MW-2 (99.39)	5.31	94.08	None	None
	MW-3 (100.09)	5.90	94.19	Brown Non-Measurable	Strong Petroleum
5/19/95	STMW-1 (100.62)	6.84	93.78	Brown Non-Measurable	Strong Petroleum
	STMW-2 (100.63)	6.61	94.02	Brown	Light Petroleum
	MW-2 (99.39)	5.17	94.22	None	Mild Sewerage
	MW-3 (100.09)	4.15	95.94	Brown Non-Measurable	Strong Petroleum

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
8/18/95	STMW-1 (96.81)	7.36	89.45	Brown Non-Measurable	Strong Petroleum
	STMW-2 (96.79)	7.09	89.70	Brown	Light Petroleum
	MW-2 (95.22)	5.65	89.57	None	Light Sewerage
	MW-3 (95.62)	6.08	89.54	Brown	Mild Petroleum
11/30/95	STMW-1 (96.81)	7.34	89.47	Thick Brown	Mild Petroleum
	STMW-2 (96.79)	7.07	89.72	Rainbow	Light Petroleum
	MW-2 (95.22)	5.64	89.58	None	None
	MW-3 (95.62)	6.26	89.36	Rainbow	Light Petroleum

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA
(Measured in Feet)

Date	Well No./ Elevation	Depth-to-Water	Groundwater Elevation	Sheen	Odor
2/29/96	STMW-1 (96.81)	7.83	88.98	Non-Measureable FFP	Strong Petroleum
	STMW-2 (96.79)	7.57	89.22	Rainbow	Light Petroleum
	MW-2 (95.22)	4.61	90.61	None	Light Sewerage
	MW-3 (95.62)	4.37	91.25	Rainbow	Mild Petroleum

FFP - Free Floating Product
NA - Not Applicable

TABLE 2
WATER ANALYTICAL RESULTS
IN
MILLIGRAMS PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
3/13/91	STMW-1	0.85	0.1	0.007	ND	0.15
	STMW-2	0.17	0.001	0.0017	ND	0.028
	MW-2	25	2.6	4.4	ND	5.8
	MW-3	47	9.1	9.9	0.27	8.11
	OTMW-5	0.12	0.046	0.012	0.001	0.004
7/03/91	STMW-1	5.1	1.8	0.5	0.095	0.56
	STMW-2	1.8	0.64	0.048	0.044	0.094
	MW-2	21	2.8	3.2	ND	4.3
	MW-3	140	12	4.5	1.2	4.0
	OTMW-5	0.81	0.32	0.043	0.016	0.043
11/04/91	STMW-1	2.05	0.76	0.054	ND	0.056
	STMW-2	2.14	1.00	0.057	0.003	0.019
	MW-2	3.58	1.7	0.119	0.009	0.056
	MW-3	102.7	38.87	19.1	5.8	46
	OTMW-5	0.97	0.1	0.019	0.005	0.013

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAMS PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
1/20/92	STMW-1	4.6	0.59	0.036	ND	0.19
	STMW-2	14	0.12	0.0006	0.0006	0.08
	MW-2	0.38	0.38	0.0013	ND	0.034
	MW-3	510	27	27	5.8	46
	OTMW-5	0.09	0.0007	0.0007	ND	0.011
5/07/92	STMW-1	4.4	0.066	0.053	0.004	0.16
	STMW-2	1.7	0.032	0.017	0.0086	0.048
	MW-2	10	0.062	0.032	0.044	0.16
	MW-3	43	0.25	0.23	0.43	1.1
	OTMW-5	0.18	0.027	0.014	0.0082	0.035
8/17/92	STMW-1	2.7	0.031	0.018	0.019	0.067
	STMW-2	16	0.18	0.22	0.21	0.62
	MW-2	6.0	0.048	0.027	0.065	0.18
	MW-3	140	2.5	2.4	1.7	5.5
	OTMW-5	0.087	0.012	0.0098	0.004	0.042
	OTMW-6	ND	ND	ND	ND	ND

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
12/10/92	STMW-1	35	0.054	0.079	0.083	0.22
	STMW-2	44	0.084	0.096	0.12	0.35
	MW-2	7.2	0.015	0.023	0.032	0.082
	MW-3	94	0.4	0.41	0.43	1.1
	OTMW-5	0.54	0.0047	0.0045	0.0064	0.019
3/18/93	STMW-1	19	0.049	0.052	0.055	0.18
	STMW-2	9.2	0.022	0.031	0.04	0.11
	MW-2	1.4	0.0083	0.011	0.013	0.048
	MW-3	51	0.092	0.13	0.16	0.59
	OTMW-5	0.57	0.006	0.0076	0.011	0.029
7/13/93	STMW-1	17	0.034	0.043	0.048	0.17
	STMW-2	9.3	0.018	0.024	0.026	0.089
	MW-2	2.4	0.0047	0.0062	0.0068	0.025
	MW-3	80	0.16	0.21	0.23	0.82
	OTMW-5	3.5	0.0068	0.00086	0.0095	0.036

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
10/11/93	STMW-1	51	2.1	2.4	0.53	2.6
	STMW-2	62	2.8	3.9	0.67	4.4
	MW-2	0.41	0.043	0.0026	0.0045	0.012
	MW-3	180	14.0	8.8	0.32	9.4
	OTMW-5	ND	ND	ND	ND	ND
1/07/94	STMW-1	29	1.5	1.6	0.45	2.5
	STMW-2	22	1.1	1.0	0.28	1.8
	MW-2	0.24	0.025	0.0031	ND	0.02
	MW-3	120	9.5	4.6	0.23	7.8
	OTMW-5	1.5	0.2	0.098	0.005	0.057
4/06/94	STMW-1	20.0	1.1	0.56	0.3	1.6
	STMW-2	6.6	0.49	0.14	0.062	0.33
	MW-2	3.0	0.12	0.023	0.022	0.19
	MW-3	96.0	6.0	3.1	0.095	6.2
	OTMW-5	0.57	0.072	0.036	0.0024	0.022

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
8/03/94	STMW-1	43.0	1.0	1.7	0.64	4.7
	STMW-2	4.0	0.25	0.052	0.055	0.24
	MW-2	0.5	0.057	0.001	0.017	0.025
	MW-3	200.0	6.5	3.7	1.5	18.0
11/18/94	STMW-1	92.0	9.0	12.0	1.6	9.1
	STMW-2	10.0	0.73	0.79	0.2	1.3
	MW-2	8.0	0.65	0.085	0.5	1.04
	MW-3	86.0	7.4	8.5	2.2	12.0
2/16/95	STMW-1	150.0	0.85	0.54	0.4	1.2
	STMW-2	37.0	0.23	0.088	0.092	0.32
	MW-2	0.66	0.0064	0.001	0.0056	0.0089
	MW-3	59.0	0.28	0.12	0.12	0.57

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
5/19/95	STMW-1	59.0	0.4	0.33	0.17	0.61
	STMW-2	9.3	0.04	0.016	0.022	0.068
	MW-2	1.9	0.011	0.01	0.023	0.026
	MW-3	12.0	0.15	0.068	0.069	0.16
8/18/95	STMW-1	300.0	0.88	0.78	0.54	1.7
	STMW-2	210.0	0.72	0.55	0.52	1.4
	MW-2	1.8	0.015	0.0016	0.015	0.02
	MW-3	33.0	0.074	0.028	0.038	0.1
11/30/95	STMW-1	67.0	0.8	0.91	0.39	1.5
	STMW-2	66.0	0.66	0.51	0.37	1.5
	MW-2	0.12	0.0093	ND	0.0005	0.0035
	MW-3	100.0	1.3	0.51	0.25	2.4

TABLE 2 CONT'D
WATER ANALYTICAL RESULTS
IN
MILLIGRAM PER LITER (mg/L)

Date	Well No.	TPHg	B	T	E	X
2/29/96	STMW-1	71.0	0.12	0.095	0.018	0.26
	STMW-2	33.0	0.075	0.055	0.052	0.15
	MW-2	1.2	0.0061	0.0012	0.0062	0.0087
	MW-3	15.0	0.012	0.0038	0.01	0.024
	SDWS	NL	0.001	0.100*	0.68	1.75

VOLATILE ORGANIC COMPOUNDS (VOC'S) ANALYSES RESULTS:

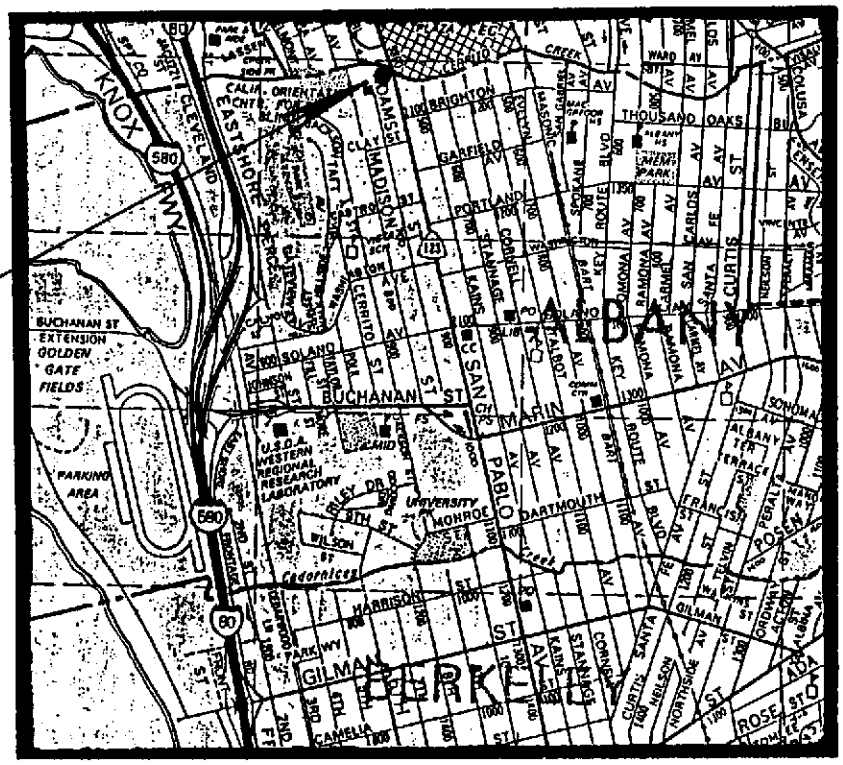
Date	Well Number	Volatile Organic Compounds	
2/29/96	STMW-1	Not Detected	
	STMW-2	Not Detected	
	MW-2	Not Detected	
	MW-3	1,2-Dichloroethene Chloroform Trichloroethene Tetrachloroethene	0.035 0.16 0.11 0.08

TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
SDWS - State Drinking Water Standard
ND - Not Detected (Below Laboratory Detection Limit)
NL - No MCL Levels
* - Action Level not Enforceable-Health Based Advisory Levels

File No. 8-90-421-SI

A P P E N D I X "B"

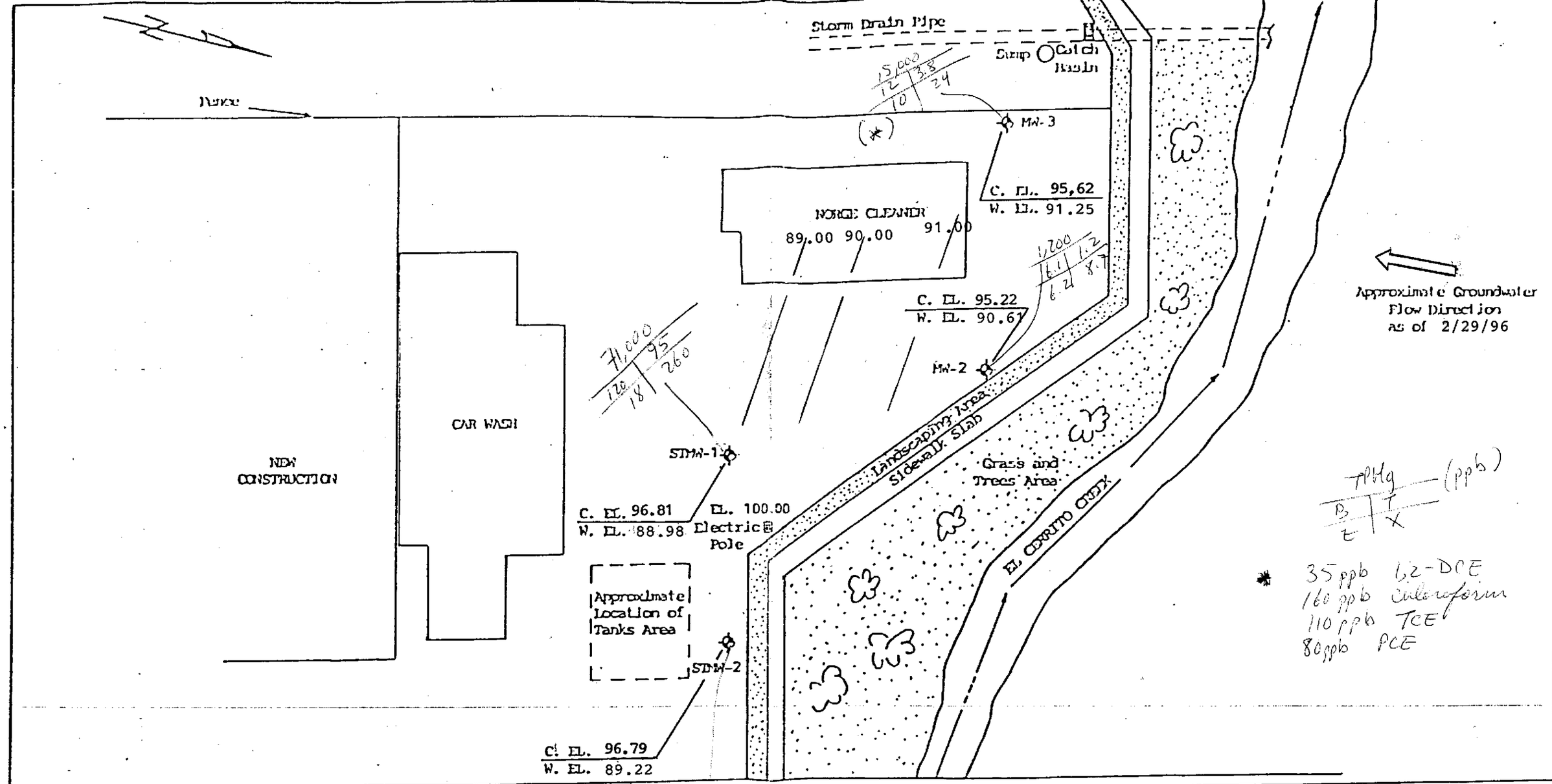
SOIL TECH ENGINEERING, INC.



Thomas Brothers Map 1993 Edition
San Francisco, Alameda,
and Contra Costa Counties

Page 1 D2

Figure 1



C. EL. Casing Elevation
W. EL. Water Elevation
Monitoring Well

DIRECTION OF GROUNDWATER FLOW

400 SAN PABLO AVENUE, ALBANY, CALIFORNIA

SCALE: 1"=30'	PROJECT NO. 8-90-421-SI	FIGURE 2
DRAWN BY N.A.		2/29/96

SOIL TECH ENGINEERING, INC.
298 BROKAW ROAD, SANTA CLARA, CALIFORNIA 95050

File No. 8-90-421-SI

A P P E N D I X "C"

File No. 8-90-421-SI

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.

The groundwater sample was collected when the first groundwater level was encountered in the boring.

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

March 04, 1996 PEL # 9603006

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Four water samples for Gasoline/BTEX analysis.

Project name: 400 San Pablo Ave., - Albany
Project number: 8-90-421-ST

Date sampled: Feb 29, 1996 Date submitted: Mar 01, 1996
Date extracted: Mar 01-02, 1996 Date analyzed: Mar 01-02, 1996

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
STMW-1	71000	120	95	18	260
STMW-2	33000	75	55	52	150
MW-2	1200	6.1	1.2	6.2	8.7
MW-3	15000	12	3.8	10	24
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	100.8%	84.6%	80.2%	86.7%	89.7%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

March 09, 1996 PEL # 9603006

SOIL TECH ENGINEERING Attn: Noori Ameli

Project name:400 San Pablo Ave-Albany Project number: 8-90-421-SI

Sample I.D.: STMW-1

Date Sampled: Feb 29, 1996 Date Submitted: Mar 01, 1996
Date Analyzed: Mar 08-09, 1996

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	91.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	90.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	88.2
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

March 09, 1996 PEL # 9603006

SOIL TECH ENGINEERING Attn: Noori Ameli

Project name:400 San Pablo Ave-Albany Project number: 8-90-421-SI

Sample I.D.: STMW-2

Date Sampled: Feb 29, 1996 Date Submitted: Mar 01, 1996
Date Analyzed: Mar 08-09, 1996

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	91.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	90.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	88.2
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

March 09, 1996 PEL # 9603006

SOIL TECH ENGINEERING Attn: Noori Ameli

Project name:400 San Pablo Ave-Albany Project number: 8-90-421-SI

Sample I.D.: MW-2

Date Sampled: Feb 29, 1996 Date Submitted: Mar 01, 1996
Date Analyzed: Mar 08-09, 1996

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	91.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	90.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	88.2
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

March 09, 1996 PEL # 9603006

SOIL TECH ENGINEERING Attn: Noori Ameli

Project name:400 San Pablo Ave-Albany Project number: 8-90-421-SI

Sample I.D.: MW-3

Date Sampled: Feb 29, 1996 Date Submitted: Mar 01, 1996
Date Analyzed: Mar 08-09, 1996

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	35	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	160	91.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	110	90.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	80	88.2
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PEL

CHAIN OF CUSTODY RECORD

PROJ. NO.	NAME
8-90-421-SJ	400 San Pablo Av. ALBANY

SAMPLERS: *(Signature)* N. Amdur

NO.	DATE	TIME	SOIL	WATER	LOCATION	CONTAINER	Analyses Requested (2) TPH G/BTEX	REMARKS
1	2/29/96	14[45]		✓	STMW-1	1	✓	
2	2/29/96	13[25]		✓	STMW-2	1	✓	
3	2/29/96	11[10]		✓	MW-2	1	✓	
4	2/29/96	14[35]		✓	MW-3	1	✓	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Receive by: *(Signature)*
N. Amdur					
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
			03/01/96 3:45 pm		

SOIL TECH ENGINEERING

Environmental and Geotechnical Engineers

1761 Junction Ave. San Jose CA 95112 (408)441-1881

PROJ. NO.	NAME
8-90-421-SI	400 San Pablo Av. ALBANY

SAMPLERS: *(Signature)* N. Ameli

PEL # 9603006
INV # 26829

NO.	DATE	TIME	SOIL	WATER	LOCATION	CONTAINER	Analyses Requested (2) TPH G/BTEX	601					
1	2/29/96	14^{40}		✓	STMW-1	1	✓	✓	9				
2	2/29/96	13^{20}		✓	STMW-2	1	✓	✓					
3	2/29/96	11^{10}		✓	MW-2	1	✓	✓					
4	2/29/96	14^{00}		✓	MW-3	1	✓	✓					

per Noori Ameli on 03/08/96 at 11:45 Am

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Receive by: *(Signature)*
N. Ameli					
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
~			03/01/96 3:45 pm		

SOIL TECH ENGINEERING
Environmental and Geotechnical Engineers
1761 Junction Ave. San Jose CA 95112 (408)441 1881