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LETTER OF TRANSMITTAL

DATE	7/29/94	JOB NO.
ATTENTION:	SUSAN HUGO	
RE:	WELLS FARGO BANK	
	(Walter Blumert Co., Inc.)	
	490 43rd Street	
	Oakland, CA	

TO ALAMEDA CTY HEALTH CARE AGENCY
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ALAMEDA, CA 94501

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1			Continuing Subsurface Investigation & Quarterly Report from KEI

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KAPREALIAN ENGINEERING
INCORPORATED

KEI-P91-1201.R6
July 20, 1994

Wells Fargo Bank
525 Market Street, 17th Floor
MAC #0103-171
San Francisco, California 94105

Attention: Mr. Jeffrey Hirsch

RE: Continuing Subsurface Investigation
and Quarterly Report
Wells Fargo Bank
(Walter Blumert Co., Inc.)
490 - 43rd Street
Oakland, California

Dear Mr. Hirsch:

This report presents the results of Kaprealian Engineering, Inc's. (KEI) most recent subsurface investigation for the referenced site, in accordance with KEI's proposal (KEI-P91-1201.P4) dated January 21, 1994. The purpose of the investigation was to further define the degree and extent of soil and ground water contamination in the vicinity of the subject site. This report also presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site. The wells are currently monitored monthly and sampled on a quarterly basis. This report covers the work performed by KEI from April of 1993 through June of 1994. The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Geologic logging of two exploratory borings

Soil sampling

Ground water monitoring, purging, and sampling

Delivery of soil and ground water samples (including Chain of Custody documentation) to a California-certified analytical laboratory for analyses

Data analysis, interpretation, and report preparation

SITE DESCRIPTION AND BACKGROUND

The subject site occupies the north-northeastern corner of the intersection of 43rd Street and Telegraph Avenue in Oakland,

California. The site formerly contained one underground unleaded gasoline storage tank and one underground paint thinner storage tank.

KEI's initial field work was conducted on December 11, 1991, when one underground 1,000 gallon regular unleaded gasoline storage tank and one 350 gallon underground paint thinner storage tank were removed from the site. The tanks were made of steel, and no apparent holes or cracks were observed in the unleaded gasoline storage tank. However, the paint thinner storage tank was partially deteriorated on top. Tank removal and soil sampling were performed in the presence of Ms. Susan Hugo of the Alameda County Health Care Services (ACHCS) Agency. Inspector Christian of the City of Oakland Fire Department was also present during tank removal.

Two soil samples, labeled A1 and A2, were collected from beneath the gasoline storage tank and one sample, labeled B1, was collected from beneath the paint thinner tank at depths of approximately 10 feet below grade. The undisturbed samples were collected from bulk material excavated by backhoe.

In an attempt to remove as much of the contaminated soil as possible, KEI returned to the site on March 31, 1992, in order to observe additional soil excavation in both the gasoline and the paint thinner tank pits. Soil was excavated in the tank pits to depths of approximately 11.5 feet below grade. One soil sample, labeled A(11.5), was collected from beneath the former gasoline tank and one soil sample, labeled B(11.5), was collected from beneath sample point location B1 at depths of about 11.5 feet below grade. Both soil samples were moist. Ground water was observed at the bottom of the excavation. Four additional soil samples, labeled SW-N, SW-S, SW-E, and SW-W, were collected from the sidewalls of the tank pit excavation at depths of about 10 feet below grade. Ms. Hugo of the ACHCS was again present during soil sampling activities. The sample point locations are shown on the attached Figure 7. The excavated soil was stockpiled on-site and sampled. Per the direction of Ms. Hugo and for safety considerations, the tank pit was backfilled with clean imported soil.

All samples were analyzed by Sequoia Analytical Laboratory in Concord, California. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030 in conjunction with modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. In addition, samples A1, A2, and B1 were analyzed for TPH as diesel by EPA method 3550 in conjunction with modified 8015, and samples A(11.5), B(11.5), SW-N, SW-S, SW-E, and SW-W were also analyzed for TPH as paint thinner by EPA method 3550 in conjunction with modified 8015.

Analytical results of the soil samples indicated levels of TPH as gasoline ranging from 110 ppm to 720 ppm, except for samples SW-N and SW-W, which showed 3.6 ppm and non-detectable levels, respectively. TPH as diesel was detected in samples A1, A2, and B1 at levels ranging from 7.8 ppm to 76 ppm. TPH as paint thinner was detected at levels ranging from non-detectable to 25 ppm, except for sample SW-E, which showed 190 ppm. The results of the soil analyses are summarized in Table 7.

To continue defining the extent of soil contamination beneath the site, and to determine if the ground water beneath the site had been impacted by hydrocarbon contamination, KEI proposed the installation of three monitoring wells in a letter accompanying KEI's report (KEI-91-1201.R1) dated June 29, 1992.

On April 12, 1993, three two-inch diameter monitoring wells (designated as MW1, MW2, and MW3 on the attached Figure 1) were installed at and in the vicinity of the site. The three wells were each drilled and completed to total depths ranging from 22 to 23 feet below grade. Ground water was encountered at depths ranging from 12 to 12.5 feet below grade during drilling. The surface of each well cover was surveyed by Kier & Wright of Pleasanton, California, to Mean Sea Level (MSL) and to a vertical accuracy of 0.01 foot. The wells (MW1 through MW3) were developed on April 22, 1993, and were initially sampled on April 29, 1993.

Based on the analytical results of the ground water samples collected from the wells, KEI recommended the implementation of a monthly monitoring and quarterly sampling program at the site. Documentation of well installation procedures, sample collection techniques, and the analytical results are presented in KEI's report (KEI-P91-1201.R3) dated June 2, 1993.

Per KEI's recommendations, a monthly monitoring and quarterly ground water sampling program was initiated in October of 1993. The results of the monitoring and sampling activities to date are presented in KEI's quarterly reports (KEI-P91-1201.QR1 and KEI-P91-1201.QR2) dated January 21, 1994, and April 8, 1994, respectively.

In a work plan/proposal (KEI-P91-1201.P4) dated January 21, 1994, KEI recommended the installation of three additional two-inch diameter monitoring wells designated as MW4 through MW6 on the attached Figure 6.

RECENT FIELD ACTIVITIES - SITE MEETING WITH THE ACHCS

In KEI's work plan/proposal (KEI-P91-1201.P4) dated January 21, 1994, installation of three additional monitoring wells downgradient of the subject site was proposed. However, during marking of

the well locations for underground service notifications prior to drilling, an underground storage tank (UST) was discovered immediately adjacent to the location of proposed well MW5.

On May 26, 1994, a meeting was conducted at the subject site between representatives of KEI, Ms. Hugo from the ACHCS, and the owner of the subject UST. The purpose of the meeting was to investigate and discuss the UST.

At the meeting, it was agreed by the ACHCS and KEI that the installation of proposed downgradient well MW5 would be reevaluated following the removal of the aforementioned UST by the UST owner. Additionally, it was agreed that during the drilling of the two cross-gradient wells (MW4 and MW6), soil and ground water samples would be collected and analyzed as proposed, and, if obvious contamination was detected (by field screening with a photoionization detector [PID]), wells would not be installed in the borings and an appropriate course of action would be determined at a later date.

RECENT FIELD ACTIVITIES - EXPLORATORY BORING INSTALLATION

On June 17, 1994, KEI was on site to complete installation of the two cross-gradient wells. Ms. Hugo of the ACHCS was also present on site. During field screening of the collected soil samples with the PID, volatile organics were detected in the borings. Based on the agreement from the previous on-site meeting, the borings were not completed as monitoring wells and were redesignated as exploratory borings EB1 and EB2, as shown on the attached Figure 3. The subsurface materials penetrated and the depths at which soil samples were collected are shown in the attached Boring Logs.

The two borings (EB1 and EB2) were each drilled to a total depth of 16 feet below grade. Ground water was encountered at depths of 12 and 12.5 feet in EB1 and EB2, respectively, during drilling. Soil samples were collected for laboratory analysis and for lithologic logging purposes at a maximum spacing of 5 foot intervals, at significant changes in lithology, at obvious areas of contamination, and at or within the soil/ground water interface, beginning at a depth of approximately 5 feet below grade and continuing until ground water was encountered. The undisturbed soil samples were collected by driving a California-modified split-spoon sampler (lined with brass liners) ahead of the drilling augers. The two-inch diameter brass liners holding the samples were sealed with aluminum foil, plastic caps and tape, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Drilling was stopped about 1 to 2 feet after intersecting the first water table. Water samples were collected from each of the borings by the use of a clean Teflon bailer. The water samples were

decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

After the water samples were collected, bentonite was used to seal the borings within the saturated zone. Neat cement grout was then placed from the bentonite plug to the surface in one continuous pour. A hardening agent was used for the upper 1 to 2 feet of the borings to reduce curing time.

RECENT FIELD ACTIVITIES - MONITORING AND SAMPLING

The three existing monitoring wells (MW1 through MW3) were monitored three times and were sampled once during the quarter. During monitoring, the wells were checked for depth to water and the presence of free product. Prior to sampling, the wells were also checked for the presence of sheen. No free product or sheen was noted in any of the wells during the quarter. Monitoring data are summarized in Table 1.

Water samples were collected from the existing wells (MW1 through MW3) on June 16, 1994. Prior to sampling, the wells were each purged of between 8 and 10 gallons by the use of a surface pump. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded and are presented in Table 2. Once the field parameters were observed to stabilize and a minimum of four casing volumes had been removed from each well, water samples were then collected by the use of a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

ANALYTICAL RESULTS

Water samples from the three wells (MW1, MW2, and MW3) and the two exploratory borings (EB1 and EB2), and selected soil samples from the borings (EB1 and EB2), were analyzed at Sequoia Analytical Laboratory. All samples analyzed were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for TPH as gasoline by EPA method 5030/modified 8015, BTEX by EPA method 8020, and TPH as paint thinner by EPA method 3510/modified 8015 (water) and EPA method 3550/modified 8015 (soil).

The concentrations of TPH as gasoline, benzene, and TPH as paint thinner detected in the ground water samples collected on June 16, 1994, are shown on the attached Figure 4. The results of the soil analyses are summarized in Table 4, and the results of the water

analyses are summarized in Tables 3 and 5. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

HYDROLOGY AND GEOLOGY

The measured depth to ground water at the site on June 16, 1994, ranged between 11.49 and 11.81. Based on the water level data gathered during the quarter, the ground water flow direction appeared to be between the south and south-southwest, as shown on the attached Ground Water Flow Directions Maps, Figures 1, 2, and 3. The flow directions reported this quarter are similar to the predominant southerly flow direction reported since April 1993. The average hydraulic gradient at the site on June 16, 1994, was approximately 0.01.

Based on review of regional geologic maps (USGS, Miscellaneous Geologic Investigations, Map I-239, Areal and Engineering Geology of the Oakland West Quadrangle, California, by D.H. Radbruch, 1957), the subject site is underlain by the Quaternary-age alluvial fan deposits of the Temescal formation (Qtc). These deposits are described as typically consisting of clayey gravel, sandy and silty clays, and sand-clay-silt mixtures. The depth to bedrock is presently unknown to KEI.

Based on the results of our subsurface study, the site is underlain by alluvium to the maximum depth explored (23 feet below grade). The alluvium underlying the site consists predominantly of clayey or sandy silt, with lesser amounts of clayey or silty gravel and clayey or silty sand.

As of June of 1994, the unsaturated zone beneath the site is approximately 12 feet thick and consists mainly of clayey or sandy silt, clayey gravel, clayey or silty sand, and clay, in order of decreasing abundance.

The first water bearing units beneath the site (first aquifer) also consist largely of sandy or clayey silt, with subordinate amounts of silty or clayey gravel and silty sand. The units immediately above and below the water table consist of gravelly or sandy silt in MW1 and MW3, and silty or clayey gravel in MW2.

The results of the particle size analysis (sieve and hydrometer) previously conducted on the soil sample collected from the saturated zone in monitoring well MW3 at a depth of 14 to 15 feet below grade indicates that the sample is composed of approximately 65% sand, 33% silt and clay, and 2% gravel. The sample is classified as silty sand with gravel (SM).

FILE REVIEW

On May 5, 1994, a representative of KEI reviewed the files for underground tank sites at the Oakland Fire Prevention Bureau located at 421 14th Street in Oakland, California. No records were contained in the files for the UST that was observed in the sidewalk across from the subject site.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results of the soil and ground water samples collected to date, further work at the site is warranted. However, prior to conducting any additional subsurface investigation/remediation work at the subject site, KEI recommends that a meeting be held between representatives of the ACHCS, the property owner, and KEI.

Lastly, KEI recommends the continuation of the current ground water monitoring and sampling program at the subject site. The three existing monitoring wells are monitored on a monthly basis and sampled quarterly. The ground water samples are analyzed for TPH as gasoline, TPH as paint thinner, and BTEX.

DISTRIBUTION

Copies of this report should be sent to the ACHCS, and to the RWQCB, San Francisco Bay Region.

LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

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July 20, 1994
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Should you have any questions regarding this report, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

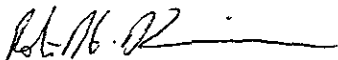
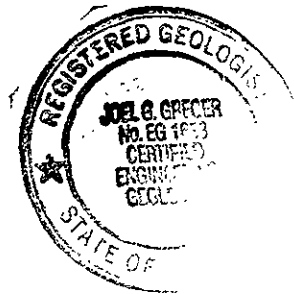


Haig (Gary) Tejirian
Project Geologist



Joel G. Greger, C.E.G.
Senior Engineering Geologist

License No. EG 1633
Exp. Date 8/31/96



Robert H. Kezerian
Project Manager

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Attachments: Tables 1 through 7
Location Map
Figures 1 through 7
Boring Logs
Laboratory Analyses
Chain of Custody documentation

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TABLE 1

SUMMARY OF GROUND WATER MONITORING AND PURGING DATA

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)</u>	<u>Product Thickness</u>	<u>Sheen</u>	<u>Gallons Pumped</u>
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(Monitored and Sampled on June 16, 1994)

MW1	79.30	11.72	0	No	10
MW2	79.06	11.49	0	No	8
MW3	79.09	11.81	0	No	10

(Monitored on May 23, 1994)

MW1	80.27	10.75	0	--	0
MW2	80.03	10.52	0	--	0
MW3	80.16	10.74	0	--	0

(Monitored on April 14, 1994)

MW1	79.83	11.19	0	--	0
MW2	79.60	10.95	0	--	0
MW3	79.67	11.23	0	--	0

<u>Well #</u>	<u>Top of Casing Elevation* (MSL)</u>
MW1	91.02
MW2	90.55
MW3	90.90

-- Sheen determination was not performed.

* Based on the City of Oakland Benchmark #2859 (elevation = 83.05 feet MSL).

KEI-P91-1201.R6
July 20, 1994

TABLE 2

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES
IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on June 16, 1994)

<u>Well #</u>	<u>Gallons per Casing Volume</u>	<u>Time</u>	<u>Gallons Purged</u>	<u>Casing Volumes Purged</u>	<u>Temperature (°F)</u>	<u>Conductivity ([μmhos/cm]\times100)</u>	<u>pH</u>
MW1	1.89	9:20	2	1.1	73.1	6.02	9.22
		9:22	4	2.1	70.2	6.10	8.50
		9:24	6	3.2	69.1	6.15	7.73
		9:26	8	4.2	69.3	6.16	7.73
		9:28	10	5.3	69.1	6.15	7.70
MW2	1.68	9:45	2	1.2	71.3	6.45	7.91
		9:47	4	2.4	70.1	6.31	7.69
		9:49	6	3.6	69.9	6.31	7.70
		9:51	8	4.8	70.0	6.30	7.72
MW3	1.69	10:15	2	1.2	68.4	6.43	8.90
		10:17	4	2.4	69.0	6.42	8.21
		10:19	6	3.6	68.6	6.43	7.82
		10:21	8	4.7	68.9	6.42	7.83
		10:23	10	5.9	68.8	6.44	7.81

TABLE 3

SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Sample Number</u>	<u>TPH as Paint Thinner</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
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(Collected on June 16, 1994)

MW1	430	700	35	6.8	8.7	10
MW2	3,600	15,000	2,300	100	290	110
MW3	4,900	6,500	510	39	87	47

(Collected on March 15, 1994)

MW1	1,200	2,100	250	12	27	38
MW2	11,000	18,000	2,100	ND	200	70
MW3	4,700	7,700	910	ND	86	50

(Collected on December 13, 1993)

MW1	820*	1,700♦	170	22	19	48
MW2	2,600	11,000♦	1,400	66	150	94
MW3	3,500	6,200♦	580	120	65	120

(Collected on April 29, 1993)

MW1**	600	290	31	1.9	2.7	5.4
MW2**	4,100	11,000	2,400	51	76	160
MW3**	5,800	8,500	840	17	40	42

♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a paint thinner and non-paint thinner mixture.

** TPH as diesel was detected in MW1, MW2, and MW3 at concentrations of 650 ppb, 3,600 ppb, and 4,300 ppb, respectively; however, Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

Results in parts per billion (ppb), unless otherwise indicated.

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TABLE 4

SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	<u>Sample Number</u>	<u>TPH as Paint Thinner</u>	<u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
6/01/94	EB1(5)	ND	ND	ND	ND	ND	ND
	EB1(10)	ND	ND	ND	ND	ND	ND
	EB1(11.5)	ND	ND	ND	ND	ND	ND
	EB2(5)	ND	ND	ND	ND	ND	ND
	EB2(10)	28	65*	0.53	0.13	0.50	1.9
	EB2(12)	45	180*	0.42	0.26	0.81	2.9

NOTE: The soil samples were collected at the depths below grade indicated in the () of the respective sample number.

* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

KEI-P91-1201.R6
July 20, 1994

TABLE 5

SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	<u>Sample Number</u>	<u>TPH as Paint Thinner</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
6/01/94	EB1	7,000	3,400	26	6.7	5.9	8.5
	EB2	3,700	9,200	990	29	280	130

NOTE: Water samples were collected during drilling. The results of the analyses may not be representative of formation water, and should be used for comparative informational purposes only.

Results in parts per billion (ppb), unless otherwise indicated.

KEI-P91-1201.R6
July 20, 1994

TABLE 6

SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Sample Number</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>TPH as Paint Thinner</u>
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(Collected on April 12 and 13, 1993)

MW1(5)	ND	ND	ND	ND	ND	ND	ND
MW1(9.5)	2.2*	20	0.069	0.019	0.030	0.090	ND
MW1(11.5)	6.9*	210	1.2	0.90	1.2	2.6	11+
MW2(5)	ND	ND	ND	ND	ND	ND	ND
MW2(7.5)	9.3**	66♦	0.24	ND	0.026	0.35	15
MW2(10)	190**	1,000♦	3.4	ND	ND	20	320
MW2(11.5)	180**	710♦	3.0	0.71	0.68	14	310
MW3(5)	4.7**	ND	ND	ND	ND	ND	7.6
MW3(10)	590**	2,000♦	2.6	0.88	0.74	28	1,000
MW3(12)	53**	630♦	0.86	0.12	1.1	2.3	89

NOTE: The soil samples were collected at the depths below grade indicated in the () of the respective sample number.

- * Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- ** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.
- ♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- + Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a paint thinner and non-paint thinner mixture.

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

KEI-P91-1201.R6
 July 20, 1994

TABLE 7

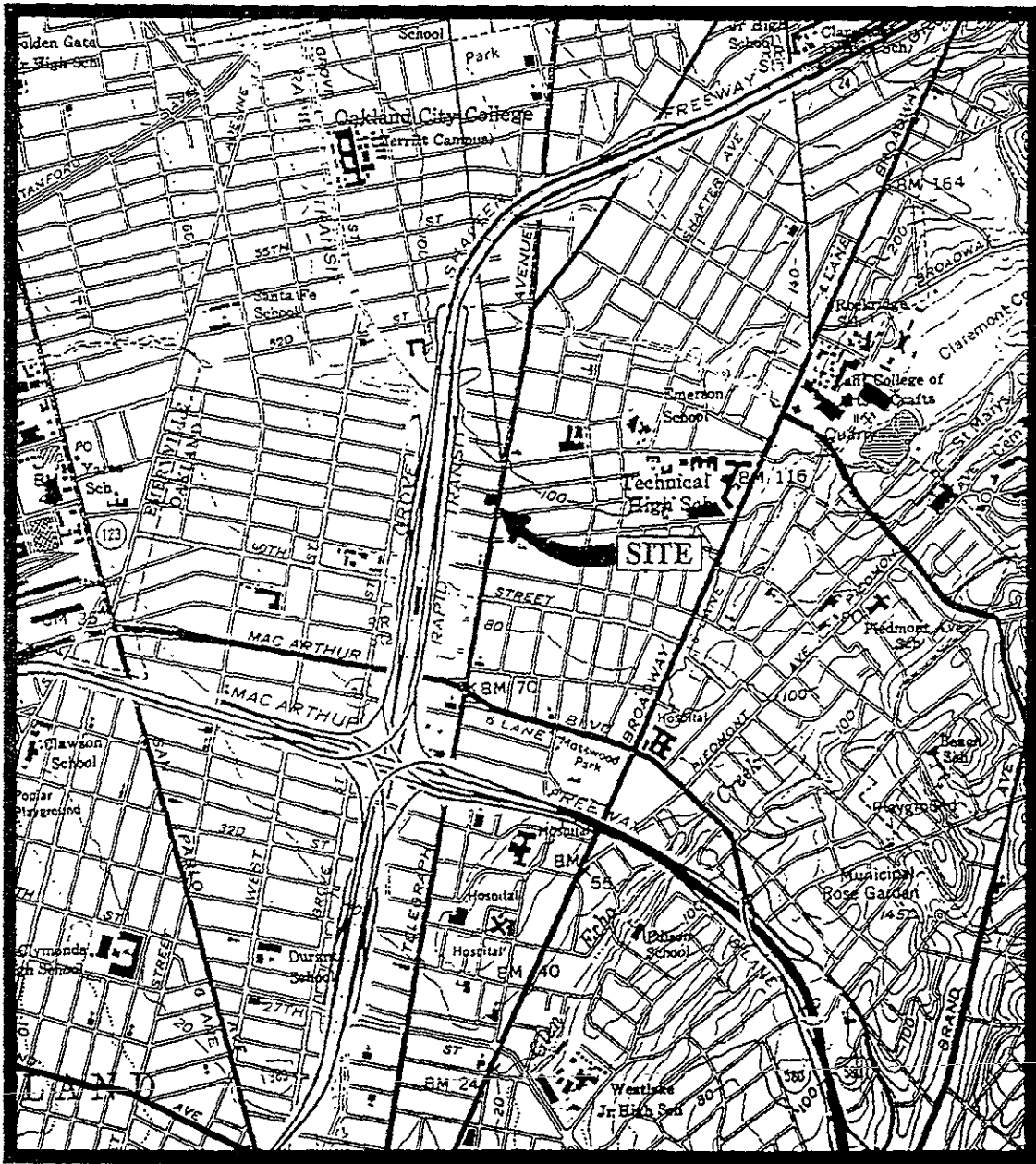
SUMMARY OF LABORATORY ANALYSES
 SOIL

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Paint Thinner</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
(Collected on December 11, 1991)								
A1	10.0	7.8	--	110	0.88	6.5	1.9	22
A2	10.0	37	--	220	0.050	0.12	0.48	4.6
B1	10.0	76	--	490	0.43	0.48	19	18
(Collected on March 31, 1992)								
A(11.5)	11.5	--	10	480	1.4	1.3	7.2	9.9
B(11.5)	11.5	--	25	440	0.55	ND	3.3	16
SW-N	10.0	--	ND	3.6	ND	ND	0.0072	0.050
SW-S	10.0	--	7.6	190	0.20	0.12	1.2	1.9
SW-E	10.0	--	190	720	0.76	0.91	5.4	30
SW-W	10.0	--	ND	ND	ND	ND	ND	ND

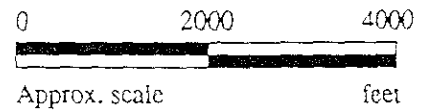
-- Indicates analysis was not performed.


ND = Non-detectable.

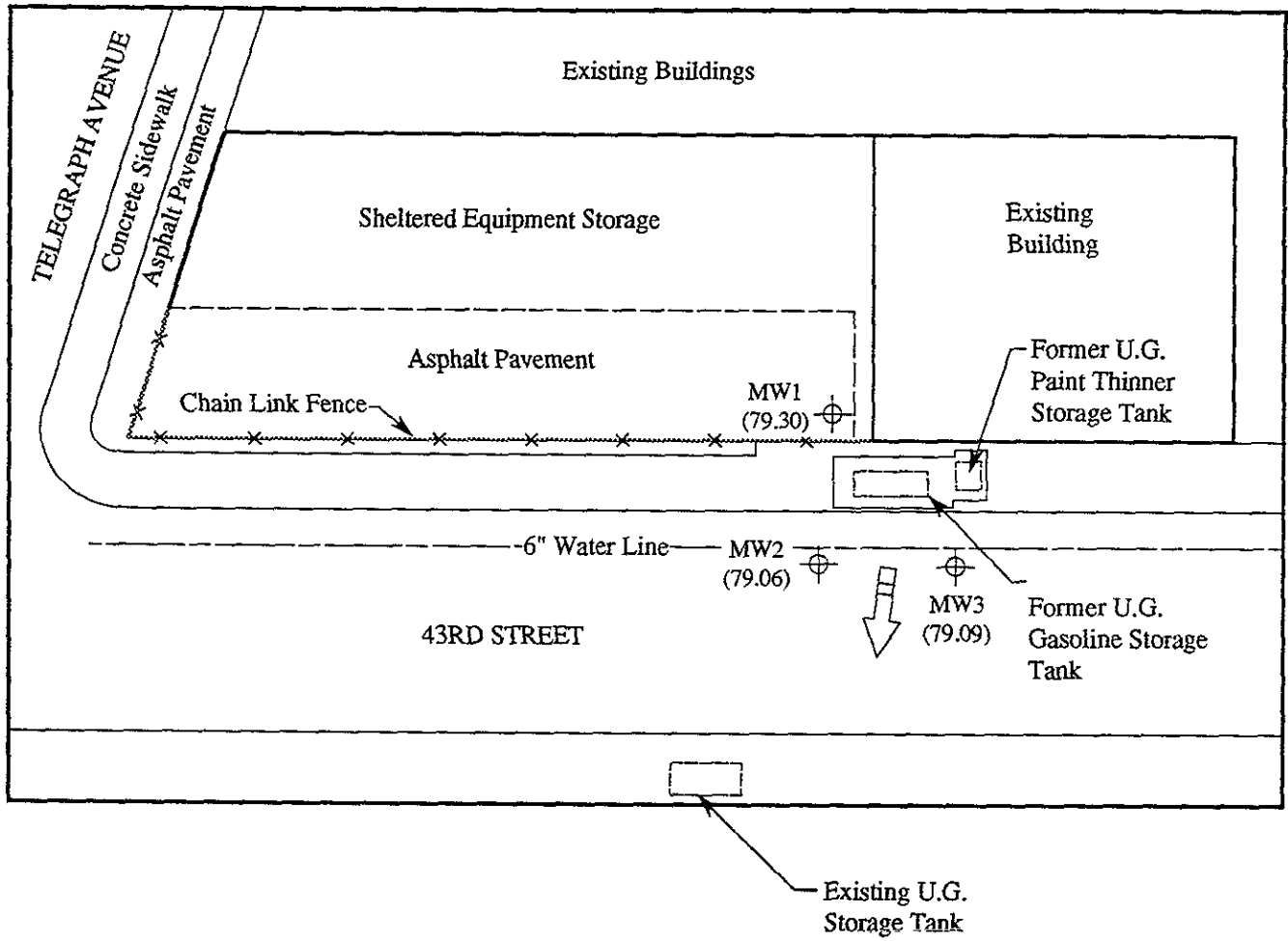
Results are in parts per million (ppm), unless otherwise indicated.



Base modified from 7.5 minute U.S.G.S. Oakland East and West Quadrangles
 (both photorevised 1980)

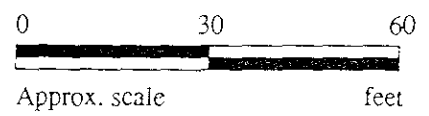


 <p>KAPREALIAN ENGINEERING INCORPORATED</p>	<p>WELLS FARGO BANK (WALTER BLUMERT CO, INC.) 490 43RD STREET OAKLAND, CA</p>	<p>LOCATION MAP</p>
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LEGEND

- Monitoring well
- Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow

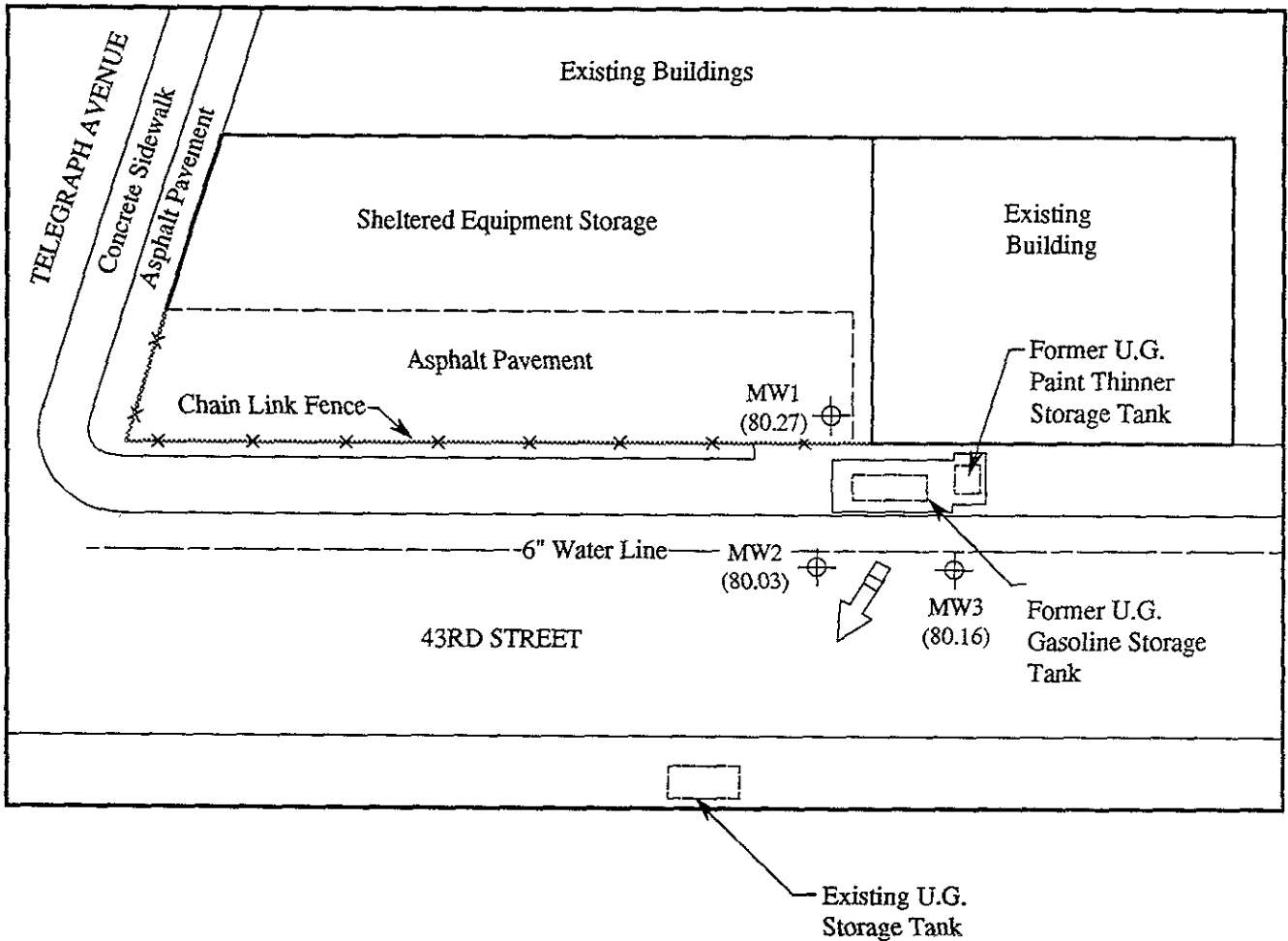


GROUND WATER FLOW DIRECTION MAP FOR THE JUNE 16, 1994 MONITORING EVENT






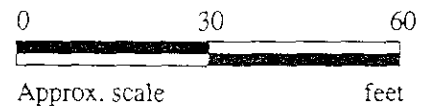
WELLS FARGO BANK
(WALTER BLUMERT CO, INC.)
490 43RD STREET
OAKLAND, CALIFORNIA

FIGURE
1



LEGEND

-  Monitoring well
-  Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow

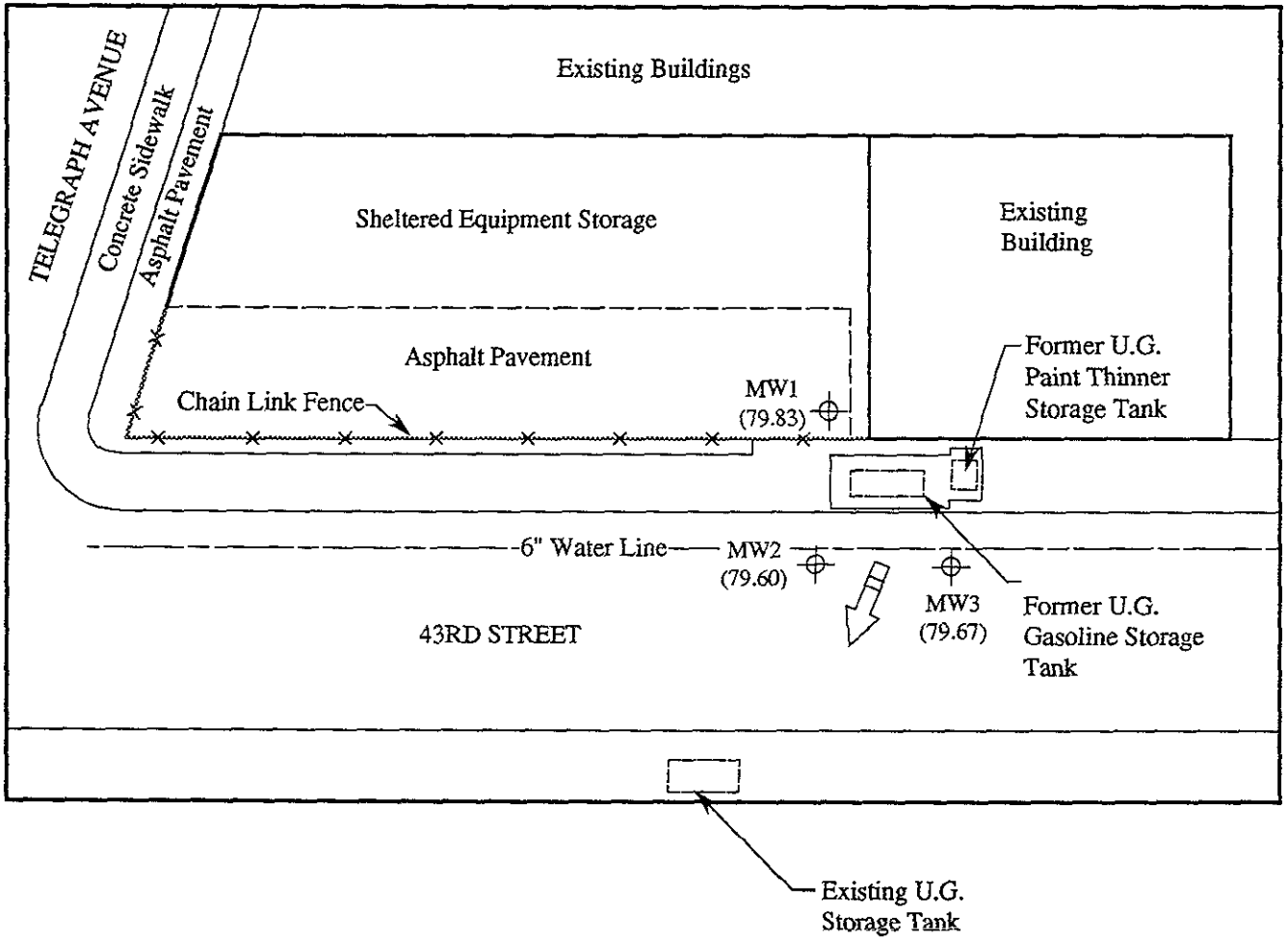


GROUND WATER FLOW DIRECTION MAP FOR THE MAY 23, 1994 MONITORING EVENT






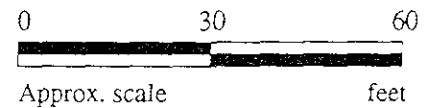
WELLS FARGO BANK
(WALTER BLUMERT CO, INC.)
490 43RD STREET
OAKLAND, CALIFORNIA

FIGURE
2



LEGEND

-  Monitoring well
-  Ground water elevation in feet above Mean Sea Level
-  Direction of ground water flow

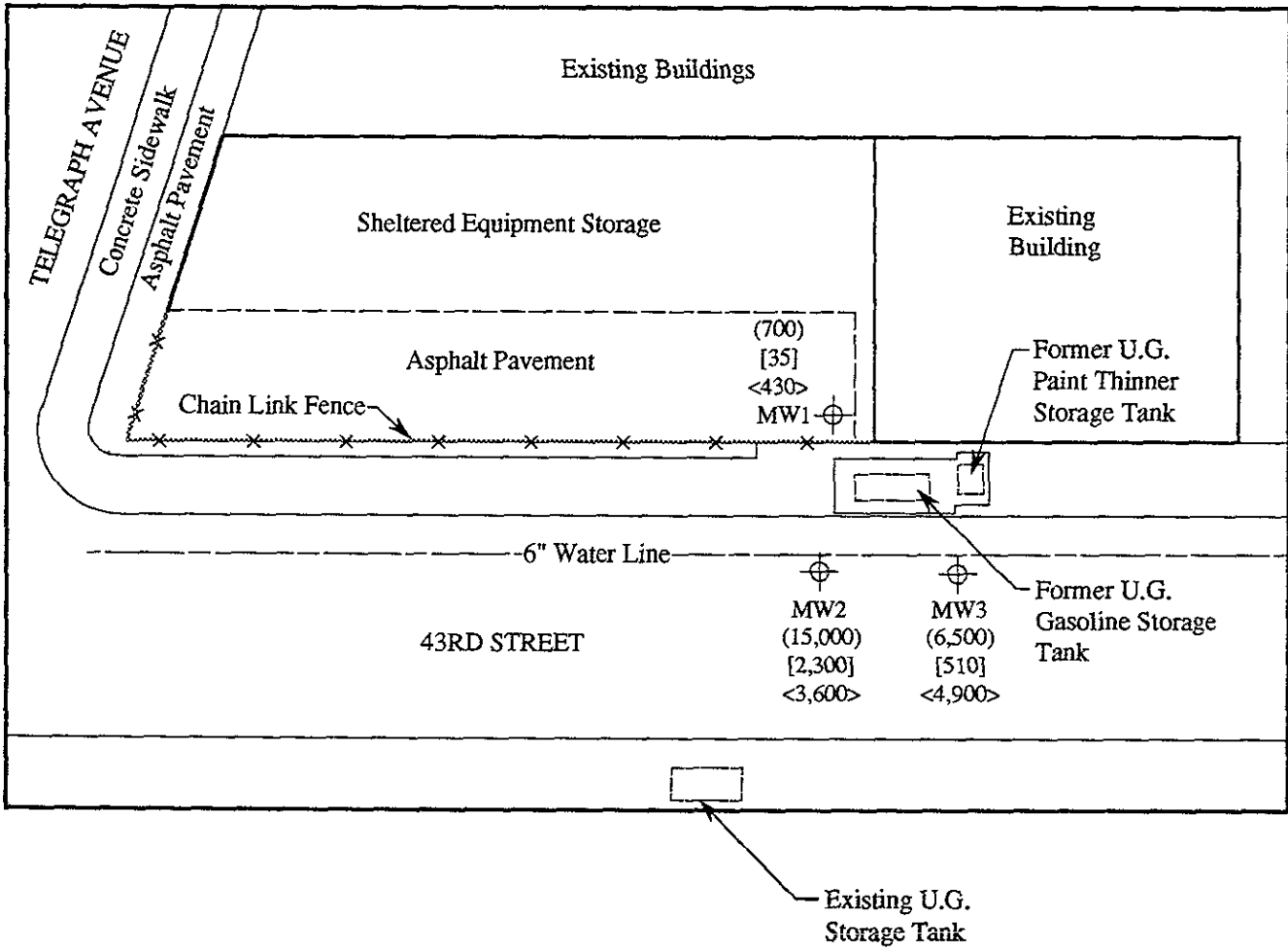


GROUND WATER FLOW DIRECTION MAP FOR THE APRIL 14, 1994 MONITORING EVENT



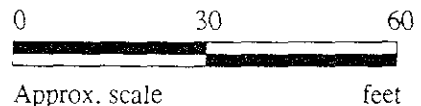
WELLS FARGO BANK
(WALTER BLUMERT CO, INC.)
490 43RD STREET
OAKLAND, CALIFORNIA

FIGURE
3



LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in ppb
- [] Concentration of benzene in ppb
- < > Concentration of TPH as paint thinner in ppb

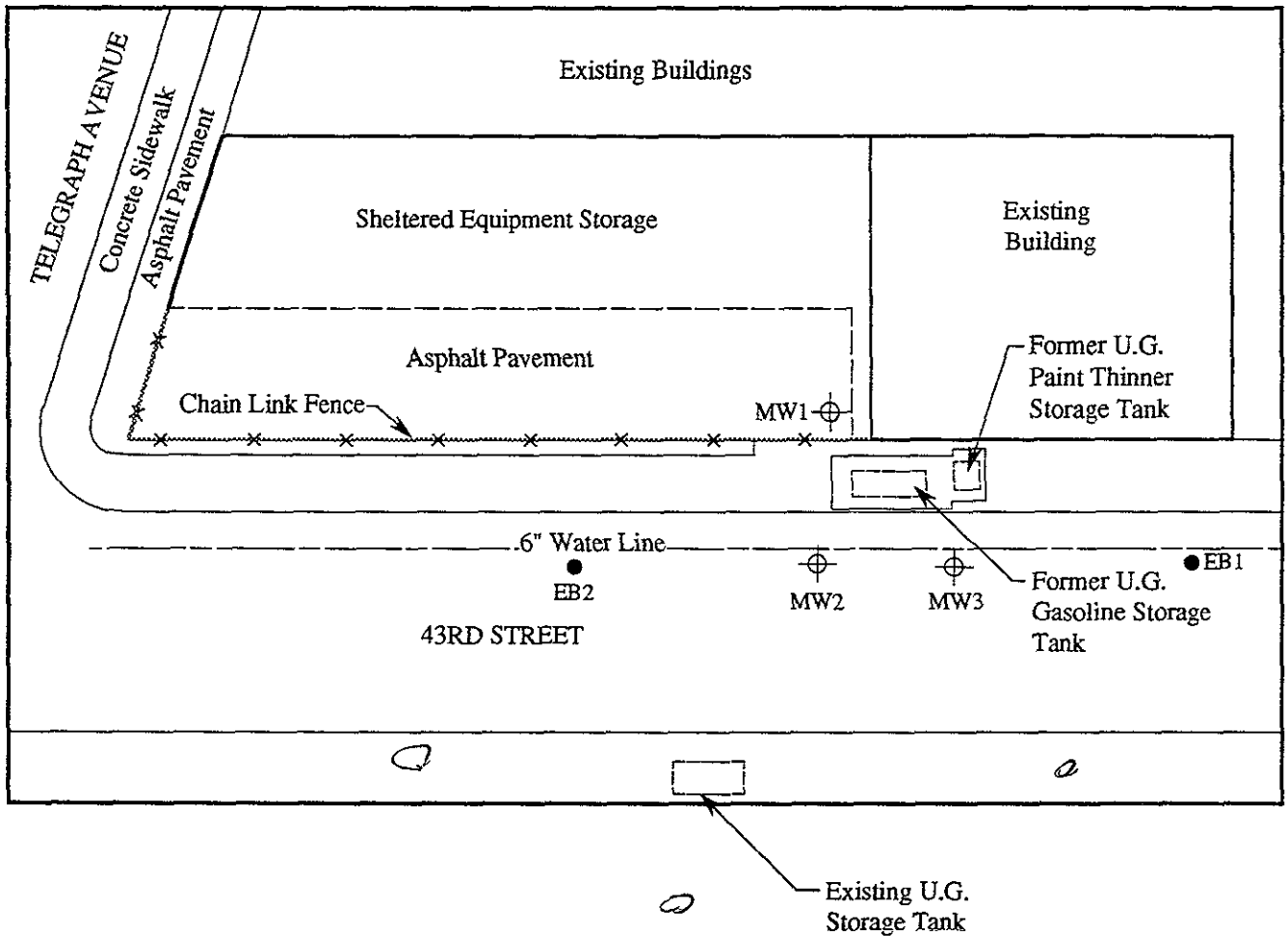


PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON JUNE 16, 1994



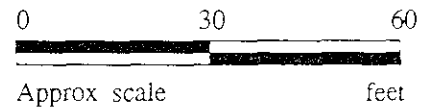
**WELLS FARGO BANK
(WALTER BLUMERT CO, INC.)
490 43RD STREET
OAKLAND, CALIFORNIA**

**FIGURE
4**



LEGEND

- ⊕ Monitoring well (existing)
- Exploratory boring

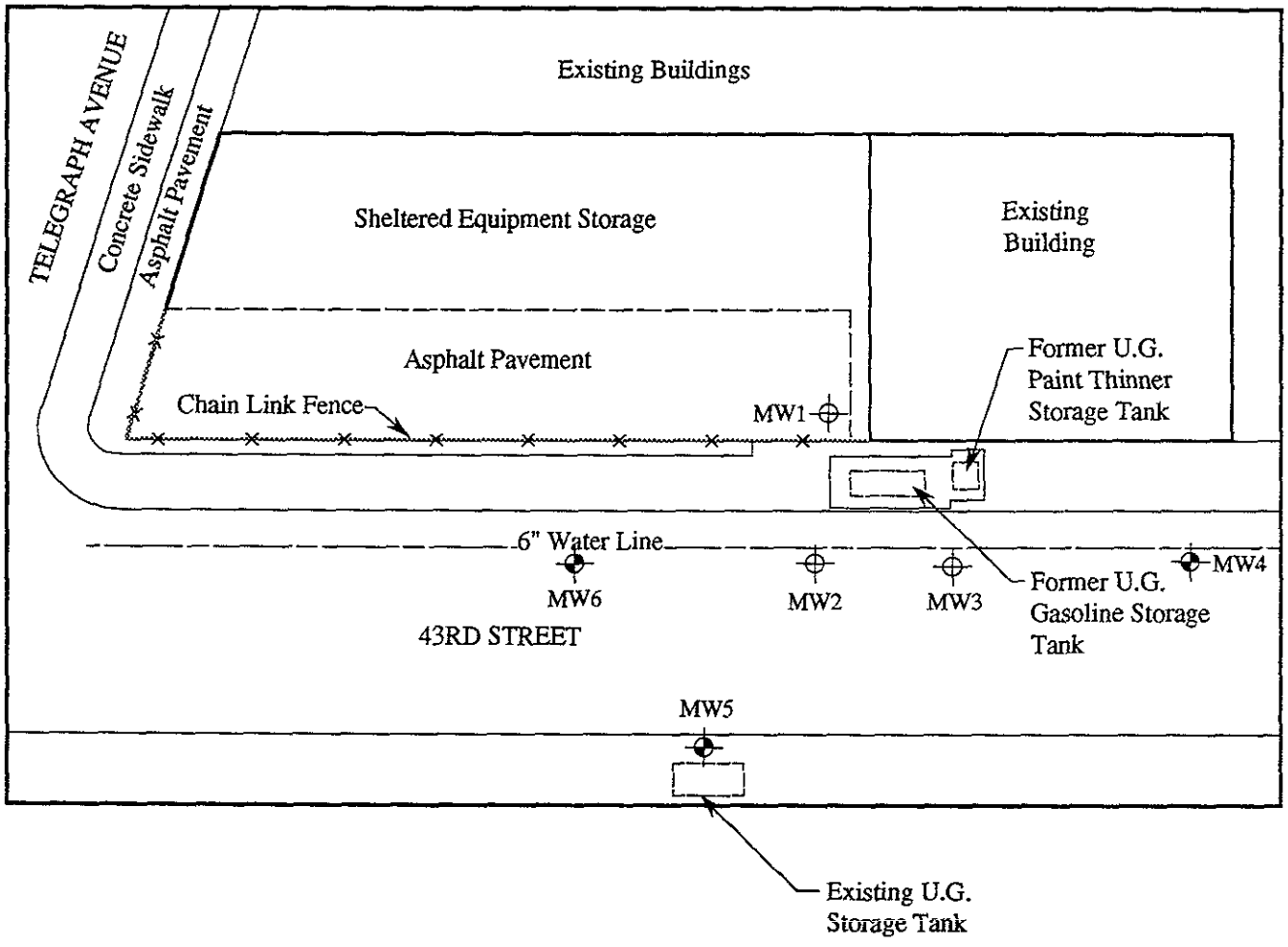


MONITORING WELL AND EXPLORATORY BORING LOCATION MAP




KAPREALIAN ENGINEERING
INCORPORATED

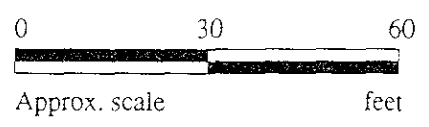
WELLS FARGO BANK
(WALTER BLUMERT CO, INC.)
490 43RD STREET
OAKLAND, CALIFORNIA

FIGURE
5

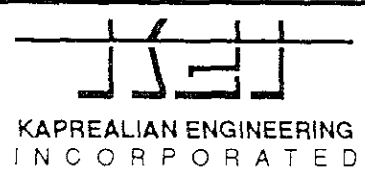


LEGEND

-  Monitoring well (existing)
-  Monitoring well (proposed, not installed)

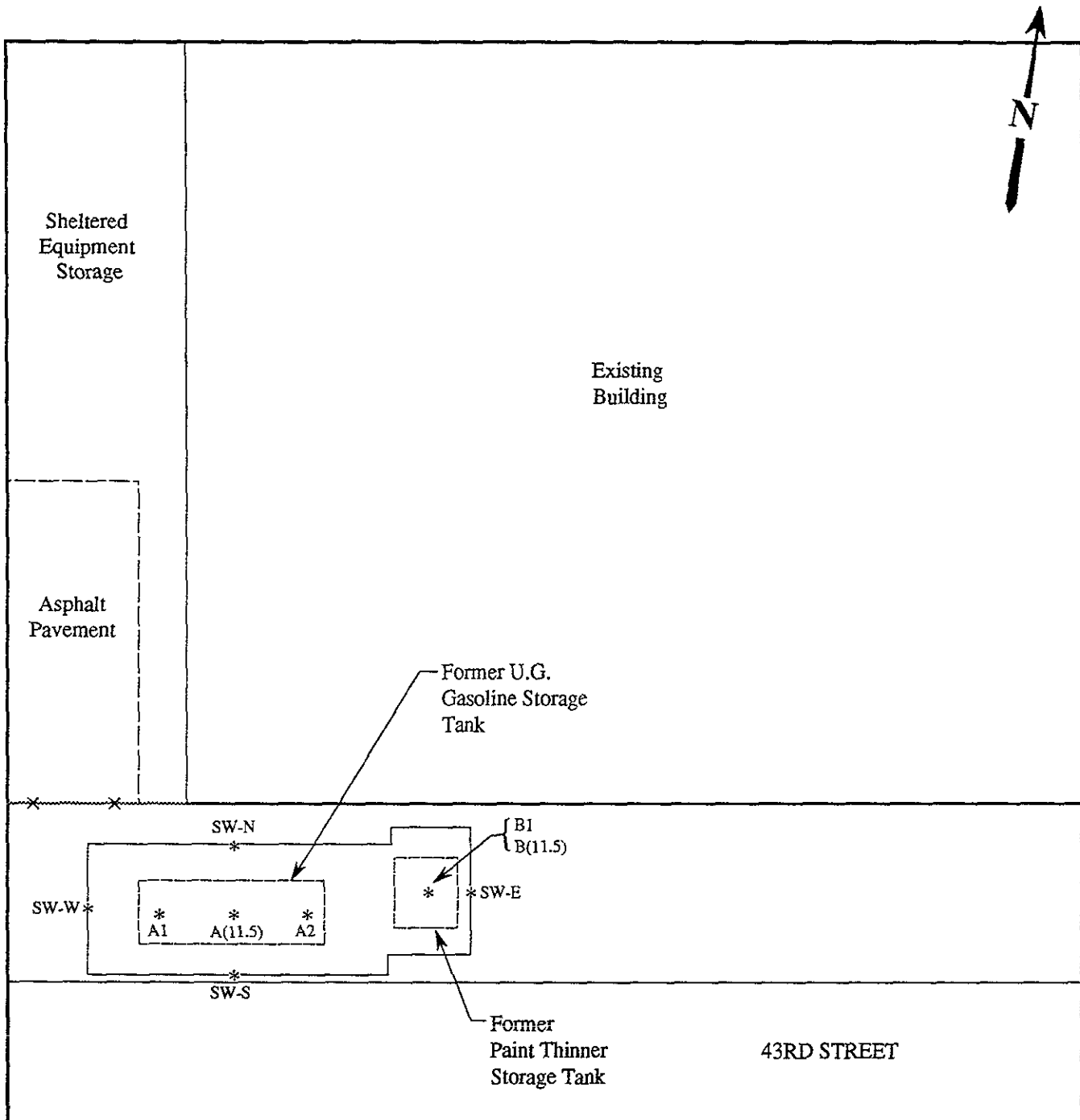


EXISTING AND PROPOSED MONITORING WELL LOCATION MAP



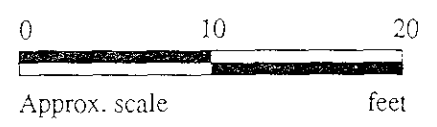
**WELLS FARGO BANK
(WALTER BLUMERT CO., INC.)
490 43RD STREET
OAKLAND, CALIFORNIA**

**FIGURE
6**

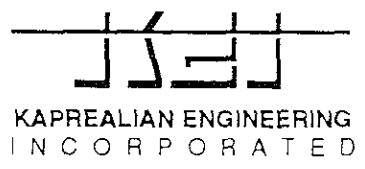


LEGEND

* Sample point location



SOIL SAMPLE POINT LOCATION MAP



WELLS FARGO BANK
 (WALTER BLUMERT CO, INC.)
 490 43RD STREET
 OAKLAND, CALIFORNIA

FIGURE
7

BORING LOG

Project No. KEI-P91-1201	Boring Diameter 8.5" Casing Diameter	Logged By JGG D.L. EG/633
Project Name Wells Fargo Bank 490 43rd Street, Oakland	Well Cover Elevation N/A	Date Drilled 6/1/94
Boring No. EB1	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		A.C. Pavement over sand and gravel base.
No blow counts. Samples pushed.		0.0	5	ML	Silt, estimated at 15-20% clay, and 10-15% gravel and sand, very stiff, moist, black (fill).
					Clayey silt, estimated at 10-15% sand and gravel, very stiff, moist, olive brown and very dark grayish brown, mottled, disturbed (fill).
					Gravelly silt, estimated at 25-40% gravel to 1 inch in diameter, and 5-15% clay, stiff to very stiff, moist, dark brown.
			10		Gravelly silt, as above, locally grades to sandy silt with gravel, grayish brown and dark brown, mottled.
			13	GM	Silty gravel with sand, trace clay, angular to rounded gravel to 1 1/2 inches in diameter, dense, moist, wet in voids, olive brown and dark greenish gray, mottled.
			15	ML	Clayey silt, trace fine grained sand, estimated at 30% clay, stiff to very stiff, moist, olive brown and dark greenish gray, mottled.
			288		TOTAL DEPTH: 16'
			20		

BORING LOG

Project No. KEI-P91-1201	Boring Diameter 8.5" Casing Diameter	Logged By JGG D.L. LEG 1633
Project Name Wells Fargo Bank 490 43rd Street, Oakland	Well Cover Elevation N/A	Date Drilled 6/1/94
Boring No. EB2	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G.W level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description	
			0		A.C. Pavement over sand and gravel base.	
No blow counts. Samples pushed.				ML	Clayey silt, trace gravel, stiff, moist, black.	
				GM	Silty gravel with sand, trace clay above 3 feet, dense, moist, dark brown (fill).	
			1.3	5	SM	Silty sand with gravel, estimated at 15-20% silt, medium dense, very moist, dark brown.
					CL	Silty clay, trace sand, stiff to very stiff, moist, dark olive gray and very dark gray, mottled.
				10	ML	Sandy silt, estimated at 5-15% variable clay content, sand is fine to coarse grained, very stiff, moist, dark greenish gray and olive brown, mottled.
		▽		319		Gravelly silt with sand, very stiff, very moist, dark greenish gray, olive and olive brown, mottled.
				326	SM	Silty sand, estimated at 5-10% clay, and 20-25% silt, medium dense, moist, dark greenish gray and olive gray, mottled.
				15	GM	Silty gravel with sand, estimated at 15% silt, trace clay, gravel to greater than 2 inches in diameter.
						TOTAL DEPTH: 16'
				20		



Kaprealan Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian	Client Project ID: Wells Fargo Bank, 490 43rd St, Oakland Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 406-0779	Sampled: Jun 16, 1994 Received: Jun 16, 1994 Reported: Jun 30, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 406-0779 MW1	Sample I.D. 406-0780 MW2	Sample I.D. 406-0781 MW3
Purgeable Hydrocarbons	50	700	15,000	6,500
Benzene	0.5	35	2,300	510
Toluene	0.5	6.8	100	39
Ethyl Benzene	0.5	8.7	290	87
Total Xylenes	0.5	10	110	47
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	4.0	50	10
Date Analyzed:	6/24/94	6/24/94	6/24/94
Instrument Identification:	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	124	109	106

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard
 Analytes reported as N.D. were not detected above the stated reporting limit

SEQUOIA ANALYTICAL, #1271


 Alan B. Kemp
 Project Manager





Kaprealian Engineering, Inc.	Client Project ID:	Wells Fargo Bank, 490 43rd St, Oakland	Sampled:	Jun 16, 1994
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received:	Jun 16, 1994
Concord, CA 94520	Analysis Method:	EPA 3510/3520/8015	Reported:	Jun 30, 1994
Attention: Avo Avedissian	First Sample #:	406-0779		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS PAINT THINNER

Analyte	Reporting Limit µg/L	Sample I.D. 406-0779 MW1	Sample I.D. 406-0780 MW2	Sample I.D. 406-0781 MW3
Extractable Hydrocarbons	50	430	3,600	4,900
Chromatogram Pattern:		Paint Thinner	Paint Thinner	Paint Thinner

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	10
Date Extracted:	6/17/94	6/17/94	6/17/94
Date Analyzed:	6/20/94	6/20/94	6/22/94
Instrument Identification:	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh paint thinner standard
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager





Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedissian

Client Project ID: Wells Fargo Bank, 490 43rd St, Oakland
Matrix: Liquid

QC Sample Group: 4060779-81

Reported: Jun 30, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Paint Thinner
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod.
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K. Wimer

MS/MSD					
Batch#:	4060796	4060796	4060796	4060796	BLK061794
Date Prepared:	6/24/94	6/24/94	6/24/94	6/24/94	6/17/94
Date Analyzed:	6/24/94	6/24/94	6/24/94	6/24/94	6/20/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike					
% Recovery:	105	100	100	100	89
Matrix Spike Duplicate %					
Recovery:	105	100	100	100	88
Relative % Difference:	0.0	0.0	0.0	0.0	1.1

LCS Batch#:	3LCS062494	3LCS062494	3LCS062494	3LCS062494	BLK061794
Date Prepared:	6/24/94	6/24/94	6/24/94	6/24/94	6/17/94
Date Analyzed:	6/24/94	6/24/94	6/24/94	6/24/94	6/20/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A
LCS % Recovery:	96	99	103	103	89

% Recovery Control Limits:	71-133	72-128	72-130	71-120	28-122
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Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager



CHAIN OF CUSTODY

SAMPLER <i>John Giddings</i>		SITE NAME & ADDRESS <i>Wells Fargo Bank 490 43rd. St. Oakland.</i>							ANALYSES REQUESTED				TURN AROUND TIME: <i>Regular</i>			
WITNESSING AGENCY									TPA-6	BIX	PAH	CELL	REMARKS			
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION								
MW1	6-16	11:00		✓			3		✓	✓	✓				4060779 AC	
MW2	"	11:15		✓			3		✓	✓	✓				4060780	
MW3	"	10:45		✓			3		✓	✓	✓				4060781 ↓	
Relinquished by: (Signature) <i>John Giddings</i>		Date/Time <i>6/16 13:45</i>		Received by: (Signature) <i>Charles</i>		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <u>Yes</u> 2. Will samples remain refrigerated until analyzed? <u>Yes</u> 3. Did any samples received for analysis have head space? <u>No</u> 4. Were samples in appropriate containers and properly packaged? <u>Yes</u> Signature: <u>CCJ</u> Title: <u>F.T.</u> Date: <u>6-16-94</u>										
Relinquished by: (Signature) <i>Charles</i>		Date/Time <i>6-16-94/2:15</i>		Received by: (Signature) <i>Melissa Cunniff</i>												
Relinquished by: (Signature)		Date/Time		Received by: (Signature)												
Relinquished by: (Signature)		Date/Time		Received by: (Signature)												



Kaprealian Engineering, Inc. Client Project ID: Wells Fargo, 490 43rd Street, Oakland Sampled: Jun 1, 1994
2401 Stanwell Dr., Ste. 400 Sample Matrix: Soil Received: Jun 2, 1994
Concord, CA 94520 Analysis Method: EPA 5030/8015/8020 Reported: Jun 16, 1994
Attention: Avo Avedissian First Sample #: 406-0226

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Table with 8 columns: Analyte, Reporting Limit mg/kg, Sample I.D., Sample I.D., Sample I.D., Sample I.D., Sample I.D., Sample I.D. Rows include Purgeable Hydrocarbons, Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

Chromatogram Pattern: -- -- -- -- Gasoline and Unidentified Hydrocarbons >C8 Gasoline and Unidentified Hydrocarbons >C8

Quality Control Data

Table with 8 columns for quality control data: Report Limit Multiplication Factor, Date Analyzed, Instrument Identification, Surrogate Recovery, % (QC Limits = 70-130%).

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N D were not detected above the stated reporting limit

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp Project Manager

Please Note * This sample appears to contain gasoline and non-gasoline mixtures "Unidentified Hydrocarbons >C8" refers to unidentified peaks in the total extractable petroleum hydrocarbons range



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689
 819 Strker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Kaprealian Engineering, Inc. Client Project ID: Wells Fargo, 490 43rd Street, Oakland Sampled: Jun 1, 1994
 2401 Stanwell Dr., Ste. 400 Sample Matrix: Soil Received: Jun 2, 1994
 Concord, CA 94520 Analysis Method: EPA 3550/8015 Reported: Jun 16, 1994
 Attention: Avo Avedissian First Sample #: 406-0226

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS PAINT THINNER

Analyte	Reporting Limit mg/kg	Sample I.D. 406-0226 EB1(5)	Sample I.D. 406-0227 EB1(10)	Sample I.D. 406-0228 EB1(11.5)	Sample I.D. 406-0229 EB2(5)	Sample I.D. 406-0230 EB2(10)	Sample I.D. 406-0231 EB2(12)
Extractable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	28	45
Chromatogram Pattern:		--	--	--	--	Paint Thinner	Paint Thinner

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	6/9/94	6/9/94	6/9/94	6/9/94	6/9/94	6/9/94
Date Analyzed:	6/10/94	6/10/94	6/10/94	6/10/94	6/10/94	6/10/94
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh paint thinner standard
 Analytes reported as N.D. were not detected above the stated reporting limit

SEQUOIA ANALYTICAL, #1271


 Alan B. Kemp
 Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Kaprealian Engineering, Inc.
 2401 Stanwell Dr., Ste. 400
 Concord, CA 94520
 Attention: Avo Avedissian

Client Project ID: Wells Fargo, 490 43rd Street, Oakland
 Matrix: Solid

QC Sample Group: 4060226-31

Reported: Jun 16, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod.
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K. Wimer

MS/MSD Batch#:	4060228	4060228	4060228	4060228	4060230
Date Prepared:	6/13/94	6/13/94	6/13/94	6/13/94	6/9/94
Date Analyzed:	6/13/94	6/13/94	6/13/94	6/13/94	6/14/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg
Matrix Spike % Recovery:	83	88	85	94	1,668
Matrix Spike Duplicate % Recovery:	80	83	83	84	1,692
Relative % Difference:	3.7	5.8	2.4	11	1.4

LCS Batch#:	2LCS061394	2LCS061394	2LCS061394	2LCS061394	BLK060994
Date Prepared:	6/13/94	6/13/94	6/13/94	6/13/94	6/9/94
Date Analyzed:	6/13/94	6/13/94	6/13/94	6/13/94	6/13/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
LCS % Recovery:	89	91	92	93	95

% Recovery Control Limits:	55-145	47-149	47-155	56-140	38-122
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SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
 Project Manager

Please Note.

The LCS is a control sample of known interferent free matrix that is analyzed using the same reagents preparation and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



CHAIN OF CUSTODY

SAMPLER		SITE NAME & ADDRESS							ANALYSES REQUESTED					TURN AROUND TIME:		
WITNESSING AGENCY		WELLS FARGO / OAKLAND 490 43RD ST.							TPH-S	STEX	TOX BS	CRANT THINER				REGULAR
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-S	STEX	TOX BS	CRANT THINER			REMARKS	
EB1(S)	6/1/94		X		X		1	SEE SAMPLE ID NO.	X	X	X				4060226	
EB1(10)															4060227	
EB1(11.5)															4060228	
EB2(S)															4060229	
EB2(10)															4060230	
EB2(12)															4060231	
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? 2. Will samples remain refrigerated until analyzed? 3. Did any samples received for analysis have head space? 4. Were samples in appropriate containers and properly packaged?											
Relinquished by: (Signature)		Date/Time	Received by: (Signature)													
Relinquished by: (Signature)		Date/Time	Received by: (Signature)													
Relinquished by: (Signature)		Date/Time	Received by: (Signature)													



Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian	Client Project ID: Wells Fargo, 490 43rd St., Oakland Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 406-0088	Sampled: Jun 1, 1994 Received: Jun 2, 1994 Reported: Jun 16, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 406-0088 EB1	Sample I.D. 406-0089 EB2
Purgeable Hydrocarbons	50	3,400	9,200
Benzene	0.5	26	990
Toluene	0.5	6.7	29
Ethyl Benzene	0.5	5.9	280
Total Xylenes	0.5	8.5	130
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	5.0	50
Date Analyzed:	6/13/94	6/11/94
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	70	87

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard
Analytes reported as N D were not detected above the stated reporting limit

SEQUOIA ANALYTICAL, #1271



Alan B. Kemp
Project Manager





Kaprealian Engineering, Inc.	Client Project ID: Wells Fargo, 490 43rd St., Oakland	Sampled: Jun 1, 1994
2401 Stanwell Dr., Ste. 400	Sample Matrix: Water	Received: Jun 2, 1994
Concord, CA 94520	Analysis Method: EPA 3510/3520/8015	Reported: Jun 16, 1994
Attention: Avo Avedissian	First Sample #: 406-0088	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS PAINT THINNER

Analyte	Reporting Limit µg/L	Sample I.D. 406-0088 EB1	Sample I.D. 406-0089 EB2
Extractable Hydrocarbons	50	7,000	3,700
Chromatogram Pattern:		Paint Thinner	Paint Thinner

Quality Control Data

Report Limit Multiplication Factor:	10	10
Date Extracted:	6/3/94	6/3/94
Date Analyzed:	6/10/94	6/10/94
Instrument Identification:	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh paint thinner standard
Analytes reported as N D were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager





Kaprealian Engineering, Inc.
 2401 Stanwell Dr., Ste. 400
 Concord, CA 94520
 Attention: Avo Avedissian

Client Project ID: Wells Fargo, 490 43rd St., Oakland
 Matrix: Liquid

QC Sample Group: 4060088-89

Reported: Jun 16, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod.
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K. Wimer

MS/MSD Batch#:	4060015	4060015	4060015	4060015	BLK060394
Date Prepared:	6/10/94	6/10/94	6/10/94	6/10/94	6/3/94
Date Analyzed:	6/10/94	6/10/94	6/10/94	6/10/94	6/6/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	95	95	95	98	81
Matrix Spike Duplicate % Recovery:	95	95	95	97	82
Relative % Difference:	0.0	0.0	0.0	1.0	0.40

LCS Batch#:	2LCS061194	2LCS061194	2LCS061194	2LCS061194	BLK060394
Date Prepared:	6/11/94	6/11/94	6/11/94	6/11/94	6/3/94
Date Analyzed:	6/11/94	6/11/94	6/11/94	6/11/94	6/6/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B
LCS % Recovery:	93	93	93	94	81

% Recovery Control Limits:	71-133	72-128	72-130	71-120	28-122
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Please Note:
 The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL. #1271

Alan B. Kemp
 Project Manager





Kaprealian Engineering, Inc.
 2401 Stanwell Dr., Ste. 400
 Concord, CA 94520
 Attention: Avo Avedissian

Client Project ID: Wells Fargo, 490 43rd St., Oakland
 Matrix: Liquid

QC Sample Group: 4060088-89

Reported: Jun 16, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha

MS/MSD

Batch#: 4060090 4060090 4060090 4060090

Date Prepared: 6/13/94 6/13/94 6/13/94 6/13/94

Date Analyzed: 6/13/94 6/13/94 6/13/94 6/13/94

Instrument I.D.#: HP-4 HP-4 HP-4 HP-4

Conc. Spiked: 20 µg/L 20 µg/L 20 µg/L 60 µg/L

Matrix Spike

% Recovery: 95 90 90 92

Matrix Spike Duplicate %

Recovery: 95 90 90 93

Relative %

Difference: 0.0 0.0 0.0 1.1

LCS Batch#: 2LCS061394 2LCS061394 2LCS061394 2LCS061394

Date Prepared: 6/13/94 6/13/94 6/13/94 6/13/94

Date Analyzed: 6/13/94 6/13/94 6/13/94 6/13/94

Instrument I.D.#: HP-4 HP-4 HP-4 HP-4

LCS %

Recovery: 89 91 92 93

% Recovery				
Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
 Project Manager

Please Note:
 The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



CHAIN OF CUSTODY

SAMPLER		SITE NAME & ADDRESS							ANALYSES REQUESTED					TURN AROUND TIME:			
WITNESSING AGENCY		WELLS FARGO / OAKLAND 490 4300 ST.							D-TOL	G-TEX	POLYAS	PAIN-TAINER					REGULAR
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION									REMARKS
EB1	6/1/94			X	X		3		X	X	X						4060088 AC
EB2	"			X	X		3		X	X	X						4060089 ↓
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <u>YES</u> 2. Will samples remain refrigerated until analyzed? <u>YES</u> 3. Did any samples received for analysis have head space? <u>NO</u> 4. Were samples in appropriate containers and properly packaged? <u>YES</u> P. J. Kelly Signature <u>Sample Control</u> Title <u>6/2/94</u> Date												
Relinquished by: (Signature)		Date/Time	Received by: (Signature)														
Relinquished by: (Signature)		Date/Time	Received by: (Signature)														
Relinquished by: (Signature)		Date/Time	Received by: (Signature)														



Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian	Client Project ID: Wells Fargo, 490 43rd St., Oakland Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 406-0088	Sampled: Jun 1, 1994 Received: Jun 2, 1994 Reported: Jun 16, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

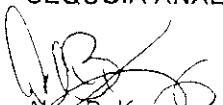
Analyte	Reporting Limit µg/L	Sample I.D. 406-0088 EB1	Sample I.D. 406-0089 EB2
Purgeable Hydrocarbons	50	3,400	9,200
Benzene	0.5	26	990
Toluene	0.5	6.7	29
Ethyl Benzene	0.5	5.9	280
Total Xylenes	0.5	8.5	130
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	5.0	50
Date Analyzed:	6/13/94	6/11/94
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	70	87

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager

