

September 30, 2004

R02514 ✓

REPORT
of
SOIL AND GROUNDWATER ASSESSMENT
ASE JOB NO. 3928
at
Kim Property
925-949 West Grand Avenue
Oakland, California

Submitted by:
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1.0 INTRODUCTION

This submittal presents Aqua Science Engineers, Inc. (ASE's) report for a soil and groundwater assessment at 925-949 West Grand Avenue in Oakland, California (Figure 1). The proposed site assessment activities were initiated by Mr. Chong Kim, the new owner of the property, as required by the Alameda County Health Care Services Agency (ACHCSA). The site assessment activities were designed to further define the extent of soil and groundwater contamination at the site related to volatile organic compounds (VOCs), assumed to be related to the previous dry cleaning operations at the site, and petroleum hydrocarbons, which has an unknown source at this time.

2.0 BRIEF SITE HISTORY AND BACKGROUND INFORMATION

The site is located in a mixed commercial/residential area of Oakland, on the southwest corner of the intersection of West Grand Avenue and Market Street.

2.1 June 2000 Phase I Environmental Assessment

According to a Phase I Environmental Site Assessment prepared by AEI Consultants in June 2000, the site contained a dry cleaning operation at 941 West Grand Avenue. The dry cleaner operated at the site for approximately 10 years and was issued a violation for the improper disposal of waste in 1986.

The site was also previously occupied by Foster & Kleiser Company and previously contained an auto and truck storage area, an auto repair area, gas, oil and paint storage areas, dip painting areas, advertising sign painting area, and a warehouse.

The report also noted an adjacent property (905 West Grand Avenue) that previously contained three underground fuel storage tanks (USTs). Although case closure has been granted by the ACHCSA for 905 West Grand Avenue, AEI suggested that the fuel release at 905 West Grand Avenue likely had impacted the site based on the proximity of the 905 West Grand Avenue property to the site and the groundwater flow direction.

AEI recommended a soil and groundwater assessment for the site and a magnetometer survey to locate any potential USTs that may have been present beneath the site.

2.2 March 2002 Phase II Subsurface Investigation

In March 2002, AEI Consultants drilled five soil borings at the site. Three borings were drilled in suspected locations of previous gas and oil storage, and two borings were drilled in the former dry cleaning area (Figure 2).

No significant petroleum hydrocarbon concentrations were detected in soil samples collected in areas of suspected gas and oil storage. Groundwater samples collected from these borings contained up to 460 parts per billion (ppb) total petroleum hydrocarbons as gasoline (TPH-G) and 380 ppb total petroleum hydrocarbons as diesel (TPH-D). Only relatively low concentrations of ethylbenzene and total xylenes (0.73 ppb ethylbenzene and 1.3 ppb total xylenes) were detected in one of the three borings. No benzene, toluene, or methyl tertiary butyl ether (MTBE) were detected in any of the groundwater samples collected from these borings.

Both soil and groundwater samples collected from the borings drilled in the former dry cleaning area contained significant concentrations of petroleum hydrocarbons and VOCs. Soil samples collected from 8-feet below ground surface (bgs) contained up to 2.5 parts per million (ppm) TPH-G, 0.017 ppm benzene, 0.21 ppm toluene, 0.12 ppm ethylbenzene, 0.011 ppm xylenes, 0.0051 ppm trichloroethene (TCE), 0.022 ppm tetrachloroethene (PCE), 0.14 ppm cis-1,2-dichloroethane (cis-1,2-DCE) and 0.012 ppb vinyl chloride. Groundwater samples collected from these borings contained 140,000 ppb TPH-G, 810 ppb benzene, 1,900 ppb toluene, 470 ppb ethylbenzene, 14,000 ppb total xylenes, 550 ppb cis-1,2-DCE and 60 ppb vinyl chloride.

2.3 May 2003 Soil and Groundwater Investigation

In May 2003, Eras Environmental drilled five soil borings (A through E) at the site (Figure 2). Borings A through D were located downgradient of the former dry cleaning area. Boring E was located between the dry cleaner and the former gasoline station at 905 West Grand Avenue. Only very low hydrocarbon concentrations of up to 10 ppm TPH-G and 0.2 ppm TPH-G were detected in soil samples collected between 10.5 and 11.5-feet bgs in borings A and E, respectively. No hydrocarbons were detected in soil samples collected from any of the remaining borings. No VOCs or MTBE were detected in soil samples collected from any of the borings. Groundwater samples collected from boring E contained 4,300 ppb TPH-G and 190 ppb n-propylbenzene. No MTBE was detected in groundwater

samples collected from this boring. TPH-G was also detected in groundwater samples collected from boring A at 100 ppb. No TPH-G was detected in groundwater samples collected from the remaining borings. Groundwater samples collected from borings A through D also contained up to 35 ppb MTBE, 1.6 ppb TCE, 5.0 ppb cis-1,2-DCE and 1.6 ppb vinyl chloride.

3.0 SCOPE OF WORK (SOW)

ASE has prepared the following scope of work (SOW) to define the extent of elevated hydrocarbon concentrations on and surrounding the site.

- 1) Prepare a workplan for approval by the ACHCSA.
- 2) Obtain a drilling permit from the Alameda County Public Works Agency (ACPWA). Obtain excavation and encroachment permits from the City of Oakland.
- 3) Drill three (3) soil borings to 25-foot bgs at the site for the installation of groundwater monitoring wells.
- 4) Analyze one soil sample collected from each soil boring at a CA-DHS certified environmental laboratory for TPH-G, benzene, toluene, ethyl benzene and total xylenes (collectively known as BTEX), five oxygenates (including MTBE), and halogenated volatile organic compounds (HVOCs) by EPA Method 8260, and TPH-D by EPA Method 8015.
- 5) Install 2-inch diameter groundwater monitoring wells in each boring described in task 3.
- 6) Develop the monitoring wells.
- 7) Collect groundwater samples from each monitoring well for analyses.
- 8) Analyze the groundwater samples at a CA-DHS certified analytical laboratory for TPH-G, BTEX, five oxygenates (including MTBE), and HVOCs by EPA Method 8260, and TPH-D by EPA Method 8015.
- 9) Survey the top of casing elevation of each well, and determine the groundwater flow direction and gradient beneath the site.

- 10) Drill additional soil borings at the site to further define the extent of soil and groundwater contamination. Three borings will be located in pre-determined locations. Additional borings, if needed, will be located based on the groundwater flow direction.
- 11) Analyze one soil and one groundwater sample from each boring at a CA-DHS certified analytical laboratory for TPH-G, BTEX, five oxygenates (including MTBE), and HVOCs by EPA Method 8260, and TPH-D by EPA Method 8015.
- 12) Backfill borings with neat cement following the collection of the soil and groundwater samples.
- 13) Prepare a report detailing the methods and findings of this assessment.

4.0 DRILL SOIL BORINGS FOR THE COLLECTION OF SOIL AND GROUNDWATER SAMPLES

4.1 Permits

Prior to drilling, ASE obtained drilling permits from the Alameda County Public Works Agency (ACPWA). ASE also obtained an excavation permit to allow for the drilling of soil borings in the City of Oakland's right of way. Copies of these permits are presented in Appendix A. ASE also notified Underground Service Alert (USA) to have underground public utilities in the vicinity of the site marked prior to drilling.

4.2 Drill Soil Borings and Collect Soil and Groundwater Samples

On August 9, 2004, Vironex, Inc. of San Leandro, California drilled soil borings SB-F, SB-G and SB-H using a Geoprobe direct-push hydraulic sampling rig. Boring locations are presented in Figure 2.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The soil samples were collected by driving a Macro-Core sampler lined with acetate tubes into the ground using hydraulic direct push methods. Selected soil samples were cut, trimmed, sealed with Teflon squares and plastic end caps, labeled, and chilled in an ice chest with wet ice for transport to Kiff Analytical, LLC of Davis, California (CA DHS ELAP #2236) under appropriate chain of custody documentation. Soil from the remaining tubes was described by the site geologist using

the Unified Soil Classification System (USCS) and was screened for VOCs using a photoionization detector (PID). The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the VOCs were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are listed on the boring logs presented in Appendix B.

4.3 Collect Groundwater Samples from the Borings

Groundwater samples were collected from the borings using factory-cleaned, unused polyethylene bailers. The groundwater samples were decanted into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and stored in an ice chest with wet ice for transport to Kiff Analytical under chain of custody.

4.4 Equipment Decontamination and Boring Backfilling

Drilling equipment was cleaned with an Alconox solution between sampling intervals and between borings to prevent potential cross-contamination. Following collection of the soil and groundwater samples, each boring was backfilled with neat cement to the ground surface.

5.0 INSTALL GROUNDWATER MONITORING WELLS

5.1 Permits

Prior to drilling ASE obtained drilling permits from the ACPWA. ASE also obtained encroachment and excavation permits to allow for the installation of monitoring wells in the City of Oakland's right of way. Copies of these permits are presented in Appendix A.

5.2 Drill Three Soil Borings for the Installation of Groundwater Monitoring Wells

On August 9, 2004, Vironex, Inc. of San Leandro, California drilled soil borings MW-1 through MW-3 at the site using a drill rig equipped with 8-inch diameter hollow-stem augers. MW-1 was placed in Myrtle Street to the south to assist in the calculation of the ground water flow direction and gradient for the site, as well as for defining the extent of

contamination to the south. MW-2 was drilled adjacent to the location of the former dry cleaner. MW-3 was placed between the former dry cleaner and the former gas station at 905 West Grand Avenue. The well locations are shown on Figure 2. The drilling was directed by ASE associate geologist Damian Hriciga.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The samples were collected by driving a Macro-Core sampler lined with acetate tubes using hydraulic direct-push. Selective soil samples were immediately cut, trimmed, sealed with Teflon squares and plastic end caps, labeled, and stored in an ice chest with wet ice for transport to Kiff Analytical, LLC under chain of custody. Soil from the remaining tubes was described by the site geologist using the USCS and was screened for VOCs using a PID. The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile compounds were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are listed on the boring logs presented in Appendix B.

Drilling equipment was cleaned with an Alconox solution between sampling intervals to prevent potential cross-contamination.

5.3 Monitoring Well Construction

All three monitoring wells were constructed in the borings with 2-inch diameter, 0.020-inch slotted, flush-threaded, Schedule 40 PVC well screen and blank casing. All three monitoring wells are constructed to monitor the first water bearing zone encountered. Monitoring well MW-1 is screened between 5-feet bgs and 20-feet bgs. Monitoring well MW-2 is screened between 6.5-feet bgs and 15-feet bgs. Monitoring well MW-3 is screened between 5.5-feet bgs and 20.5-feet bgs. Number 3 washed Monterey sand occupies the annular space between the borehole and the casing from the bottom of the boring to approximately 1-foot above the well screen. A 0.5-foot thick hydrated bentonite layer separates the sand from the overlying cement surface seal. The cement surface seal consists of neat Portland cement. The wellheads are secured with locking wellplugs beneath at-grade traffic-rated well boxes. Well construction details are shown on the boring logs in Appendix B.

5.4 Monitoring Well Development

On September 8, 2004, ASE associate geologist Damian Hriciga developed all three monitoring wells using two episodes of surge-block agitation and submersible pump evacuation. Over ten well casing volumes of water were removed from the wells during development. Evacuation continued until the water removed from the wells was relatively clear. Well development purge water was contained in sealed and labeled 55-gallon steel drums and left on-site for temporary storage until off-site disposal could be arranged. No free-floating hydrocarbons or sheen were present on the surface of groundwater during well development.

5.5 Monitoring Well Sampling

On September 14, 2004, ASE associate geologist Damian Hriciga collected groundwater samples from all three monitoring wells for analysis. No free-floating hydrocarbons or sheen were present on the surface of groundwater in any of the monitoring wells.

Prior to sampling, each well was purged of four well casing volumes of groundwater. The pH, temperature, and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Groundwater samples were removed from the monitoring wells with factory-cleaned, unused polyethylene bailers. The groundwater samples were contained in 40-ml VOA vials, preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and stored in an ice chest with wet ice for transport to Kiff Analytical under chain of custody. Well sampling purge water was contained in sealed and labeled 55-gallon steel drums and left on-site for temporary storage until off-site disposal could be arranged. The well sampling field logs are presented in Appendix C.

6.0 LITHOLOGY AND HYDROGEOLOGY

Sediments encountered beneath the site generally consisted of silty clay from the ground surface to approximately 12-feet bgs, silty sand, sandy silt or clayey gravel from approximately 12-feet bgs to approximately 20-feet bgs, and silty clay from approximately 20-feet bgs to the total depth explored of 25-feet bgs. Groundwater was encountered at approximately 12-feet bgs, and subsequently rose to approximately 10-feet bgs indicating that groundwater is under hydraulic head. Boring logs are presented in Appendix B.

7.0 SURVEY AND GROUNDWATER ELEVATIONS

On September 23, 2004, Mid Coast Engineers of Watsonville, California surveyed the top of casing elevation of each monitoring well and the ground surface elevation of each boring and monitoring well relative to mean sea level (msl). Longitude and latitude coordinates were determined from the California Coordinate System, Zone 3, NAD 83 Datum. A copy of the survey is included as Appendix D.

On September 14, 2004, ASE measured the depth to groundwater in each monitoring well prior to purging and sampling. Depth to groundwater measurements are presented in Table One. A groundwater elevation (potentiometric surface) contour map is presented as Figure 3. The groundwater appeared to flow to the southwest beneath the site at a gradient of 0.0043-feet/foot.

8.0 ANALYTICAL RESULTS FOR SOIL AND GROUNDWATER

8.1 Soil Sample Analysis

The soil samples collected from 14-foot bgs in boring MW-1, 9.5-foot bgs in borings MW-2, SB-F and SB-G, and 14.5-foot bgs in borings MW-3 and SB-H were analyzed by Kiff Analytical for TPH-G, BTEX, oxygenates and HVOCs by EPA Method 8260B, and TPH-D by EPA Method 8015. The analytical results are tabulated in Table Two, and certified analytical report and chain of custody are presented in Appendix E.

The only soil sample that contained concentrations of any of the compounds analyzed was MW-2 at 9.5-foot bgs. This sample contained 1,000 ppm TPH-G, 430 ppm TPH-D, 0.71 ppm benzene, 0.091 ppm toluene, 15 ppm ethylbenzene, and 45 ppm total xylenes. All of these concentrations exceeded California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) environmental screening levels (ESLs) for shallow soil. The ESLs are presented in the "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document dated July 2003. This sample also contained 0.027 ppm cis-1,2-DCE, which was below the ESL. None of the other samples analyzed contained detectable concentrations of TPH-G, TPH-D, BTEX, oxygenates or HVOCs.

8.2 Groundwater Sample Analysis

The groundwater samples collected from borings SB-F through SB-H and monitoring wells MW-1 through MW-3 were analyzed by Kiff Analytical for TPH-G, BTEX, oxygenates and HVOCs by EPA Method 8260B, and TPH-D by EPA Method 8015. The analytical results are tabulated in Table Three, and certified analytical report and chain of custody are presented in Appendix E.

The highest TPH-D, MTBE and HVOC concentrations were detected in groundwater samples collected from boring SB-G, which is located in the upgradient corner of the site. This suggests that these compounds may be related to an upgradient, off-site source. A significant concentration of TPH-G of 1,200 ppb was also detected in groundwater samples collected from upgradient boring SB-G. The highest TPH-G and BTEX concentrations were detected in groundwater samples collected from monitoring well MW-2, which is immediately downgradient of the former dry cleaning operation at the site. Concentrations of TPH-G, benzene, ethylbenzene and total xylenes all exceeded ESLs for drinking water in this monitoring well. Only the benzene concentration exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water. Boring SB-F, located down/crossgradient of monitoring well MW-2, contained 5,000 ppb TPH-G, 2.1 ppb benzene and 16 ppb MTBE. No HVOCs were detected in the groundwater samples collected from monitoring well MW-2, located adjacent and downgradient of the former dry cleaner, which suggests that any residual low HVOC concentrations that were previously detected in this area have degraded to non-detectable.

9.0 CONCLUSIONS

The soil sample collected from 9.5-foot bgs in MW-2 contained 1,000 ppm TPH-G, 430 ppm TPH-D, 0.71 ppm benzene, 0.091 ppm toluene, 15 ppm ethylbenzene, and 45 ppm total xylenes. None of the other soil samples analyzed contained detectable concentrations of TPH-G, TPH-D, BTEX, oxygenates or HVOCs.

The highest TPH-D, MTBE and HVOC concentrations were detected in groundwater samples collected from boring SB-G, which is located in the upgradient corner of the site. This suggests that these compounds may be related to an upgradient, off-site source. Groundwater samples collected from upgradient boring SB-G also contained 1,200 ppb TPH-G, suggesting

that some of the TPH-G detected at the site may be related to an upgradient, off-site source.

The highest TPH-G and BTEX concentrations were detected in groundwater samples collected from monitoring well MW-2, which is immediately downgradient of the former dry cleaning operation at the site. Since TPH-G and BTEX concentrations were also detected in soil at this location, it does appear that a source of gasoline was located in this area of the property. The exact source of the gasoline is not known since gasoline would not be expected at a dry cleaning operation (other than an extremely old dry cleaning operation). Concentrations of TPH-G, benzene, ethylbenzene and total xylenes all exceeded ESLs for drinking water in this monitoring well. Only the benzene concentration, however, exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water.

The downgradient and crossgradient extent of hydrocarbons at the site are not yet defined with boring SB-F located crossgradient of MW-2 containing 5,000 ppb TPH-G, 2.1 ppb benzene and 16 ppb MTBE. Some of these concentrations may, however, be related to an off-site, upgradient source.

No HVOCs were detected in the groundwater samples collected from monitoring well MW-2, located adjacent and downgradient of the former dry cleaner, which suggests that residual low HVOC concentrations that were previously detected in this area have degraded to non-detectable.

10.0 RECOMENDATIONS

Although it appears that the TPH-D and HVOC concentrations are related to an upgradient, off-site source, it is likely that the ACHCSA will require additional monitoring and/or investigation to confirm that these compounds are indeed related to an off-site source. In addition, although the TPH-G and BTEX concentrations are not extremely high, the ACHCSA will likely require quarterly groundwater monitoring to confirm a decreasing trend in hydrocarbon concentrations prior to issuing a case closure letter. It is not certain, given the hydrocarbon and VOC concentrations detected, that soil and groundwater remediation will be required. Regardless of whether remediation may be required, ASE recommends that a human health risk assessment be performed prior to any future redevelopment at the property.

11.0 REPORT LIMITATIONS

The results presented in this report represent conditions at the time of the soil and groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

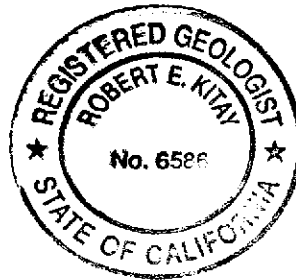
Should you have any questions or comments, please call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

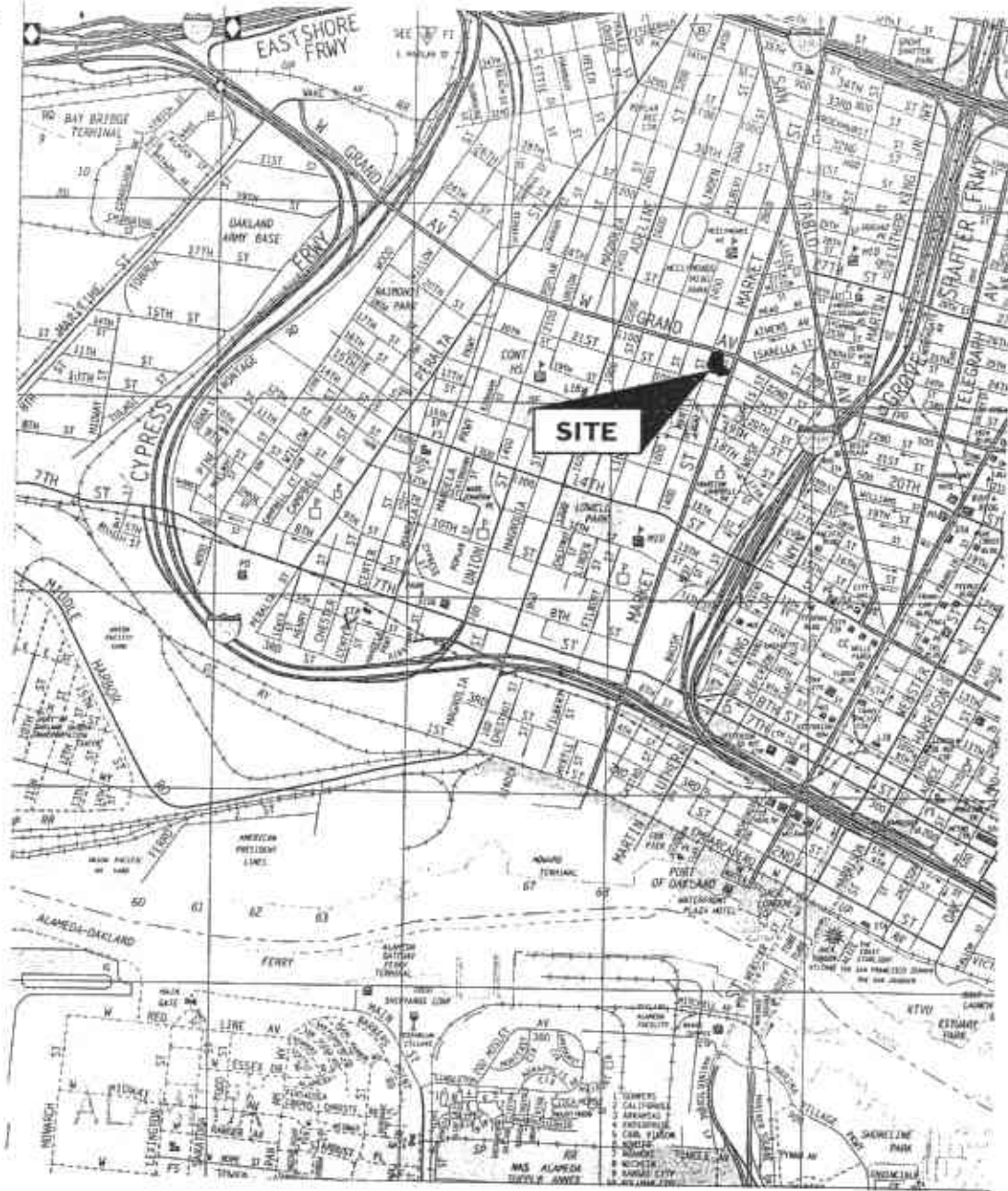


Robert E. Kitay, R.G., R.E.A.
Senior Geologist





NORTH



SITE LOCATION MAP

KIM PROPERTY
925-949 West Grand Avenue
Oakland, California

AQUA SCIENCE ENGINEERS, INC. Figure 1

WEST GRAND AVENUE

MARKET STREET

905 WEST GRAND AVENUE

FOOD SUPPLY

RESIDENTIAL

MYRTLE STREET

SB-G

SB-F

MW-2

SB-4

UNIT 941

SB-5

MW-3

E

C

A

D

B

MW-1

FORMER DIP PAINT AREA

SB-H

SUBJECT PROPERTY BUILDING

SUSPECTED LOCATION OF GAS AND OIL STORAGE

SB-3

SB-2

SB-1

LOADING DOCK

21ST STREET

BASE MAP:
ERAS ENVIRONMENTAL "LIMITED" SOIL AND GROUNDWATER
INVESTIGATION," 5/27/2003, FIGURE 2
AND AEI CONSULTANTS' "PHASE II SUBSURFACE
INVESTIGATION," 3/21/2002, FIGURE 2

LEGEND

B ● Previous Soil Boring

SB-F ○ Soil Boring Drilled for this Assessment

MW-1 ⊕ Monitoring Well



NORTH

SCALE
1 INCH = 50 FEET

MONITORING WELL AND SOIL BORING LOCATION MAP

KIM PROPERTY
925-949 West Grand Avenue
Oakland, California

AQUA SCIENCE ENGINEERS, INC. Figure 2

WEST GRAND AVENUE

MARKET STREET

905 WEST GRAND AVENUE

FOOD SUPPLY

RESIDENTIAL

MYRTLE STREET

SB-G

SB-F

MW-2
(4.66')

SB-4

UNIT 941

SB-5

MW-3
(5.09')

5.0'

Estimated
Groundwater Flow
Direction

C

A

D

B

MW-1
(4.33')

FORMER DIP
PAINT AREA

4.5'

SB-H

SUSPECTED LOCATION
OF GAS AND OIL STORAGE

SB-3

SB-2

SB-1



SUBJECT PROPERTY
BUILDING

LOADING
DOCK

21ST STREET

BASE MAP:
ERAS ENVIRONMENTAL "LIMITED SOIL AND GROUNDWATER
INVESTIGATION," 5/27/2003, FIGURE 2
AND AEI CONSULTANTS "PHASE II SUBSURFACE
INVESTIGATION," 3/21/2002, FIGURE 2

LEGEND

- B ● Previous Soil Boring
- SB-F ○ Soil Boring Drilled for this Assessment
- MW-1 (4.33')  Monitoring Well with Groundwater Elevation
-  Groundwater Elevation Contour



NORTH

SCALE
1 INCH = 50 FEET

GROUNDWATER ELEVATION
CONTOUR MAP - 9/14/04

KIM PROPERTY
925-949 West Grand Avenue
Oakland, California

AQUA SCIENCE ENGINEERS, INC. Figure 3

TABLE ONE

Groundwater Elevation Data
925-949 West Grand Avenue, San Jose, CA

Well ID	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Groundwater Elevation (msl)
MW-1	9/14/04	15.12	10.79	4.33
MW-2	9/14/04	14.42	9.76	4.66
MW-3	9/14/04	15.20	10.11	5.09

TABLE TWO
 Summary of Analytical Results of SOIL Samples
 Petroleum Hydrocarbons and Volatile Organic Compounds (VOCs) by EPA Method 8260B
 925-949 West Grand Avenue, Oakland, California
 Results are in parts per million (ppm)

Well/ Boring	Sample Depth	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	1,2- DCA	cis-1,2- DCE	trans-1,2- DCE	TCE	Vinyl Chloride	Other VOCs
MW-1	14.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 - <0.02
MW-2	9.5	1,000	430	0.73	0.091	15	45	<0.025	<0.025	0.027	<0.025	<0.025	<0.025	<0.025 - <0.04
MW-3	14.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 - <0.02
SB-F	9.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 - <0.02
SB-G	9.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 - <0.02
SB-H	14.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 - <0.02
ESL		100	100	0.044	2.9	3.3	15	0.023	0.0045	0.19	0.67	0.46	0.019	NA

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Concentrations in **BOLD** exceed ESLs

ESL = Environmental Screening Levels presented in the "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated July 2003.

TCE - trichloroethene

MTBE - methyl tertiary butyl ether

DCE - dichloroethene

DCA - dichloroethane

TPH - total petroleum hydrocarbons

TABLE THREE
 Summary of Analytical Results of WATER Samples
 Petroleum Hydrocarbons and Volatile Organic Compounds (VOCs) by EPA Method 8260B
 925-949 West Grand Avenue, Oakland, California
 Results are in parts per billion (ppb)

Well/ Boring	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	1,2- DCA	cis-1,2- DCE	trans-1,2- DCE	TCE	Vinyl Chloride	Other VOCs
MW-1	< 50	150	< 0.5	< 0.5	< 0.5	< 0.5	0.89	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 20
MW-2	6,100	< 1,000	56	2.6	87	190	15	< 1.5	1.5	< 1.5	< 1.5	< 1.5	< 1.5 - < 20
MW-3	< 50	100	< 0.5	< 0.5	< 0.5	< 0.5	5.8	0.77	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 20
SB-F	5,000	< 1,000	2.1	2.0	1.4	3.6	16	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1 - < 50
SB-G	1,200	4,900	< 0.5	< 0.5	< 0.5	0.72	32	0.95	60	5.8	6.2	4.6	< 0.5 - < 20
SB-H	< 50	390	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 20
ESL	100	100	1.0	40	30	13	5.0	0.5	6.0	10	5.0	0.5	NA

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Concentrations in **BOLD** exceed ESLs

ESL = Environmental Screening Levels presented in the "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated July 2003.

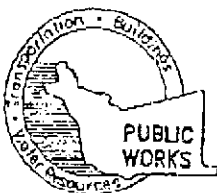
TCE - trichloroethene
 MTBE - methyl tertiary butyl ether

DCE - dichloroethene
 DCA - dichloroethane

TPH - total petroleum hydrocarbons

APPENDIX A

Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. BAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 925-777 West Grand Avenue
Corkland, CA

PERMIT NUMBER W04-0429
WELL NUMBER _____
APN _____

CLIENT

Name Cheng and Myung Kim
Address 268 W. 51 Pkwy Phone 510-763-8055
City Corkland, CA Zip 94612

APPLICANT

Name Alan S. Sorenson, Engineer
Address 268 W. 51 Pkwy Phone 925-837-4853
City Danville, CA Zip 94526

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Virusax

DRILLER'S LICENSE NO. C-57 705927

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>30</u> ft.
Surface Seal Depth	<u>5</u> ft.	Owner's Well Number	<u>AW-1</u>

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 4-21-04

ESTIMATED COMPLETION DATE 4-23-04

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 72-68.

APPLICANT'S SIGNATURE Robert E. Kirby DATE 4-5-04

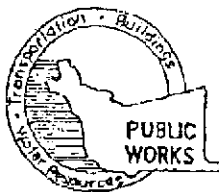
PLEASE PRINT NAME Robert E. Kirby Rcv. 5-13-00

PERMIT CONDITIONS
Circled Permit Requirements Apply

- A. GENERAL**
 - 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 - 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
 - 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - 2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS** MUTT

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 4-19-04



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. RAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 925-747 West Grand Avenue
Cocke Road, CA

PERMIT NUMBER W04-0430
WELL NUMBER _____
APN _____

CLIENT
Name Cherry and Myung Kim
Address 2421 Telegraph Ave. Phone 510-763-1805
City Oakland, CA Zip 94612

APPLICANT
Name Agua Science Engineers Fax 925-837-4853
Address 208 W. Elgin Road Phone 925-837-2311, 203
City Danville, CA Zip 94526

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Virox

DRILLER'S LICENSE NO. C-57 705927

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 30 ft.
Casing Diameter 2 in. Owner's Well Number 111-2
Surface Seal Depth 5 ft.

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum Depth _____ ft.
Hole Diameter _____ in.

ESTIMATED STARTING DATE 4-21-04
ESTIMATED COMPLETION DATE 4-21-04

PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL**
Back fill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC**
Fill hole annule zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

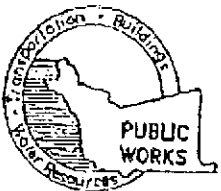
G. SPECIAL CONDITIONS - MWH
NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 4-18-04

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE Robert E. Kitzay DATE 4-5-04

PLEASE PRINT NAME Robert E. Kitzay Rev.5-13-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 925-949 West Grand Avenue
Oakland, CA

PERMIT NUMBER W04-0431
WELL NUMBER _____
APN _____

CLIENT
Name cheng and Maung Kim
Address 2621 Telegraph Ave Phone 510-763-7805
City Oakland, CA Zip 94612

APPLICANT
Name Agua Science Engineers Fax 925-827-4853
Address 208 W. El Pintado Phone 925-820-7371 (WJ)
City Danville, CA Zip 94526

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Viconex
DRILLER'S LICENSE NO. C-57-705927

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 2 in. Depth 36 ft.
Surface Seal Depth 5 ft. Owner's Well Number 1103

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 4-21-04
ESTIMATED COMPLETION DATE 4-22-04

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Robert E. Kirby DATE 4-5-04

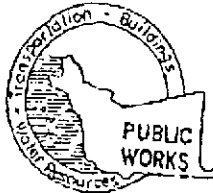
PLEASE PRINT NAME Robert E. Kirby Rev. 5-13-00

PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
 - B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 - C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 - D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted savings.
 - E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.
 - F. WELL DESTRUCTION**
Send a map of work site. A separate permit is required for wells deeper than 45 feet.
 - G. SPECIAL CONDITIONS** - MWA I
- NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 4-9-04



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 925-277 West Grand Ave. Oakland, CA

PERMIT NUMBER WPA-0432
WELL NUMBER _____
APN _____

CLIENT

Name Whang and Mayang, Keny
Address 701 Webster St. Alameda, CA Phone 510-763-8055
City Oakland, CA Zip 94612

APPLICANT

Name Aqua Science Engineers
Address 268 W. El Portal Dr. Fremont, CA Phone 925-837-9853
City Danville, CA Zip 94526

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Vironex
DRILLER'S LICENSE NO. C-57 705927

WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Owner's Well Number _____

GEOTECHNICAL PROJECTS

Number of Borings <u>4</u>	Maximum
Hole Diameter <u>2</u> in.	Depth <u>20</u> ft.

ESTIMATED STARTING DATE 4-21-04
ESTIMATED COMPLETION DATE 4-24-04

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 71-68.

APPLICANT'S SIGNATURE Robert E. Bixby DATE 4-5-04

PLEASE PRINT NAME Robert E. Bixby Rev. 5-13-00

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted to us to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind with approved cements.

E. CATHODIC

Fill hole and zone with concrete placed by tremie.

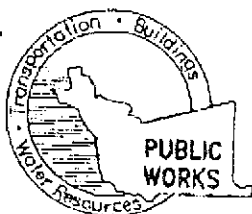
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 4-19-04

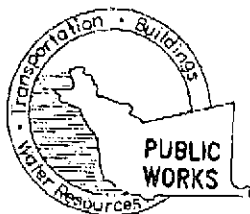


ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W04-0429-0431

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
MW#1-GENERAL CONDITIONS: MONITORING WELL.

1. Prior to installation of any monitoring wells into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
2. The minimum surface seal thickness two inches of cement grout placed by tremie.
3. All monitoring wells shall have a minimum surface cement seal depth of five (5) feet or the maximum depth practicable or twenty (20) feet.
4. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
5. Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.
7. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. **Permit is valid from April 21 to April 22, 2004.** Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
8. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). **Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including: permit number and site map.**
9. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD, CA. 94544-1395

PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W04-0432

WATER RESOURCES SECTION

GROUNDWATER PROTECTION ORDINANCE

#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

1. Prior to any drilling activities shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
4. Permit is valid only for the purpose specified herein **April 21 to April 22, 2004**. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

Job Site 949 W GRAND AV

Parcel# 005 -0411-001-04

Appl# X0402401

Descr 2 (two) monitoring wells adjacent to above address with
approved ENMI (ready for recording)

Permit Issued 08/04/04

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #
Util Fund #:

Acctg#:

Owner KIM MYUNG S

Applicant

Phone#

Lic# --License Classes--

Contractor AQUA SCIENCE ENGINEERS, INC.

X

(925) 820-9391 487000 A C57

Arch/Engr

Agent

Applic Addr 208 WEST EL PINTADO, DANVILLE, CA., 94526

\$297.21 TOTAL FEES PAID AT ISSUANCE	
\$54.00 Applic	\$205.00 Permit
\$.00 Process	\$24.61 Rec Mgmt
\$.00 Gen Plan	\$.00 Invstg
\$.00 Other	\$13.60 Tech Enh

DIST: ADDRESS:

JOB SITE

2 Mon. WEN

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING

PAGE 2 of 2

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X0402401		SITE ADDRESS/LOCATION 949 W. GRAND AV	
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)	
CONTRACTOR'S LICENSE # AND CLASS 487000		CITY BUSINESS TAX #	

ATTENTION:

- 1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____
- 2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.
- 3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

- I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).
- Policy # _____ Company Name _____
- I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

[Signature] _____ Date **8-4-04**

Signature of Permittee Agent for Contractor Owner

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV. 1 - JAN. 1) <input type="checkbox"/> YES <input type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input type="checkbox"/> NO
ISSUED BY <i>[Signature]</i>		DATE ISSUED 8-4-04	

Job Site 949 W GRAND AV

Parcel# 005 -0411-001-04

Appl# X0402400

Descr 1(one) soil boring adjacent to above address

Permit Issued 08/04/04

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #

Acctg#:

Util Fund #:

Applcmt

Phone#

Lic#

--License Classes--

Owner KIM MYUNG S

Contractor AQUA SCIENCE ENGINEERS, INC.

X

(925)820-9391 487000 A C57

Arch/Engr

Agent

Applic Addr 208 WEST EL PINTADO, DANVILLE, CA., 94526

\$297.21 TOTAL FEES PAID AT ISSUANCE

\$54.00 Applic \$205.00 Permit

\$.00 Process \$24.61 Rec Mgmt

\$.00 Gen Plan \$.00 Invstg

\$.00 Other \$13.60 Tech Enh

DIST. ADDRESS:

JOB SITE

1 SOIL MONITORING

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING

PAGE 2 of 2

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X 0 4 0 2 4 0 0		SITE ADDRESS/LOCATION 749 W. GRAND AV
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 487000		CITY BUSINESS TAX #

ATTENTION:

- 1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____
- 2- 48 hours prior to starting work, you **MUST CALL (510) 238-3651** to schedule an inspection.
- 3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

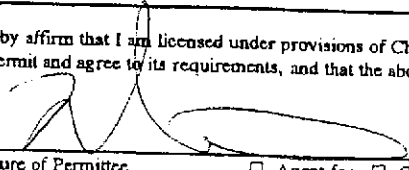
I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

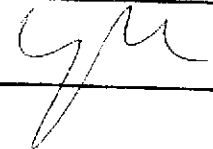
Policy # _____ Company Name _____

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

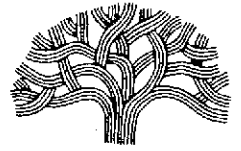
NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

Signature of Permittee  Agent for Contractor Owner Date **8-9-01**

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV-1 - JAN-1) <input type="checkbox"/> YES <input type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input type="checkbox"/> NO
ISSUED BY 	DATE ISSUED 8-9-01		

CITY OF OAKLAND



250 FRANK H. OGAWA PLAZA, SUITE 2340 • OAKLAND, CALIFORNIA 94612-2031

Community and Economic Development Agency
Building Services Division

(510) 238-3102
FAX (510) 238-2959
TDD (510) 238-6312

April 15, 2004

Myung Soon Kim
949 West Grand Avenue
Oakland, CA 94607

RE: MINOR ENCROACHMENT PERMIT FOR 949 WEST GRAND AVENUE.

Dear Madam:

Enclosed is a Minor Encroachment Permit allowing you to encroach into the public right-of-way of Myrtle Street with two monitoring wells. Before the Minor Encroachment Permit will become effective, the persons having the legal authority to do so, must sign and properly notarize the document with a notary acknowledgement slip attached, and return to this office to the attention of Jing Wong for recordation.

If you have any questions, please call Jing Wong at 238-6314 any workday from 8:00 AM to 4:00 PM.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dominic Ma', written over a horizontal line.

DOMINIC MA
Supervising Civil Engineer

Recording Requested by:
CITY OF OAKLAND

When Recorded Mail to:
City of Oakland
Community & Economic
Development Agency
Building Services Division,
Engineering Information
250 Frank H. Ogawa Plaza, 2nd Floor
Oakland, CA 94612

TAX ROLL PARCEL NUMBER
(ASSESSOR'S REFERENCE NUMBER)

005	0411	001	04
MAP	BLOCK	PARCEL	SUB

Address: 949 West Grand Avenue

Space Above for Recorder's Use Only

MINOR ENCROACHMENT PERMIT AND AGREEMENT

Myung Soon Kim, owner of that certain property described in the Grant Deed recorded November 17, 2003, Series No. 2003678263, in the Office of the Recorder, Alameda County, California and commonly known as 949 West Grand Avenue and more particularly described in Exhibit 'A' attached hereto and made a part hereof, is hereby granted a Conditional Revocable Permit to encroach into the public right-of-way area of Myrtle Street with two monitoring wells. The location of said encroachment shall be as delineated in Exhibit 'B' attached hereto and made a part hereof.

The permittee agrees to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owner of the property described above, and his successor in interest thereof.

In witness whereof, I have set my signature this 13th day of July, 2004.

Myung Soon Kim
Myung Soon Kim

Below for Official Use Only

CITY OF OAKLAND

Dated: July 13, 2004 By: _____
CALVIN N. WONG
Director of Building Services
For:
DEBORAH EDGERLY
Interim City Manager

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

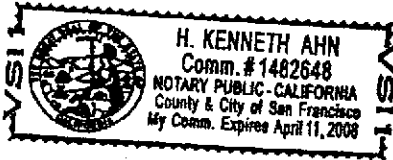
State of California

County of San Francisco

On July 13 2004 before me, H. Kenneth Ahn
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Myung Soon Kim
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.
[Signature]
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Minor Encroachment Permit and Agreement

Document Date: July 13, 2004 Number of Pages: 6

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Myung Soon Kim

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____

TO: Myung Soon Kim
ADDRESS: 949 West Grand Avenue
Oakland, CA 94607
(APN: 005-0411-001-04)

RE: Minor Encroachment Permit for installation of two monitoring wells adjacent to 949 West Grand Avenue.

CONDITIONS FOR GRANTING A MINOR ENCROACHMENT PERMIT

1. That this permit shall be revocable at the pleasure of the *Director of Building Services*.
2. That said permittee, by the acceptance, either expressed or implied, of the minor encroachment permit hereby disclaims any right, title, or interest in or to any portion of the public street area, and agrees that said temporary use of said area does not constitute an abandonment on the part of the City of Oakland of any of its rights for street purposes and otherwise.
3. That said permittee shall maintain in force and effect at all times that said encroachment occupies said public area, good and sufficient public liability insurance in the amount of \$300,000 for each occurrence, and property damage insurance in the amount of \$50,000 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers and employees against any and all claims arising out of the existence of said encroachment in said sidewalk area, as respects liabilities assumed under this permit, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the *Director of Building Services* of the City of Oakland, and that such certificate shall state that said insurance coverage shall not be canceled or be permitted to lapse without thirty (30) days written notice to said *Director of Building Services*. The permittee also agrees that the City may review the type and amount of insurance required of the permittee every five (5) years and may require the permittee to increase the amount of and/or change the type of insurance coverage required.
4. That said permittee, by the acceptance, either expressed or implied, of this revocable permit shall be solely and fully responsible for the repair or replacement of any portion or all of said improvements in the event that said improvements shall have failed or have been damaged to the extent of creating a menace or of becoming a hazard to the safety of the general public; and that the permittee shall be liable for the expenses connected therewith.
5. That said permittee is aware that the proposed work is out of the ordinary and does not comply with City standard installations. Permittee is also aware that the City has to conduct work in the public right-of-way which may include, but may not be limited to, excavation, trenching, and relocation of its facilities, all of which may damage encroachments. Permittee is further aware that the City takes no responsibility for repair or replacement of encroachments which are damaged by the City or its contractors. That the permittee, by the acceptance, either expressed or implied, of the encroachment permit hereby agrees that upon receipt of notification from the City, permittee shall immediately repair or replace within 30 days all damages to permittee's encroachments within the public right-of-way which are damaged by the City or its contractors in carrying out the City's work. Permittee agrees to employ interim measures required and approved by the City until repair or replacement work is completed.
6. That upon the termination of the permission herein granted, permittee shall immediately remove said encroachment from the street area, and any damage resulting therefrom shall be repaired to the satisfaction of the *Director of Building Services*.
7. That said permittee shall file with the City of Oakland for recordation a Minor Encroachment Permit and Agreement, and shall be bound by and comply with all the terms and conditions of said permit.

8. That said permittee shall obtain excavation permit(s) prior to construction and separate excavation permit(s) prior to the removal of the monitoring wells.
9. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the monitoring wells. And the results of all data collected from the monitoring wells.
10. That said permittee shall remove the monitoring wells and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.
11. That said permittee shall notify the *Community & Economic Development Agency, Building Services Division* after the monitoring wells are removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.
12. That the monitoring well covers installed within the sidewalk area shall have a skid-proof surface.
13. That the monitoring well castings and covers shall be iron and shall meet H-20 load rating. The cover shall be secured with a minimum of two stainless steel bolts. Bolts and cover shall be mounted flush with the surrounding surface. For sidewalk installations, a precast concrete utility box and non-skid cover may be needed in conjunction with the bolted cast iron cover with City approval.
14. That said permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittees, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.
15. That said permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgements, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).
16. That said permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: "A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."
17. That said permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to

agree to these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

18. (a) That said permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of environmental contamination that emanates or emanated from 949 West Grand Avenue, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.
 - (b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 949 West Grand Avenue, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.
 - (c) That said permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.
19. That said permittee hereby does remise, release, and forever discharge, and agree to defend, indemnify, and save harmless, the City, its officers, agents and employees and each of them, from any and all actions, claims, and demands of whatsoever kind or nature, and any damage, loss or injury which may be sustained directly or by the undersigned and any other person or persons, and arising out of, or by reason of the occupation of said public property, and the future removal of the above-mentioned encroachment.
 20. That the herein above conditions shall be binding upon the permittee and the successive owners and assigns thereof.
 21. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the *Director of Building Services*, and shall become null and void upon the failure of the permittee to comply with all conditions.

Legal Description Exhibit

City of Oakland

Parcel One:

Lots 1 to 29, inclusive, as said lots are shown on the Map of a "Resubdivision of a Portion of Block 616, Oakland, Alameda Co., Cal." Filed May 30, 1909, in Book 19 of Maps, Page 69, in the office of the county recorder of Alameda County, and a portion of Block 616, as said block is shown on Boardman's map of Oakland and vicinity, on file in the office of the county recorder of Alameda County, described as follows:

Beginning at the point of intersection of the southern line of West Grand Avenue, formerly 22nd Street, with the western line of Market Street, as said streets are shown on the map firstly herein referred to ; running thence North 75° west, along said line of West Grand Avenue, 250 feet to the eastern line of Myrtle Street, as said street is shown on said map; thence south 15° west along the last named line, 338.07 feet to the northern line of 21st Street, as said street is shown on said map; thence South 77°38' East along the last named line, 250.26 feet to said western line of Market Street; thence North 15° East along the last named line, 326.57 feet to the point of beginning.

Excepting there from, that portion thereof conveyed to the City of Oakland, in the deed dated January 14, 1960, recorded January 15, 1960, under recorder's series no. AR-5760, Alameda County Records.

Also excepting there from, those portions thereof described in the deed from William H. Taylor to Gulf Oil Corporation of California, A Delaware Corporation, dated August 8, 1963, recorded December 2, 1963, on Reel 1059, Image 94 (Au-196899), Alameda County Records.

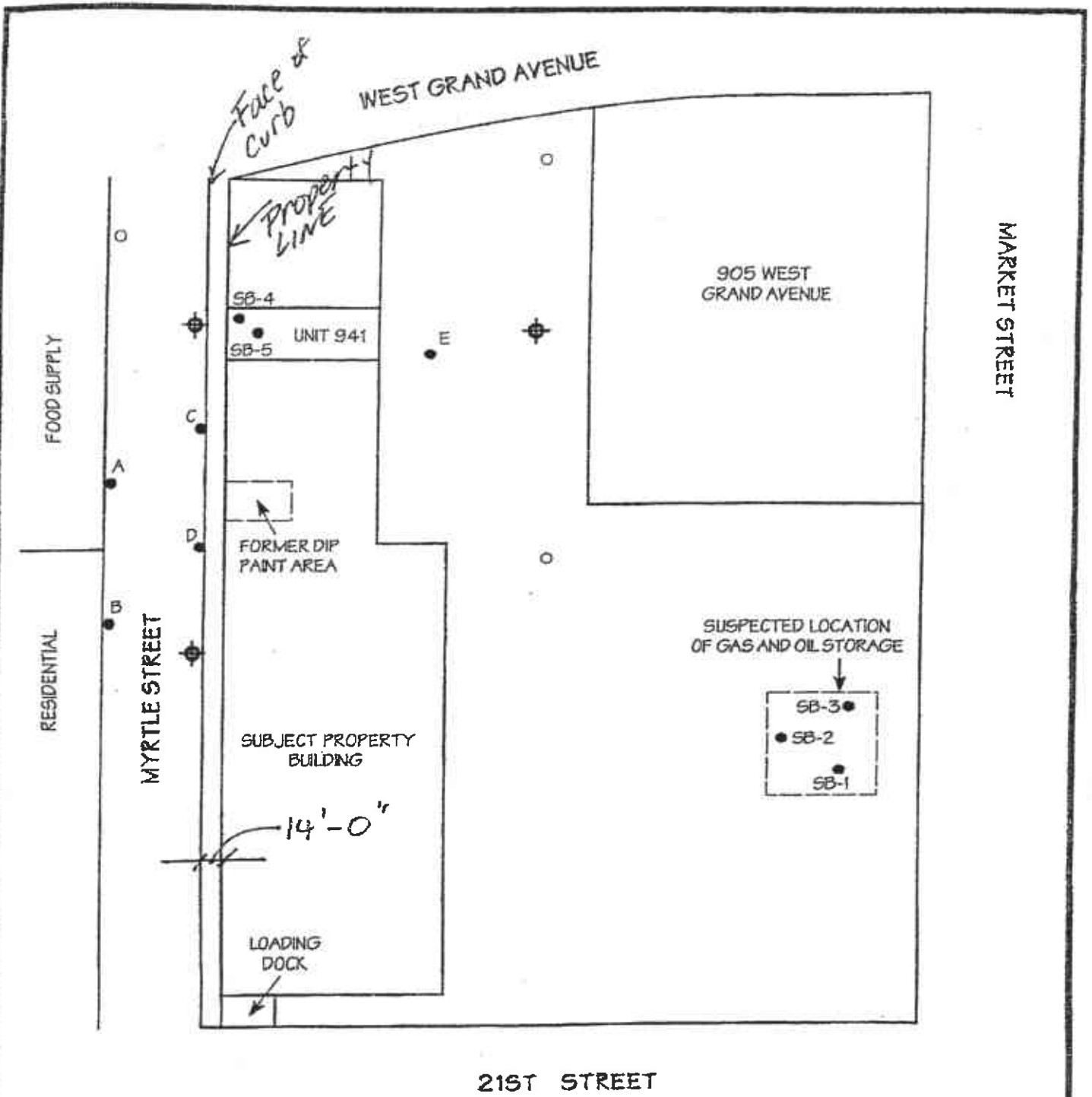
Parcel Two:

A portion of West Grand Avenue, formerly 22nd Street, adjacent to Lots 13, 14 and 15 in Block 616, as shown on the map of resubdivision of a portion of Block 616, filed May 31, 1906, in Book 19 of Maps, Page 69, in the office of the County Recorder of Alameda County, described as follows:

Beginning at a point on the southern line of West Grand Avenue, formerly 22nd Street, distant thereon North 72°53'43" West, 125 feet from the intersection thereof with the western line of Market Street, as said streets are shown on said map; thence along the said line of West Grand Avenue, north 72°53'43" West, 58.04 feet to a point from which the center of a circle, having a radius of 745 feet, bears South 7°45' West; thence leaving said southern line of West Grand Avenue, on the circumference of said circle easterly, a distance of 58.53 feet to the westerly line of the land described as parcel 2 in the deed from William H. Taylor to Gulf Oil Corporation of California, dated August 8, 1963, recorded December 2, 1963, on reel 1059, Image 94 (AU-196899), Alameda County Records; and thence along the last named line, South 17°06'17" West, 7.23 feet to the point of beginning.

Assessor's parcel no. 005-0411-001-04

EXHIBIT B



BASE MAP:
 ERAS ENVIRONMENTAL LIMITED SOIL AND GROUNDWATER
 INVESTIGATION, 5/27/2003, FIGURE 2
 AND AEC CONSULTANTS' PHASE I SUBSURFACE
 INVESTIGATION, 3/21/2002, FIGURE 2

LEGEND	
● SB-1	Previous Soil Boring
○	Proposed Soil Boring
⊕	Proposed Monitoring Well



PROPOSED MONITORING WELL AND BORING LOCATION MAP	
KIM PROPERTY 949 West Grand Avenue Oakland, California	
AQUA SCIENCE ENGINEERS, INC.	Figure 3

APPENDIX B

Boring Logs
And
Well Construction Details

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-F

Project Name: Kim Property

Project Location: 925-949 West Grand Ave, Oakland, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter

Logged By: Damian Hriciga

Date Drilled: August 9, 2004

Checked By: Robert E. Kitay, R.G. *RK*

WATER AND WELL DATA

Total Depth of Well Completed: NA

Depth of Water First Encountered: 12.0'

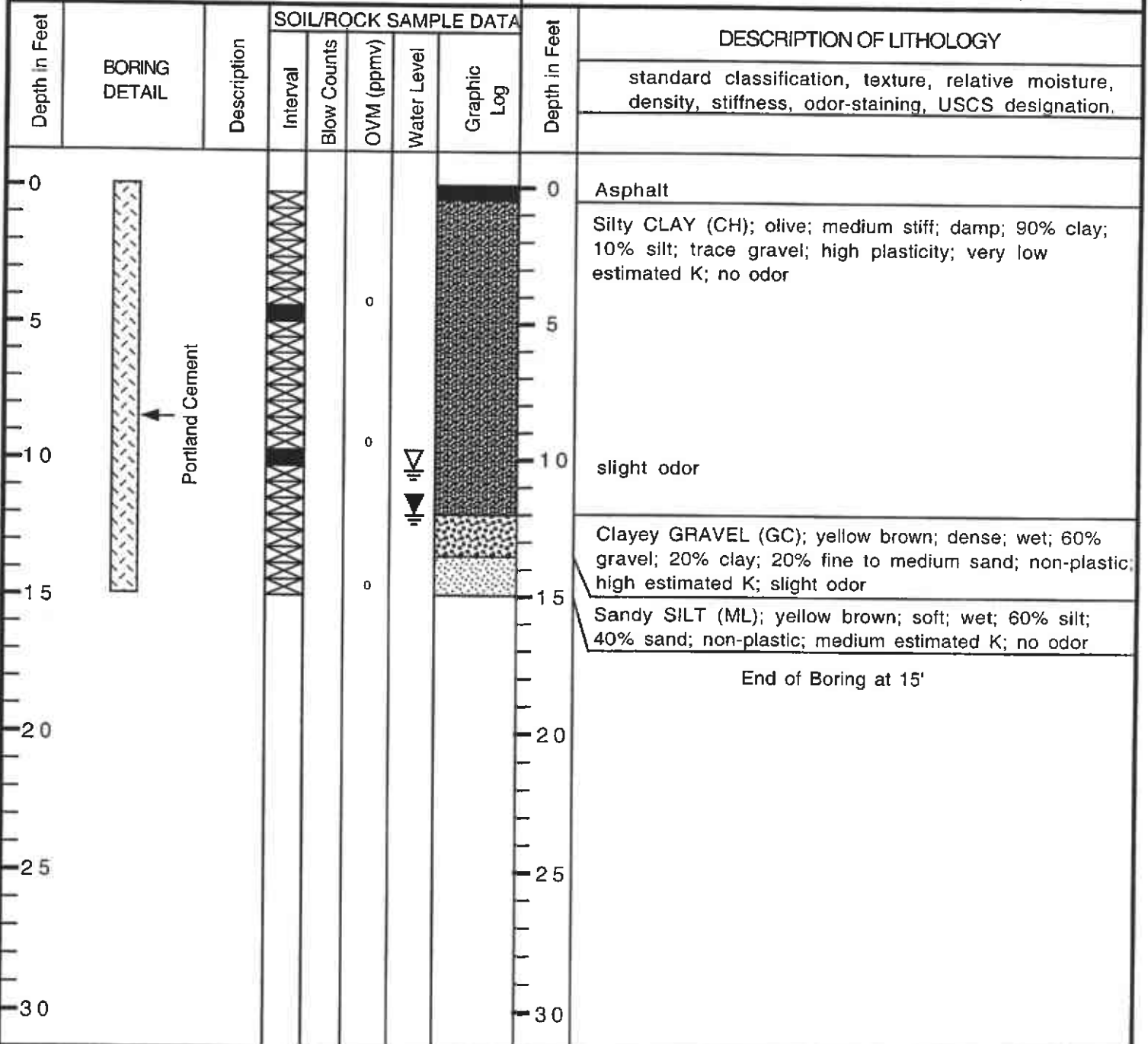
Well Screen Type and Diameter: NA

Static Depth of Water in Well: 10.5'

Well Screen Slot Size: NA

Total Depth of Boring: 15.0'

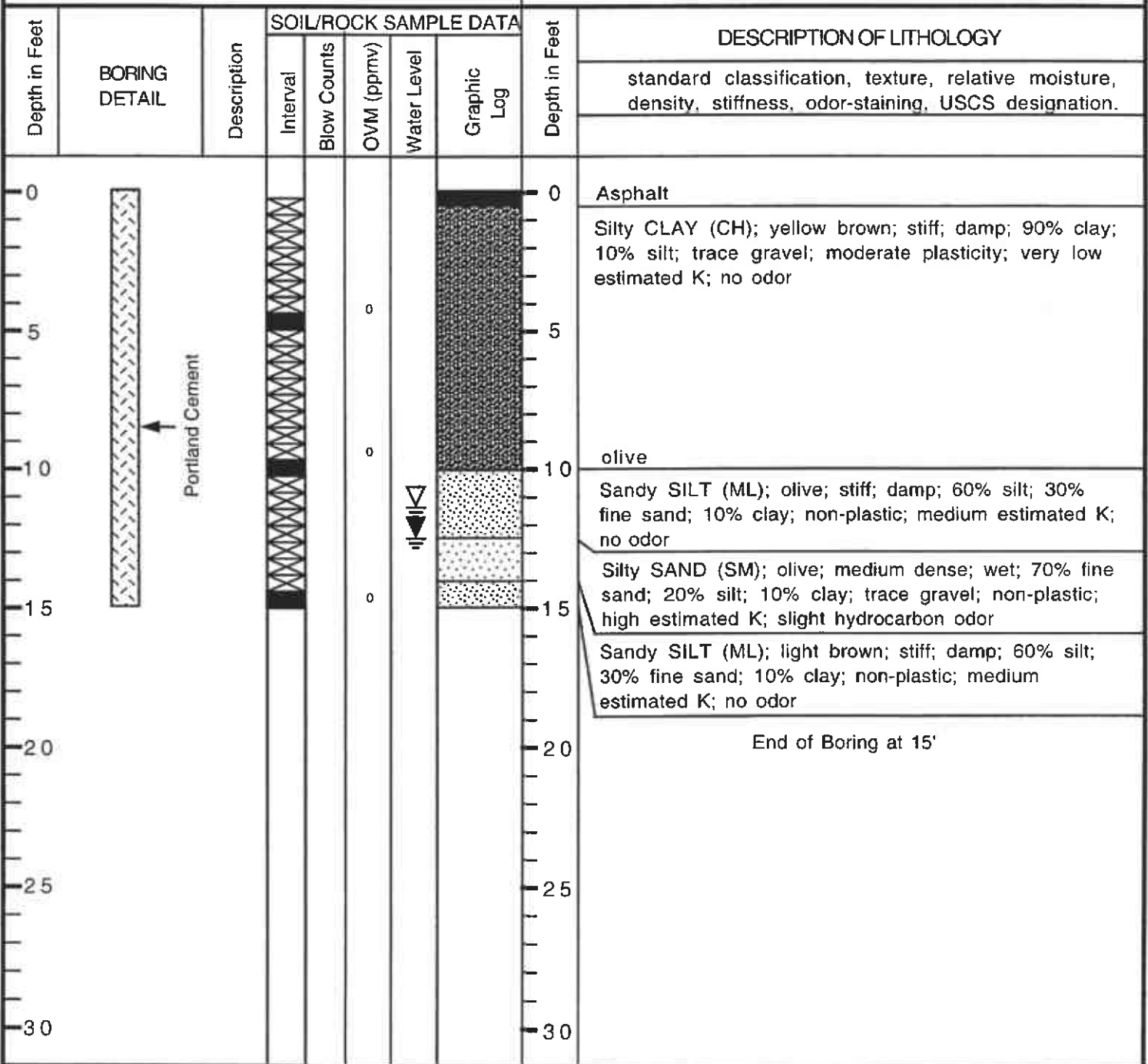
Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS	BORING: BH-G
---	--------------

Project Name: Kim Property	Project Location: 925-949 West Grand Ave, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 9, 2004	Checked By: Robert E. Kitay, R.G. ^{III}

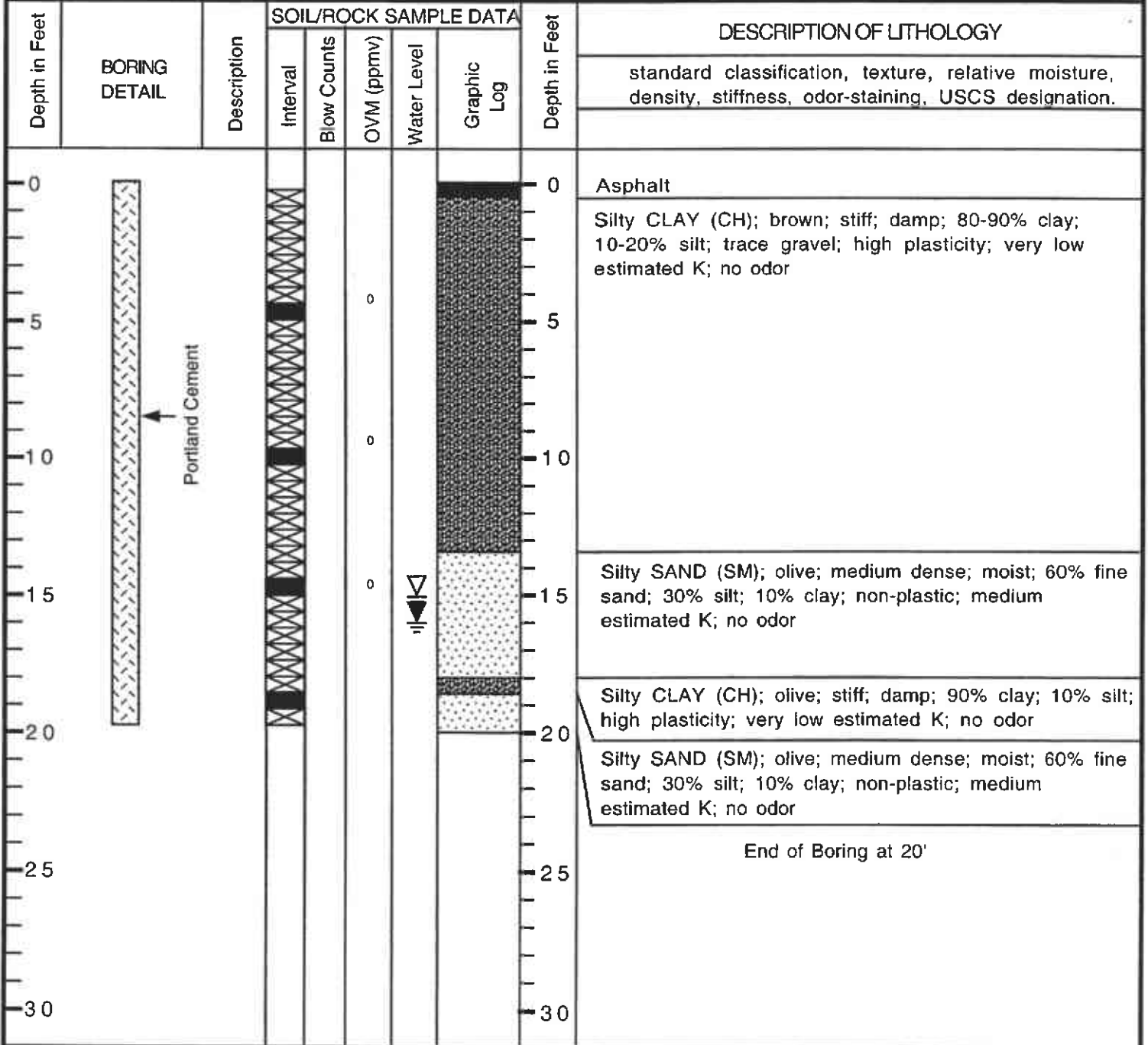
WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 12.5'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: 11.5'	Well Screen Slot Size: NA
Total Depth of Boring: 15.0'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS	BORING: BH-H
---	---------------------

Project Name: Kim Property	Project Location: 925-949 West Grand Ave, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 9, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 12.5'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: 15.0'	Well Screen Slot Size: NA
Total Depth of Boring: 20.0'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

Monitoring Well: MW-1

Project Name: Kim Property

Project Location: 925-949 West Grand Ave, Oakland, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Hollow-Stem Auger

Size of Drill: 8.0" Diameter

Logged By: Damian Hriciga

Date Drilled: August 9 and 10, 2004

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Total Depth of Well Completed: 20.0'

Depth of Water First Encountered: 17.0'

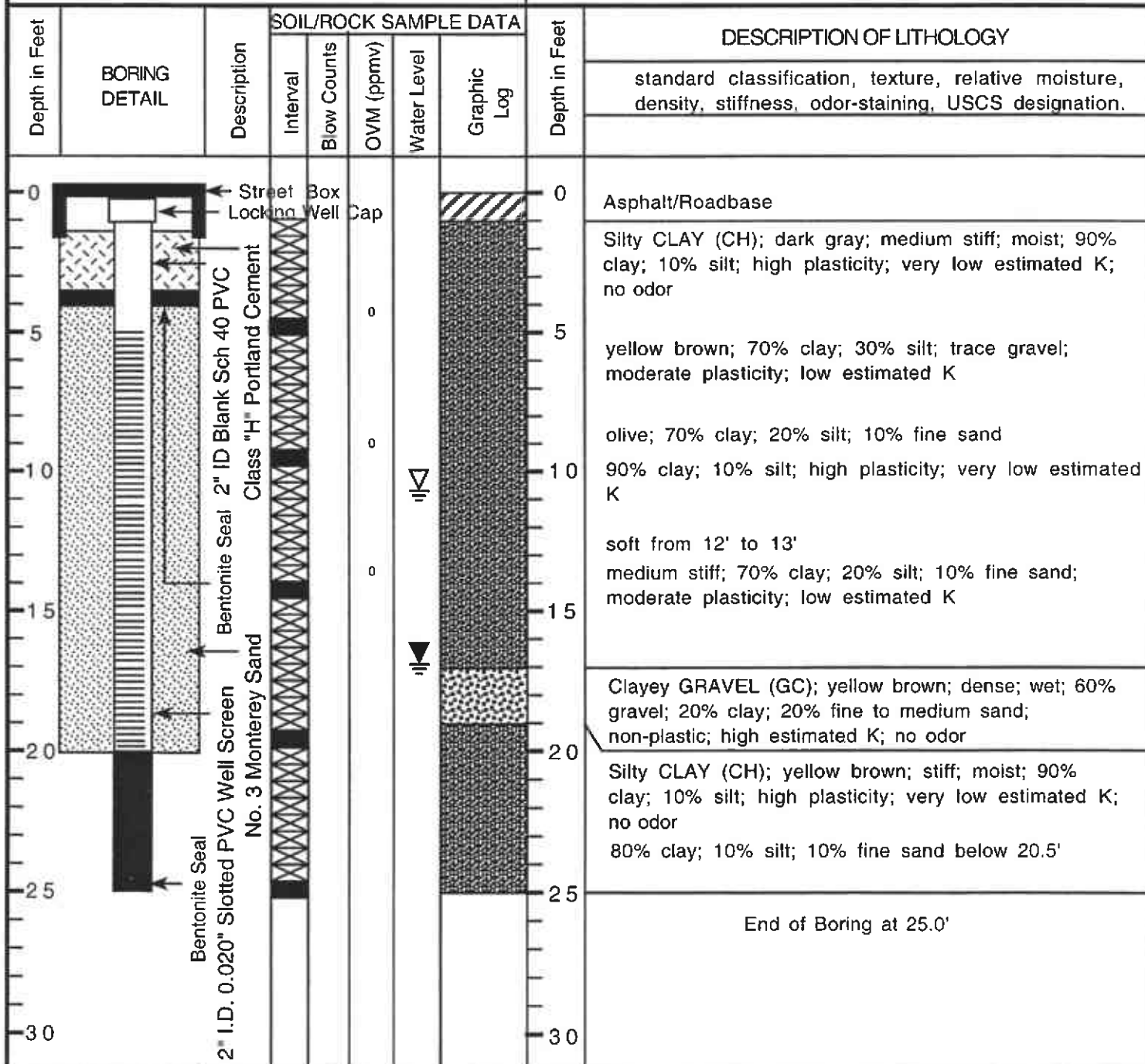
Well Screen Type and Diameter: 2" Diameter PVC Casing

Static Depth of Water in Well: 11.0'

Well Screen Slot Size: 0.020"

Total Depth of Boring: 25.0'

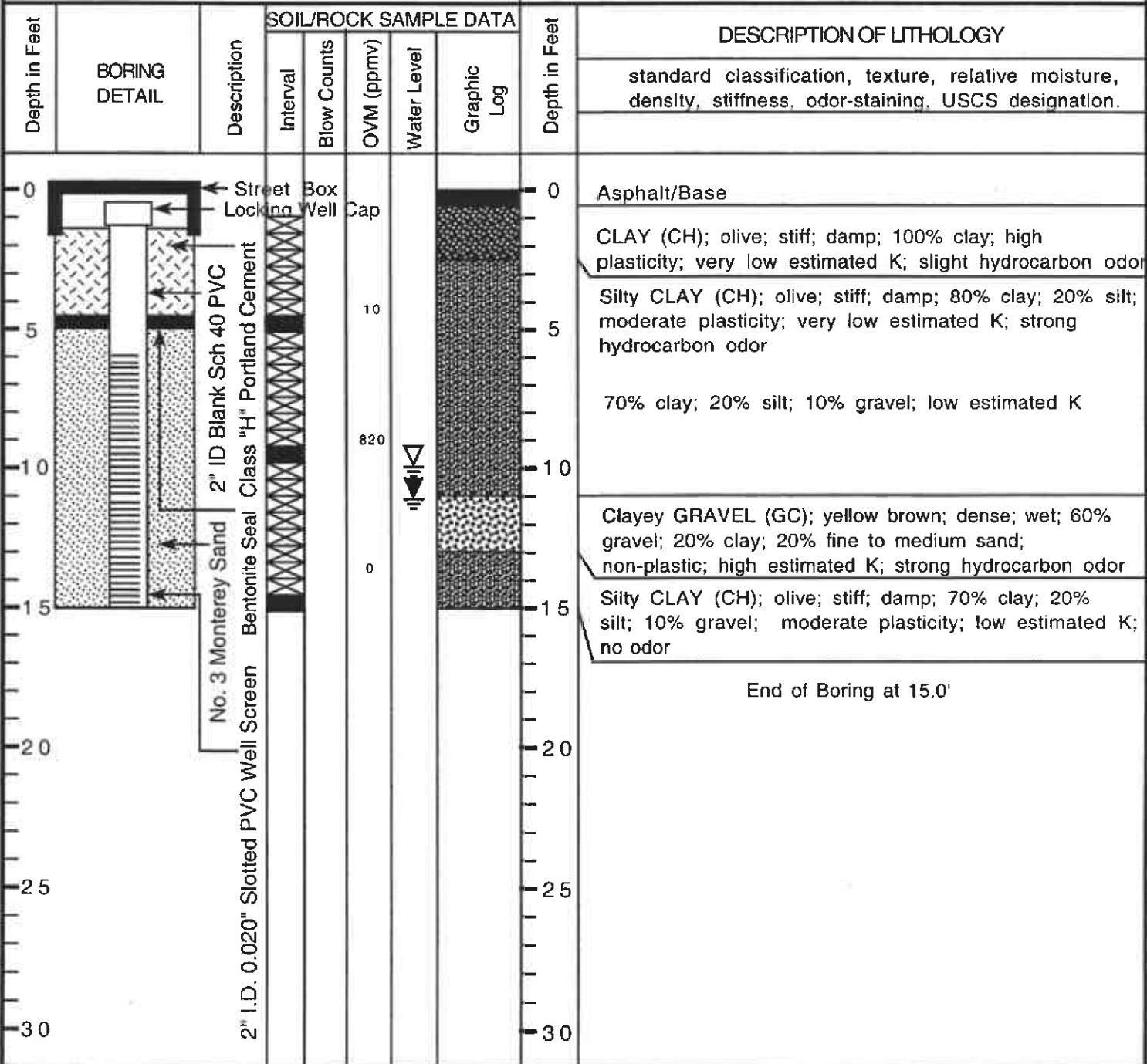
Type and Size of Soil Sampler: 2.0" I.D. Macrocore



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS	Monitoring Well: MW-2
---	-----------------------

Project Name: Kim Property	Project Location: 925-949 West Grand Ave, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Hollow-Stem Auger	Size of Drill: 8.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 9 and 10, 2004	Checked By: Robert E. Kitay, R.G. ^{PK}

WATER AND WELL DATA	Total Depth of Well Completed: 15.0'
Depth of Water First Encountered: 11.0'	Well Screen Type and Diameter: 2" Diameter PVC Casing
Static Depth of Water in Well: 10.0'	Well Screen Slot Size: 0.020"
Total Depth of Boring: 15.0'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

Monitoring Well: MW-3

Project Name: Kim Property

Project Location: 925-949 West Grand Ave, Oakland, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Hollow-Stem Auger

Size of Drill: 8.0" Diameter

Logged By: Damian Hriciga

Date Drilled: August 9 and 10, 2004

Checked By: Robert E. Kitay, R.G. *RK*

WATER AND WELL DATA

Total Depth of Well Completed: 20.0'

Depth of Water First Encountered: 18.5'

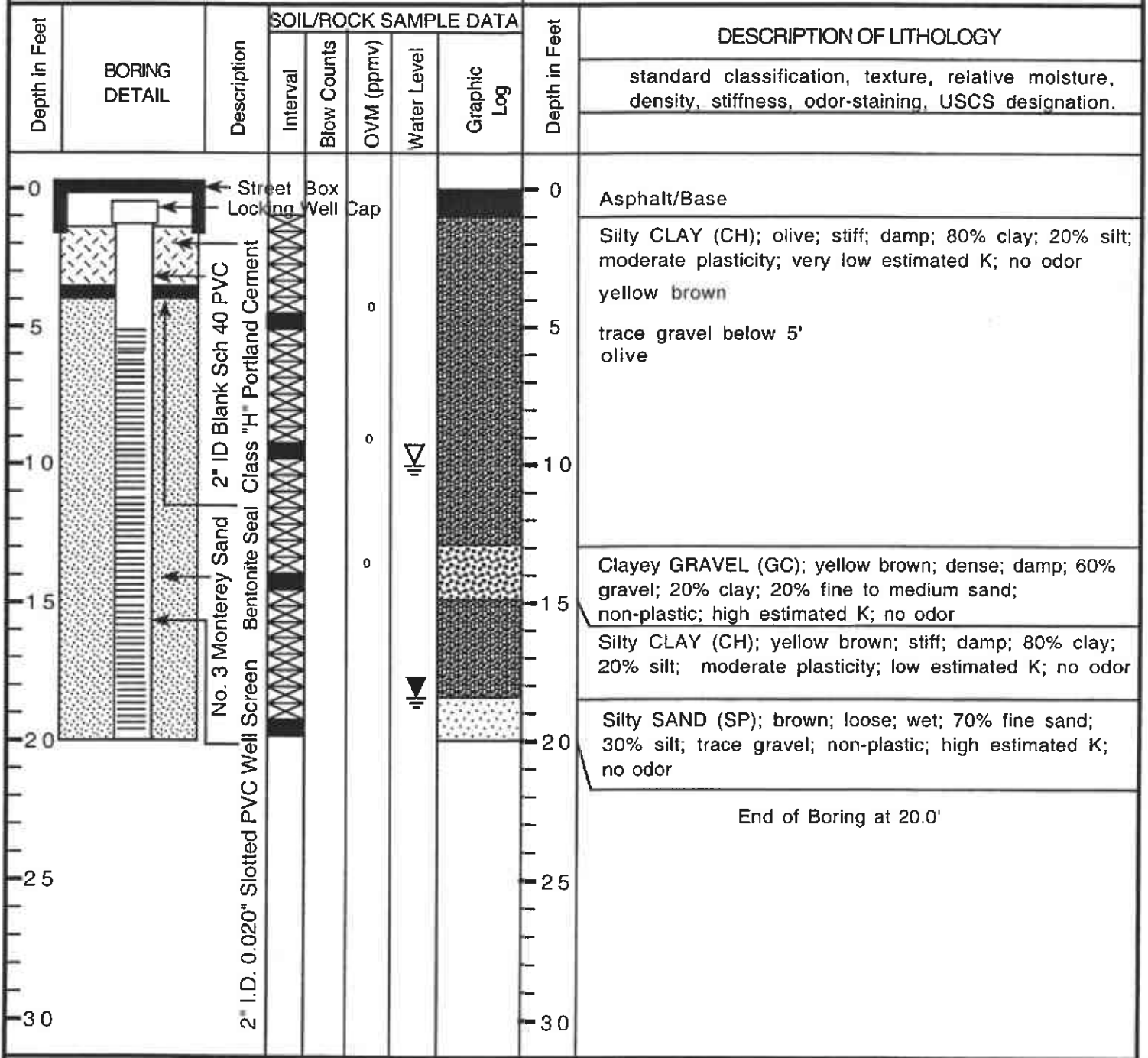
Well Screen Type and Diameter: 2" Diameter PVC Casing

Static Depth of Water in Well: 10.0'

Well Screen Slot Size: 0.020"

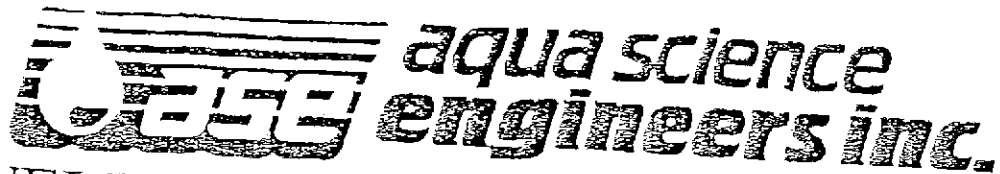
Total Depth of Boring: 20.0'

Type and Size of Soil Sampler: 2.0" I.D. Macrocore



APPENDIX C

Well Sampling Field Log



WELL SAMPLING FIELD LOG

Project Name and Address: KIM
 Job #: 3728 Date of sampling: 9/21/04
 Well Name: MW-1 Sampled by: DA
 Total depth of well (feet): 23.0 Well diameter (inches): 2
 Depth to water before sampling (feet): 10.79
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.21
 Number of gallons per well casing volume (gallons): 1.5
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 4.5
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 1600 Time Evacuation Finished: 1619
 Approximate volume of groundwater purged: 4.5
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1615
 Depth to water at time of sampling: 14.25
 Percent recovery at time of sampling: -
 Samples collected with: BAILER
 Sample color: Brown Odor: -
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>0</u>	<u>77.9</u>	<u>6.84</u>	<u>1085</u>
<u>1.5</u>	<u>73.9</u>	<u>7.38</u>	<u>1215</u>
<u>3.0</u>	<u>72.5</u>	<u>7.47</u>	<u>1145</u>
<u>26.5</u>	<u>72.0</u>	<u>7.46</u>	<u>1151</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>5</u>	<u>500 mL WA</u>	<u>HCC</u>	<u>Y</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: VCM
 Job #: 3728 Date of sampling: 9/14/07
 Well Name: MW3 Sampled by: DA
 Total depth of well (feet): 20 Well diameter (inches): 2
 Depth to water before sampling (feet): 10.11
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.89
 Number of gallons per well casing volume (gallons): 1.6
 Number of well casing volumes to be removed: 5.3
 Req'd volume of groundwater to be purged before sampling (gallons): 4.8
 Equipment used to purge the well: BALLER
 Time Evacuation Began: 1700 Time Evacuation Finished: 1708
 Approximate volume of groundwater purged: 5
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 17.15
 Depth to water at time of sampling: 10.21
 Percent recovery at time of sampling: -
 Samples collected with: BALLER
 Sample color: BROWN Odor: -
 Description of sediment in sample: SILT

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>0</u>	<u>75.7</u>	<u>7.15</u>	<u>1160</u>
<u>1.6</u>	<u>73.8</u>	<u>7.24</u>	<u>1155</u>
<u>3.2</u>	<u>72.9</u>	<u>7.19</u>	<u>1156</u>
<u>4.8</u>			

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW3</u>	<u>5</u>	<u>40 mL VOA</u>	<u>HCC</u>	<u>Y</u>	

APPENDIX D

Survey Report



Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076

phone: (831) 724-2580

fax: (831) 724-8025

e-mail: lee@midcoastengineers.com

Richard A. Wadsworth
Civil Engineer

Stanley O. Nielsen
Land Surveyor

Lee D. Vaage
Land Surveyor

Jeff S. Nielsen
Land Surveyor

September 24, 2004

Robert Kitay
AquaScience Engineers, Inc.
208 W. Pintado Road
Danville, CA 94526

Re: **Kim Property, 925-949 West Grand Avenue, Oakland, California;** AquaScience Project,
MCE Job No. 04181

Dear Mr. Kitay,

As you requested, on September 23 we surveyed three monitoring wells and three soil borings located at the referenced site. Our findings are shown on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the standard box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points #1034 and #1036 (H045), as shown on the map entitled "Record of Survey, Monumentation System for the Port of Oakland", R/S No. 990, filed in Book 18 of Survey, Pages 50-60, Alameda County Records. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark used for this survey is Control Point #1036 (H045), as listed in the above described map, a nail in concrete in monument box at Poplar Street and West Grand Avenue. Elevation = 10.039 feet, NAVD88.

Please let me know if you have questions or need additional information.

Yours truly,


Lee D. Vaage



KIM PROPERTY
925 - 949 WEST GRAND AVENUE
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS

Project : 04181

User name MCE Date & Time 9:34:00 AM 9/24/2004
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NAVD88
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Name	Northing	Easting	Elevation	Description
16	2123770.89	6047540.89	15.12	MW-1toc
17	2123771.18	6047540.85	15.30	MW-1tob
14	2123891.29	6047577.63	14.42	MW-2toc
15	2123891.54	6047577.62	15.02	MW-2tob
8	2123859.36	6047690.42	15.20	MW-3toc
9	2123859.60	6047690.41	15.51	MW-3tob
13	2123922.18	6047555.38	14.78	SB-F
10	2123923.64	6047707.66	16.54	SB-G
7	2123794.38	6047684.76	15.99	SB-H
1003	2124629.21	6045465.49	10.039	GPS 1036

KIM PROPERTY
925 - 949 WEST GRAND AVENUE
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS

Project : 04181

User name MCE Date & Time 9:34:00 AM 9/24/2004
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NAVD88
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Name	Latitude	Longitude	Elevation	Description
16	37.814065792°N	122.279893383°W	15.12	MW-1toc
17	37.814066566°N	122.279893525°W	15.30	MW-1tob
14	37.814398297°N	122.279774143°W	14.42	MW-2toc
15	37.814398978°N	122.279774183°W	15.02	MW-2tob
8	37.814316505°N	122.279381675°W	15.20	MW-3toc
9	37.814317169°N	122.279381714°W	15.51	MW-3tob
13	37.814481958°N	122.279853185°W	14.78	SB-F
10	37.814493924°N	122.279326216°W	16.54	SB-G
7	37.814137789°N	122.279396969°W	15.99	SB-H
1003	37.816313957°N	122.287133373°W	10.039	GPS 1036

	A	B	C	D	E	F	G	H	I	J	K	L
1	KIM PROPERTY											
2	925 - 949 WEST GRAND AVENUE											
3	OAKLAND, CALIFORNIA											
4												
5	AQUA SCIENCE ENGINEERS											
6												
7	Project : 04181											
8	User name MCE Date & Time 9:34:00 AM 9/24/2004											
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403											
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NAVD88											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16		MW-1	MW	09/23/2004	37.8140658	-122.2798934	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
17		MW-2	MW	09/23/2004	37.8143983	-122.2797741	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
18		MW-3	MW	09/23/2004	37.8143165	-122.2793817	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
19												
20		SB-F	SB	09/23/2004	37.8144820	-122.2798532	CGPS	NAD83	1	Mid Coast Engineers	T57	ground
21		SB-G	SB	09/23/2004	37.8144939	-122.2793262	CGPS	NAD83	1	Mid Coast Engineers	T57	ground
22		SB-H	SB	09/23/2004	37.8141378	-122.2793970	CGPS	NAD83	1	Mid Coast Engineers	T57	ground

	A	B	C	D	E	F	G	H	I	J	K
1	KIM PROPERTY										
2	925 - 949 WEST GRAND AVENUE										
3	OAKLAND, CALIFORNIA										
4											
5	AQUA SCIENCE ENGINEERS										
6											
7	Project : 04181										
8	User name	MCE	Date & Time	9:34:00 AM 9/24/2004							
9	Coordinate System	US State Plane 1983		Zone	California Zone 3 0403						
10	Project Datum	NAD 1983 (Conus)									
11	Vertical Datum	NAVD88									
12	Coordinate Units	US survey feet									
13	Distance Units	US survey feet									
14	Elevation Units	US survey feet									
15											
16		MW-1	09/23/2004	15.12	CGPS	88	0.5		Mid Coast Engineers		top of casing
17		MW-2	09/23/2004	14.42	CGPS	88	0.5		Mid Coast Engineers		top of casing
18		MW-3	09/23/2004	15.20	CGPS	88	0.5		Mid Coast Engineers		top of casing
19											
20		SB-F	09/23/2004	14.78	CGPS	88	0.5		Mid Coast Engineers		ground
21		SB-G	09/23/2004	16.54	CGPS	88	0.5		Mid Coast Engineers		ground
22		SB-H	09/23/2004	15.99	CGPS	88	0.5		Mid Coast Engineers		ground

APPENDIX E

Analytical Results
And Chain of Custody
Documentation



Report Number : 39598

Date : 8/20/2004

David Allen
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 6 Soil Samples and 3 Water Samples
Project Name : KIM
Project Number :

Dear Mr. Allen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 39598

Date : 8/20/2004

Subject : 3 Water Samples and 21 Soil Samples
Project Name : KIM
Project Number :

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample SB-F.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples SB-G 9.5', SB-H 14.5', SB-G and SB-H. These hydrocarbons are higher-boiling than typical Diesel Fuel. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-2-9.5. These hydrocarbons are lower-boiling than typical Diesel Fuel.

The Method Reporting Limit for 1,1,2-Trichloroethane has been increased due to the presence of an interfering compound for sample MW-2 9.5'. The Method Reporting Limit for 1,1,2,2-Tetrachloroethane has been increased due to the presence of an interfering compound for sample MW-2 9.5'. The Method Reporting Limit for Chloromethane has been increased due to the presence of an interfering compound for sample SB-G. The Method Reporting Limit for Bromodichloromethane has been increased due to the presence of an interfering compound for samples MW-2 9.5', SB-F and SB-G. The Method Reporting Limit for Trichloroethene has been increased due to the presence of an interfering compound for samples MW-2 9.5' and SB-F.

Approved By:


Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Project Name : KIM

Project Number :

Sample : SB-F 9.5'

Matrix : Soil

Lab Number : 39598-02

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	99.6		% Recovery	M EPA 8015	8/19/2004

Sample : SB-G 9.5'

Matrix : Soil

Lab Number : 39598-04

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	3.9	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	94.7		% Recovery	M EPA 8015	8/19/2004

Sample : SB-H 14.5'

Matrix : Soil

Lab Number : 39598-08

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	1.5	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	8/19/2004

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Project Name : KIM

Project Number :

Sample : MW-1 14.0'

Matrix : Soil

Lab Number : 39598-12

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	95.7		% Recovery	M EPA 8015	8/19/2004

Sample : MW-2 9.5'

Matrix : Soil

Lab Number : 39598-16

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	430	10	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	72.5		% Recovery	M EPA 8015	8/19/2004

Sample : MW-3 14 5'

Matrix : Soil

Lab Number : 39598-20

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	97.4		% Recovery	M EPA 8015	8/19/2004

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Project Name : KIM

Project Number :

Sample : SB-F

Matrix : Water

Lab Number : 39598-22

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1000	1000	ug/L	M EPA 8015	8/18/2004

Sample : SB-G

Matrix : Water

Lab Number : 39598-23

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	4900	500	ug/L	M EPA 8015	8/19/2004

Sample : SB-H

Matrix : Water

Lab Number : 39598-24

Sample Date :8/9/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	390	50	ug/L	M EPA 8015	8/18/2004

Approved By:

Jdel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Sample : SB-F 9.5'

Project Name : KIM

Project Number :

Lab Number : 39598-02

Date Analyzed : 8/13/2004

Matrix : Soil

Sample Date : 8/9/2004

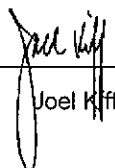
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL	Units
Benzene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg
Tert-Butanol	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL	Units
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Toluene - d8 (Surr)	95.8		% Recovery
4-Bromofluorobenzene (Surr)	97.5		% Recovery
Dibromofluoromethane (Surr)	100		% Recovery
1,2-Dichloroethane-d4 (Surr)	104		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Sample : SB-G 9.5'

Project Name : KIM

Project Number :

Lab Number : 39598-04

Date Analyzed : 8/13/2004

Matrix : Soil

Sample Date : 8/9/2004

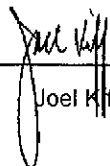
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL	Units
Benzene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg
Tert-Butanol	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL	Units
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Toluene - d8 (Surr)	105		% Recovery
4-Bromofluorobenzene (Surr)	99.1		% Recovery
Dibromofluoromethane (Surr)	99.0		% Recovery
1,2-Dichloroethane-d4 (Surr)	100		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Sample : SB-H 14.5'

Project Name : KIM

Project Number :

Lab Number : 39598-08

Date Analyzed : 8/13/2004

Matrix : Soil

Sample Date : 8/9/2004

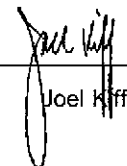
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL	Units
Benzene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg
Tert-Butanol	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL	Units
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Toluene - d8 (Surr)	105		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery
Dibromofluoromethane (Surr)	99.9		% Recovery
1,2-Dichloroethane-d4 (Surr)	96.6		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Sample : MW-1 14.0'

Project Name : KIM

Project Number :

Lab Number : 39598-12

Date Analyzed : 8/13/2004

Matrix : Soil

Sample Date : 8/9/2004

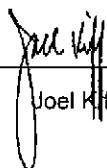
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units
Benzene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg
Tert-Butanol	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Toluene - d8 (Surr)	106		% Recovery
4-Bromofluorobenzene (Surr)	99.2		% Recovery
Dibromofluoromethane (Surr)	101		% Recovery
1,2-Dichloroethane-d4 (Surr)	103		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff



Report Number : 39598

Date : 8/20/2004

Sample : MW-2 9.5'

Project Name : KIM

Project Number :

Lab Number : 39598-16

Date Analyzed : 8/13/2004, 8/14/2004

Matrix : Soil

Sample Date :8/9/2004

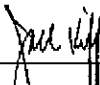
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units
Benzene	0.73	0.025	mg/Kg
Toluene	0.091	0.025	mg/Kg
Ethylbenzene	16	0.025	mg/Kg
Total Xylenes	45	1.0	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.025	0.025	mg/Kg
Diisopropyl ether (DIPE)	< 0.025	0.025	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.025	0.025	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.025	0.025	mg/Kg
Tert-Butanol	< 0.25	0.25	mg/Kg
TPH as Gasoline	1000	50	mg/Kg
Chloromethane	< 0.025	0.025	mg/Kg
Vinyl Chloride	< 0.025	0.025	mg/Kg
Bromomethane	< 0.040	0.040	mg/Kg
Chloroethane	< 0.025	0.025	mg/Kg
Trichlorofluoromethane	< 0.025	0.025	mg/Kg
1,1-Dichloroethene	< 0.025	0.025	mg/Kg
Methylene Chloride	< 0.050	0.050	mg/Kg
trans-1,2-Dichloroethene	< 0.025	0.025	mg/Kg
1,1-Dichloroethane	< 0.025	0.025	mg/Kg
cis-1,2-Dichloroethene	0.027	0.025	mg/Kg
Chloroform	< 0.025	0.025	mg/Kg
1,1,1-Trichloroethane	< 0.025	0.025	mg/Kg
1,2-Dichloroethane	< 0.025	0.025	mg/Kg
Carbon Tetrachloride	< 0.025	0.025	mg/Kg
Trichloroethene	< 0.080	0.080	mg/Kg
1,2-Dichloropropane	< 0.025	0.025	mg/Kg
Bromodichloromethane	< 0.20	0.20	mg/Kg
cis-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
trans-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
1,1,2-Trichloroethane	< 0.20	0.20	mg/Kg
Tetrachloroethene	< 0.025	0.025	mg/Kg
Dibromochloromethane	< 0.025	0.025	mg/Kg
Chlorobenzene	< 0.025	0.025	mg/Kg
Bromoform	< 0.025	0.025	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.080	0.080	mg/Kg
1,3-Dichlorobenzene	< 0.025	0.025	mg/Kg

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,2-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,2-Dibromoethane	< 0.025	0.025	mg/Kg
Toluene - d8 (Surr)	95.2		% Recovery
4-Bromofluorobenzene (Surr)	101		% Recovery
Dibromofluoromethane (Surr)	88.5		% Recovery
1,2-Dichloroethane-d4 (Surr)	85.1		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff



Report Number : 39598

Date : 8/20/2004

Sample : MW-3 14 5'

Project Name : KIM

Project Number :

Lab Number : 39598-20

Date Analyzed : 8/18/2004

Matrix : Soil

Sample Date : 8/9/2004


Analysis Method: EPA 8260B

Parameter	Measured Value	MRL	Units
Benzene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg
Tert-Butanol	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL	Units
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Toluene - d8 (Surr)	109		% Recovery
4-Bromofluorobenzene (Surr)	96.7		% Recovery
Dibromofluoromethane (Surr)	99.3		% Recovery
1,2-Dichloroethane-d4 (Surr)	101		% Recovery

1) MRL = Method reporting limit

Approved By:


Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 39598

Date : 8/20/2004

Sample : SB-F

Project Name : KIM

Project Number :

Lab Number : 39598-22

Date Analyzed : 8/15/2004

Matrix : Water

Sample Date : 8/9/2004

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units
Benzene	2.1	1.0	ug/L
Toluene	2.0	1.0	ug/L
Ethylbenzene	1.4	1.0	ug/L
Total Xylenes	3.6	1.0	ug/L
Methyl-t-butyl ether (MTBE)	16	1.0	ug/L
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L
Tert-Butanol	< 10	10	ug/L
TPH as Gasoline	5000	100	ug/L
Chloromethane	< 1.0	1.0	ug/L
Vinyl Chloride	< 1.0	1.0	ug/L
Bromomethane	< 50	50	ug/L
Chloroethane	< 1.0	1.0	ug/L
Trichlorofluoromethane	< 1.0	1.0	ug/L
1,1-Dichloroethene	< 1.0	1.0	ug/L
Methylene Chloride	< 10	10	ug/L
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L
1,1-Dichloroethane	< 1.0	1.0	ug/L
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L
Chloroform	< 1.0	1.0	ug/L
1,1,1-Trichloroethane	< 1.0	1.0	ug/L
1,2-Dichloroethane	< 1.0	1.0	ug/L
Carbon Tetrachloride	< 1.0	1.0	ug/L
Trichloroethene	< 5.0	5.0	ug/L
1,2-Dichloropropane	< 1.0	1.0	ug/L
Bromodichloromethane	< 5.0	5.0	ug/L
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L
1,1,2-Trichloroethane	< 1.0	1.0	ug/L
Tetrachloroethene	< 1.0	1.0	ug/L
Dibromochloromethane	< 1.0	1.0	ug/L
Chlorobenzene	< 1.0	1.0	ug/L
Bromoform	< 1.0	1.0	ug/L
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/L
1,3-Dichlorobenzene	< 1.0	1.0	ug/L

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 1.0	1.0	ug/L
1,2-Dichlorobenzene	< 1.0	1.0	ug/L
1,2-Dibromoethane	< 1.0	1.0	ug/L
Toluene - d8 (Surr)	93.0		% Recovery
4-Bromofluorobenzene (Surr)	102		% Recovery
Dibromofluoromethane (Surr)	88.3		% Recovery
1,2-Dichloroethane-d4 (Surr)	90.1		% Recovery

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800


Joel Kiff



Report Number : 39598

Date : 8/20/2004

Sample : SB-G

Project Name : KIM

Project Number :

Lab Number : 39598-23

Date Analyzed : 8/16/2004

Matrix : Water

Sample Date : 8/9/2004

Analysis Method: EPA 8260B

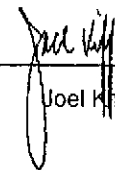
Parameter	Measured Value	MRL ¹	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	0.72	0.50	ug/L
Methyl-t-butyl ether (MTBE)	32	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
TPH as Gasoline	1200	50	ug/L
Chloromethane	< 0.80	0.80	ug/L
Vinyl Chloride	4.6	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	5.8	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	60	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,2-Dichloroethane	0.95	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Trichloroethene	6.2	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.80	0.80	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Toluene - d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	91.5		% Recovery
Dibromofluoromethane (Surr)	99.2		% Recovery
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800


Joel Kiff



Report Number : 39598

Date : 8/20/2004

Sample : SB-H

Project Name : KIM

Project Number :

Lab Number : 39598-24

Date Analyzed : 8/15/2004

Matrix : Water

Sample Date : 8/9/2004

Analysis Method: EPA 8260B


Parameter	Measured Value	MRL ¹	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
TPH as Gasoline	< 50	50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Toluene - d8 (Surr)	105		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery
Dibromofluoromethane (Surr)	102		% Recovery
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800


Joel Kiff

Report Number : 39598

Date : 8/20/2004

QC Report : Method Blank Data

Project Name : **KIM**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	8/19/2004
1-Chlorooctadecane (Silica Gel Surr)	101		%	M EPA 8015	8/19/2004
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	8/17/2004
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/13/2004
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	8/13/2004
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/13/2004
Toluene - dB (Surr)	102		%	EPA 8260B	8/13/2004
4-Bromofluorobenzene (Surr)	97.5		%	EPA 8260B	8/13/2004
Dibromofluoromethane (Surr)	111		%	EPA 8260B	8/13/2004
1,2-Dichloroethane-d4 (Surr)	98.9		%	EPA 8260B	8/13/2004
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/17/2004
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	8/17/2004
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : KIM

Project Number :

Report Number : 39598

Date : 8/20/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/17/2004
Toluene - d8 (Surr)	93.6		%	EPA 8260B	8/17/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	8/17/2004
Dibromofluoromethane (Surr)	97.0		%	EPA 8260B	8/17/2004
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	8/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/14/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/14/2004
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Bromomethane	< 20	20	ug/L	EPA 8260B	8/14/2004
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	8/14/2004
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39598

Date : 8/20/2004

QC Report : Method Blank Data

Project Name : **KIM**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/14/2004
Toluene - d8 (Surr)	106		%	EPA 8260B	8/14/2004
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	8/14/2004
Dibromofluoromethane (Surr)	100		%	EPA 8260B	8/14/2004
1,2-Dichloroethane-d4 (Surr)	97.7		%	EPA 8260B	8/14/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/16/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/16/2004
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Bromomethane	< 20	20	ug/L	EPA 8260B	8/16/2004
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	8/16/2004
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/16/2004
Toluene - d8 (Surr)	99.8		%	EPA 8260B	8/16/2004
4-Bromofluorobenzene (Surr)	92.2		%	EPA 8260B	8/16/2004
Dibromofluoromethane (Surr)	97.3		%	EPA 8260B	8/16/2004
1,2-Dichloroethane-d4 (Surr)	99.8		%	EPA 8260B	8/16/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39598

Date : 8/20/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : KIM

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	39598-08	<1.0	20.0	20.0	16.5	16.5	mg/Kg	M EPA 8015	8/19/04	82.6	82.7	0.172	60-140	25
TPH as Diesel	Blank	<50	1000	1000	945	994	ug/L	M EPA 8015	8/17/04	94.5	99.4	5.00	70-130	25
Benzene	39598-02	<0.0050	0.0399	0.0399	0.0371	0.0375	mg/Kg	EPA 8260B	8/13/04	93.0	93.9	0.967	70-130	25
Toluene	39598-02	<0.0050	0.0399	0.0399	0.0362	0.0361	mg/Kg	EPA 8260B	8/13/04	90.6	90.4	0.214	70-130	25
Tert-Butanol	39598-02	<0.0050	0.200	0.200	0.171	0.163	mg/Kg	EPA 8260B	8/13/04	85.8	81.7	4.88	70-130	25
Methyl-t-Butyl Ether	39598-02	<0.0050	0.0399	0.0399	0.0347	0.0349	mg/Kg	EPA 8260B	8/13/04	87.0	87.4	0.484	70-130	25
Benzene	39620-05	<0.0050	0.0371	0.0372	0.0374	0.0372	mg/Kg	EPA 8260B	8/17/04	101	99.9	0.995	70-130	25
Toluene	39620-05	<0.0050	0.0371	0.0372	0.0349	0.0353	mg/Kg	EPA 8260B	8/17/04	94.0	94.9	0.896	70-130	25
Tert-Butanol	39620-05	<0.0050	0.186	0.186	0.166	0.171	mg/Kg	EPA 8260B	8/17/04	89.3	91.9	2.91	70-130	25
Methyl-t-Butyl Ether	39620-05	<0.0050	0.0371	0.0372	0.0322	0.0331	mg/Kg	EPA 8260B	8/17/04	86.8	89.0	2.48	70-130	25
Benzene	39598-23	<0.50	40.0	38.9	44.9	43.2	ug/L	EPA 8260B	8/15/04	112	111	1.07	70-130	25
Toluene	39598-23	<0.50	40.0	38.9	45.5	43.4	ug/L	EPA 8260B	8/15/04	114	111	2.09	70-130	25
Tert-Butanol	39598-23	<5.0	200	194	212	206	ug/L	EPA 8260B	8/15/04	106	106	0.0619	70-130	25
Methyl-t-Butyl Ether	39598-23	22	40.0	38.9	61.0	59.9	ug/L	EPA 8260B	8/15/04	96.3	96.0	0.342	70-130	25
Benzene	39632-01	<0.50	40.0	40.0	40.7	40.0	ug/L	EPA 8260B	8/16/04	102	100	1.63	70-130	25
Toluene	39632-01	<0.50	40.0	40.0	40.9	39.6	ug/L	EPA 8260B	8/16/04	102	98.9	3.30	70-130	25
Tert-Butanol	39632-01	<5.0	200	200	205	212	ug/L	EPA 8260B	8/16/04	102	106	3.44	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 39598

Date : 8/20/2004

Project Name : KIM

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-Butyl Ether	39632-01	1.6	40.0	40.0	42.3	41.3	ug/L	EPA 8260B	8/16/04	102	99.2	2.50	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 39598

Date : 8/20/2004

Project Name : **KIM**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	8/19/04	86.8	70-130
Benzene	0.0399	mg/Kg	EPA 8260B	8/13/04	99.7	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	8/13/04	95.3	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	8/13/04	90.9	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	8/13/04	91.5	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	8/17/04	97.2	70-130
Toluene	0.0400	mg/Kg	EPA 8260B	8/17/04	90.8	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	8/17/04	87.8	70-130
Methyl-t-Butyl Ether	0.0400	mg/Kg	EPA 8260B	8/17/04	87.1	70-130
Benzene	40.0	ug/L	EPA 8260B	8/14/04	112	70-130
Toluene	40.0	ug/L	EPA 8260B	8/14/04	115	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/14/04	107	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/14/04	80.1	70-130
Benzene	40.0	ug/L	EPA 8260B	8/16/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	8/16/04	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/16/04	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/16/04	106	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF

39598

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

PAGE 1 OF 3

SAMPLER (SIGNATURE)
ON

PROJECT NAME KIM JOB NO. _____
ADDRESS W. GRAND, OAKLAND

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX	TPH-DIESEL W/ Silica Gel Cleanup	TPH-MINERAL SPIRITS W/ Silica Gel Cleanup	PURGEABLE HALOCARBONS	VOLATILE ORGANICS (EPA 8260)	SEMI-VOLATILE ORGANICS	OIL & GREASE	LUFT METALS (5)	CAM 17 METALS	PCBs & PESTICIDES	ORGANOPHOSPHORUS PESTICIDES	FUEL OXYGENATES	Pb (TOTAL or DISSOLVED)	TPH-G/BTEX/5 OXY'S/HVOC's (EPA 8260)	LEAD	Hold		
✓ SB-F 4.5'	8/9/04	1118	S	1																	X	01
✓ SB-F 9.5'		1121	S	1		X												X			X	02
✓ SB-G 4.5'		1354	S	1																	X	03
✓ SB-G 9.5'		1400	S	1		X												X			X	04
✓ SB-G 14.5'		1400	S	1																	X	05
✓ SB-H 4.5'		1207	S	1																	X	06
✓ SB-H 9.5'		1212	S	1																	X	07
✓ SB-H 14.5'		1217	S	1		X												X			X	08
✓ SB-H 19.0'		1230	S	1																	X	09
✓ MW-1 4.5'		0931	S	1																	X	10
✓ MW-1 9.5'		0936	S	1																	X	11

RELINQUISHED BY:
Robert E. Kitey 9:15
(signature) (time)

RECEIVED BY:

(signature) (time)

RELINQUISHED BY:
~~_____
(signature) (time)~~

RECEIVED BY LABORATORY:
Philip Richoy 0915
(signature) (time)

COMMENTS:

Robert E. Kitey 8-12-04
(printed name) (date)

~~_____
(printed name) (date)~~

~~_____
(printed name) (date)~~

PHILIP RICHROY 081204
(printed name) (date)

TURN AROUND TIME

Company-
ASE

~~Company-~~

~~Company-~~

Company-
KIFF ANALYTICAL

STANDARD 24Hr 48Hr 72Hr

OTHER:

39598

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853


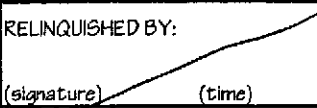
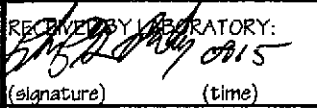
Chain of Custody

PAGE 2 OF 3

SAMPLER (SIGNATURE) 

PROJECT NAME KIM JOB NO. _____
ADDRESS W. GRAND, OAKLAND

ANALYSIS REQUEST					TPH-GAS / MTBE & BTEX	TPH-DIESEL W/ Silica Gel Cleanup	TPH-MINERAL SPIRITS W/ Silica Gel Cleanup	PURGEABLE HALOCARBONS	VOLATILE ORGANICS (EPA 8260)	SEMI-VOLATILE ORGANICS	OIL & GREASE	LUFT METALS (5)	CAM 17 METALS	PCBs & PESTICIDES	ORGANOPHOSPHORUS PESTICIDES	FUEL OXYGENATES	Pb (TOTAL or DISSOLVED)	TPH-G/BTEX/5 OXY'S/ Hvocs (EPA 8260)	LEAD	HOLD	
SPECIAL INSTRUCTIONS:	SAMPLE ID.	DATE	TIME	MATRIX																	
	✓ MW-1 14.0'	8/4/04	0744	S	1	X												X			12
	✓ MW-1 19.5'		0950	S	1															X	13
	✓ MW-1 24.5'		0958	S	1															X	14
	✓ MW-2 4.5'		1043	S	1															X	15
	✓ MW-2 9.5'		1049	S	1	X												X			16
	✓ MW-2 14.5'		1115	S	1															X	17
	✓ MW-3 4.5'		1317	S	1															X	18
	✓ MW-3 9.5'		1322	S	1															X	19
	✓ MW-3 14.5'		1327	S	1	X												X			20
	✓ MW-3 19.5'		1337	S	1															X	21
	✓ MW-3 23.5'		1140	W	5	X												X			22

RELINQUISHED BY:  (signature) (time)	RECEIVED BY: (signature) (time)	RELINQUISHED BY:  (signature) (time)	RECEIVED BY LABORATORY:  (signature) (time)	COMMENTS: TURN AROUND TIME STANDARD 24hr 48hr 72hr OTHER:
Robert E. Kiley 8-12-04 (printed name) (date)	 (printed name) (date)	 (printed name) (date)	PHILIP RICHTER 08 12 04 (printed name) (date)	
Company- ASE	Company-	Company-	Company- KIFF ANALYTICAL	



Report Number : 40135

Date : 9/21/2004

Damian Hriciga
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 3 Water Samples
Project Name : KIM
Project Number :

Dear Mr. Hriciga,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 40135

Date : 9/21/2004

Subject : 3 Water Samples
Project Name : KIM
Project Number :

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-2.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples MW-1 and MW-3. These hydrocarbons are higher boiling than typical diesel fuel.

The Method Reporting Limit for Chloromethane has been increased due to the presence of an interfering compound for sample MW-3.

The Method Reporting Limit for Bromodichloromethane has been increased due to the presence of an interfering compound for sample MW-2.

Approved By:

A handwritten signature in black ink, appearing to read "Joe Kiff".

Joe Kiff



Report Number : 40135

Date : 9/21/2004

Project Name : **KIM**

Project Number :

Sample : **MW-1**

Matrix : Water

Lab Number : 40135-01

Sample Date :9/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	150	50	ug/L	M EPA 8015	9/17/2004
Octacosane (Diesel Surrogate)	111		% Recovery	M EPA 8015	9/17/2004

Sample : **MW-2**

Matrix : Water

Lab Number : 40135-02

Sample Date :9/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1000	1000	ug/L	M EPA 8015	9/16/2004
Octacosane (Diesel Surrogate)	117		% Recovery	M EPA 8015	9/16/2004

Sample : **MW-3**

Matrix : Water

Lab Number : 40135-03

Sample Date :9/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	100	50	ug/L	M EPA 8015	9/17/2004
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	9/17/2004

Approved By:


Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 40135

Date : 9/21/2004

Sample : MW-1

Project Name : KIM

Project Number :

Lab Number : 40135-01

Date Analyzed : 9/20/2004

Matrix : Water

Sample Date : 9/14/2004

Analysis Method: EPA 8260B


Parameter	Measured Value	MRL ¹	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	0.89	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
TPH as Gasoline	< 50	50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Toluene - d8 (Surr)	99.4		% Recovery
4-Bromofluorobenzene (Surr)	94.0		% Recovery
Dibromofluoromethane (Surr)	105		% Recovery
1,2-Dichloroethane-d4 (Surr)	106		% Recovery

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



 Joel Kiff



Report Number : 40135

Date : 9/21/2004

Sample : MW-2

Project Name : KIM

Project Number :

Lab Number : 40135-02

Date Analyzed : 9/20/2004

Matrix : Water

Sample Date : 9/14/2004

Analysis Method: EPA 8260B

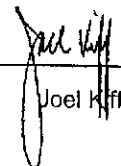
Parameter	Measured Value	MRL ¹	Units
Benzene	56	1.5	ug/L
Toluene	2.6	1.5	ug/L
Ethylbenzene	87	1.5	ug/L
Total Xylenes	190	1.5	ug/L
Methyl-t-butyl ether (MTBE)	15	1.5	ug/L
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L
Tert-Butanol	< 7.0	7.0	ug/L
TPH as Gasoline	6100	150	ug/L
Chloromethane	< 1.5	1.5	ug/L
Vinyl Chloride	< 1.5	1.5	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 1.5	1.5	ug/L
Trichlorofluoromethane	< 1.5	1.5	ug/L
1,1-Dichloroethene	< 1.5	1.5	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 1.5	1.5	ug/L
1,1-Dichloroethane	< 1.5	1.5	ug/L
cis-1,2-Dichloroethene	1.5	1.5	ug/L
Chloroform	< 1.5	1.5	ug/L
1,1,1-Trichloroethane	< 1.5	1.5	ug/L
1,2-Dichloroethane	< 1.5	1.5	ug/L
Carbon Tetrachloride	< 1.5	1.5	ug/L
Trichloroethene	< 1.5	1.5	ug/L
1,2-Dichloropropane	< 1.5	1.5	ug/L
Bromodichloromethane	< 5.0	5.0	ug/L
cis-1,3-Dichloropropene	< 1.5	1.5	ug/L
trans-1,3-Dichloropropene	< 1.5	1.5	ug/L
1,1,2-Trichloroethane	< 1.5	1.5	ug/L
Tetrachloroethene	< 1.5	1.5	ug/L
Dibromochloromethane	< 1.5	1.5	ug/L
Chlorobenzene	< 1.5	1.5	ug/L
Bromoform	< 1.5	1.5	ug/L
1,1,2,2-Tetrachloroethane	< 1.5	1.5	ug/L
1,3-Dichlorobenzene	< 1.5	1.5	ug/L

Parameter	Measured Value	MRL ¹	Units
1,4-Dichlorobenzene	< 1.5	1.5	ug/L
1,2-Dichlorobenzene	< 1.5	1.5	ug/L
1,2-Dibromoethane	< 1.5	1.5	ug/L
Toluene - d8 (Surr)	88.4		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery
Dibromofluoromethane (Surr)	101		% Recovery
1,2-Dichloroethane-d4 (Surr)	101		% Recovery

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800


Joel Kiff



Report Number : 40135

Date : 9/21/2004

Sample : MW-3

Project Name : KIM

Project Number :

Lab Number : 40135-03

Date Analyzed : 9/20/2004

Matrix : Water

Sample Date : 9/14/2004

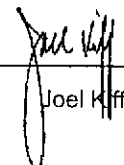
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL ¹	Units	Parameter	Measured Value	MRL ¹	Units
Benzene	< 0.50	0.50	ug/L	1,4-Dichlorobenzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L	1,2-Dichlorobenzene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L	1,2-Dibromoethane	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L				
Methyl-t-butyl ether (MTBE)	5.8	0.50	ug/L	Toluene - d8 (Surr)	97.3		% Recovery
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	4-Bromofluorobenzene (Surr)	97.2		% Recovery
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	Dibromofluoromethane (Surr)	105		% Recovery
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	1,2-Dichloroethane-d4 (Surr)	97.8		% Recovery
Tert-Butanol	< 5.0	5.0	ug/L				
TPH as Gasoline	< 50	50	ug/L				
Chloromethane	< 0.80	0.80	ug/L				
Vinyl Chloride	< 0.50	0.50	ug/L				
Bromomethane	< 20	20	ug/L				
Chloroethane	< 0.50	0.50	ug/L				
Trichlorofluoromethane	< 0.50	0.50	ug/L				
1,1-Dichloroethene	< 0.50	0.50	ug/L				
Methylene Chloride	< 5.0	5.0	ug/L				
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L				
1,1-Dichloroethane	< 0.50	0.50	ug/L				
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L				
Chloroform	< 0.50	0.50	ug/L				
1,1,1-Trichloroethane	< 0.50	0.50	ug/L				
1,2-Dichloroethane	0.77	0.50	ug/L				
Carbon Tetrachloride	< 0.50	0.50	ug/L				
Trichloroethene	< 0.50	0.50	ug/L				
1,2-Dichloropropane	< 0.50	0.50	ug/L				
Bromodichloromethane	< 0.50	0.50	ug/L				
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L				
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L				
1,1,2-Trichloroethane	< 0.50	0.50	ug/L				
Tetrachloroethene	< 0.50	0.50	ug/L				
Dibromochloromethane	< 0.50	0.50	ug/L				
Chlorobenzene	< 0.50	0.50	ug/L				
Bromoform	< 0.50	0.50	ug/L				
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L				
1,3-Dichlorobenzene	< 0.50	0.50	ug/L				

1) MRL = Method reporting limit

Approved By:

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800


Joel Kiff