AEI CONSULTANTS
Environmental & Civil Engineering Services

3210 Old Tunnel Road, Suite B, Lafayette, CA 94549-4157
Phone: (925) 283-6000 Fax: (925) 283-6121

6419/307

July 24, 2002

JUL 25 2002

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: 1450 Fruitvale Avenue
Oakland, California
AEI Project No. 5183

Dear Mr. Chan:

Enclosed are the site plans you requested, showing the proposed building superimposed over recently collected soil and groundwater sample analytical data. As you know, our client would like to proceed with redevelopment of the property with the proposed building in a timely manner. Currently we are asking the following questions of your office:

1. With respect to the proposed building, with the ACHCSA accept the current documentation as sufficient to approve of commercial redevelopment of the property? Please note that the building, as proposed, will be "slab on grade" with no basement and will have a vapor barrier beneath the slab. If necessary, more detailed engineering drawings can be provided.
2. With respect to protection of groundwater resources, will the ACHCSA accept monitored natural attenuation as a remedial alternative for the minimal mass of hydrocarbons remaining?

Please refer to the Groundwater Investigation Report, dated July 5, 2002 for a complete history of the site and for detailed figures and tabulated sample analytical data. Thank you again for your time and please call me at (925) 283-6000 if you have any questions.

Sincerely,

Peter McIntyre
Project Manager, Geologist

Enclosures: Site Plans

cc: Mr. Bill Phua, c/o Mr. John Jay and Mr. Ken Phares
Jay-Phares Corporation
10700 Foothill Boulevard, Suite 200
Oakland, CA 94506

- detailed Oakland RBCA evaluate TPH also
- utilities survey
- V of other ether oxy's [illegible]

BILL PHUA
CEO

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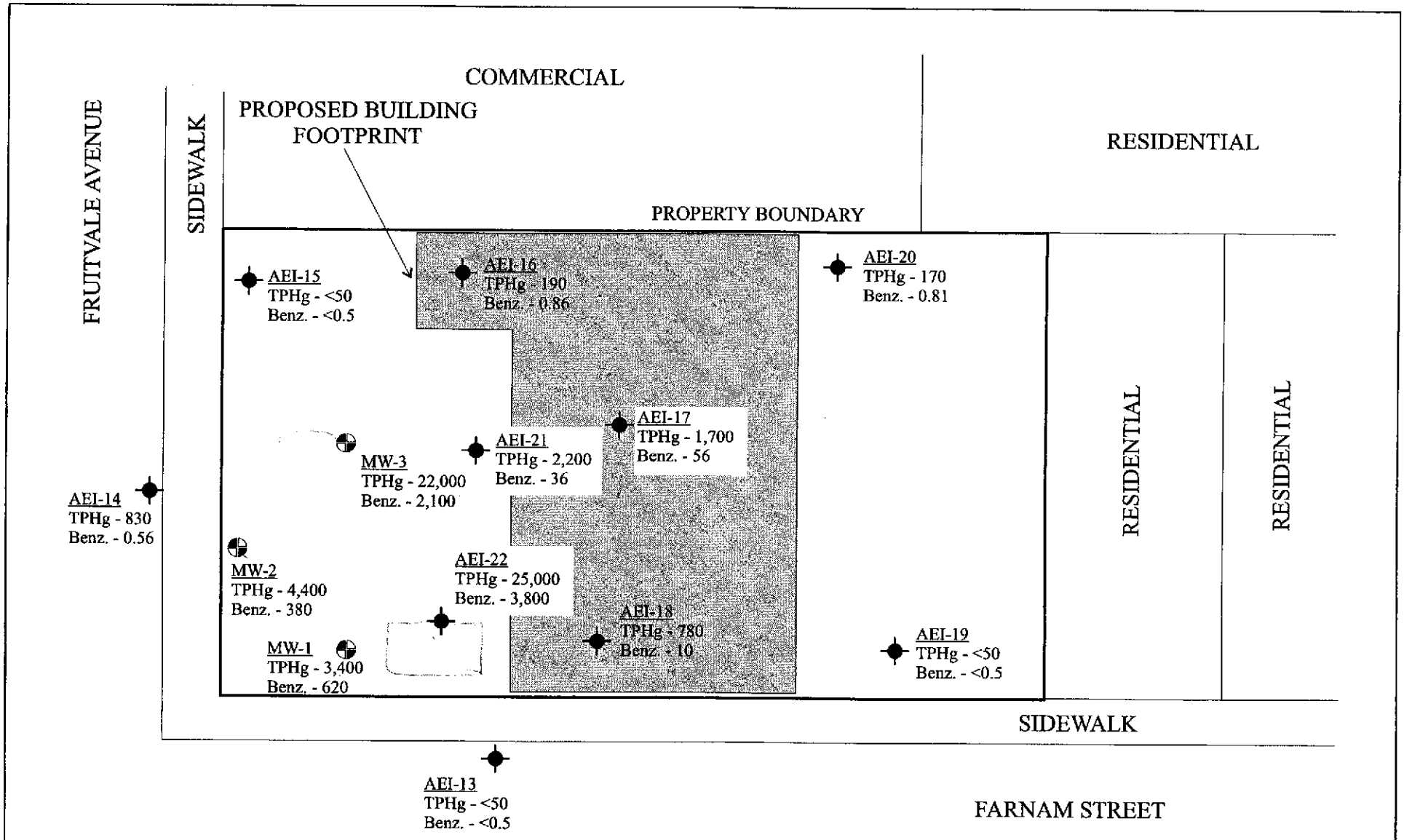
821 Jefferson St. • Oakland, CA 94607
Fax: (510)836-3430



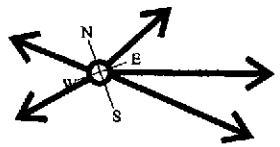
KEY

- Existing 2" Monitoring Wells
- Temporary Borings: June 2002

Sample Results in µg/l.

SCALE: 1" = 30'

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM (½ in = 1 episode)



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Revised 7/24/02

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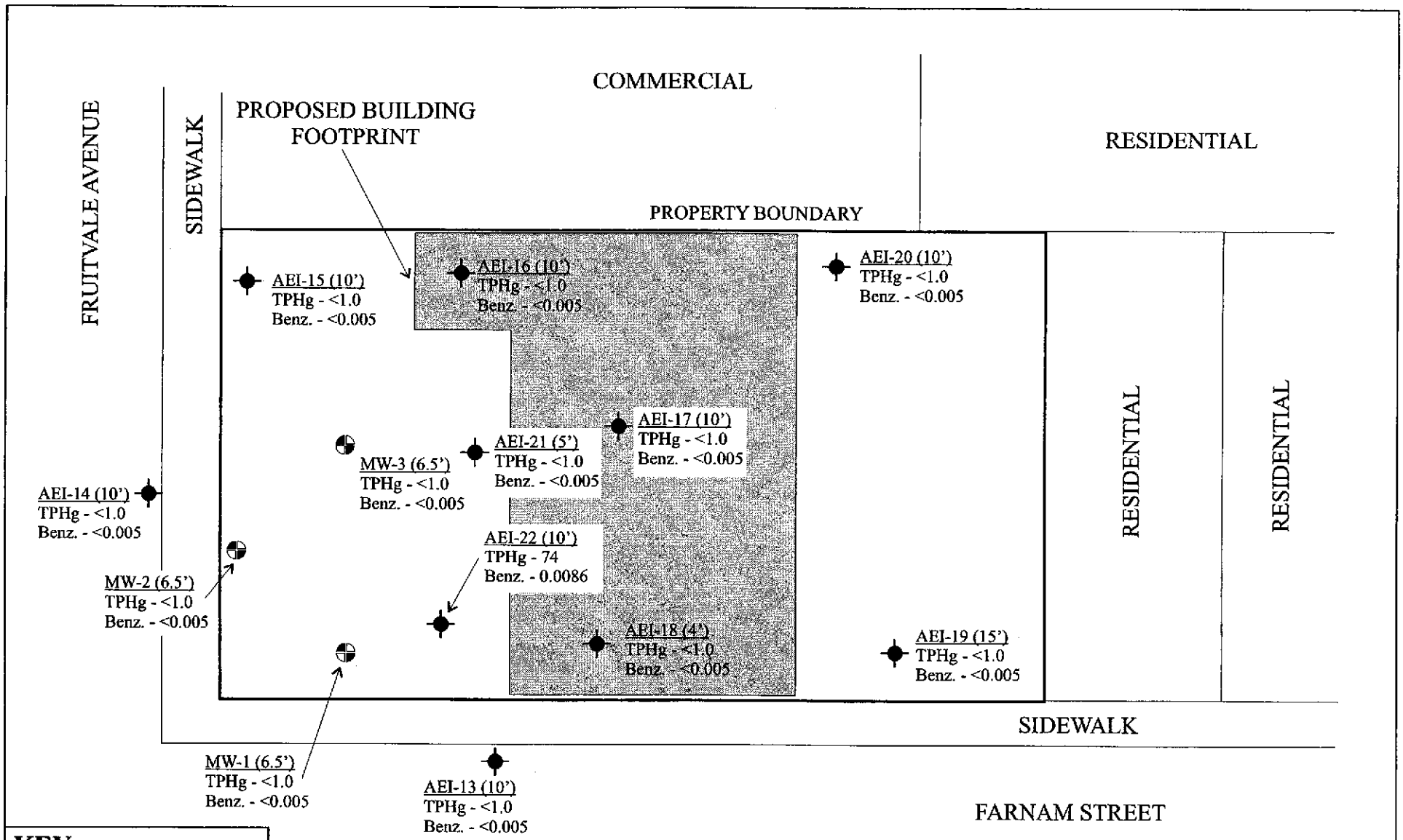
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

GROUNDWATER SAMPLE ANALYTICAL RESULTS - JUNE 2002: PROPOSED BUILDING SUPERIMPOSED

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

FIGURE 1
AEI PROJECT NO 5183



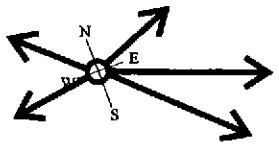
KEY

- Existing 2" Monitoring Wells
- Temporary Borings: June 2002

Highest concentration above water table shown (with depth in parenthesis) Soil sample data in mg/kg.

SCALE: 1" = 30'

GROUNDWATER FLOW DIRECTION
ROSE DIAGRAM (½ in = 1 episode)



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Revised 7/24/02

AEI CONSULTANTS

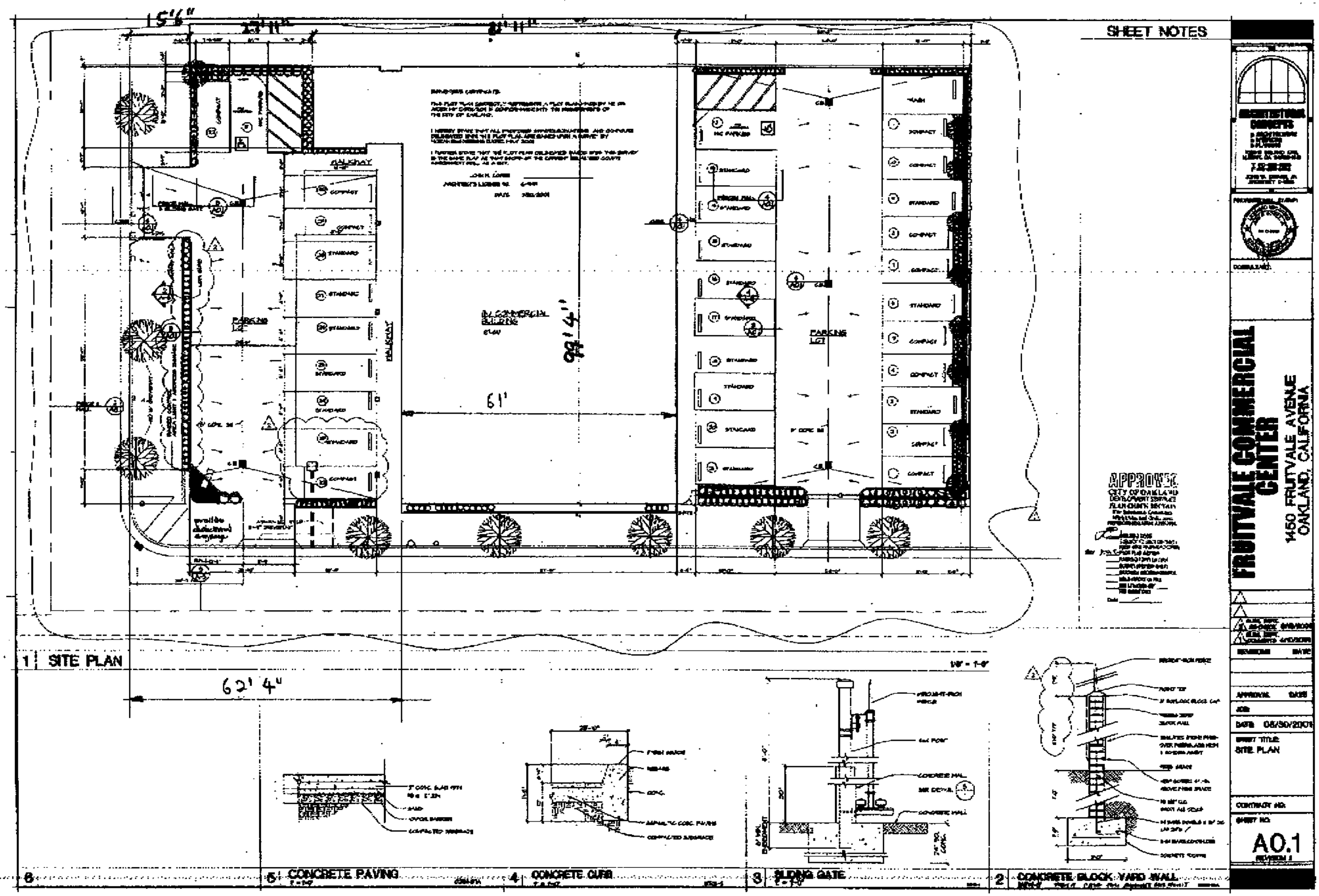
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

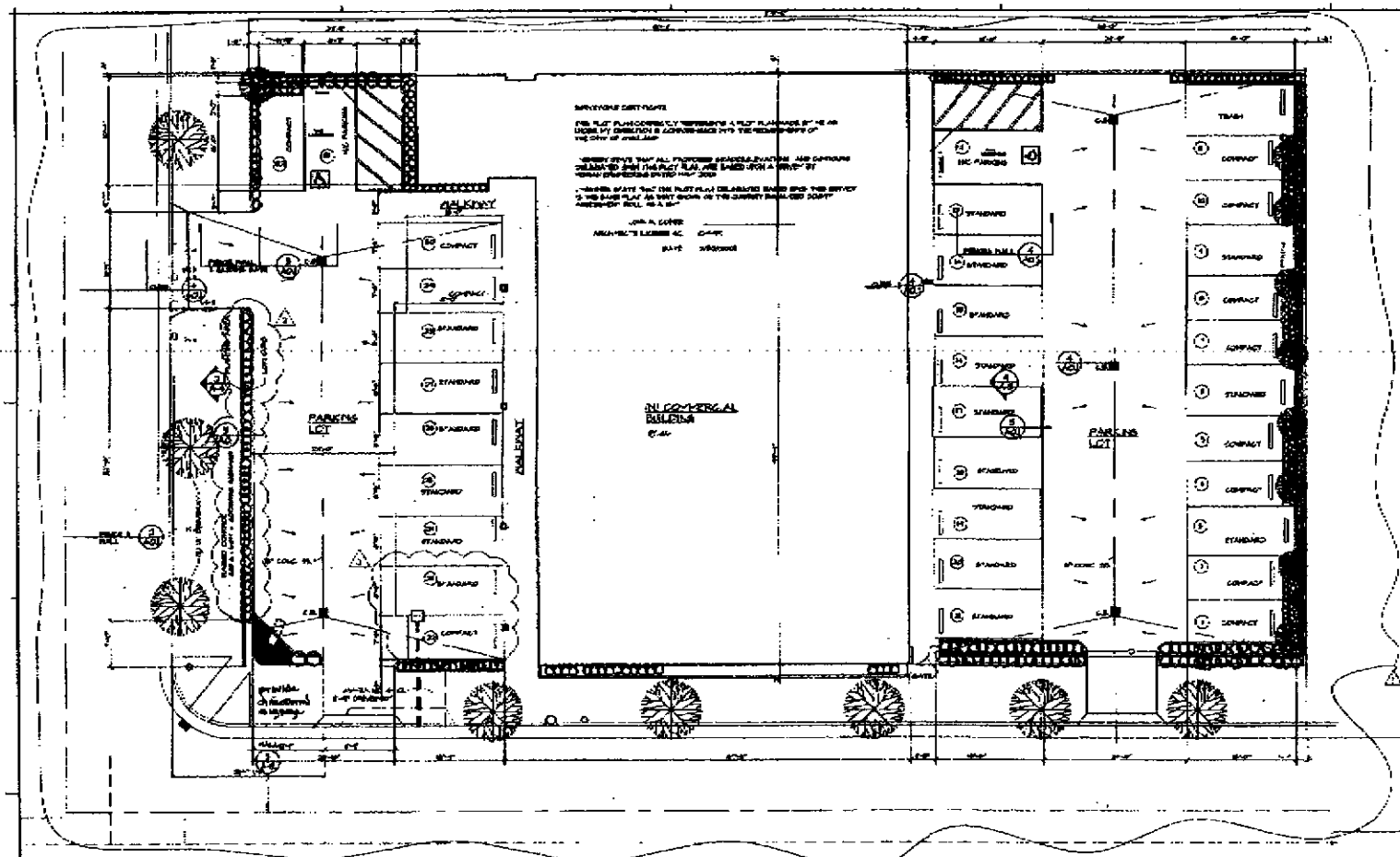
SOIL SHALLOW SOIL SAMPLE ANALYTICAL RESULTS: PROPOSED BUILDING SUPERIMPOSED

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

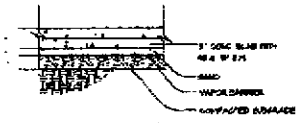
FIGURE 2
AEI PROJECT NO 5183

SENT BY: OAKLAND FLOWER MARKET; 510 836 3430; JUL-18-02 15:46; PAGE 1/2





1 SITE PLAN



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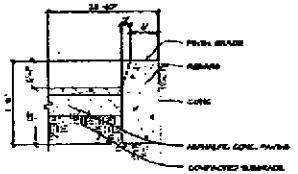
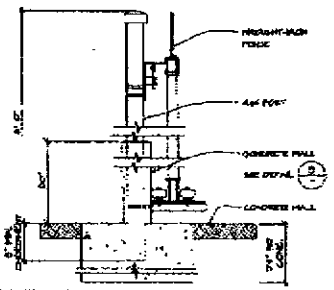
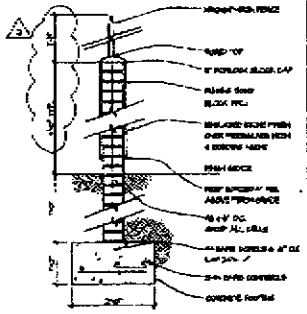
5 CONCRETE PAVING



4 CONCRETE CURB



3 SLIDING GATE



2 CONCRETE BLOCK YARD WALL

FRUITVALE COMMERCIAL CENTER
1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

DATE: 05/30/2001
SHEET TITLE: SITE PLAN
SHEET NO. A0.1

July 5, 2002

GROUNDWATER INVESTIGATION REPORT

1450 Fruitvale Avenue
Oakland, California

AEI Project No. 5183

Prepared For

Fruitvale-Farnam Associates, LLP
141 Woodland Way
Piedmont, CA 94611

Prepared By

AEI Consultants
3210 Old Tunnel Road, Suite B
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(925) 283-6000

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AEI

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Mr. Bill Phua and the Fruitvale-Farnam Associates, LLC, owners of the property located at 1450 Fruitvale Avenue in Oakland, California (Figures 1 & 2). The project was performed in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) to further investigate the release of petroleum hydrocarbons at the property.

Sample analytical data obtained during this project has revealed that the extent of hydrocarbon impacted groundwater is limited to beneath the property, as is evidenced by low to non-detect hydrocarbon concentrations at the outer extent of the investigation. In addition, a sensitive receptor survey of the area has not revealed any production wells, surface waters, or other offsite receptors for hydrocarbons released from this property. Based on these results, monitored attenuation of the plume is being recommended as the long-term method of remediation for the release.

2.0 SITE DESCRIPTION AND BACKGROUND

The subject property (hereinafter referred to as the "site" or "property") is located on the eastern corner of Fruitvale Avenue and Farnam Street in a residential and commercial area of the City of Oakland. The property is approximately 16,600 square feet in size. Until December 2001, the site was developed with a three-story building that occupyed approximately one-third of the parcel. The property is currently vacant and un-surfaced.

The site had reportedly been developed as a gas station in 1950 by Atlantic Richfield Oil Company (currently known as ARCO) and operated until at least 1983. There were four underground storage tanks located along the southern property boundary. The fuel dispenser island was located on the northeast corner of the former parking lot. The gas station was demolished and the existing warehouse was constructed after 1983.

Records were reviewed regarding the location of the tanks and underground piping. Although no formal tank removal records were available, it was suggested that the former tank hold was along Farnam Street, as shown in Figure 3. Following on an inconclusive geophysical survey, AEI was retained to excavate the suspected tank hold, and confirm the presence or absence of any tanks. No tanks were found, and samples collected from the sidewalls of the excavation contained very low or non-detect hydrocarbon concentrations.

Two soil-boring projects were performed between 1998 and 1999 to determine whether a fuel release had occurred and to what extent soil or groundwater had been impacted. Refer to Figure 3 and Tables 5 & 6 for the locations and results of these soil-boring projects. Three groundwater

monitoring wells were then installed. Concentrations of TPH as gasoline and benzene have been found in the soil up to 360 mg/kg and 0.59 mg/kg respectively. Based on soil analytical data from the borings and the lack of hydrocarbons detected in sidewall samples from an exploratory excavation dug in the former tank location, the release appears to have occurred along the product piping or in the former dispenser location. Refer to Figure 3 for the locations of the existing wells.

3.0 GEOLOGY AND HYDROLOGY

According to logs of the borings completed by AEI, the near surface sediments generally consist of mixed silty, sandy, and gravely clays, which were encountered to boring termination, up to 35 feet below ground surface (bgs). Generally, sands and gravels increased with depth. Clean sand stringers ranging from several inches to several feet thick were encountered locally in several borings in the 10 to 15 feet bgs range. Refer to Appendix B for detailed logs of the recent borings.

Groundwater was not initially encountered in the recent borings; however, evidence of saturation was observed in the 15 to 25 feet bgs range. Greenish sandy clays and clays, present generally below 12 to 15 feet bgs were observed in a majority of the borings. This color change from brown / dark brown clays in this depth range is indicative of clays that are saturated. The greenish color is caused by reduced iron (Fe II), which is stable in a saturated, low oxygen environment. Along with the water level measurements in the permanent wells, the color change further supports the argument that the clays are saturated. Groundwater was present in each boring, ranging from 13 to 35 feet bgs, within several hours of drilling, reflecting the low hydraulic conductivity of the clays.

The site is located at 42 feet above mean sea level (msl). The site is flat; however, the topography of the area slopes gently to the southwest. Average groundwater elevations for the three wells ranged from 25.36 feet above msl in October 2000 to 33.54 feet above msl in March 2002. Based on these measurements, groundwater beneath the site generally flows in a southeasterly direction; however during March and June 2002, northwesterly and southwesterly flow directions were measured, respectively. Generally the hydraulic gradient has been on the order of 10^{-2} ft/ft. Historical groundwater level measurements are presented in Table 3. A rose diagram of groundwater flow directions is presented on Figure 3.

4.0 PERMITS

Drilling permits were obtained from the Alameda County Public Works Departments and encroachment permits were obtained from the City of Oakland for work in the public right of way. Refer to Appendix A for copies of the permitting documentation. Underground Service Alert (USA) was notified to identify public utilities in the areas of the borings.

5.0 DRILLING AND SAMPLE COLLECTION

[redacted] advanced with a Geoprobe® 6600 direct push drilling rig. [redacted] s. Soil was continuously collected in 5' long acrylic liners.

A hydrocarbon odor was observed in many of the borings. Soils were screened in the field with a portable organic vapor meter. Refer to the boring logs for field observations. Soil samples were cut at the selected depths and the liners were sealed with Teflon tape and plastic end caps, labeled, and stored over ice to await transportation to the laboratory.

Upon observation of saturated soils, temporary well casing was installed to allow for groundwater collection. Generally groundwater was collectable between 4 and 24 hours after setting the casing, however groundwater generated more rapidly in borings AEI-16, AEI-21, and AEI-22. Water levels were measured, and samples were collected using a stainless steal bailer. Groundwater samples were sealed in VOA vials, labeled, and stored over ice.

Following the collection of groundwater samples, the PVC casing was removed and each borehole was backfilled with neat cement grout.

6.0 MONITORING WELL SAMPLING

The seventh episode of groundwater monitoring and sample collection of all wells occurred on June 11, 2002. Prior to the collection of samples, the wells were opened and water levels from the top of the casings were measured with an electric water level meter. Each well was then purged and sampled. Approximately 3 well volumes of water were purged from each monitoring well using a submersible purge pump. During the purging of the wells, the following parameters were monitored: temperature, pH, and specific conductivity. Once water volumes returned to within 90% of their original volume, a sample was collected from each of the wells. Refer to Appendix C for Groundwater Well Sampling Field Forms, which include details on the sampling of each well.

The groundwater samples were collected from each well using clean disposable bailers. Water was poured from the bailers into 40 ml VOA vials. The samples were labeled and placed on ice and transported under chain of custody protocol for analysis to McCampbell Analytical Inc. (DOHS Certification Number 1644) of Pacheco, California.

7.0 SAMPLE ANALYSES

A total of 16 (sixteen) soil samples and ten (10) groundwater samples were analyzed from the drilling project, along with the groundwater sample collected from the three monitoring wells. All samples were analyzed for TPH as gasoline by EPA method 8015M and BTEX (benzene, toluene, ethyl-benzene, and xylenes) and MTBE by EPA method 602/8020. A total of one soil sample and seven groundwater samples were then analyzed by EPA method 8260 to confirm either detected or elevated detection limits of MTBE.

TPH as gasoline was detected in seven of the sixteen soil samples analyzed. The highest concentration detected were in samples AEI-17 20' and AEI-18 14', both at 290 mg/kg. Benzene was detected in three of the soil samples, up to 0.84 mg/kg. MTBE was not detected in any of the soil samples above laboratory detection limits.

[redacted] The highest concentrations of MTBE were detected in well MW-2 at 23 µg/l, and in boring AEI-15 at 14 µg/l. Analyses of samples collected from the wells were consistent with previous episodes, with TPH as gasoline ranging from 3,400 µg/l to 22,000 µg/l, and benzene from 620 µg/l and 2,100 µg/l.

Recent soil and groundwater sample analytical data are summarized in Tables 1, 2 & 4. Refer to Appendix D for laboratory analytical reports with details on reporting limits, analytical methodology, quality assurance / quality control (QA/QC) results, and chain-of-custody documents.

8.0 RECEPTOR SURVEY

According to the USGS Oakland East topographic map, the nearest surface water body is the Brooklyn Basin Tidal Canal, located approximately 3,500 feet southwest of the site. Two small surface creeks, Sausal Creek and Peralta Creek, are located in the area; however, both are over 2,600 feet to the north of the site at their closest point.

The Department of Water Resources (DWR) was contacted to review well reports on behalf of AEI. The search was performed for all wells, excluding shallow monitoring wells, within approximately ½ mile of the site. A total of five (5) wells were identified during the search. Due to confidentiality

law governing well driller's reports, copies are not included in this report; however, they can be sent to the ACHCSA if requested from their office. The following table summarizes the result of the survey.

Well Survey Results

Location	Direction / Distance from site (feet)	Depth (feet)	Use
3101 Chapman St.	South SW / 2,400	20 (max)	5 temporary borings
2928 Chapman St.	South SW / 2,500	108	Unknown
1601 39th Avenue	East SE / 2,300	30	Irrigation
29th Avenue @ E. 14th	West NW / 1,300	381	Unknown
Unknown	Unknown	345	Unknown

Of the five wells identified, four are known to be over 1,200 feet from the site. The well of unknown location was reportedly drilled to 345 feet bgs. No screen interval details are available; however, with a well drilled to that depth, it is unlikely to be screened within the shallowest aquifer.

Based on the distance and direction of the wells and surface waters from the site and the results of recent groundwater sample analyses, it is concluded that these wells are not potential receptors of the release.

9.0 SUMMARY AND CONCLUSIONS

This investigation included the analyses of soil and groundwater samples collected from an additional 10 soil borings around the release area. The investigation was designed to further define the extent of hydrocarbon impacted groundwater and assess whether there were any other areas of impacted soil beyond those already identified. The goal of the ongoing investigation of the release has been to determine whether the site will qualify as a low risk groundwater case or if active site remediation is necessary.

Based on the results of soil samples analyzed during this and previous projects, it is evident that minimal hydrocarbon source material is present in the unsaturated soils, from the surface to approximately 15 feet bgs. Generally, soil samples that have had high concentrations of TPH as gasoline (> 100 mg/kg) have had relatively low to non-detect concentrations of specific BTEX compounds and have been at or below the measured water table. This depletion of BTEX is indicative of an older release that has been "washed" of the most soluble fraction of the gasoline.

Although the concentrations of hydrocarbons in the three monitoring wells remain elevated, samples collected from the recent borings have shown that the plume has not extended significantly

from the site. Benzene and toluene were not detected at greater than 1 µg/l and 2.7 µg/l, respectively, in the most outlying borings of the investigation. Limited lateral migration of the hydrocarbon plume is evidence of very low lateral transmissivity through the saturated zone. This is supported by the high annual variations in water table elevations, which would not occur if groundwater moved freely beneath the site in a highly permeable aquifer.

Based on the fact that the release occurred nearly 20 years ago (the tank removal could have occurred no later than 1983) and the limited extent of impacted soil and groundwater as discussed above, the plume is not expected to expand beyond its current dimensions.

A receptor survey was performed as part of this project to determine whether any complete groundwater exposure pathways are present at or around the site. With the exception of the constructed monitoring wells, no other complete groundwater pathways exist on the site. Any future water uses on-site would be provided by municipal sources. The survey of off-site groundwater receptors did not reveal any surface waters or production wells that could be considered complete groundwater pathways with respect to this release.

Active remediation of the limited hydrocarbon plume does not appear to be warranted and no further investigation of the extent of the plume is recommended at this time. Although it is possible that continued monitoring will be required to confirm the stability of the plume, the presence of the release should not prevent commercial development of the property. If a formal risk assessment, such as that outlined by the City of Oakland Public Works Department's Urban Land Redevelopment Program, is requested, sufficient site-specific data should be available to complete such as assessment.

10.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and consulting field that existed at the time and location of the work.

Sincerely,

Peter McIntyre
Project Geologist

Joseph P. Derhake, PE
Senior Project Engineer, Principal

Distributions: Fruitvale-Farnam Associates, LLP
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Mr. John Jay
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Oakland, CA 94506

AEI Files (Project # 5183)

AEI

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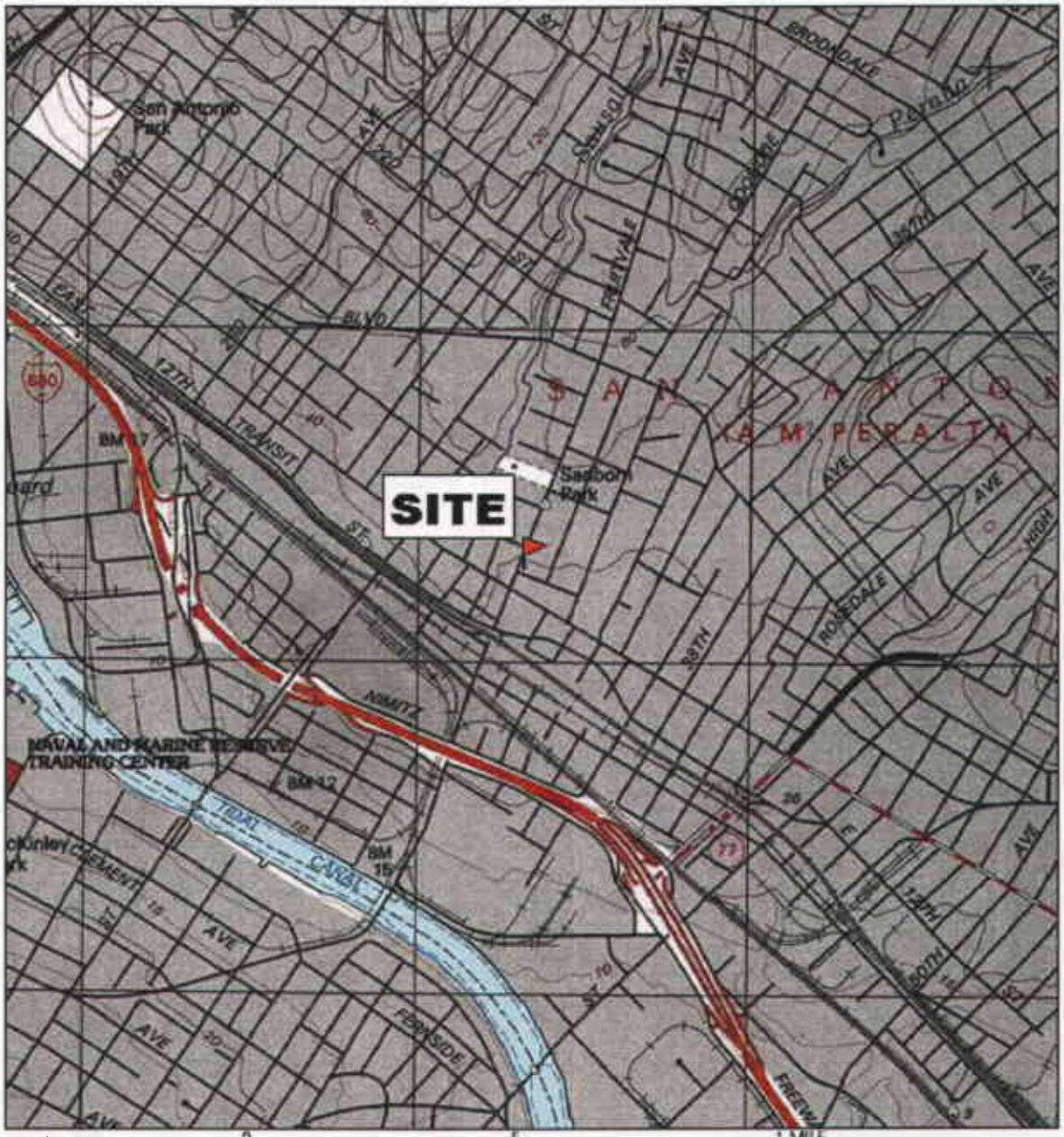
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

SITE AREA MAP

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

FIGURE 1
PROJECT NO. 5183



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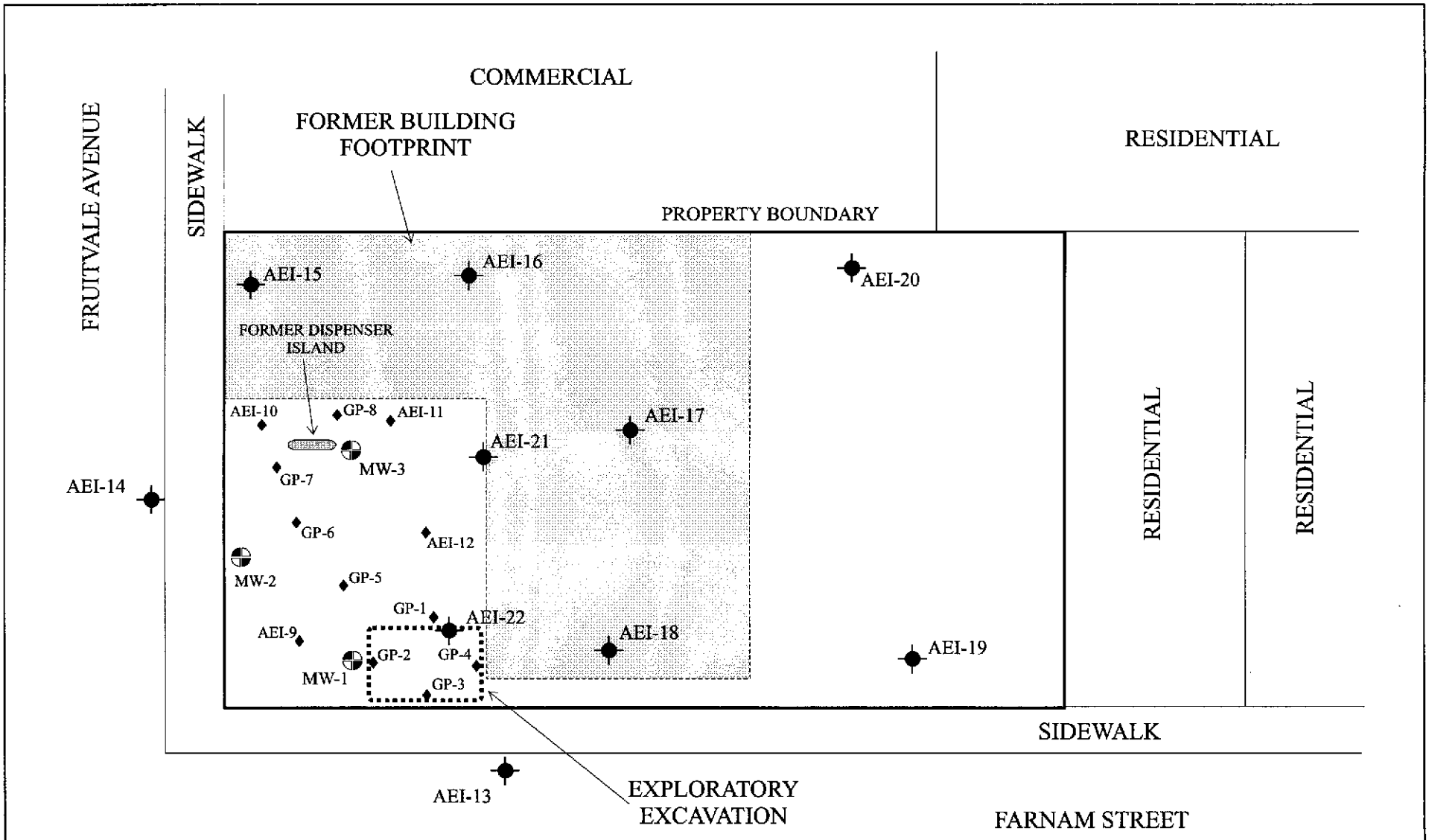
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

SITE LOCATION MAP

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 5183

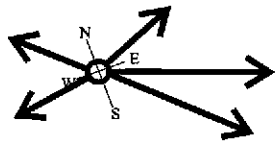


KEY

- Existing 2" Monitoring Wells
- Temporary Borings: 1998-1999
- Temporary Borings: June 2002

SCALE: 1" = 30'

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM (½ in = 1 episode)



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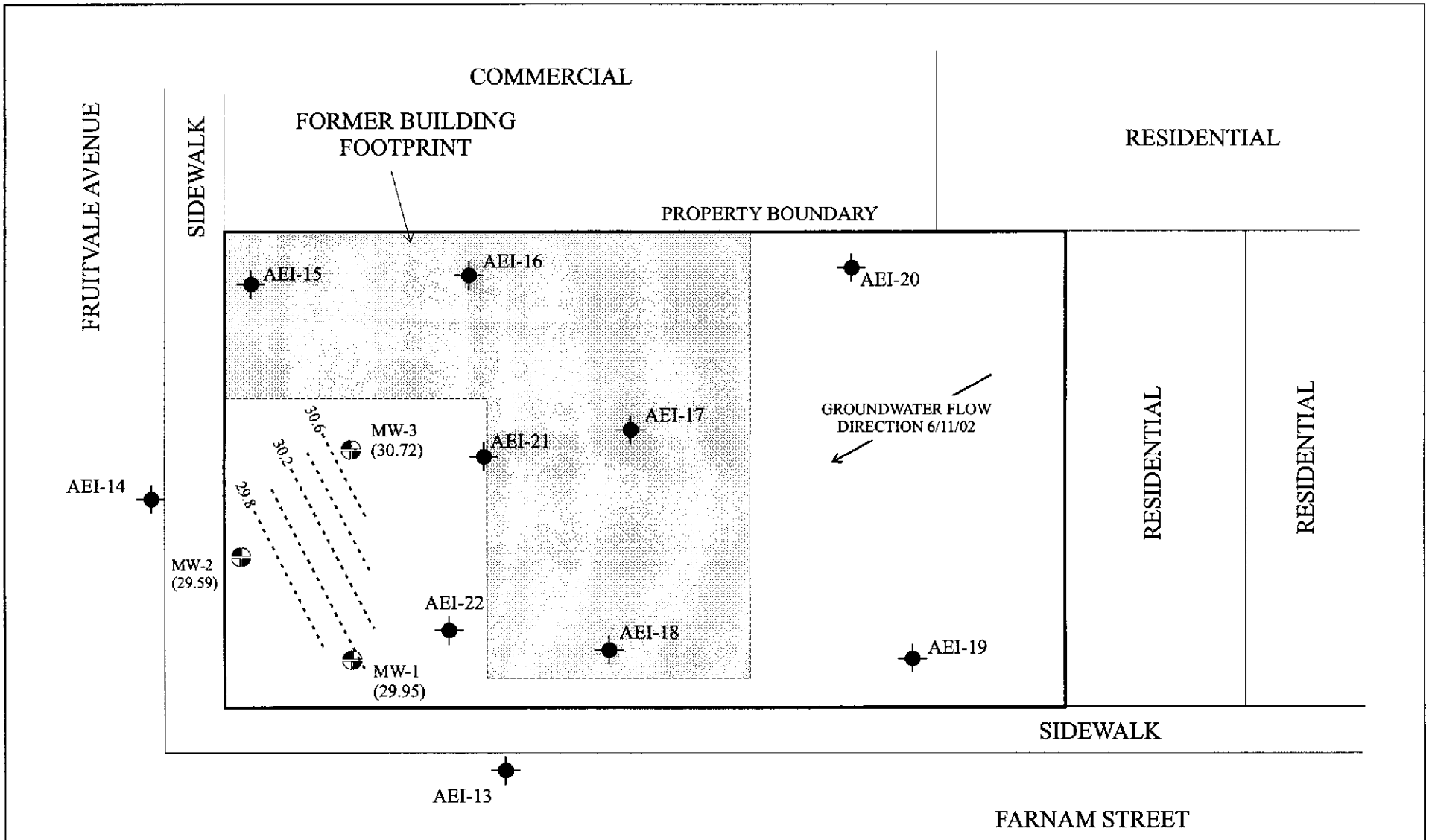
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SITE PLAN

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

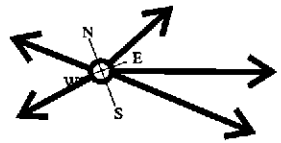
FIGURE 3
AEI PROJECT NO 5183



KEY

- Existing 2" Monitoring Wells
- Temporary Borings: June 2002
- Contour Interval = 0.2 ft amsl
- SCALE: 1" = 30'

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM (½ in = 1 episode)



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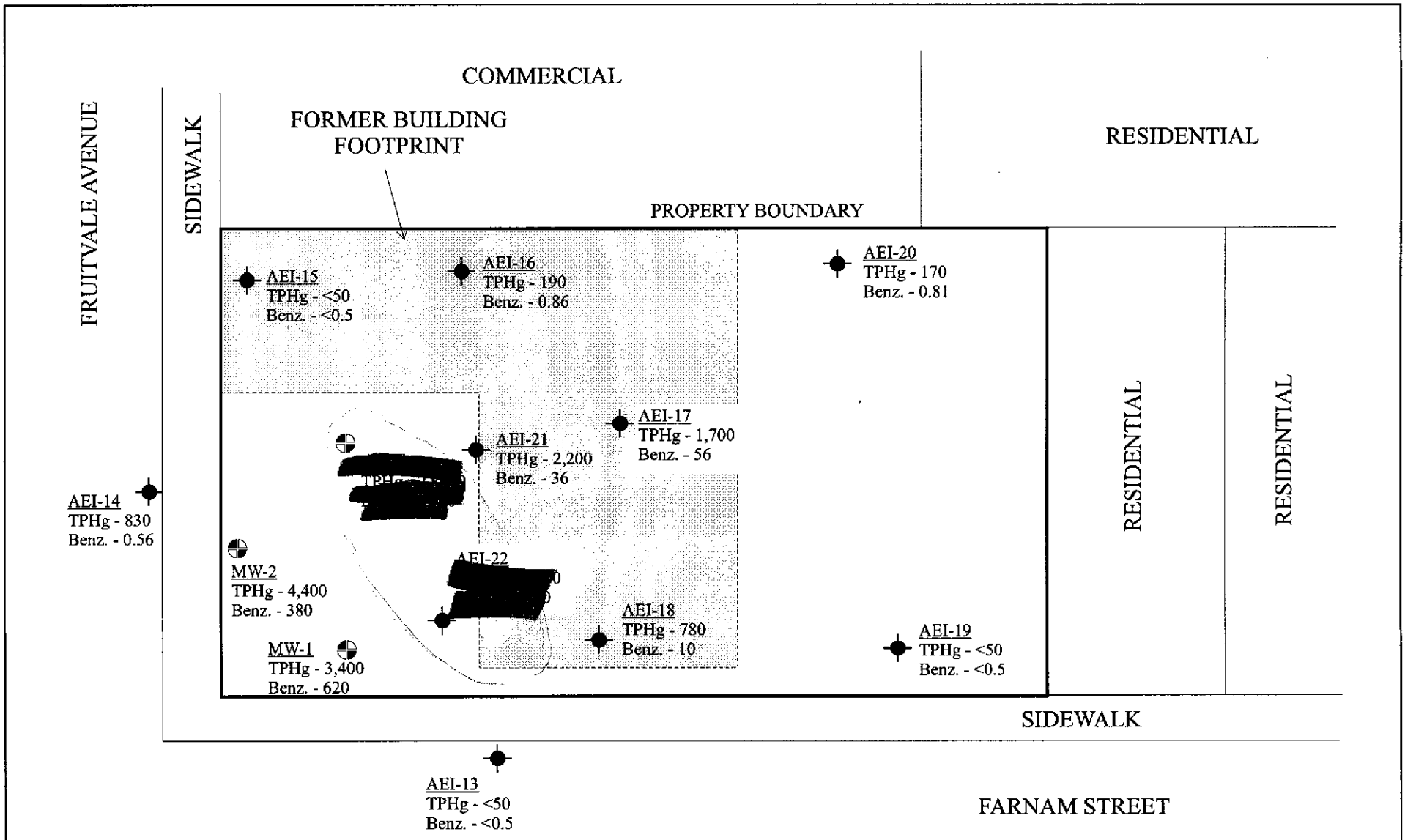
WATER TABLE CONTOURS

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

FIGURE 4
AEI PROJECT NO 5183



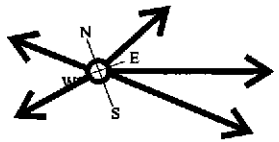
KEY

- Existing 2" Monitoring Wells
- Temporary Borings: June 2002

Sample Results in µg/l.

SCALE: 1" = 30'

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM (½ in = 1 episode)



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AEI CONSULTANTS

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

GROUNDWATER SAMPLE ANALYTICAL RESULTS - JUNE 2002

1450 FRUITVALE AVENUE
OAKLAND, CALIFORNIA

FIGURE 5
AEI PROJECT NO 5183

Table 1
Soil Sample Analytical Data: SB-13 to SB-22

Sample ID	TPH-g mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg
AEI-13 10'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-14 10'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-15 10'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-16 10'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-16 19'	41	<0.2	<0.02	<0.02	0.038	0.079
AEI-17 10'	<1	<0.5	<0.005	<0.005	<0.005	<0.005
AEI-17 20'	290	<0.05	0.84	1.3	1.8	2.8
AEI-18 4'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-18 14'	290	<0.02*	<0.2	0.91	2.3	2.9
AEI-19 15'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-20 10'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-20 20'	42	<0.5	<0.05	0.20	0.12	0.15
AEI-21 5'	<1	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-21 13'	12	<0.05	<0.005	0.090	0.028	<0.005
AEI 22 10'	74	<0.1	0.0086	0.58	0.11	0.26
AEI 22 20'	5	<0.05	0.30	0.016	0.26	0.42
MDL	1.0	0.05	0.005	0.005	0.005	0.005

MDL = Method Detection Limit

mg/kg = milligrams per kilogram (ppm)

- Sample not analyzed for this chemical

TPH-g = Total petroleum hydrocarbons as gasoline

* MTBE by EPA method 8260, all others by 602/8020

Table 2
Groundwater Sample Analytical Data: SB-13 to SB-22

Sample ID	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-Benzene µg/L	Xylenes µg/L
MW-13 W	<50	<5.0	<0.5	<0.5	<0.5	<0.5
MW-14 W	830	<5.0	0.56	2.7	1.2	2.9
MW-15 W	<50	14*	<0.5	<0.5	<0.5	<0.5
MW-16 W	190	<5.0	0.86	1.0	0.75	1.3
MW-17 W	1,700	<0.5*	56	2.5	89	69
MW-18 W	780	<5.0	10	1.1	41	20
MW-19 W	<50	<5.0	<0.5	<0.5	<0.5	<0.5
MW-20 W	170	<5.0	0.81	0.55	7.7	3.1
MW-21 W	2,200	2.8*	36	<5.0	110	58
MW-22 W	25000	<12*	3800	290	1100	1900

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

µg/L = micrograms per liter (ppb)

- Sample not analyzed for this chemical

TPH-g = Total petroleum hydrocarbons as gasoline

* MTBE by EPA method 8260, all others by 602/8020

Table 3
Water Table Data

Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-1	10/16/00	42.13	17.72	24.41
	1/19/01	42.13	9.15	32.98
	4/26/01	42.13	9.40	32.73
	8/3/01	42.13	12.38	29.75
	11/5/01	42.13	16.22	25.91
	3/29/02	42.13	7.96	34.17
	6/11/02	**42.13**	**12.18**	**29.95**
MW-2	10/16/00	42.08	14.98	27.10
	1/19/01	42.08	9.00	33.08
	4/26/01	42.08	8.34	33.74
	8/3/01	42.08	11.70	30.38
	11/5/01	42.08	15.08	27.00
	3/29/02	42.08	8.96	33.12
	6/11/02	**42.08**	**12.49**	**29.59**
MW-3	10/16/00	42.55	17.98	24.57
	1/19/01	42.55	10.90	31.65
	4/26/01	42.55	9.21	33.34
	8/3/01	42.55	12.67	29.88
	11/5/01	42.55	15.90	26.65
	3/29/02	42.55	9.20	33.35
	6/11/02	**42.55**	**11.83**	**30.72**

Episode #	Date	Average Water Table (ft msl)	Change from Previous Episode	Flow direction (gradient)
1	10/16/00	25.36	-	E/SE (0.116)
2	1/19/01	32.57	+7.21	E/NE (0.041)
3	4/26/01	33.27	+0.70	SE (0.034)
4	8/3/01	30.00	-3.27	ESE (0.024)
5	11/5/01	26.52	-3.48	SE (0.033)
6	3/29/02	33.55	+7.03	NW (0.032)
7	**6/11/02**	**30.09**	**-3.46**	**SW (0.040)**

Notes:
All well elevations are measured from the top of the casings
ft msl = feet above mean sea level

Table 4
Monitoring Well Sample Analytical Data

Well/Sample ID	Date Collected	Consultant/ Lab	TPHg µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L
MW-1	10/16/00	AEI/MAI	4,500	<20	560	14	53	62
	01/19/01	AEI/MAI	13,000	<100	790	46	1,100	210
	04/26/01	AEI/MAI	7,500	<30	470	23	720	120
	08/03/01	AEI/MAI	4,500	<10	440	11	55	6.6
	11/05/01	AEI/MAI	1,700	<10	100	6.0	4.6	2.1
	03/29/02	AEI/MAI	9,500	ND<100	880	32	400	59
	06/11/02	**AEI/MAI**	**3,400**	**2.4***	**620**	**9.7**	**75**	**11**
MW-2	10/16/00	AEI/MAI	4,600	<300	380	3.8	95	33
	01/19/01	AEI/MAI	4,200	<10	450	4.7	120	50
	04/26/01	AEI/MAI	5,600	<20	810	12	210	65
	08/03/01	AEI/MAI	2,900	<20	360	3	97	46
	11/05/01	AEI/MAI	2,400	<85	280	3.2	76	25
	03/29/02	AEI/MAI	7,100	ND<100	930	11	220	39
	06/11/02	**AEI/MAI**	**4,400**	**23***	**680**	**8.1**	**160**	**38**
MW-3	10/16/00	AEI/MAI	12,000	<10	570	32	680	1,200
	01/19/01	AEI/MAI	27,000	<200	3,400	110	2,200	2,700
	04/26/01	AEI/MAI	33,000	<200	3,300	190	2,800	3,400
	08/03/01	AEI/MAI	23,000	<50	2,300	52	1,800	1,400
	11/05/01	AEI/MAI	30,000	<200	1,900	58	2,000	1,600
	03/29/02	AEI/MAI	29,000	ND<100	2,100	57	2,500	1,700
	06/11/02	**AEI/MAI**	**22,000**	**<2.5***	**2,100**	**44**	**2,300**	**1,600**
MRL			50.0	5.0	0.5	0.5	0.5	0.5

MRL = Method Reporting Limit, unless otherwise shown
µg/L = micrograms per liter
AEI = AEI Consultants
MAI = McCampbell Analytical, Inc.
TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary butyl ether
* MTBE concentrations by 8260, all others by 602/8020

Table 5
Historical Soil Sample Analytical Data

Sample ID	Consul-tant	Sample Date	TPH-g mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg	Total Lead mg/kg
GP-1 10'	Glenfos	7/9/1998	10	-	<0.005	0.022	0.015	<0.01	-
GP-2 10'	Glenfos	7/9/1998	1.5	-	0.017	<0.005	<0.005	<0.01	-
GP-2 15'	Glenfos	7/9/1998	27	-	0.017	0.056	0.052	0.51	-
GP-2 30'	Glenfos	7/9/1998	2.5	-	<0.005	<0.005	<0.005	<0.01	-
GP-3 10'	Glenfos	7/9/1998	95	-	0.59	0.42	1.1	1.5	7.3
GP-3 15'	Glenfos	7/9/1998	2.5	-	0.055	0.018	0.055	0.26	-
GP-3 20'	Glenfos	7/9/1998	1.6	-	0.02	<0.005	0.02	0.032	-
GP-3 25'	Glenfos	7/9/1998	<1	-	<0.005	<0.005	<0.005	<0.01	-
GP-4 10'	Glenfos	7/9/1998	2.5	-	0.017	<0.005	0.003	0.021	4.1
GP-5 10'	Glenfos	7/9/1998	6.5	-	<0.005	0.022	0.018	0.041	-
GP-5 15'	Glenfos	7/9/1998	19	-	0.077	0.016	0.43	0.49	-
GP-5 20'	Glenfos	7/9/1998	<1	-	<0.005	<0.005	<0.005	<0.01	-
GP-6 5'	Glenfos	7/9/1998	<1	-	<0.005	<0.005	<0.005	<0.01	-
GP-6 10'	Glenfos	7/9/1998	7.7	-	0.008	0.015	0.012	0.047	6.2
GP-6 15'	Glenfos	7/9/1998	190	-	0.34	0.53	2.3	4.7	-
GP-6 20'	Glenfos	7/9/1998	28	-	0.083	0.081	0.052	0.19	-
GP-7 10'	Glenfos	7/9/1998	86	-	<0.005	0.088	0.09	0.5	-
GP-7 15'	Glenfos	7/9/1998	2.7	-	0.008	0.012	<0.005	0.031	-
GP-8 10'	Glenfos	7/9/1998	24	-	0.022	0.061	0.071	0.45	-
GP-8 15'	Glenfos	7/9/1998	5.8	-	0.021	0.014	0.022	0.06	-
GP-8 20'	Glenfos	8/23/1999	<1	-	<0.005	<0.005	<0.005	<0.01	-
AEI-9 10'	AEI	8/23/1999	<1	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-9 20'	AEI	8/23/1999	<1	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-10 10'	AEI	8/23/1999	77	<0.05	<0.005	<0.005	0.078	<0.005	-
AEI-10 15'	AEI	8/23/1999	69	0.071	0.1	0.21	0.23	<0.005	-
AEI-11 10'	AEI	8/23/1999	<1	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-11 15'	AEI	8/23/1999	210	<0.40	<0.020	1.1	1.2	2.4	-
AEI-12 10'	AEI	8/23/1999	24	<0.05	<0.005	0.12	<0.005	<0.005	-
AEI-12 15'	AEI	8/23/1999	120	<0.40	<0.020	<0.020	1.6	1.6	-
MW-1 6.5'	AEI	9/25-26/00	<1.0	<.05	<.005	<.005	<.005	<.005	-
MW-1 11.5'	AEI	9/25-26/00	15.0	<.05	<.005	0.31	<.005	0.011	-
MW-2 6.5'	AEI	9/25-26/00	<1.0	<.05	<.005	<.005	<.005	<.005	-
MW-2 11'	AEI	9/25-26/00	73.0	<.05	<.005	0.044	0.0080	0.040	-
MW-3 6.5'	AEI	9/25-26/00	<1.0	<.05	<.005	<.005	<.005	<.005	-
MW-3 16'	AEI	9/25-26/00	360.0	<1.0	0.42	2.1	6.5	11.0	-
MDL			1.0	0.05	0.005	0.005	0.005	0.005	

Method Detection Limit
lligrams per kilogram (ppm)
ɔt analyzed for this chemical
:troleum hydrocarbons as gasoline

Table 6
Historical Groundwater Sample Analytical Data

Sample ID	Consultant	Sample Date	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-Benzene µg/L	Xylenes µg/L	Lead µg/L
GP 1	Glenfos	7/9/1998	170	-	0.53	<0.5	1.2	2.0	-
GP 4	Glenfos	7/9/1998	210	-	<0.5	<0.5	0.58	<1	11
GP 5	Glenfos	7/9/1998	17,000	-	42	24	820	110	-
GP 8	Glenfos	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AEI-9W	AEI	8/23/1999	690	3.8	72	0.79	29	24	-
MDL			50	5.0	0.5	0.5		1.5	2.5

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

µg/L = micrograms per liter (ppb)

- Sample not analyzed for this chemical

TPH-g = Total petroleum hydrocarbons as gasoline

APPENDIX A

PERMIT DOCUMENTATION

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA, 94544-1395
~~PHONE (510) 670-5554 MARLON MAGALLANES/FRANK COBB (510) 670-5763~~
FAX (510)782-1939
Phone (510) 670-6633 James Yu

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1350 Fruitvale Avenue Oakland, CA

CLIENT
Name Mr. Bill Phua (Owner)
Address c/o 1 Woodland Ave Phone 510 774-0187
City Piedmont Zip 94611

APPLICANT
Name AEI - Peter McIntyre
Fax 925 283-6121
Address 3220 Oak Grove Rd Phone 283-6000
City Lafayette, Suite B Zip 94549

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	☒	Direct Push	

DRILLER'S NAME Direnex

DRILLER'S LICENSE NO. 705 927

WELL PROJECTS
Drill Hole Diameter ~~4~~ 2 in. Maximum
Casing Diameter ~~2~~ in. Depth ~~20~~ ft.
Surface Seal Depth ~~20~~ ft. Owner's Well Number

GEOTECHNICAL PROJECTS
Number of Borings 20 Maximum
Hole Diameter 2 in. Depth 20 ft.

ESTIMATED STARTING DATE 6/10/02
ESTIMATED COMPLETION DATE 6/11/02

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

APPLICANT'S SIGNATURE [signature] DATE 6/3/02

PLEASE PRINT NAME Peter McIntyre Rev.5-13-00

FOR OFFICE USE
PERMIT NUMBER 02-0607
WELL NUMBER
APN

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 cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work done. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - SC #3 - Attached.

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 6-7-02

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

FRUITVALE SIDE

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 2 0 0565	1450 FRUITVALE AV
APPROX. START DATE / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 654919	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) # 2-28-6633 72

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).** Joseph Tavlou

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 of Permittee ☐ Agent for ☒ Contractor ☐ Owner — Date 6-4-02

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED 6-4-02	

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

(FARNAM ST)

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 2 0 0 5 6 6	1450 FRUITVALE AV
APPROX. START DATE / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS: 654919	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 of Permittee _____ ☐ Agent for ☒ Contractor ☐ Owner Date 6-4-02

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☒ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☒ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☒ NO
ISSUED BY		DATE ISSUED 6-4-02	

APPENDIX B

SOIL BORING LOGS

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-13

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Data: Sample Label	Sample Data: Type	Sample Data: Blow/ft	Sample Data: Recovery	Well Data	Remarks
0			Ground Surface						
2			***Hand Auger*** Black, earthy soils						
4									Slight HC odor
6			***Clay*** Sandy, grey color	AEI-13 5'	SS				PID <1 ppm
8									
10			***Clay*** Firm clay, less sand, redish/grey mottled appearance	AEI-13 10'	SS				Slight HC odor
12									PID <1 ppm
14								▼	
16			***Clay*** Stiff, tan color, very few sands	AEI-13 15'	SS				
18			***Clay*** Gravelly, sandy						PID <1 ppm
20				AEI-13 20'	SS				
22									
24			***Clay*** Stiff, tan color, 10-20 % sands						PID <1 ppm
26				AEI-25'	SS				
28			***Sand*** Silty w/ lots of gravels						Slight HC odor
30			End of Borehole	AEI-13 30'	SS				
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30

Depth to Water: 14.5

Reviewed by:

Logged by: AW

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-14

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Hand Auger*** Black, earthy soils						
4									
6			***Clay*** Sandy, brown color						
8									
10			***Clay*** Stiff, olive green color, some gravels	AEI-14 10'	SS				PID 2 ppm
12			***Clay*** Firm, very sandy, green/brown mottled appearance						Slight HC odor
14									
16			***Clay*** Stiff, olive green color	AEI-14 15'	SS				PID 1 ppm
18									Slight HC odor
20			***Clay*** Gravelly, 30% gravels, olive color	AEI-14 20'	SS				PID 4 ppm
22									
24									No HC odor
26			***Clay*** Soft, very wet, tan color	AEI-14 25'	SS				
28									
30				AEI-14 30'	SS				
32			***Sand*** Clayey w/ some gravels, wet and dry layers					▼	
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 35

Depth to Water: 32

Reviewed by:

Logged by: AW

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-15

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Sand*** Clayey, some gravels, black color						No HC odor
4									
6			***Clay*** Very sandy, some gravels, tan color	AEI-15 5'	SS				PID <1ppm
8									
10				AEI-15 10'	SS				
12			***Clay*** Gravelly, black color						
14									
16			***Sand*** Black color, gravelly	AEI-15 15'	SS				PID <1 ppm
18			***Clay*** Dry, sandy, gravelly, brown color	AEI-15 18'	SS				No HC odor
20									PID <1 ppm
22								▼	
24				AEI-15 24'	SS				No HC odor
26			***Gravel*** Mixed with firm brown clays and some sands						
28									
30			End of Borehole	AEI-15 30'	SS				
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30

Depth to Water: 23

Reviewed by:

Logged by: AW

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-16

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Data: Sample Label	Sample Data: Type	Sample Data: Blow/ft	Sample Data: Recovery	Well Data	Remarks
0			Ground Surface						
2			***Clay*** Stiff, gravelly 10-20%, black						No HC odor
4									
6				AEI-16 5'	SS				PID <1ppm
8			***Clay*** Firm, gravel 50%, brown color						
10				AEI-16 10'	SS				
12									
14									
16			***Clay*** Stiff, tan color	AEI-16 15'	SS				PID <1 ppm HC odor
18									
20			***Clay*** Stiff, olive green color, minor gravels	AEI-16 19'	SS				PID 309 ppm
22									
24			***Clay*** Stiff, sandy, brownish/green mottled color						PID 17 ppm
26			***Clay*** Gravelly, sandy, wet	AEI-16 25'	SS				
28			***Clay*** Mottled grey/green/bron appearance, gravelly, wet					▼	
30			End of Borehole						
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30

Depth to Water: 28

Reviewed by:

Logged by: AW

AEI Consultants
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Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-17

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Data: Sample Label	Sample Data: Type	Sample Data: Blow/ft	Sample Data: Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, clayey, black color						
4			***Clay*** Firm, green color, some gravels and sands 20-30%						No HC odor
6									
8									
10			***Sand*** Brown, gravelly, some clay	AEI-17 10'	SS				
12									No HC odor
14			***Clay*** Stiff, olive green color, minor gravels	AEI-17 15'	SS				
16									Strong HC odor
18									
20				AEI-17 20'	SS				Slight HC odor
22									
24			***Clay*** Stiff, green color	AEI-17 25'	SS			▼	
26									
28									
30			***Clay*** Stiff. green	AEI-17 30'	SS				Strong HC odor
32									
34			***Clay*** Tan, saturated						

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 35

Depth to Water: 23.5

Reviewed by:

Logged by: AW

AEI Consultants
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Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-18

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Data: Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, black color, 20% gravels						
4				AEI-18 4'	SS				PID 112 ppm
6			***Clay*** Stiff, brownish, 20% sand						Slight HC odor
8									
10				AEI-18 10'	SS				Strong HC odor
12			***Clay*** Stiff, green color						PID 112 ppm
14				AEI-18 14'	SS				PID 181 ppm
16			***Clay*** Stiff, 40% sand and gravels, olive green/orange mottled appearance						Slight HC odor
18									
20									PID 46 ppm
22			***Clay*** Firm, brownish color, slightly wet						
24									Strong HC odor
26				AEI-18 25'	SS			▼	
28			***Clay*** Stiff. green						
30			***Silt*** Isolated lens						
32				AEI-18 30'	SS				PID <1 ppm
34			***Clay*** Stiff, brown, 40% gravels						

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 35

Depth to Water: 25.3

Reviewed by:

Logged by: AW

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3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-19

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, black color, 20% gravels						
4									
6									
8									No HC odor
10			***Clay*** Stiff, brownish, 20% gravels	AEI-19 10'	SS				PID <1 ppm
12									
14									PID <1 ppm
16				AEI-19 15'	SS				
18			***Clay*** Stiff, green color, fine grained						HC odor
20				AEI-19 20'	SS			▼	PID 9 ppm
22									PID 3 ppm
24			***Clay*** Firm, brown, 20% gravels						
26			End of Borehole	AEI-19 25'	SS				
28									
30									
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 25

Depth to Water: 20.5

Reviewed by:

Logged by: AW

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Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-20

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, black color, sandy						
4									
6				AEI-20 5'	SS				PID <1 ppm
8			***Clay*** Soft, brown, 30% sand						
10				AEI-20 10'	SS				PID 2 ppm
12									Slight HC odor
14			***Clay*** Stiff, green color						PID 4 ppm
16				AEI-20 15'	SS				
18			***Clay*** Firm, brown, 30% sand						HC odor
20			***Clay*** Stiff, green color, 40% gravels	AEI-20 20'	SS				PID 12 ppm
22								▼	
24									HC odor
26			***Clay*** Stiff, green/grey color w/ some orange sands	AEI-20 25'	SS				PID 13 ppm
28									PID 8 ppm
30									
32									Slight HC odor
34			***Sand*** Firm, wet, clayey	AEI-20 33'	SS				

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 35

Depth to Water: 22

Reviewed by:

Logged by: AW

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Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-21

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, black color, 30% sand						Slight HC odor
4									
6				AEI-21 5'	SS				HC odor
8			***Clay*** Firm, olive green color, 5% sand						
10				AEI-21 9'	SS				
12			***Clay*** Stiff, olive green color, 20% gravels					▼	Strong HC odor
14				AEI-21 13'	SS				
16				AEI-21 15'	SS				PID 239 ppm
18			***Clay*** Stiff, olive green color, fine grained, 5% sands						PID 38 ppm
20				AEI-21 20'	SS				
22			***Gravels*** Isolated layer						
24			***Sand*** Firm, grey color, clayey	AEI-21 24'	SS				PID 124 ppm
26			***Clay*** Very sandy w/ gravels, brown color						
28			End of Borehole						
30									
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 28

Depth to Water: 13

Reviewed by:

Logged by: AW

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Lafayette, CA 94549
(925) 283-6000

Project No: 5183

Project Name: Fruitvale

Client: PHUA

Location: Oakland, CA

Sheet: 1 of 1

Log of Borehole: SB-22

Depth	USCS Symbol	USCS Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0			Ground Surface						
2			***Soil*** Firm, sands and gravels present						
4									
6			***Clay*** Stiff w/ fine sands and silts, dk brown	AEI-22 5'	SS				
8									
10				AEI-22 10'	SS				
12									HC odor
14			***Clay*** Stiff, olive green color, 10% gravels						
16				AEI-22 15'	SS				
18								▼	
20				AEI-22 20'	SS				Slight HC odor
22			***Clay*** Stiff, olive green color, gravel locally						
24									
26				AEI-22 25'	SS				
28			End of Borehole						
30									
32									
34									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 25

Depth to Water: 19

Reviewed by:

Logged by: AW

AEI Consultants
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549
(925) 283-6000

ATTACHMENT C

WELL FIELD SAMPLING FORMS

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name: Jay Phares	Date of Sampling: 06/11/02
Job Number: 3581	Name of Sampler: PM / AW
Project Address: 1450 Fruitvale Avenue	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement, good
Well Cap & Lock -- OK/Replace	OK
Elevation of Top of Casing	42.13
Depth of Well	28.00
Depth to Water	12.18
Water Elevation	29.95
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	7.6
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	8.0
Appearance of Purge Water	Initially very clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 VOAs

Time 11:05	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µs)	Comments
11:07	2	20.8	7.17	620	
11:09	4	19.3	7.03	578	
11:11	6	18.9	7.10	560	
11:14	8	18.9	6.89	606	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Moderate hydrocarbon odor. Sheen???

TD - Total Depth of Well
DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name: Jay Phares	Date of Sampling: 06/11/02
Job Number: 3581	Name of Sampler: PM / AW
Project Address: 1450 Fruitvale Avenue	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement, good
Well Cap & Lock -- OK/Replace	OK
Elevation of Top of Casing	42.08
Depth of Well	28.00
Depth to Water	12.49
Water Elevation	29.59
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	7.4
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	8.0
Appearance of Purge Water	Very clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 VOAs

Time 11:25	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µs)	Comments
11:27	2	21.9	6.80	1090	
11:29	4	20.1	6.98	1060	
11:31	6	19.6	6.88	1035	
11:33	8	19.4	6.70	1008	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Mild HC odor

TD - Total Depth of Well
DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name: Jay Phares	Date of Sampling: 06/11/02
Job Number: 3581	Name of Sampler: PM / AW
Project Address: 1450 Fruitvale Avenue	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement, good
Well Cap & Lock -- OK/Replace	OK
Elevation of Top of Casing	42.55
Depth of Well	28.00
Depth to Water	11.83
Water Elevation	30.72
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	7.8
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	8.0
Appearance of Purge Water	Very clear

GROUNDWATER SAMPLES

Number of Samples/Container Size	2 VOAs

Time 11:42	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µS)	Comments
11:43	2	22.3	7.32	1078	
11:45	4	20.0	7.33	1050	
11:48	6	19.0	7.33	1031	
11:49	8	19.0	7.32	1006	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well
DTW - Depth To Water

APPENDIX D

LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Rd., Ste. B Lafayette, CA 94549-4157	Client Project ID: 3581; Fruitvale-GWM	Date Sampled: 06/11/02
		Date Received: 06/12/02
	Client Contact: Peter McIntyre	Date Reported: 06/18/02
	Client P.O.:	Date Completed: 06/18/02

June 18, 2002

Dear Peter:

Enclosed are:

1). the results of 3 samples from your **3581; Fruitvale-GWM project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 3581; Fruitvale-GWM	Date Sampled: 06/11/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/12/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/16/02-06/18/02
	Client P.O.:	Date Analyzed: 06/16/02-06/18/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0206202

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	3400,a	ND<50	620	9.7	75	11	10	107
002A	MW-2	W	4400,a	ND<150	680	8.1	160	38	10	109
003A	MW-3	W	22,000,a	ND<50	2100	44	2300	1600	10	---#
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	ug/L	
		S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg	

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2420 Matrix: W WorkOrder: 0206202

EPA Method: SW8021B/8015Cm Extraction: SW5030B Ext. Date: 6/12/02 Spiked Sample ID: 0206199-003A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	60	108	108	0.0685	99.2	103	4.1	80	120
MTBE	ND	10	90.7	91.5	0.864	94.9	93.1	1.9	80	120
Benzene	ND	10	96.1	103	6.88	83.8	104	22	80	120
Toluene	ND	10	100	106	5.81	89.4	107	18	80	120
Ethylbenzene	ND	10	100	106	6.09	80.2	108	30	80	120
Xylenes	ND	30	99.7	110	9.86	100	110	9.5	80	120
%SS	99.7	10	99.7	100	0.743	95.2	99.4	4.3	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyze relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206202

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 3581; Fruitvale-G
PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests 8021B/8015
0206202-001	MW-1	Water	6/11/02 1:09:00 PM		A
0206202-002	MW-2	Water	6/11/02 1:15:00 PM		A
0206202-003	MW-3	Water	6/11/02 1:29:00 PM		A

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

020652

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 3591 Project Name: Brentwood-Chevron
Project Location: Brentwood, CA
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
MW-1		6/11/02	1045	2	Vog	X					X	X			X																
MW-2		↓	1115	2	Vog	X					X	X			X																
MW-3		↓	1205	2	Vog	X					X	X			X																

Relinquished By:	Date:	Time:	Received By:
[signature]	6/14	2:50	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

VOAS | O&G | METALS | OTHER
GOOD CONDITION ✓ PRESERVATION ✓
HEAD SPACE ABSENT ✓ APPROPRIATE CONTAINERS ✓

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 3581; Fruitvale-GWM	Date Sampled: 06/11/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/12/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/21/02
	Client P.O.:	Date Analyzed: 06/21/02

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0206202

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
001B	MW-1	W	2.4	3.3	113
002B	MW-2	W	23	5	114
003B	MW-3	W	ND<2.5,j	5	118
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	0.5		µg/L
		S	NA		NA

* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L.

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206202

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 3581; Fruitvale-G
PO:

26-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests	
					8021B/8015	SW8260B
0206202-001	MW-1	Water	6/11/02 1:09:00 PM		A	B
0206202-002	MW-2	Water	6/11/02 1:15:00 PM		A	B
0206202-003	MW-3	Water	6/11/02 1:29:00 PM		A	B

Comments: ADD ON 6/20/02 MTBE BY 8260

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

0206252

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:

Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157

Tele: (925) 283-6000 Fax: (925) 283-6121

Project #: 3581 Project Name: Brentwood-Clean

Project Location: Evergreen/Fremont

Sampler Signature: [signature]

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: MTBE by 8260 per [illegible] 6/20/02	Comments
MW-1		6/11/02	1:09	2	Voa	X					X	X			X															X	
MW-2		↓	1:15	2	Voa	X					X	X			X															X	
MW-3		↓	1:25	2	Voa	X					X	X			X															X	

Relinquished By:	Date:	Time:	Received By:
[signature]	6/14	2:50	[signature] 6/12
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

ICE/t° ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ PRESERVATION ✓ APPROPRIATE CONTAINERS ✓ VOAS | O&G | METALS | OTHER

McCampbell Analytical Inc.

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http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc. 3210 Old Tunnel Rd., Ste. B Lafayette, CA 94549-4157	Client Project ID: 5183-A; Fruitvale	Date Sampled: 06/10/02
		Date Received: 06/10/02
	Client Contact: Peter McIntyre	Date Reported: 06/17/02
	Client P.O.:	Date Completed: 06/17/02

June 17, 2002

Dear Peter:

Enclosed are:

1). the results of **8** samples from your **5183-A; Fruitvale project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical Inc.
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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 5183-A; Fruitvale	Date Sampled: 06/10/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/10/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/10/02-06/13/02
	Client P.O.:	Date Analyzed: 06/11/02-06/18/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0206140

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	AEI-22 10'	S	74,j	ND	0.0086	0.58	0.11	0.26	1	---#
004A	AEI-22 20'	S	5.1,a	ND<0.1	0.30	0.016	0.26	0.42	1	---#
006A	AEI-21 5'	S	ND	ND	ND	ND	ND	ND	1	118
008A	AEI-21 13'	S	12,j	ND	ND	0.090	0.028	ND	1	---#
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L		
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg		

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2351 Matrix: S WorkOrder: 0206140

EPA Method: SW8021B/8015Cm Extraction: SW5030B Ext. Date: 6/07/02 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	0.60	N/A	N/A	N/A	96.2	101	5.2	80	120
MTBE	N/A	0.10	N/A	N/A	N/A	94.8	93.9	0.91	80	120
Benzene	N/A	0.10	N/A	N/A	N/A	103	107	3.6	80	120
Toluene	N/A	0.10	N/A	N/A	N/A	107	115	6.9	80	120
Ethylbenzene	N/A	0.10	N/A	N/A	N/A	107	109	2.2	80	120
Xylenes	N/A	0.30	N/A	N/A	N/A	110	110	0	80	120
%SS	N/A	0.10	N/A	N/A	N/A	103	108	5.1	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyze relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2434 Matrix: S WorkOrder: 0206140

EPA Method: SW8021B/8015Cm Extraction: SW5030B Ext. Date: 6/13/02 Spiked Sample ID: N/A

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	0.60	N/A	N/A	N/A	93.2	106	13	80	120
MTBE	N/A	0.10	N/A	N/A	N/A	84.6	81.3	3.9	80	120
Benzene	N/A	0.10	N/A	N/A	N/A	91.4	90.1	1.4	80	120
Toluene	N/A	0.10	N/A	N/A	N/A	98.1	97.1	1.1	80	120
Ethylbenzene	N/A	0.10	N/A	N/A	N/A	102	101	0.46	80	120
Xylenes	N/A	0.30	N/A	N/A	N/A	100	98.7	1.3	80	120
%SS	N/A	0.10	N/A	N/A	N/A	109	110	0.57	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS – MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyze relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206140

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5183-A; Fruitvale
PO:

13-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					8021B/8015						
0206140-001	AEI-22 5'	Soil	6/10/02		A						
0206140-002	AEI-22 10'	Soil	6/10/02		A						
0206140-003	AEI-22 15'	Soil	6/10/02		A						
0206140-004	AEI-22 20'	Soil	6/10/02		A						
0206140-005	AEI-22 25'	Soil	6/10/02		A						
0206140-006	AEI-21 5'	Soil	6/10/02		A						
0206140-007	AEI-21 9'	Soil	6/10/02		A						
0206140-008	AEI-21 13'	Soil	6/10/02		A						

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☑ 5 DAY

Off Hold 6/9 per Andrew Sin

Report To: Peter McIntyre	Bill To:
Company: All Environmental	
3210 Old Tunnel Road, Suite B	
Lafayette, CA 94549-4157	
Tele: (925) 283-6000	Fax: (925) 283-6121
Project #: 5183-A	Project Name: Fruitvale
Project Location: Oakland	
Sampler Signature:	

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEI-22 5'		6/10		1	tube	X					X																				
AEI-22 10'				1	"	X					X																				Hold
AEI-22 15'				1	"	X					X				X																
AEI-22 20'				1	"	X					X																				Hold
AEI-22 25				1	"	X					X				X																
AEI-21 5'				1	"	X					X																				Hold
AEI-21 9'				1	"	X					X				X																~~Hold~~
AEI-21 13				1	"	X					X				X																Hold
																															~~Hold~~

Relinquished By: Andrew Wyatt	Date: 6/10	Time: 2:15	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
APPROPRIATE CONTAINERS ✓
PRESERVATION
VOAS | O&G | METALS | OTHER

L:SV

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 5183; Fruitvale	Date Sampled: 06/11/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/12/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/12/02
	Client P.O.:	Date Analyzed: 06/13/02-06/19/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0206203

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	AEI-13 10'	S	ND	ND	ND	ND	ND	ND	1	109
008A	AEI-15 10'	S	ND	ND	ND	ND	ND	ND	1	110
014A	AEI-16 10'	S	ND	ND	ND	ND	ND	ND	1	111
016A	AEI-16 19'	S	41,j	ND<0.2	ND<0.02	ND<0.02	0.038	0.079	5	--#
018A	AEI-18 4'	S	ND	ND	ND	ND	ND	ND	1	115
020A	AEI-18 14'	S	290,b,j	ND<2.5	ND<0.2	0.91	2.3	2.9	50	--#
025A	AEI-19 15'	S	ND	ND	ND	ND	ND	ND	1	110
029A	AEI-20 10'	S	ND	ND	ND	ND	ND	ND	1	108
031A	AEI-20 20'	S	42,j	ND<0.5	ND<0.05	0.20	0.12	0.15	10	--#
034A	AEI-14 10'	S	ND	ND	ND	ND	ND	ND	1	118
039A	AEI-17 10'	S	ND	ND	ND	ND	ND	ND	1	111
041A	AEI-17 20'	S	290,a	ND<0.5	0.84	1.3	1.8	2.8	10	--#
044A	AEI-13W	W	ND	ND	ND	ND	ND	ND	1	118
045A	AEI-14W	W	830,j	ND	0.56	2.7	1.2	2.9	1	107
046A	AEI-15W	W	ND	15	ND	ND	ND	ND	1	103
047A	AEI-16W	W	190,a,i	ND	0.86	0.95	0.75	1.3	1	113
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L		
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg		

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 5183; Fruitvale	Date Sampled: 06/11/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/12/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/12/02
	Client P.O.:	Date Analyzed: 06/13/02-06/19/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B
Analytical methods: SW8021B/8015Cm
Work Order: 0206203

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
048A	AEI-18W	W	780,a	ND	10	1.1	41	20	1	---#
049A	AEI-19W	W	ND	ND	ND	ND	ND	ND	1	104
050A	AEI-20W	W	170,a,i	ND	0.81	0.55	7.7	3.1	1	---#
051A	AEI-21W	W	2200,a,i	ND<50	36	ND<5.0	110	58	10	---#
052A	AEI-22W	W	25,000,a	ND<250	3800	290	1100	1900	10	---#

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: 5183; Fruitvale	Date Sampled: 06/11/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/12/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/20/02
	Client P.O.:	Date Analyzed: 06/21/02

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0206203

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
020A	AEI-18 14'	S	ND<20,j	4	87.6
046B	AEI-15W	W	14	1	106
051B	AEI-21W	W	2.8	1	113
052B	AEI-22W	W	ND<12,j	25	112
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	0.5		µg/L
		S	5.0		µg/Kg

* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L.

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

1 of 4 0206203

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 5183 Project Name: FRUITVALE
Project Location: OAKLAND
Sampler Signature: [signature]

SAMPLE ID	LOCATION	Sampling Date	Sampling Time	# Containers	Type Containers	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Sludge	Matrix: Other	Preserved: Ice	Preserved: HCl	Preserved: HNO_3	Preserved: Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEI-13 5'		6/11		1	ACET		X				X																				Hold
AEI-13 10'		↓		1	↓		X				X																				Hold
AEI-13 15'				1			X				X				X																
AEI-13 20'				1			X				X																				Hold
AEI-13 25'				1			X				X																				Hold
AEI-13 30'				1			X				X																				Hold
AEI-15 5'				1			X				X																				Hold
AEI-15 10'				1			X				X																				Hold
AEI-15 15'				1			X				X				X																
AEI-15 20'				1			X				X																				Hold
AEI-15 25'				1			X				X																				Hold
AEI-15 30'				1			X				X																				Hold
AEI-16 5'				1			X				X																				Hold
AEI-16 10'				1			X				X																				Hold
AEI-16 15'		↓		1	↓		X				X				X																Hold

Relinquished By:	Date:	Time:	Received By:
[signature]	6/14	2:30	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks: ✓

ICE/t° ✓ PRESERVATION ✓ VOAS | O&G | METALS | OTHER
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT CONTAINERS ✓

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 5183 Project Name: FRUITVALE
Project Location: OAKLAND
Sampler Signature: Andrew Wyatt

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEI-13 5'		6/11		1	ACE		X				X																				HOLD
AEI-13 10'				1			X				X				X																
AEI-13 15'				1			X				X																				HOLD
AEI-13 20'				1			X				X																				HOLD
AEI-13 25'				1			X				X																				HOLD
AEI-13 30'				1			X				X																				HOLD
AEI-15 5'				1			X				X																				HOLD
AEI-15 10'				1			X				X				X																
AEI-15 15'				1			X				X																				HOLD
AEI-15 20'				1			X				X																				HOLD
AEI-15 25'				1			X				X																				HOLD
AEI-15 30'				1			X				X																				HOLD
AEI-16 5'				1			X				X																				HOLD
AEI-16 10'				1			X				X				X																
AEI-16 15'				1			X				X																				HOLD

Relinquished By:	Date:	Time:	Received By:
Andrew Wyatt	6/14	2:30	Vikram
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☑ 5 DAY

Report To: Peter McIntyre Bill To:

Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157

Tele: (925) 283-6000 Fax: (925) 283-6121

Project #: 5183 Project Name: FRUITVALE

Project Location: OAKLAND

Sampler Signature: Andrew Wyatt

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEI-16 19'		6/11		1	ACET		X				X				X																
AEI-16 25'				1			X				X																				HOLD
AEI-18 4'				1			X				X				X																
AEI-18 10'				1			X				X																				HOLD
AEI-18 14'				1			X				X				X																
AEI-18 20'				1			X				X																				HOLD
AEI-18 25'				1			X				X																				HOLD
AEI-18 30'				1			X				X																				HOLD
AEI-19 10'				1			X				X																				HOLD
AEI-19 15'				1			X				X				X																
AEI-19 20'				1			X				X																				HOLD
AEI-19 25'				1			X				X																				HOLD
AEI-20 5'				1			X				X																				HOLD
AEI-20 10'				1			X				X				X																
AEI-20 15'				1			X				X																				HOLD

Relinquished By:	Date:	Time:	Received By:
Andrew Wyatt	6/14	2:50	[illegible] ✓ MBD
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 5138 Project Name: FRUITVALE
Project Location: OAKLAND
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEZ-20 20'		6/11		1	ACET		X				X				X																
AEZ-20 25'		↓		1	↓		X				X																				
AEZ-20 33'		↓		1	↓		X				X																				HOLD
AEZ-14 10'		6/12		1	↓		X				X				X																HOLD
AEZ-14 15'		↓		1	↓		X				X																				
AEZ-14 20'		↓		1	↓		X				X																				HOLD
AEZ-14 25'		↓		1	↓		X				X																				HOLD
AEZ-14 30'		↓		1	↓		X				X																				HOLD
AEZ-17 10'		↓		1	↓		X				X				X																HOLD
AEZ-17 15'		↓		1	↓		X				X																				
AEZ-17 20'		↓		1	↓		X				X																				HOLD
AEZ-17 25'		↓		1	↓		X				X				X																
AEZ-17 30'		↓		1	↓		X				X																				HOLD
AEZ-13 W		6/12		2	VOA	X					X	X			X																HOLD
AEZ-14 W		6/12		2	VOA	X					X	X			X																

Relinquished By:	Date: 6/14	Time: 2:50	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 5138 Project Name: FRUITVALE
Project Location: OAKLAND
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
AEI-15 W		6/12		2	VOA	X					X	X			X																
AEI-16 W		6/11		2	VOA	X					X	X			X																
AEI-18 W		6/12		2	VOA	X					X	X			X																
AEI-19 W		6/12		2	VOA	X					X	X			X																
AEI-20 W		6/11		2	VOA	X					X	X			X																
AEI-21 W		6/11		2	VOA	X					X	X			X																
AEI-22 W		6/11		2	VOA	X					X	X			X																

Relinquished By:	Date:	Time:	Received By:
	6/14	2:30	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206203

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5183; Fruitvale
PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests 8021B/8015
0206203-001	AEI-13 5'	Soil	6/11/02		A
0206203-002	AEI-13 10'	Soil	6/11/02		A
0206203-003	AEI-13 15'	Soil	6/11/02		A
0206203-004	AEI-13 20'	Soil	6/11/02		A
0206203-005	AEI-13 25'	Soil	6/11/02		A
0206203-006	AEI-13 30'	Soil	6/11/02		A
0206203-007	AEI-15 5'	Soil	6/11/02		A
0206203-008	AEI-15 10'	Soil	6/11/02		A
0206203-009	AEI-15 15'	Soil	6/11/02		A
0206203-010	AEI-15 18'	Soil	6/11/02		A
0206203-011	AEI-15 24'	Soil	6/11/02		A
0206203-012	AEI-15 30'	Soil	6/11/02		A
0206203-013	AEI-16 5'	Soil	6/11/02		A
0206203-014	AEI-16 10'	Soil	6/11/02		A
0206203-015	AEI-16 15'	Soil	6/11/02		A
0206203-016	AEI-16 19'	Soil	6/11/02		A

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206203

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5183; Fruitvale
PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests 8021B/8015
0206203-017	AEI-16 25'	Soil	6/11/02		A
0206203-018	AEI-18 4'	Soil	6/11/02		A
0206203-019	AEI-18 10'	Soil	6/11/02		A
0206203-020	AEI-18 14'	Soil	6/11/02		A
0206203-021	AEI-18 20'	Soil	6/11/02		A
0206203-022	AEI-18 25'	Soil	6/11/02		A
0206203-023	AEI-18 30'	Soil	6/11/02		A
0206203-024	AEI-19 10'	Soil	6/11/02		A
0206203-025	AEI-19 15'	Soil	6/11/02		A
0206203-026	AEI-19 20'	Soil	6/11/02		A
0206203-027	AEI-19 25'	Soil	6/11/02		A
0206203-028	AEI-20 5'	Soil	6/11/02		A
0206203-029	AEI-20 10'	Soil	6/11/02		A
0206203-030	AEI-20 15'	Soil	6/11/02		A
0206203-031	AEI-20 20'	Soil	6/11/02		A
0206203-032	AEI-20 25'	Soil	6/11/02		A

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206203

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5183; Fruitvale
PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	8021B/8015	Requested Tests
0206203-033	AEI-20 33'	Soil	6/11/02			
0206203-034	AEI-14 10'	Soil	6/12/02		A	
0206203-035	AEI-14 15'	Soil	6/12/02		A	
0206203-036	AEI-14 20'	Soil	6/12/02		A	
0206203-037	AEI-14 25'	Soil	6/12/02		A	
0206203-038	AEI-14 30'	Soil	6/12/02		A	
0206203-039	AEI-17 10'	Soil	6/12/02		A	
0206203-040	AEI-17 15'	Soil	6/12/02		A	
0206203-041	AEI-17 20'	Soil	6/12/02		A	
0206203-042	AEI-17 25'	Soil	6/12/02		A	
0206203-043	AEI-17 30'	Soil	6/12/02		A	
0206203-044	AEI-13W	Water	6/12/02		A	
0206203-045	AEI-14W	Water	6/12/02		A	
0206203-046	AEI-15W	Water	6/12/02		A	
0206203-047	AEI-16W	Water	6/12/02		A	
0206203-048	AEI-18W	Water	6/12/02		A	

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206203

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: 5183; Fruitvale
PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	8021B/8015	Requested Tests
0206203-049	AEI-19W	Water	6/12/02		A	
0206203-050	AEI-20W	Water	6/12/02		A	
0206203-051	AEI-21W	Water	6/11/02		A	
0206203-052	AEI-22W	Water	6/11/02		A	

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #5183; Fruitvale	Date Sampled: 06/13/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/13/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/16/02
	Client P.O.:	Date Analyzed: 06/16/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0206233

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	AEI-17W	W	1700,a,i	ND<10	56	2.5	89	69	2	108
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5		ug/L
		S	1.0	0.05	0.005	0.005	0.005	0.005		mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #5183; Fruitvale	Date Sampled: 06/13/02
3210 Old Tunnel Rd., Ste. B		Date Received: 06/13/02
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/21/02
	Client P.O.:	Date Analyzed: 06/21/02

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0206233

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
001B	AEI-17W	W	ND	1	120
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	0.5		µg/L
		S	NA		NA

* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

_Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206233

Client:
All Environmental, Inc.
3210 Old Tunnel Rd., Ste. B
Lafayette, CA 94549-4157

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: #5183; Fruitvale
PO:

13-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests 8021B/8015
0206233-001	AEI-17W	Water	6/13/02 8:30:00 AM	A	

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

02062233

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (925) 798-1620 Fax: (925) 798-1622

Report To: Peter McIntyre Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 5163 Project Name: Fruitvale X
Project Location: Fruitvale Fairmont
Sampler Signature:

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
2AEL-17W		6/13	9:30a	7	VOA	Y					X	X			X																

Relinquished By:	Date:	Time:	Received By:
[signature]	6/13	2:45	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

VOAS O&G METALS OTHER
PRESERVATION APPROPRIATE
GOOD CONDITION
HEAD SPACE ABSENT
CONTAINERS

LSV