Phone: (925) 283-6000

Fax: (925) 283-6121

July 24, 2002

6419/307

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

JUL 2 5 2002

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

Mr. Bill Phua, c/o Mr. John Jay and Mr. Ken Phares

Jay-Phares Corporation

10700 Foothill Boulevard, Suite 200

Oakland, CA 94506

cc:

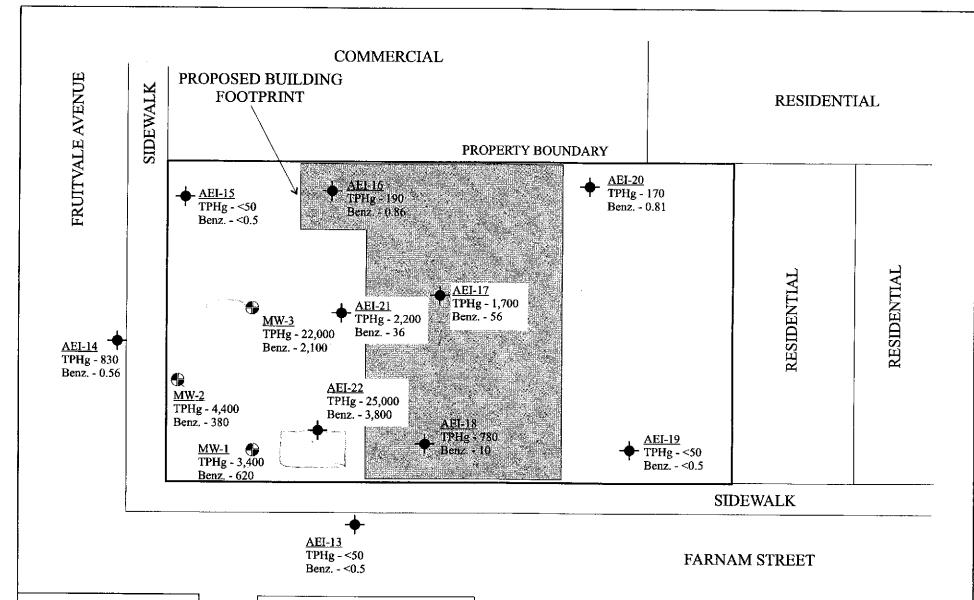
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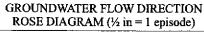
bill@eflowerwholesale.com • (510) 836-2200 ext 101 821 Jefferson St. • Oakland, CA 94607 Fax: (510)836-3430

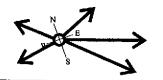


#### **KEY**

- ♠ Existing 2" Monitoring Wells
- Temporary Borings: June 2002 Sample Results in µg/l.

SCALE: 1" = 30"







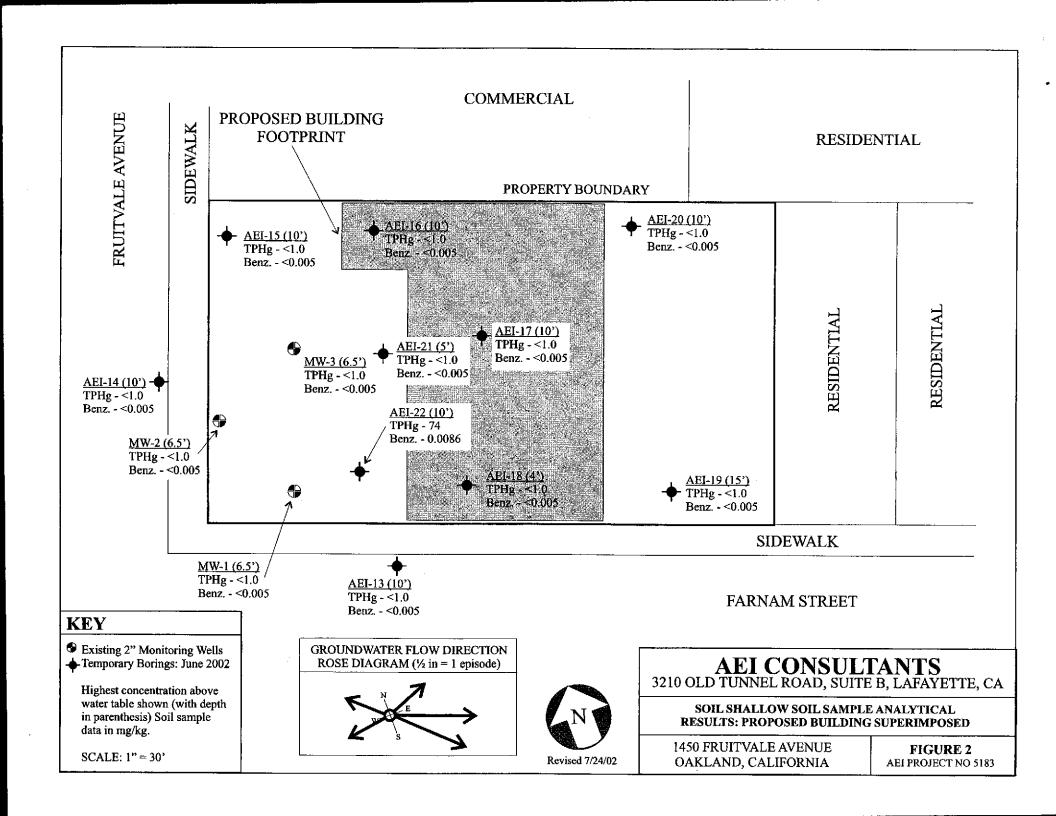
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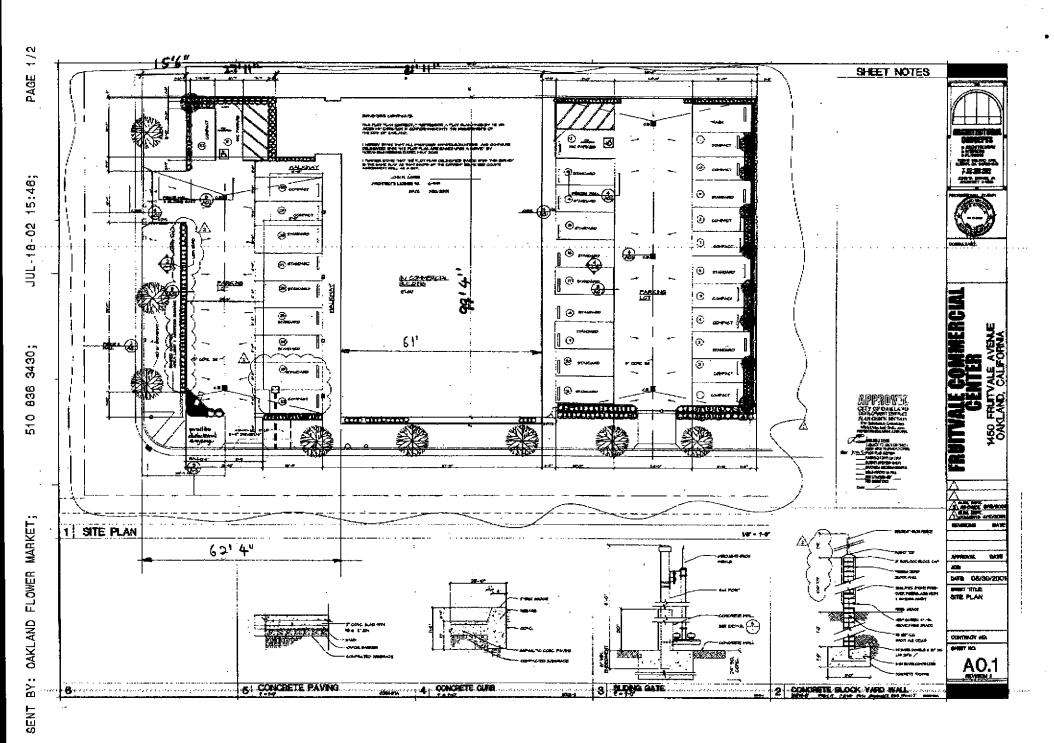
### AEI CONSULTANTS 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

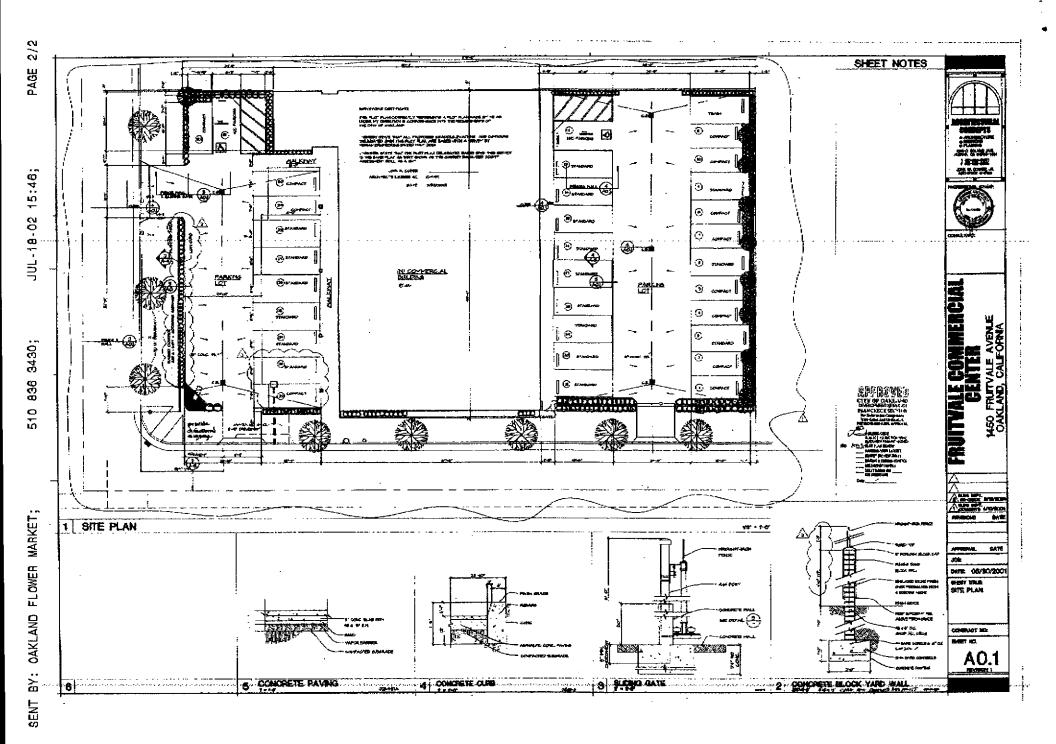
GROUNDWATER SAMPLE ANALYTICAL RESULTS - JUNE 2002: PROPOSED BUILDING SUPERIMPOSED

1450 FRUITVALE AVENUE OAKLAND, CALIFORNIA

FIGURE 1 **AEI PROJECT NO 5183** 







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



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APPENDIX D LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION

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.

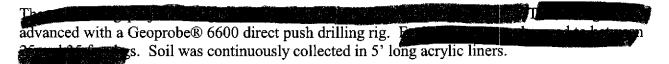
The site is located at 42 feet above mean sea level (msl). The site is flat; however, the topography of the area slopes gently to the southwest. Average groundwater elevations for the three wells ranged from 25.36 feet above msl in October 2000 to 33.54 feet above msl in March 2002. Based on these measurements, 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<sup>-2</sup> ft/ft. Historical groundwater level measurements are presented in Table 3. A rose gragiant of groundwater how 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



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.

The highest concentrations of TDH as gasoline and here the 25,000  $\mu$ g/l and 2,000  $\mu$ g/l, both in TDH as gasoline and here the 25,000  $\mu$ g/l and 3,000  $\mu$ g/l, and in boring AEI-15 at 14  $\mu$ g/l. Analyses of samples collected from the wells were consistent with previous episodes, with TPH as gasoline ranging from 3,400  $\mu$ g/l to 22,000  $\mu$ g/l, and benzene from 620  $\mu$ g/l and 2,100  $\mu$ g/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
29 <sup>th</sup> Avenue @ E. 14 <sup>th</sup>	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 memoring wens remain abouted



from the site. Benzene and toluene were not detected at greater than 1  $\mu$ g/l and 2.7  $\mu$ g/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

PROFESSIONAL COSESATE IN COSES

Distributions: Fruitvale-Farnam Associates, LLP

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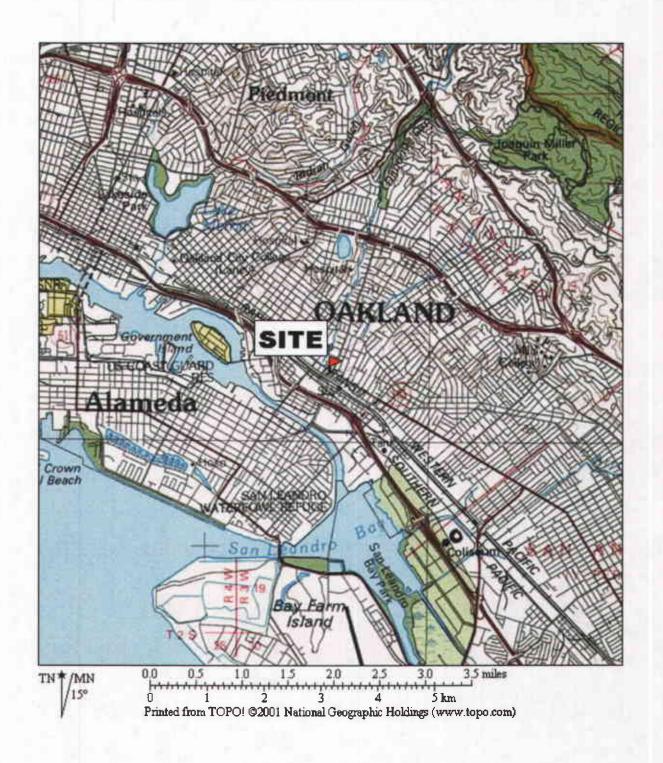
Mr. John Jay

10700 MacArthur Boulevard, Suite 200

Oakland, CA 94506

AEI Files (Project # 5183)

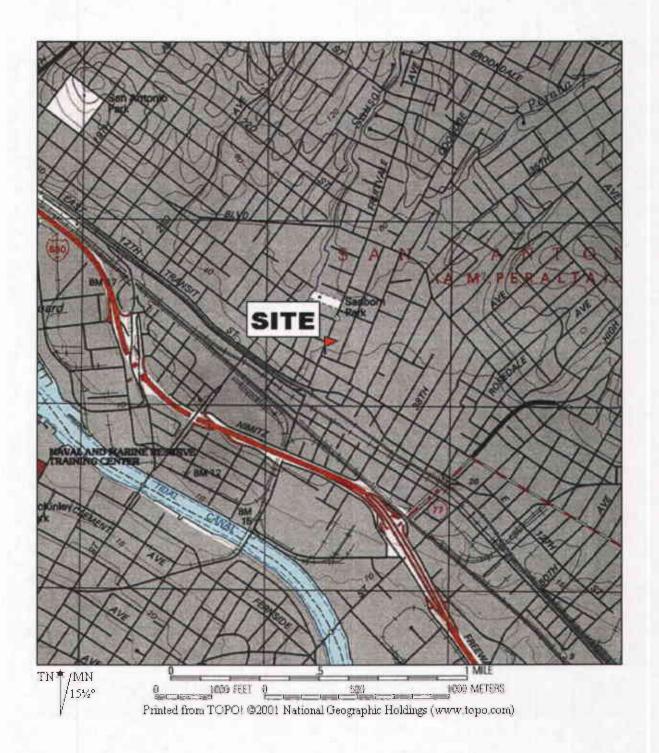




AEI CONSULTANTS
3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

#### SITE AREA MAP

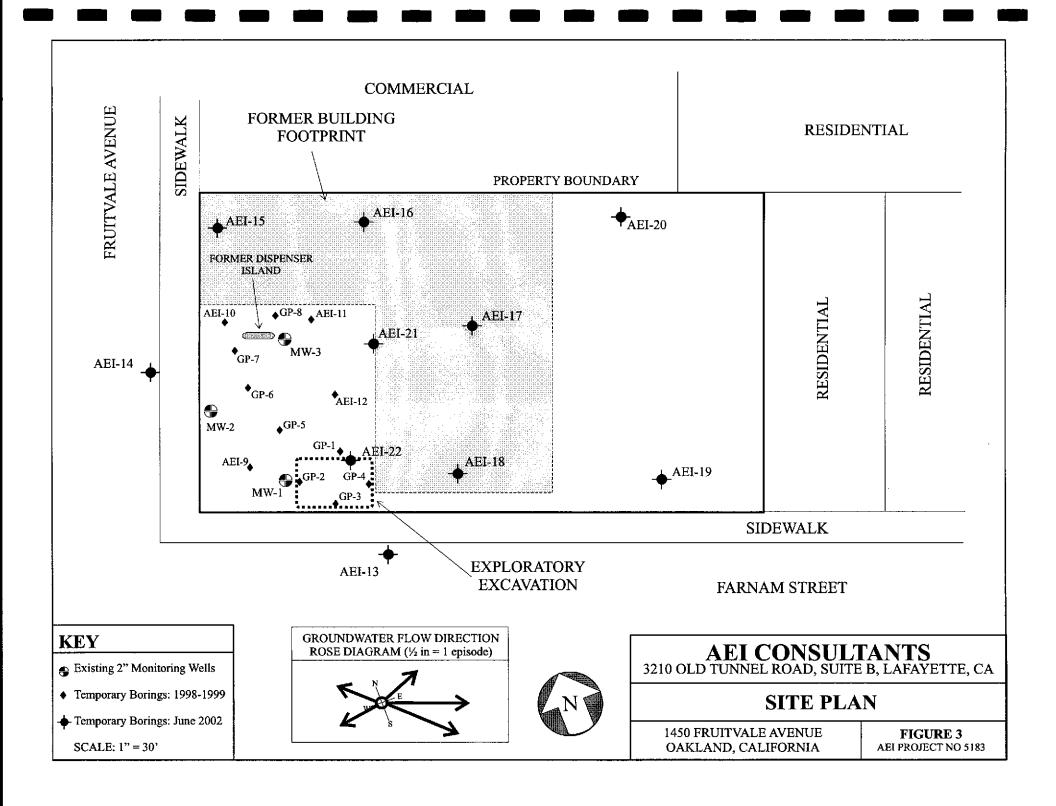
1450 FRUITVALE AVENUE OAKLAND, CALIFORNIA FIGURE 1 PROJECT No. 5183

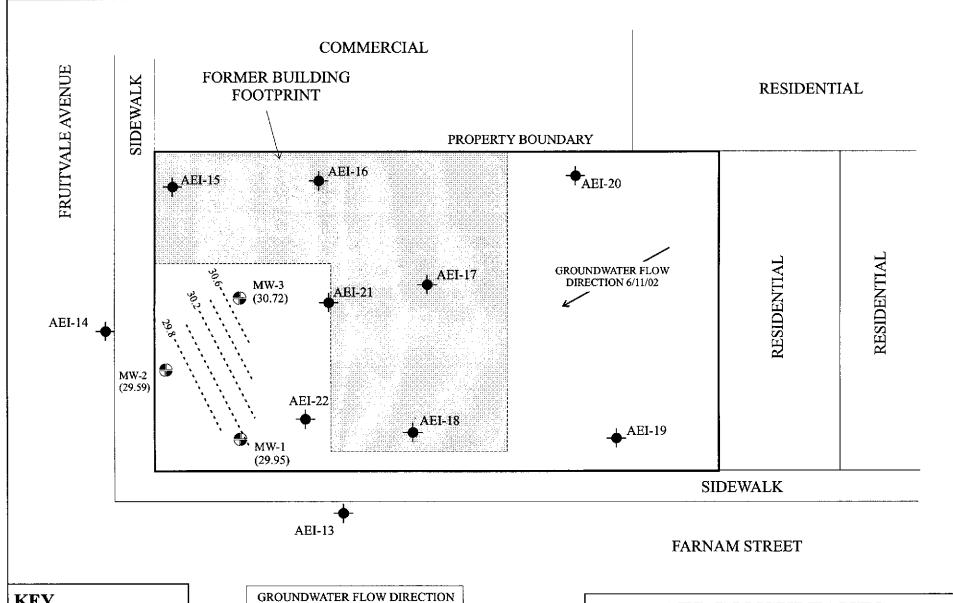


# AEI CONSULTANTS 3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

#### SITE LOCATION MAP

1450 FRUITVALE AVENUE OAKLAND, CALIFORNIA FIGURE 2 PROJECT NO. 5183

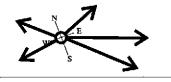




#### **KEY**

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

ROSE DIAGRAM (1/2 in = 1 episode)



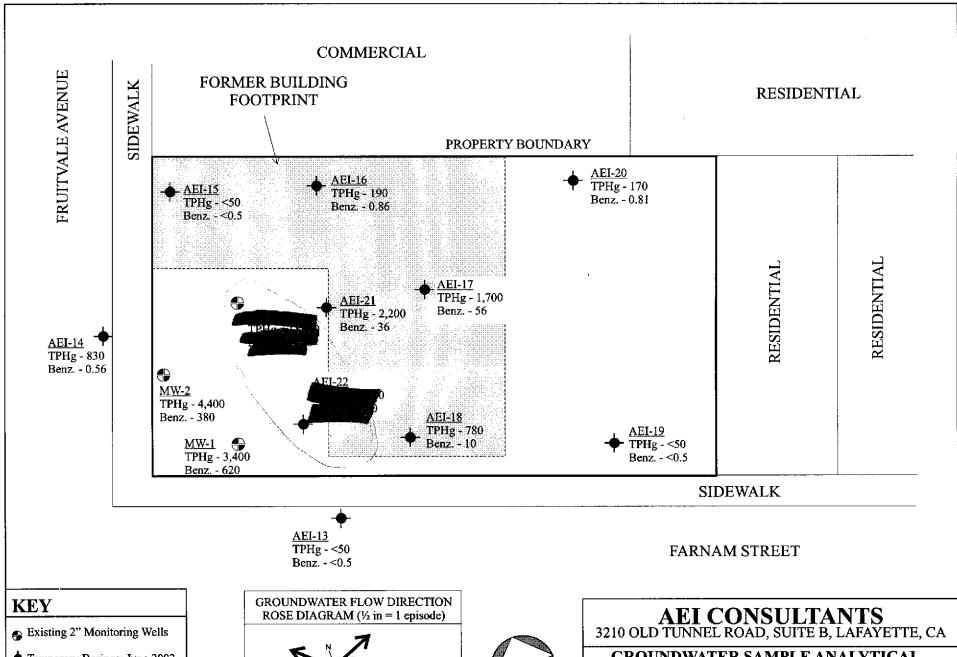


## AEI CONSULTANTS 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

#### WATER TABLE CONTOURS

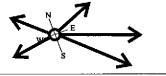
1450 FRUITVALE AVENUE OAKLAND, CALIFORNIA

FIGURE 4 AEI PROJECT NO 5183



Temporary Borings: June 2002 Sample Results in μg/l.

SCALE: 1" = 30'





### 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
	-	<0.05			<0.005	<0.005
AEI-14 10'	<1	< 0.05	< 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)

<sup>-</sup> Sample not analyzed for this chemical

TPH-g = Total petroleum hydrocarbons as gasoline

<sup>\*</sup> 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)

 $\mu g/L = micrograms \ per \ liter \ (ppb)$ 

TPH-g = Total petroleum hydrocarbons as gasoline

<sup>-</sup> Sample not analyzed for this chemical

<sup>\*</sup> 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)
<b>M W</b> 1	10/16/00	42.12	17.72	24.41
MW-1	10/16/00	42.13		32.98
	1/19/01	42.13	9.15	
	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
	* 0 / 1 5 / 0 0	.===	4.500					
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

 $\mu g/L = micrograms per liter$ 

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	Consul-	Sample	TPH-g	MTBE	Benzene	Toluene	Ethyl	Xylenes	Total
ID	tant	Date	mg/kg	mg/kg	mg/kg	mg/kg	Benzene	mg/kg	Lead
			90				mg/kg	8 8	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) at analyzed for this chemical stroleum 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_	7/0/1000	20,000	<10	1.000		120	200	9.5
AĒI-9W	ÁEI	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)

 $\mu$ g/L = micrograms per liter (ppb)

- Sample not analyzed for this chemical

TPH-g = Total petroleum hydrocarbons as gasoline

# APPENDIX A PERMIT DOCUMENTATION

25/23/2002 16:03 925/2836121 JUN-05-00 MON 01:11 PM ALAMEDA COUNTY PWA KM239 AEI CONSULTANTS (SF)



#### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 9454-1595

\_PHONE (510) 640-5554 MARLON WAGALLANES/FRANK CODD (614) 670-6702—
FAX (710)782-1919

DRILLING PERMIT	T APPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT  LOCA	FOR OFFICE USE  PERMIT NUMBER 402 - 0607  WELL NUMBER APN
CLIENT Name Mr. Bill Phus Corner Address Jerge aboved land the Phase 510 774-6187 City Die Alman Ans Zip 94611  APPLICANT Potey McInfyve Name Hist Phase 283-6121  Address 3210 010 Taging 1 12 Phase 283-6000 City Lassychic Asaire B 20 94549	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. Bubmit to ACPWA within 60 days after completion of permitted original Department of Water Resourcex-Well Completion Report.  3. Permit is void if project not begon within 90 days of approval date.  B. WATER SUPPLY WRULS
TYPE OF PROJECT  We'll Construction Geolechnical Investigation Cathodic Protection General General  Water Supply General General  Machanias Gwell Destruction General  PROPOSED WATER SUPPLY WELL USE  New Dompstia G Replacement Domestic G  Municipal G Industrial G Other G	1. Minimum surface and thickness is two inches of coment grout placed by fronts.  2. Minimum said depth is 50 feet for municipal and industrial weits or 20 foot for domestic and infigation wells uniez a leaser dopth is specially opproved.  C. GROUNDWATER MONITORING WELLS  INCLUDING FIELOMETERS  1. Minimum surface seal thickness is two inches of content grout placed by transle.  2. Minimum step depth for manituming wells is the incarinum depth practicable or 20 leaf.
DRILLING METHOD:  Mud Retary 13 Air Romry 11 Auger 13  Cable 11 Other 12 Vivect Poigh  DRILLER'S NAME 11 Y S MOX  DRILLER'S LICENSE NO. 70 5 9 7 7  WELL PROJECTS  Drill Hole Diameter 12 In. Maximum  Casing Diameter 13 Outh 16 Owner's Well Member	D. CEOTECHNICAL  Backfill bore hate by tremie with cement grout or coment grouts and mixture. Upper two-three foot replaced in kind or with compacted cuttings.  E. CATHODIC  Fill hate anode none with concrete placed by ramic.  Fill hate anode none with concrete placed by ramic.  Fill hate anode none with concrete placed by ramic.  Send a map of super and a special pormic is required for well despar than as feet.  C. SPECIAL CONDITIONS  MOTE: One application must be submitted for each will or well destruction, Multiple bettings an one application are necessarile for geotechnical and contamination investigations.
DEOTECHNICAL PROJECTS  Number of Rottings O Maximum  Hold Districtor O In. Depth 2 Oct.  ESTIMATED STARTING DATE 6 0 07  ESTIMATED COMPLETION DATE 6 0 07  I horoby agree to comply with all requirement of this people and Alameda Churry of Applicant's Signature DATE  PLEASE PRINT NAME 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	APPROVED DATE 6-7-02



# **EXCAVATION PERMIT**

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

PAGE 2 of 2

PERMIT NUMBER		SITE ADDRESS/LOCATION
Х (	0200565	SITE ADDRESS/LOCATION  ASSOCIATION  THE STEEM OF THE STEE
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER
	그렇게 하는 사람들은 사람	(Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE #	AND CLASS	CITY BUSINESS TAX #
654	919	[1] [1] - [1]
ATTENTION:		
I - State law requires secured an inqu	es that the contractor/owner call Underground iry identification number issued by USA. The	d Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has: USA telephone number is 1-300-642-2444. Underground Service Alert (USA) #
/- 4X hours r	WINE to crossing madels 367	
3- 48 hours p	prior to re-paving, a compaction	on certificate is required (waived for approved slurry backfill).
OWNER/BUILDER		Taulo
I, as owner of the property, are	build or improve for the purpose of sale).  I exempt from the sale requirements of the save resided in the residence for the 12.	compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business r of property who builds or improves thereon, and who does such work himself or through his own employe ever, the building or improvement is sold within one year of completion, the owner-builder will have the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will have prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than the prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than the prior to completion of the work.
tructures more than once during a  I, as owner of the property, am loes not apply to an owner of proc	ny three-year period. (Sec. 7044 Business at exclusively contracting with licensed contractive who hadde or improves the second	actors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's Licensed (spin)
tructures more than once during a  1, as owner of the property, am loes not apply to an owner of prop  1 I am exempt under Sec.	ny three-year period. (Sec. 7044 Business a	actors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law
tructures more than once during a  I, as owner of the property, am loes not apply to an owner of prop  I am exempt under Sec.  VORKER'S COMPENSATION	ny three-year period. (Sec. 7044 Business a exclusively contracting with licensed contracting with licensed contractly who builds or improves thereon, and service of this reason	actors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).
tructures more than once during a  I, as owner of the property, am loes not apply to an owner of prop  I am exempt under Sec.  VORKER'S COMPENSATION	ny three-year period. (Sec. 7044 Business at exclusively contracting with licensed contracting with licensed contracting with licensed contractly who builds or improves thereon, and the period of this reason.  B&PC for this reason.	actors to construct the project, (See. 7044, Business and Professions Code; The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).  Ficate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).
tructures more than once during a  I, as owner of the property, am loes not apply to an owner of prop  I am exempt under Sec.  VORKER'S COMPENSATION  I hereby affirm that I have a ce olicy #  Lecruity that in the performance	oy three-year period. (Sec. 7044 Business at exclusively contracting with licensed contracting with licensed contracting with licensed contracting with builds or improves thereon, and the provided of the pr	actors to construct the project, (Sec. 7044, Business and Professions Code; The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).  Signature of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).
Aructures more than once during a like a owner of the property, and loes not apply to an owner of property like a comparation of lik	company Name  of the work for which this permit is issued  c valued at one hundred dollars (\$100) or le  remaining this Certificate of Exemption, you  permit shall be deemed revoked. This permit to the permittee shall, to street maintenance. The permittee shall, to street maintenance. The permittee shall, on of the work permits, claims.	actors to construct the project, (Sec. 7044, Business and Professions Code; The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).  Signature of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).
Aructures more than once during a la la a owner of the property, am loes not apply to an owner of property la mexempt under Sec.  VORKER'S COMPENSATION  I hereby affirm that I have a celebrate of the latest lates	company Name  cof the work for which this permit is issued covered at one hundred dollars (\$100) or less the permit is company Name of the work for which this permit is issued at one hundred dollars (\$100) or less that the permit is deemed revoked. This permit hat the permittee shall be responsible for all to street mainteenance. The permittee shall y and all suits, claims, or actions brought be on of the work performed under the permittee of issuance unices an extension is granted to its permit of issuance unices an extension is granted to the work performed under the permittee of issuance unices an extension is granted to the work performed under the permit.	actors to construct the project, (Sec. 7044, Business and Professions Code; The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).  Sicate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).  It is shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is also become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith mit is issued pursuant to all provisions of Title 12 Chapter 12, 12 of the Oakland Municipal Code. It is It claims and liabilities arising out of work performed under the permit or arising out of permitter's failure to, and by acceptance of the permit agrees to defend, indemnity, save and hold harmless the City, its officers y any person for or on account of any bodily injuries, disease or illness or damage to persons and/or proper or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This by the Director of the Office of Planning and Building.
Articures more than once during a large transparent of the property, am ones not apply to an owner of program ones not apply to an owner of program of a program of the property and the property of large exempt under Sec.  WORKER'S COMPENSATION  I hereby affirm that I have a certification of the continuation of the continuation of the continuation of the continuation of the construction of the constructi	rdificate of consent to self-insure, or a certificate of the work for which this permit is issued at valued at one hundred dollars (\$100) or lefter making this Certificate of Exemption, you permit shall be deemed revoked. This permit to street maintenance. The permittee shall be responsible for all to street maintenance. The permittee shall y and all suits, claims, or actions brought by on of the work performed under the permit of issuance unices an extension is granted to determine the street maintenance in the street of the street work performed under the permit of issuance unices an extension is granted to the provisions of Chapter of Division 3 of the street work performed under the permit of issuance unices an extension is granted to the permit of the street work performed under the permit of issuance unices an extension is granted to the permit of the street work performed under the permit of issuance unices and extension is granted to the permit of the street work performed under the permit of issuance unices and extension is granted to the permit of the street work performed under the permit of issuance unices and permit of the pe	actors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law who contracts for such projects with a contractor(a) licensed pursuant to the Contractor's License law).  The contracts for such projects with a contractor(a) licensed pursuant to the Contractor's License law).  The contracts for such projects with a contractor(a) licensed pursuant to the Contractor's License law).  It is shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is allowed become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith mit is issued pursuant to all provisions of Title 12 Chapter 12, 12 of the Oakland Municipal Code. It is a leasn and liabilities arising out of work performed under the permit or arising out of permitter's failure to and sacceptance of the permit agrees to defend, indemnity, save and hold harmless the City, its officers y any person for or on account of any bodily injuries, disease or illness or damage to persons and/or proper or in consequence of permitter's failure to perform the obligations with respect to street maintenance. This by the Director of the Office of Planning and Building.  If the Business and Professions Code and my license is in full force and offect (if contractor), that I have read and correct under penalty of law.
Articures more than once during a large transparent of the property, am ones not apply to an owner of program ones not apply to an owner of program of a program of the property and the property of large exempt under Sec.  WORKER'S COMPENSATION  I hereby affirm that I have a certification of the continuation of the continuation of the continuation of the continuation of the construction of the constructi	company Name  cof the work for which this permit is issued a valued at one hundred dollars (\$100) or less the permit is issued at valued at one hundred dollars (\$100) or less the permit is deemed revoked. This permit is the permit be deemed revoked. This permit is the permit permit is small be deemed revoked. This permit is the permit in the permit is small be responsible for all to street mainteenance. The permittee shall by and all suits, claims, or actions brought be on of the work performed under the permit of issuance unless an extension is granted the provisions of Chapter 9 of Division 3 of enits, and that the above information is true.	actors to construct the project, (Sec. 7044, Business and Professions Code; The Contractor's License Law who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).  Ficate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).  It is bald not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is shadd become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith mut is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is a least a labilities arising out of work performed under the permit or arising out of permittee's fullure to any seceptance of the permit agrees to defend, indemnity, save and hold harmless the City, its officers y any person for or on account of any bodily injuries, disease or illness or damage to persons and/or proper or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This by the Director of the Office of Planning and Building.  Date  Date
It as owner of the property, am loss not apply to an owner of program of a polyton on owner of program of a polyton on owner of program of a polyton on owner of program of a polyton of the a polyton of a polyton of the a polyton of a polyton of the a po	rdificate of consent to self-insure, or a certificate of the work for which this permit is issued at one hundred dollars (\$100) or less of the work for which this permit is issued at one hundred dollars (\$100) or less or making this Certificate of Exemption, you permit shall be deemed revoked. This permit hat the permittee shall be responsible for all to street maintenance. The permittee shall be not of the work performed under the permit of issuance unices an extension is granted to deep the provisions of Chapter 9 of Division 3 of the control of the that the above information is true.  Agent for Schupletor Cowner Owner Cowner of Chapter 10 Owner 11 Owner 12 Owner 12 Owner 12 Owner 12 Owner 12 Owner 13 Owner 13 Owner 14 Owner 14 Owner 15 Owne	actors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law who contracts for such projects with a contractor(a) licensed pursuant to the Contractor's License law).  Ticate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).  It I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws as).  It is should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith mit is issued pursuant to all provisions of Title 12 Chapter 12, 12 of the Oakland Municipal Code. It is a claims and liabilities arising, out of work performed under the permit or arising out of permitter's failure to any bodily injuries, disease or illness or damage to persons and/or proper or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This by the Director of the Office of Planning and Building.  If the Business and Professions Code and my license is in full force and offect (if contractor), that I have read and correct under penalty of law.



# **EXCAVATION PERMIT**

CIVII IN

PAGE 2 of 2		ETS OR OTHER SPECIFIED	
			FARAM SINO
	200566	SITE ADDRESS/LOCATION  ADDRESS/LOCATION	RAMAN SING
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)	
CONTRACTOR'S LICENSE #	فيعي	CITY BUSINESS TAX #	
1- State law requires secured an inque 2- 48 hours p	orior to starting work, you Mi	d Service Alen (USA) two working days before excavati t USA telephone number is 1-800-642-2444. Undergroun UST CALL (510) 238-3651 to schedul on certificate is required (waived for	d Service Alen (USA) #
OWNER/BUILDER	the state of the s	or where is required (watved to)	approved siurry backfill).
provided that such improvements a purden of proving that he did not large of the property, an large performed prior to sale, (3) I has tructures more than once during a large of the property, an oes not apply to an owner of prop large exempt under Sec.	are not intended or offered for sale. If how build or improve for the purpose of sale), a exempt from the sale requirements of the ave resided in the residence for the 12 monthly three-year period. (Sec. 7044 Business at exclusively contracting with licensed contracting with li	actors to construct the project, (Sec. 7044, Business as who contracts for such projects with a contractor(s) lie	o does such work himself or through his own employear of completion, the owner-builder will have the of residence or appurtenances thereto, (2) the work violatined exemption on this subdivision on more than and Professions Code: The Contractor's License Lavensed pursuant to the Contractor's License law).
I hereby affirm that I have a ce	rtificate of consent to self-insure, or a certif	licate of Worker's Compensation Insurance, or a certif	ied copy thereof (Sec. 3700, Labor Code).
blicy #	Company Name		
I certify that in the performance California (not required for work	of the work for which this permit is issued t valued at one hundred dollars (\$100) or te	i. I shall not employ any person in any manner so as to	o become subject to the Worker's Compensation Law
ranted upon the express condition reform the obligations with respect id employees, from and against an stained or arising in the constructs	that the permittee shall be responsible for all to street maintenance. The permittee shall y and all suits, claims, or actions brought b	u should become subject to the Worker's Compensation mit is issued pursuant to all provisions of Title 12 Chail claims and liabilities arising out of work performed a and by acceptance of the permit agrees to defend, independently any person for or on account of any bodily injuries, or in consequence of permittee's failure to perform the by the Director of the Office of Planning and Building	prior 12.12 of the Oakland Municipal Code. It is under the permit or arising out of permittee's failure termify, save and hold harmless the City, its officers disease or illness or damage to persons and/or proper
2 Mily	May -	of the Business and Professions Code and my license is and correct under penalty of law.	s in full force and effect (if contractor), that There re $6-402$
TE STREET LAST	SPECIAL PAVDO DETAIL	UOL IDA V DESTRUCION	
SURFACED	REQUIRED? TYPES NO	HOLIDAY RESTRICTION?  NOV 1 - JAN 1) DIVES DATE )	LIMITED OPERATION AREA?
JED BY		(NOV 1 - JAN 1) TYES PRO )	(7AM-9AM & 4PM-6PM) TYES TO NO

# APPENDIX B SOIL BORING LOGS

Sheet: 1 of 1

Project No: 5183

Project Name: Fruitvale

Log of Borehole: SB-13

Client: PHUA

Location: Oakland, CA

	USCS			Sai	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2- 2- 4-			Hand Auger Black, earthy soils						Slight HC odor
6				AEI-13 5'	SS				PID <1 ppm
8-			Clay Sandy, grey color	-					TID (1 ppm
10-			Clay Firm clay, less sand, redish/grey mottled appearance						Slight HC odor
_				AEI-13 10'	SS			_	4 <b>3</b>
12-									PID <1 ppm
14-			Clay Stiff, tan color, very few sands					_ ▼	
16-				AEI-13 15'	SS				
- 18			Clay Gravelly, sandy						PID <1 ppm
20-				AEI-13 20'	SS			1	
<b>22</b> -									
24-			Clay Stiff, tan color, 10-20 % sands						PID <1 ppm
26-				AEI-25'	SS				
28-			Sand	1					Slight HC odor
30-			Silty w/ lots of gravels	AEI-13 30'	99			-	
- 32~			End of Borehole	ALI-10 00	55			1	
32~								1	
34									
-									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30 Depth to Water: 14.5 Reviewed by:

Logged by: AW

Project No: 5183

Project Name: Fruitvale

Log of Borehole: SB-14

Client: PHUA

Location: Oakland, CA

	USCS			Sai	nple l	Data			
Depth	Symbol	Label	Subsurface Description	Sample	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2 - 4			Hand Auger Black, earthy soils						
6- 8-			Clay Sandy, brown color						
10-			Clay Stiff, olive green color, some gravels	AEI-14 10'	SS				PID 2 ppm
12- - 14-			Clay Firm, very sandy, green/brown mottled appearance						Slight HC odor
16-			Clay Stiff, olive green color	AEI-14 15'	SS				PID 1 ppm
18— 20— 22— 24—			Clay Gravelly, 30% gravels, olive color	AEI-14 20'	SS				Slight HC odor PID 4 ppm  No HC odor
	- 			AEI-14 25'	SS				NO 110 0001
26- - 28-			Clay Soft, very wet, tan color	ALI-17 40	33				
30- 32- 34-			Sand Clayey w/ some gravels, wet and dry layers	AEI-14 30'	SS			<b>T</b>	

Drill Date 6/10/02

**Drill Method: Direct Push** 

Total Depth: 35 Depth to Water: 32 Reviewed by:

Logged by: AW

Sheet: 1 of 1

Project No: 5183

Project Name: Fruitvale

Log of Borehole: SB-15

Client: PHUA

Location: Oakland, CA

	USCS			Sai	mple	Data			· · · · · · · · · · · · · · · · · · ·
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2- 4-			Sand Clayey, some gravels, black color						No HC odor
			··· =	AEI-15 5'	SS				PID <1ppm
6-			Clay						
8			Very sandy, some gravels, tan color						
10-				AEI-15 10'	SS				
12 14			Clay Gravelly, black color						
-			Sand Black color, gravelly	AEI-15 15'	SS				PID <1 ppm
16-				7.2.1010					
18-				AEI-15 18'	SS				No HC odor
20- 22-			Clay Dry, sandy, gravelly, brown color			•			PID <1 ppm
								<b>X</b>	
24-				AEI-15 24'	SS				No HC odor
26-	000 000 0000		Gravel						
28-			Mixed with firm brown clays and some sands						
30-	كالمخت		End of Borehole	AEI-15 30'	SS			;	
32-									
-									
34									
	1		İ						·

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30 Depth to Water: 23 Reviewed by:

Logged by: AW

Project No: 5183

Project Name: Fruitvale

Log of Borehole: SB-16

Client: PHUA

Location: Oakland, CA

	USCS			Sa	mple	Data				
Depth	Symbol	Label	Subsurface Description	Sample Label	Type	Blow/ft	Recovery	Well Data	Remarks	
0-			Ground Surface							
- 2- - 4-			Clay Stiff, gravelly 10-20%, black						No HC odor	
6-				AEI-16 5'	SS	·			PID <1ppm	
8- 8-			Clay							
10-			Firm, gravel 50%, brown color	AEI-16 10'	SS					
12-										
14- -				AEI-16 15'	SS				PID <1 ppm	
16-			Clay Stiff, tan color	ACI-10 15	33				HC odor	
18- -				Clay	AEI-16 19'	SS				PID 309 ppm
20-			Stiff, olive green color, minor gravels	ALI-TO TO	30					
22- - 24-				Clay Stiff, sandy, brownish/green mottled color						PID 17 ppm
26-			Clay	AEI-16 25'	SS					
-			Gravelly, sandy, wet							
28-			Mottled grey/green/bron appearance, gravelly, wet					*		
30-			End of Borehole	1						
32- -										
34- -	-									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 30 Depth to Water: 28 Reviewed by:

Logged by: AW

Project Name: Fruitvale

Log of Borehole: SB-17

Client: PHUA

Location: Oakland, CA

	USC	os		Sa	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2-			Soil Firm, clayey, black color						
4- 6- 8-			Clay Firm, green color, some gravels and sands 20-30%						No HC odor
10-	* Z.AZ.AZ			AEI-17 10'	SS				
12-			Sand Brown, gravelly, some clay						No HC odor
'-									
16-				AEI-17 15'	SS				Strong HC odor
18- - 20-			Clay Stiff, olive green color, minor						Slight HC odor
[ 20]			gravels	AEI-17 20'	SS				Slight HC 0001
22 - 24								<b>*</b>	
				AEI-17 25'	SS		-		
26-				AEI-17 25	৩৩				
28-			Clay Stiff, green color						
30-				AEI-17 30'	SS				Strong HC odor
32-			Clay Stiff. green	AEI-1/ 30	33				
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

Project Name: Fruitvale

Log of Borehole: SB-18

Client: PHUA

Location: Oakland, CA

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

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 35 Depth to Water: 25.3 Reviewed by:

Logged by: AW

Project Name: Fruitvale

Log of Borehole: SB-19

Client: PHUA

Location: Oakland, CA

	USC	cs		Sa	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2- 4-			<i>Soil</i> Firm, black color, 20% gravels						
6- 8- 10-			<i>Clay</i> Stiff, brownish, 20% gravels	AEI-19 10'	SS				No HC odor PID <1 ppm
12- - 14-				AEI-19 15'	SS				PID <1 ppm
16- - 18-			<i>Clay</i> Stiff, green color, fine grained	AEI-19 IS	55				HC odor
20- - 22-				AEI-19 20'	SS			<b>X</b>	PID 9 ppm
24-			Clay Firm, brown, 20% gravels		-				PID 3 ppm
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

Project Name: Fruitvale

Log of Borehole: SB-20

Client: PHUA

Location: Oakland, CA

	uso	os		Sa	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2- - 4-			<i>Soil</i> Firm, black color, sandy						
6-				AEI-20 5'	SS				
- 8-									PID <1 ppm
10-			Clay Soft, brown, 30% sand	AEI-20 10'	SS				PID 2 ppm
-				AEI-20 10	33				
12- - 14-									Slight HC odor
14° - 16-			Clay Stiff, green color	AEI-20 15'	SS				PID 4 ppm
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	AEI-20 25'	SS				PID 13 ppm
28-			Stiff, green/grey color w/ some orange sands						PID 8 ppm
30-									, то о ррип
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

Sheet: 1 of 1

Project No: 5183

Project Name: Fruitvale

Log of Borehole: SB-21

Client: PHUA

Location: Oakland, CA

	USC	cs		Sa	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2 - 4			Soll Firm, black color, 30% sand						Slight HC odor
6-				AEI-21 5'	SS				HC odor
8-			Clay						
			Firm, olive green color, 5% sand	AEI-21 9'	SS	_			
10-									
12-			Clay Stiff, olive green color, 20%					•	Strong HC odor
14			gravels	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	300°		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	marcel Ale		End of Borehole						
30-									
<b>32</b> ⊣									
34-									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 28 Depth to Water: 13 Reviewed by:

Logged by: AW

Sheet: 1 of 1

Project Name: Fruitvale

Log of Borehole: SB-22

Client: PHUA

Location: Oakland, CA

	US	cs		Sa	mple	Data			
Depth	Symbol	Label	Subsurface Description	Sample Label	Туре	Blow/ft	Recovery	Well Data	Remarks
0-			Ground Surface						
2- 2- - 4-			Soil Firm, sands and gravels present						
6-			al	AEI-22 5'	SS				
8-			Clay Stiff w/ fine sands and silts, dk brown						
10-				AEI-22 10'	SS				
12-					:				HC odor
14-			Clay Stiff, olive green color, 10%	AEI-22 15'	SS				
16-			gravels	ALI-ZZ 13	33				
18-								•	Olinha I I Olinha
20-				AEI-22 20'	SS				Slight HC odor
22-			Clay				:		
24-			Stiff, olive green color, gravel locally						
26-				AEI-22 25'	SS				
28-	1		End of Borehole						
28-	]								
30-									
32-									
34-									

Drill Date 6/10/02

Drill Method: Direct Push

Total Depth: 25 Depth to Water: 19 Reviewed by:

Logged by: AW

# 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 Name of Sampler: PM / AW Job Number: 3581 Project Address: 1450 Fruitvale Avenue MONITORING WELL DATA Well Casing Diameter (2"/4"/6") Seal at Grade -- Type and Condition Cement, good Well Cap & Lock -- OK/Replace OK 42.13 Elevation of Top of Casing Depth of Well 28.00 12.18 Depth to Water 29.95 Water Elevation 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 Vol Remvd Temp pН Cond Comments 11:05 (deg C) (gal) (µs) 11:07 2 20.8 7.17 620 578 11:09 4 19.3 7.03 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") 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 Vol Remvd Comments Temp pН Cond 11:25 (gal) (deg C) $(\mu s)$ 11:27 2 21.9 6.80 1090 11:29 20.1 6.98 1060 4 11:31 6 1035 19.6 6.88 11:33 8 19.4 6.70 1008 COMMENTS (i.e., sample odor, well recharge time & percent, etc.) Mild HC odor

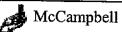
TD - Total Depth of Well DTW - Depth To Water

#### AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM Monitoring Well Number: MW-3 Date of Sampling: 06/11/02 Project Name: Jay Phares Job Number: 3581 Name of Sampler: PM / AW Project Address: 1450 Fruitvale Avenue MONITORING WELL DATA Well Casing Diameter (2"/4"/6") 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 Vol Remvd Comments Time Temp pН Cond 11:42 (gal) (deg C) $(\mu S)$ 11:43 2 22.3 7.32 1078 7.33 11:45 4 20.0 1050 11:48 6 1031 19.0 7.33 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



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 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.

Angela Rydelius, Lab Manager

iii.			
	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\*

	nethod: SW5030B				nethods: SW802	1B/8015Cm		<u> </u>	Work Orde	т: 020620
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	#
		-	<u> </u>							
					. :					
								<del></del>		
	Limit for DF =1; not detected at or	w	50	5.0	0.5	0.5	0.5	0.5	ug	/L
	reporting limit	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).



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: SW8021	IB/8015Cm	xtraction:	SW5030E	3	Ext. Date:	6/12/02	Spiked Sample ID: 0206199-003A						
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
Sompound	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			
МТВЕ	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.

<sup>\*</sup> 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.

**CHAIN-OF-CUSTODY RECORD** 

Page 1 of 1

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

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: PO: 3581; Fruitvale-G

12-Jun-02

												_		_	
								Requested Tests							
OV40ID	Madrin	Callection Date	Rottle	9021B/9015	entral consecutive	that were o	name . Here	. House, and the second control of the secon	mary and of	and the state of	er ramon	COMPANY 1.20	mari, improvince	unque trans-	are reme year.
CilentSampiD	Matrix	Conection Date	Bottle	0021D/0013											
NAME OF THE PARTY	Water	6/11/02 1:09:00 PM		Α			/· · · · · · · · · · · · · · · · · · ·				· ·-			-	• •
MAA-1	VVAICI	0/11/02/1:05:0011/01									<del></del>			<del></del>	
MW-2	Water	6/11/02 1:15:00 PM		Α				<u> </u>							
MW-3	N. J. A	C(44/00 4-00-00 DIA		^				ļ							
		MW-1 Water MW-2 Water	MW-1 Water 6/11/02 1:09:00 PM MW-2 Water 6/11/02 1:15:00 PM	MW-1 Water 6/11/02 1:09:00 PM MW-2 Water 6/11/02 1:15:00 PM	MW-1 Water 6/11/02 1:09:00 PM A MW-2 Water 6/11/02 1:15:00 PM A	MW-1 Water 6/11/02 1:09:00 PM A MW-2 Water 6/11/02 1:15:00 PM A	MW-1 Water 6/11/02 1:09:00 PM A MW-2 Water 6/11/02 1:15:00 PM A	MW-1 Water 6/11/02 1:09:00 PM A MW-2 Water 6/11/02 1:15:00 PM A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A	MW-1 Water 6/11/02 1:09:00 PM A MW-2 Water 6/11/02 1:15:00 PM A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A	MW-1         Water         6/11/02 1:09:00 PM         A           MW-2         Water         6/11/02 1:15:00 PM         A

Date/Time		te/Time
Relinquished by:	Received by:	
Relinquished by:	Received by:	, quagga, buddon b bis.
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.

	101	McC	MPBE	LL AI	VALY	TIC	ALI	NC.										$\mathcal{Q}_{i}$	<u>) (</u>	$\mathcal{N}$	<u>2</u> }	S				_		RE		,
- X	***		110 2	"AVENU	ロ かんり ゴ	11 WIN	7									_ :	•	CF	[A]	N	ЭF	CU	IST	OI	ΣY	RF	CC	RE	)	
V	Telepl	hone: (925) 7	98-1620	cricco,	CA 9433		Fax:	(025	ነ ታበወ	160	<b>a</b>				TŢ	JRI	LA V	ROI	JNI	T	ME	)					:	 ב	, 1	r-r
	Report To: Peter	McIntyre			Bill	To:	2 002.	()23	1790	-102			_				<u> </u>			_			RU	SH	24		UR	48 H	Юілк	5 DAY
;	Company: All E	nvironmental								<u> </u>					7	γ	<del>,</del>	Ana	ysis	Req	uest					T		her		omments
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	Tele: (925) 283-6	5000	19-415/	<del>-</del>											E/E								- 1						- [	
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		1	SAN	<b>PLING</b>		7		M A T	RIX	_	METI	dOF.	Gas (602/8020		& Gre	Total Petroleum Hydrocarbons (418.1)	BTEX ONLY (BDA 402 ( 8000)	9	EPA 608 / 8080 PCB's ONLY			EPA 625 / 8270 / 8310		Lead (7240/7421/239.2/6010)						
- 1			<b> </b>	$\top$		Type Containers	<del>                                     </del>	1411	<del>Т-1</del>	→ P	RESE	RVE	) se	TPH as Diesel (8015)	Ö	품	DA.		Ö	EPA 624 / 8240 / 8260				239.2	1			- {	1.	
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		tical Inc.	http://www.i	hone : 925-798-1620 - Fax : 925-1 mccampbell.com E-mail: main@n	798-1622 necampbell.com	
All Environme	ental, Inc.	Client Project II	D: 3581; Fruitvale-GWM	Date Sampled: 06/1	1/02	
3210 Old Tuni	nel Rd., Ste. B			Date Received: 06/1	2/02	
Lafayette, CA	04640 4167	Client Contact:	Peter McIntyre	Date Extracted: 06/2	1/02	
Latayene, CA	<del>74347-4</del> 13 <i>1</i>	Client P.O.:		Date Analyzed: 06/2	1/02	
extraction method: S	Wiscoand	Me	thyl tert-Butyl Ether*			
Lab (D	Client ID	Matrix	Analytical methods: SW8260B Methyl-t-butyl eth	er (MTBE)	Work Order: DF	0206202 % SS
00113	MW-1	w	2.4		3.3	
002B	MW-2	w	23		•	113
003B	MW-3	w			5	114
			NII Seri J. S.			3.10
			ND<2.5	<u> </u>	5	118
<del>-</del>			NI×2.5		5	118
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			NI×2.5		5	118
			NI×2.5		5	118
			NI×2.5		5	118
			NI×2.5		5	118
			NI×2.5		5	118
			NIV-2.5		5	118
	Limit for DF =1; not detected at or	W	NI×2.5			

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

#### **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

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:

PO:

3581; Fruitvale-G

26-Jun-02

				•				Requested Tests
Sample ID	ClientSamplD	Matrix	Collection Date	Bottle	8021B/8015	SW8260B		
0206202-001	MW-1	Water	6/11/02 1:09:00 PM		A	В	T	
0206202-002	MW-2	Water	6/11/02 1:15:00 PM	1 .	A	В	<del> </del>	
0206202-003	MW-3	Water	6/11/02 1-29:00 PM	1	Δ	- Б		

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

Date/Time	Date/Time
Relinquished by:	Received by:
Relinquished by:	Received by:
Relinquished by:	Received by:
THE CONTRACT	

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 8-Brass P-Plastic QT-Other

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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-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 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.

Angela Rydelius, Lab Manager

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

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-22 201 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 A800 AEI-21 13' S 12,j ND ND 0.090 0.028 ND 1 ---# Reporting Limit for DF = 1; W 50 5.0 0.5 0.5 0.5 0.5 ug/L

0.05 \*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.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

S

1.0

+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).

0.005

0.005

0.005

0.005

mg/Kg

ND means not detected at or

above the reporting limit

DF = dilution factor.

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: SW802	21B/8015Cm E	xtraction:	SW50308	3	Ext. Date:	6/07/02	S	piked Sampl	le 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
МТВЕ	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.

<sup>\*</sup> 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.

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: 2434

Matrix: S

WorkOrder: 0206140

EPA Method: SW802	1B/8015Cm E	xtraction:	SW5030E	3	Ext. Date:	6/13/02	S	piked Sampl	le ID: N/A	·
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LC\$	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.

<sup>\*</sup> 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.

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

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0206140

Client:

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

(925) 283-6000

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

PO:

13-Jun-02

						Reque	ested Tests		
Sample ID	ClientSampID	Matrix	Collection Date	Bottle	8021B/8015				
0206140-001	AEI-22 5'	Soil	6/10/02	1	A			· · · · · ·	
0206140-002	AEI-22 10'	Soil	6/10/02	-	A				
0206140-003	AEI-22 15'	Soil	6/10/02	T	A				
0206140-004	AEI-22 20'	Soil	6/10/02	-	Α				
0206140-005	AEI-22 25'	Soil	6/10/02		Α				
0206140-006	AEI-21 5'	Soil	6/10/02		A				<del></del>
0206140-007	AEI-21 9'	Soil	6/10/02		A				<del></del>
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.

Company: All En 3210 ( Lafaye Tele: (925) 283-6	old Tunnel Rotte, CA 9454	oad, Sui 9-4157	te B	Bill							-8	5	7	1.	AR	Anai	ysis )	Requ	est	<del>-</del>					Othe		UR 5
	183-	A v /c /ou		Proje	(925) ect Na	283-6 me:		<b>∀</b> ~	q L	e	8020 + 8015V MTPE	. 1	& Grease (5520 E&F/B&F)	arbons (418.1)	/ 8020)		NLY		25 / 8270 / 8317			110)					
SAMPLE ID	LOCATION	SAN Date	Time	iners	Type Containers		ATR	Sludge	PRE	SERVE	TEX & TPH as Gas (602/8020	TPH as Diesel (8015)	Total Petroleum Oil & G	Total Petroleum Hydrocarbons (418.1)	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 / 8210	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)			-		
AEI-ZZ 5' AEI-ZZ 10' AEI-ZZ 15! AEI-ZZ 20' AEI-ZZ 25		6/10		1	pot	<del></del>			X X		\ \(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	P	12	or di	B E	EP.	EP.	EP/	PA	CAP	LOF	Lead	RCI	+			Hele
AET-22 20' AET-22.25 1年-21 <b>5</b> ' AET-24 9'				<del>                                     </del>	() () ()	XX			X X		X			<del></del>				<del> </del> -							+		10/9 40/9
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	McCamp	bell /	Analytical Inc	;		· 110 2nd	Avenue South, #	D7, Pacheco, CA	94553-55	600
1	Environmental,		Clien	t Project ID: 51	83; Fruitvale	http://www	Date Sam	E-mail: main@n	798-1622 necampbel	ll.com
3210	0 Old Tunnel R	d., Ste.	В				<del></del>	pled: 06/1 ived: 06/1;		
Lafa	yette, CA 9454	9-4157		Contact: Peter	McIntyre			cted: 06/12		
		<del> </del>	Client			<del>_</del>	D. A. A.			110.000
	Gas method: SW5030B	oline R	Range (C6-C12	) Volatile Hydr Analyti	ocarbons as	s Gasoline	with RTTV	and MTR	70Z-U0/ 7*	19/02
Lab ID	Client ID	Ma	trix TPH(g)	MTBE	cal methods: SW Benzen		11			Order: 02062
002A	i AEI-13 10'	S	ND		T THE DIT	e Toluc	ne Ethylben	zene Xylene	s D	F % SS
008V	+ AEI-15 10'	7 <sup>-</sup> s	<del></del>	U	<del> </del> - ND	_   ND	םא ו	ָ אס	1	109
014A	ΛΕΙ-16 10'	-  - s	·	ND	ND	םא	ND	, ND	-r	110
016A	AEI-16 19	+ s		ND	ND	ND	, ND	ı ND	<u> </u>	- [". HI
018A	AEI-18 4'	+	-   41,j -	ND<0.2	ND<0.02	ND<0.0	0.038	I I 0.079	     5	+
020A	AEI-18 14'	+ <del>s</del>	- - ND	+ND	ND	CIN	ND	ND		115
025A	AEI-19 15'	+- s	- 290,b,j	-   ND<2.5	ND<0.2	0.91	2.3	2.9	50	#
029A		- S	-   ND 	+ND	ND	ND	ND ND	ND	1 1	
<del> </del> -	AEI-20 10'	+ <del>S</del>	ND	ND	ND	ND	ND	ND	1	. L 110
- <u>-</u>	AEI-20 20	<u>s</u>	42,j	ND<0.5	ND<0.05	0.20	-j i 0.12	0.15	j	1 108 L:
034A	AEI-14 (0'	<u>  s</u>	ND	ND	ND	, ND	- ND		10	·#
)39A   	AEI-17 10'	<u> </u>	ND	ND	ND	 , ND	ND	j ND 	· 1	118
41A	AEI-17 20'	<u>s</u>	290,a	ND<0.5	0.84	1.3		ND		111
44A	AEI-13W	W	ND ND	ND	ND	ND	1.8	2.8	10	#
45A	AEI-14W	W	830.j	ND ND	0.56	2.7	ND -	ND	1	118
16A —   —	AEI-15W	w	ND	1 15	ND 1		1.2	2.9		107
7A	AEI-16W	w	190,a,i	ND ND	0.86	ND 	ND	ND	_1	103
porting L	imit for DF =1; not detected at or -	w	50	5.0		0.95	0.75	1.3	<u> </u>	113
ove the n	eporting limit	S	1.0	0.05	0.5	$-\frac{0.5}{0.005}$	0.5	0.5	ug/	
ater and u	ADOL Samples are -						V.003 :	0.005	mg/J	Kg

<sup>\*</sup>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 coclutes 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

	McCampl		ytical Inc.		<del>                                     </del>	110 2nd Av Telepho	ne: 925-798-1620	checo, CA 945	553-5560	
	ivironmental, I Old Tunnel Rd		Client Pr	oject ID: 5183	; Fruitvale	http://www.nic	campbell.com E-ma	ii: main@nicca	mpbell.co	in
			Charac				Date Received			
Lataye	tte, CA 94549	-4157	Client P.(	ntact: Peter Me	elntyre		Date Extracted	: 06/12/02	2	
XItuation :	Gaso nethod: SW5030B	line Rang	J	olatile Hydroc	arbone ne (	]	Date Analyzed	: 06/13/02	-06/19	/02
ab ID	Client ID	Matrix	TPH(g)	Analytical MTBE	- 07144	21B/8015Cm	ith BTEX and		Work Ord	ar Minen
048A	AEI-18W	W		WIBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S
149A	AEI-19W	†	780,a  ND	ND	10	1.1	41	20	1 1	#
50A	AEI-20W	T-w-+	170,a,i	ND	ND †	ND .	ND !	ND	1	104
51A   	AEI-21W	-  +- , w	2200,a,í	ND   ND<50	0.81	0.55	7.7	3.1	1	#
52A   	AEI-22W		25,000,a	ND<250	36	ND<5.0	110	58	10	#
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	porting Limit for DF =1; W 50 5.0 0.5 0.5 0.5	
	ove the reporting limit S 1.0 0.05 0.005 0.005 0.005	
Į	ater and vapor samples are considered in the 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 coelules 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; () 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).

Edward Hamilton, Lab Director

All Environm			http://www.	hone: 925-798-1620 F	'ax : 925-798-j.	622	
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Lafayette, CA	94549-4157	Client Contact:	Peter McIntyre	Date Extracted:			
		Client P.O.:		Date Analyzed:			
traction method: S	THE DAD	Met	hyl tert-Butyl Ether*		00/21/02		
Lab ID	Client ID		Analytical methods: SW8260D		Wa	ork Order:	
	Cheff ID	Matrix	Methyl-t-butyl ethe	г (МТВЕ)	77.0	DF	9
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DHS Certification No. 1644

Edward Hamilton, Lab Director

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Report To: Peter M					Bill T	0:														Ār	aly	sis I	\eq1	ıest			,			П	Ōť	her		Comments	
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	e, CA 94549	-4157											ĮĒ		E&F	_							3310			•					1	
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McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO CA 94553 Telephone: (925) 798-1620 Fax: (925) 798-1622 RUSH 24 HOUR 48 HOUR 5 DAY Report To: Peter McIntyre Bill To: Analysis Request Other Company: All Environmental Comments 3210 Old Tunnel Road, Suite B Total Petroleum Oil & Grease (5520 E&F/B&F) Lafayette, CA 94549-4157 PAH's / PNA's by EPA 625 / 8270 / 8310 Tele: (925) 283-6000 Fax: (925) 283-6121 Total Petroleum Hydrocarbons (418.1) Project #: 5136 Project Name: FRUITVALE Project Location: OAKLAND BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 PCB's ONLY BTEX & TPH as Gas (602/8020 Lead (7240/7421/239.2/6010) Sampler Signature: - Low Will AMPLING METHOD EPA 624 / 8240 / 8260 TPH as Diesel (8015) MATRIX PRESERVED Type Containers # Containers EPA 601 / 8010 EPA 608 / 8080 CAM-17 Metals EPA 625 / 8270 LUFT 5 Metals SAMPLE ID LOCATION Air Sludge Date Time Water Other Other Other Soil S HEZ -20 tr 6/11 ACET NOT. 20 251 HOLD HLD ItoLD HOLD HOLD 30' HOLD 182-17 λ HOLD 20 X HOLD 30 ° HOLL MOA  $\bowtie$ 6/12 VOA Reinquished By: Received By: Date: Time: Remarks: 2:50 Relinquished By: Time: Received By: Relinquished By: Date: Time: Received By:

McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553 Telephone: (925) 798-1620 Fax: (925) 798-1622 RUSH 24 HOUR 48 HOUR 5 DAY Report To: Peter McIntyre Bill To: Analysis Request Company: All Environmental Other Comments 3210 Old Tunnel Road, Suite B Total Petroleum Oil & Grease (5520 E&F/B&F) Lafayette, CA 94549-4157 Tele: (925) 283-6000 EPA 625 / 8270 / 8310 Fax: (925) 283-6121 Total Petroleum Hydrocarbons (418.1) Project #: 5138 Project Name: FRUIT VALE Project Location: OAKLAND BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 PCB'S ONLY Sampler Signature: Lead (7240/7421/239.2/6010) SAMPLING METHOD EPA 624 / 8240 / 8260 **MATRIX** TPH as Diesel (8015) Type Containers PRESERVED PAH's / PNA's by # Containers EPA 601 / 8010 BTEX & TPH as EPA 608 / 8080 CAM-17 Metals EPA 625 / 8270 - SAMPLE ID LOCATION Date Time Soil Air Sludge HCI HNO, Ger Other Ş AE I -15 6/12 VOAX 6/11 VOA 6112 6/12 VOA 614 VOA 22 VOA Relinquished By: Date: Acceived By: Time: Remarks: Moon Time: Received By: Relinquished By: Date: Time: Received By:

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Jun-19-02 6:34PM;

#### McCampbell Analytical Inc.

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

## **CHAIN-OF-CUSTODY RECORD**

Page | of 1

WorkOrder: 0206203

Client:

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

TEL:

(925) 283-6000 (925) 283-6121

FAX: ProjectNo:

5183; Fruitvale

PO:

12-Jun 63

								12-Jun-92
Sample ID	ClientSampID	Matrix	Collection Date	Bottle	8021B/8015	Service Months	Requested Tests	The second secon
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0206203-001	AEI-13 5'	Soil	6/11/02		•			
0206203-002	AEI-13 10	Soil	6/11/02	- 1	A			
0206203-003	AEI-13 15"	Soil	6/11/02	1	A			
0206203-004	AEI-13 20'	Soil	6/11/02					
0206203-005	AEI-13 25'	Soil	6/11/02	1	A			The second section is a second section of the second section of the second section is a second section of the second section of the second section is a second section of the second section of the second section is a second section of the section of the s
0206203-006	AEI-13 30	Soil	6/11/02					
0206203-007	AEI-15 5'	Soil	6/11/02					
0206203-008	AEI-15 10'	Soil	6/11/02	İ				
0206203-009	AEI-15 15'	Soil	6/11/02	. <u>i</u>	<del>-</del>			
0206203-010	AEI-15 18'	Soil	6/11/02	- i				
0206203-011	AEI-15 24'	Soil	6/11/02	•				
0206203-012	AEI-15 30	Soif	6/11/02	į		·		
0206203-013	AEI-16.5"	Soil	6/11/02		<u>^</u>	<del></del>		
0206203-014	AEI-16 10	Soil	6/11/02	. <b>1</b>	<u> </u>			
0206203-015	AEI-16 15'	Soil	6/11/02	-i				
0206203-016	AEI-16 19'	Soil	6/11/02	•	<u> </u>			
Comments:	•	<u>-</u>	·					
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

# Sent By: McCampbell Analytical, Inc.; 1 925

798 4612;

McCampbell Analytical Inc.

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

## **CHAIN-OF-CUSTODY RECORD**

Page | of |

WorkOrder: 0206203

Requested Tests

Client:

Sample ID

0206203-017

0206203-018

0206203-019

0206203-020

0206203-021

0206203-022

0206203-023

0206203-024

0206203-025

0206203-026

0206203-027

0206203-028

0206203-029

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0206203-031

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

ClientSamplD

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AEI-18 4'

AEI-18 10°

AEI-18 14'

AEI-18 20'

AEI-18 25\*

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AEI-19 10

AEI-19 15'

AEI-19 20'

AEI-19 25'

AEI-20 5

AEI-20 10'

AEI-20 15'

AEI-20 20

AEI-20 25'

TEL:

(925) 283-6000

FAX: ProjectNo:

(925) 283-6121

**Bottle** 

8021B/8015

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5183; Fruitvale

**Collection Date** 

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12-Jun-02

0206203-032 Comments:

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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

Page

6:35PM;

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: FAX:

(925) 283-6000

ProjectNo:

(925) 283-6121 5183; Fruitvale

PO:

Sample ID	CilentSampiD	Matrix	Collection Date	Bottle 8021B/8015	Requested Tests	12-Jun-02
0206203-033 0206203-034 0206203-035 0206203-036 0206203-036 0206203-039 0206203-040 0206203-041 0206203-042 0206203-044 0206203-044 0206203-045 0206203-046 0206203-048 Comments:	AEI-20 33' AEI-14 10' AEI-14 15' AEI-14 20' AEI-14 25' AEI-17 10' AEI-17 10' AEI-17 70' AEI-17 30' AEI-17 30' AEI-15W AEI-16W AEI-18W	Soil Soil Soil Soil Soil Soil Soil Soil	6/11/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02 6/12/02	A A A A A A A A A A A A A A A A A A A		
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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

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

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of i

WorkOrder: 0206203

Client

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

TEL: FAX:

(925) 283-6000 (925) 283-6121

ProjectNo:

5183; Fruitvale

Sample ID	ClientSamplD	Matrix	Collection Date	Bottle 80216/8015	Requested Tests	12-Jun-02
0206203-049 0206203-050 0206203-051 0206203-052	AFI-21M	Water Water Water Water	6/11/02	A A A		

Comments:

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NOTE: Samples are discarded 60 days at	fter results are reported unless other arra	Gements are made to		

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

4	McCampbel	11 Analyt	tical Inc.		ha	Telepho	enue South, #D7, Pac ne : 925-798-1620 - F campbell.com E-mai	Fax + 925-748-16	677									
All Env	vironmental, Inc	c.	Client Proj	ject ID: #5183;			Date Sampled:											
3210 O	old Tunnel Rd.,	Ste. B				<u> </u>	Date Received	: 06/13/02	<del></del>									
Lafavet	tte, CA 94549-4	4157	Client Con	tact: Peter McI	Intyre		Date Extracted: 06/16/02											
Larayon		+157	Client P.O.				Date Analyzed	l: 06/16/02	_ <del></del>									
Extraction n	Gasoli nethod: SW5030B	ine Range	(C6-C12) Vo	latile Hydroca Analytical n	irbons as G	asoline v	with BTEX and		Work Orde	er በንስሬኃኔ፣								
Lab ID	Client ID Matrix	Matrix	TPH(g)	мтве	Benzene	Toluca			DF % S									
001A	AEI-17W	w	t 700,a,i	ND<10	56	2.5	89	69	2	108								
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	Limit for DF =1; not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/	/L								
	reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/	Kε								

DF = dilution factor.

# cluttered chromatogram; sample peak coclutes 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); t) 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).

<sup>\*</sup>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.

	npbell Analy	tical Inc.	i h	2nd Avenue South, #D7, Pacheco, CA l'elephone: 925-798-1620 Fax: 925-	94553-5560 798-1622	_				
All Environment	tal, Inc.	Client Proj	ect ID: #5183; Fruitvale	a transcentipoen.com E-mail: main@	nccamphell.cor	11				
3210 Old Tunnel	Rd., Ste. B		in sobjection	Date Sampled: 06/1						
		Client Con	Client Contact: Peter McIntyre Date Extracted:							
afayette, CA 94	549-4157	Client P.O.		Date Extracted: 06/2	21/02					
				Date Analyzed: 06/2	1/02					
traction method: SW50			Methyl tert-Butyl Ether*  Analytical methods: SW8260B	_		-				
Lab ID	Client ID	Matrix	Methyl-t-butyf	ether (MTBF)	Work Order	T				
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#### McCampbell Analytical Inc.

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

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

13-Jun-02

WorkOrder: 0206233

Client:

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

TEL: FAX: (925) 283-6000

ProjectNo:

(925) 283-6121

PO:

#5183; Fruitvale

 Sample ID
 ClientSampID
 Matrix
 Collection Date
 Bottle
 8021B/8015
 Requested Tests

 0206233-001
 AEI-17W
 Water
 6/13/02 8:30:00 AM
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•		Date/Time	•		Date/Time
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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

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