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Alameda County

SEP 1 % 2000

Environmental Health

September 9, 2003

Mr. James Chung San Pablo Auto Body 2924 San Pablo Avenue Oakland, CA 94608

RE:

Report of Additional Phase II Investigation

2942 San Pablo Avenue

Oakland, CA

Dear Mr. Chung:

This report presents the results of the recent completion of four additional exploratory borings at the above-referenced Property. The purpose of this work was to determine whether the subsurface soils and/or groundwater beneath the Property have been impacted from the former usage of the Property as a service station, and as a plating works.

The scope of the work performed by PIERS for this investigation consisted of the following: obtaining permits from the Alameda County Public Works Agency, completion of four exploratory borings using a "Geoprobe" drill rig; collection of soil and "grab" groundwater samples; submission of the soil and groundwater samples for chemical analysis; data analysis and interpretation; and preparation of this report.

SITE DESCRIPTION AND BACKGROUND

The Property is located on the eastern side of San Pablo Avenue, at the intersection with 30th Street, in the City of Oakland, Alameda County, California (see Figure 1).

Historical research conducted for this investigation, including aerial photographs, Sanborn Fire Insurance Maps, historical city directories, and Oakland Building Department records, has identified the following prior uses for the northern of the two Property parcels (2942 San Pablo Avenue): In 1902 (Sanborn map), this parcel was occupied by a cleaning and dyeing business in a building just to the north of the existing Property building, and a small garage was present adjacent to 30th Street. The cleaning and dyeing business could potentially be of environmental concern, however, based on the elapsed time since this use, and no evidence of any impacts to the subsurface soils, no further investigation appears warranted. In 1912 (Sanborn map), the northern parcel contained a lumber yard and residence.

In 1930 (building department permit), the northern parcel was occupied by a golf club. From 1940 through 1984 (city directories), a tire sales and service business was located on the northern parcel. Beginning by approximately 1947 (1946 building department permits), a service station was located just to the south of the tire business, north of the existing building, in the area where the former pump island remains (see Figure 3). The "Battery Specialists" is also listed in the city directories between 1973 and 1978, and apparently operated in conjunction with the tire business. The duration of the service station operation is unclear, although it apparently had ceased by 1967 (Sanborn map). Since approximately 1984, the parcel has apparently been vacant, except for parking usage.

The southern parcel, where the existing auto body shop is now, was vacant on the 1902 and 1912 Sanborn maps. On the 1951 and 1952 Sanborn maps, the existing building is present and shown as occupied by an auto seat cover business, with a gymnasium on a mezzanine level at the rear. On maps between 1959 and 1962, the rear of the building is shown as used for auto body work. Cal Tech Metal Finishers apparently occupied the building in 1987 (building department records). Micromatic Finishers occupied the building between 1989 and 1993 (city directories). Ward's Auto Repair occupied the building and apparently also used the vacant lot to the north between 1994 and 1999 (building department records). The existing auto body business has occupied the building since 2001 (city directories).

Also on the 1951 and 1952 Sanborn maps, the adjacent parcel to the east of the Property near 30th Street is shown as occupied by a plating works. This parcel is currently vacant. A plating room with two apparent above-ground tanks is shown adjacent to the rear portion of the existing Property building. On the Sanborn maps, it is stated that the room was not in use. A structure shown as a "polishing room" is shown closer to 30th Street and adjacent to the Property, with the main plating works building also adjacent to 30th Street, to the east of the "polishing room". Portions of the slabs for these buildings were observed during PIERS' reconnaissance.

A previous environmental report was provided to PIERS, entitled "Soil/Environmental Report, 2942 San Pablo Avenue, Oakland, California", by Globe Soil Engineers, dated November 19, 1999. The scope of work for this report included three soil borings. No evidence of prior use of environmental concern was found by Globe Soil Engineers during their historical investigation. Three soil borings were completed, equally distributed across the vacant portion of the Property, at the approximate locations shown on Figure 3. Samples were collected from each of the borings at approximately two feet, six feet, ten feet, and fifteen feet below grade. The samples at the different depths from each boring were apparently composited as a single sample for each boring prior to analysis. Analytical results for these samples were attached to the report provided to PIERS. The analyses yielded non-detectable results for Total Petroleum Hydrocarbons (TPH) as gasoline; benzene, toluene, ethylbenzene and xylenes (BTEX); and MTBE by EPA Methods 8015 and 8020; volatile organic compounds by EPA Method 8010, and pesticides by EPA Method 8080. Globe Soil Engineers concluded that, "the soil at the site is not contaminated with pesticides, (metals,) volatile organics, gasoline, diesel, creosote, heavy oils, grease, or other hydrocarbon products". The analytical results for metals, diesel, creosote, heavy oils and grease were not included in the report provided to PIERS.

Because the former use of the Property as a service station was not identified in the previous report, the borings completed by Globe Soil Engineers do not appear to have specifically targeted the probable location of the former tank pit, or the pump island, and the borings appear to be located upgradient of these features. PIERS recommended that three additional soil borings be completed at the Property. Boring B4 would be located at the former pump island, to investigate whether there are any hydrocarbon impacts in the soil at this location. The exact location of the former tank pit is not known. Borings B5 and B6 would therefore be located on either side of the former pump island, to investigate these areas, which are the most likely locations of the former tanks.

Boring B-4, at the former pump island, was extended to a total depth of approximately five feet below grade. A slight odor of weathered hydrocarbons was observed at approximately 1.5 feet below grade. Boring B-5, adjacent to and north of the pump island, was extended to a total depth of approximately twenty feet below grade. An odor of weathered hydrocarbons was observed at two and 9.5 feet below grade. The groundwater had a definite odor of weathered gasoline. Boring B-6, adjacent to and south of the pump island, was extended to approximately sixteen feet below grade. A slight odor of weathered hydrocarbons was present below 15 feet. A groundwater sample was collected, which had less of an odor than the sample from B-5. Neither of the deeper borings appeared to be located within backfill material typical of a former tank pit.

The soil samples where odors of hydrocarbons were observed were submitted for laboratory analyses. These samples consisted of B4 (1.5 ft), B5 (2 ft), and B5 (9.5 ft). Total Petroleum Hydrocarbons (TPH) as gasoline was detected in all of these samples, at concentrations ranging from 0.711 parts per million (ppm) to 1.38 ppm. Benzene, ethylbenzene, toluene, and xylenes (BTEX) and MTBE ranged from predominantly non-detectable to very low concentrations. No significant concentrations of hydrocarbons were encountered in the three soil samples analyzed.

The groundwater sample from B-5, which had a strong odor of weathered gasoline, was analyzed for hydrocarbons and solvents. TPH as gasoline was detected in B-5 at a concentration of 5,310 ppb. Benzene was detected in B-5 at concentrations of 15.4 ppb and 37 ppb by EPA Methods 8020 and 8260, respectively. Ethylbenzene was detected in B-5 at concentrations of 351 ppb and 346 ppb by EPA Methods 8020 and 8260, respectively. Toluene and xylenes were detected in B-5 at concentrations of 14 and 4.9 ppb, respectively (EPA Method 8020), and MTBE was non-detectable. The solvents trichloroethene (TCE), cis-1,2-dichloroethene, 1,2-dichloroethane, and 1,1-dichloroethene were detected in B-5 at concentrations of 3,780 ppb, 193 ppb, 10 ppb, and 3 ppb, respectively. The groundwater sample from B-6, which had a lesser odor of weathered gasoline, was analyzed for hydrocarbons. TPH as gasoline was detected in B-6 at a concentration of 277 ppb. Benzene was non-detectable. Ethylbenzene, toluene, xylenes, and MTBE were detected in B-6 at concentrations of 0.9 ppb, 0.9 ppb, 6.9 ppb, and 11 ppb, respectively.

Based on the analytical results, the groundwater beneath the Property at the location of the former service station has been impacted by a release of hydrocarbons. The Property owner is legally obligated to submit an Unauthorized Release Report (URR). The URR and a copy of this report should be provided to the Alameda County Health Care Services Agency (ACHCSA). Following their review, case closure should be pursued under their jurisdiction. The groundwater beneath the Property has also been impacted by solvents, particularly TCE, which was present in an elevated concentration in B-5 (3,780 ppb). Based on the historical research conducted for this investigation, the solvents in the groundwater beneath the Property most likely originated from the adjacent former plating works. A copy of this report will be submitted to the Department of Toxic Substances Control (DTSC) and to the Alameda County Environmental Health Services.

This work was summarized in PIERS' Phase I Environmental Site Assessment (ESA) dated May 2003. The analytical results of the soil samples are summarized on Table 1, attached to this report. The analytical results of the groundwater samples are summarized on Tables 2A and 2B.

The ESA was sent to Mr. Barney Chan of the Alameda County Environmental Health Services (ACEHS), and to Ms. Nina Antonio of the Department of Toxic Substances Control (DTSC).

RECENT FIELD ACTIVITIES

In August 2003, the vacant portion of the Property was surveyed using a magnetometer. The purpose of this work was to determine if any tanks or piping remained at the site. The magnetometer survey did not locate any of these features. One apparent underground hoist was located, at the location shown on Figure 2. PIERS recommends that the hoist be removed, and that subsurface sampling be conducted at that time beneath the hoist bottom.

Prior to drilling, permits were obtained from the Alameda County Public Works Agency. Also, the boring locations were marked with white paint, and Underground Service Alert was notified.

On August 20, 2003, four exploratory borings were completed at the Property using a Geoprobe drilling rig provided by Vironex, Inc., a California-licensed driller. The borings, which were designated as B-7 through B-10, were located as shown on Figure 2. The purpose of borings B-7 and B-8 was to provide further delineation of hydrocarbons in groundwater, and to investigate potential sources of hydrocarbons in soil. The purpose of borings B-9 and B-10 was to investigate soil and groundwater conditions at the former polishing room and plating room, respectively.

All of the borings were continuously cored and the subsurface soils were logged for lithologic purposes and examined for evidence of contamination. Boring B-7 did not develop water at a depth of 20 feet below grade, and was extended to a depth of 32 feet below grade. When installing the PVC casing, the hole closed below 24 feet below grade. A single VOA of groundwater was collected after several hours. Boring B-8 was extended to twenty feet below grade, at which time slotted PVC casing was installed in the borehole and a grab groundwater sample was collected after one-half hour. Groundwater recharge during sample collection was very slow.

Boring B-9 was extended to 32 feet below grade, as the soils above this point did not appear to be sufficiently permeable to allow sample collection. However, upon retrieval of the rods, the borehole closed below 30 feet. Groundwater collected at approximately 28.3 feet after about ten minutes, and was very slow to recharge.

Boring B-10 was extended to four feet below grade for soil sample collection. Groundwater was not encountered.

At boring B-7, a moderate to strong odor of weathered gasoline or solvent was encountered beginning at 0.4 feet, and continuing through 7.5 feet, where there was less or no odor, except for at 11.5 feet, 14.5 feet, and 18.6 feet, where there were thin (several inch) wet gravely zones. Samples selected for laboratory analyses (1ft, 9.5 ft, and 14.5 ft) represented areas of the strongest odor.

The subsurface conditions encountered in B-7 consisted of dark gray silty clay (CL), which changed to light gray between 2.5 to 6 feet below grade. The soils graded to silt (ML) at approximately 6.5 feet below grade. Saturated clayey to sandy silt with a few thin gravely layers was encountered below twenty feet, and extending to the total depth explored (32 feet).

The lithologic conditions encountered in the other borings were generally similar to those encountered in B-7. No odors or other evidence of contamination was encountered in the other borings. The subsurface conditions encountered in the borings are shown on the logs attached to this report.

ANALYTICAL RESULTS

The soil samples were analyzed by McCampbell Analytical in Pacheco, California, a California state-certified Hazardous Material Testing Laboratory. The soil sample from B-7 at one foot below grade, 9.5 feet below grade, and 14.5 feet below grade, and the grab groundwater samples from B-7 and B-8, were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE by EPA Methods 8015-Modified and 8020. The soil samples from B-7, and the grab groundwater sample from B-8, were also analyzed for EPA Method 8010 constituents (volatile organic compounds). The grab groundwater samples from B-7 and B-9 were also analyzed for EPA Method 8260 constituents. The soil samples from B-9 and B-10 collected at 1.5 feet below grade were analyzed for EPA Method 8260 constituents, the CAM 17 metals, total cyanide, chromium VI, and pH.

The analytical results are summarized on Tables 1A through 1C, 2A, and 2B, and Figures 3 and 4 Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

DISCUSSION AND RECOMMENDATIONS

On Tables 1A through 1C, 2A, and 2B, the analytical results for the soil and groundwater samples are tabulated and compared to residential and commercial Preliminary Remediation Goals (PRGs). As shown on Table 1A, the relatively low concentrations of hydrocarbons encountered in the soil samples from B7, and from previous borings B4 and B5 (as shown on Table 1A), are below their respective PRGs.

The compounds trichloroethene (TCE), trans 1,2-dichloroethene, and cis-1,2-dichloroethene were detected in soil in borings B7, B9, and B10 (see Table 1B). None of the soil samples analyzed contained a contaminant in excess of the PRGs, except in the sample collected from B10 at 1.5 feet, which contained TCE at a concentration of 0.25 ppm (in excess of the commercial PRG of 0.11 ppm). B10 was located at the former plating room. Based on these findings, additional investigation beneath this sampling point is recommended.

The results of the metals analyses for the samples collected from borings B9 and B10 at 1.5 feet below grade did not indicate any CAM 17 metals in excess of the PRGs, except for arsenic (see Table 1C). Arsenic was encountered in B9 and B10 at 4.2 and 5.4 ppm, respectively, in excess of the PRG for a cancer end-point. However, these occurrences fall within generally accepted ranges of background concentrations (Bradford et al, Background Concentrations of Trace and Major Elements in California Soils, 1966), and therefore further investigation of arsenic at the Property appears unwarranted.

The analytical results of the grab groundwater samples collected during this investigation, and from the previous borings, are summarized on Tables 2A and 2B, and on Figures 3 and 4. The concentrations of hydrocarbons in groundwater now appear to be largely defined to the north and south, and undefined in the presumed upgradient and downgradient directions. Samples from monitoring wells more representative of groundwater flow conditions would be expected to be an order of magnitude less than those encountered in the grab groundwater sampling. Further delineation downgradient would require drilling within San Pablo Avenue. As the occurrence of TCE in the groundwater beneath the Property appears to be much more significant than the hydrocarbons, further delineation of the dissolved concentrations of hydrocarbons downgradient (offsite) is not proposed at this time. Additional upgradient delineation for hydrocarbons can be accomplished in conjunction with further investigation of TCE in groundwater.

TCE was detected in groundwater in all grab groundwater samples collected to date, at elevated concentrations above the PRGs. The compounds trans,1,2-dichloroethene, and cis-1,2-dichloroethene were also detected above the PRGs in B5, and presumably would have been detected above the PRGs in B9, where they were non-detectable due to dilution factors. The distribution of TCE, as shown on Figure 4, indicates either a source near B9, or a source further upgradient from an off-site source. An additional boring in the upgradient vicinity of B9, at the (presumed) upgradient perimeter of the Property is therefore recommended.

DISTRIBUTION

A copy of this report will be sent to Mr. Barney Chan of the Alameda County Environmental Health Services (ACEHS), and to the Department of Toxic Substances Control (DTSC).

LIMITATIONS

The observations and conclusions presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The opinions presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions beneath the Property at specific locations. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

If you have any questions regarding this report, please do not hesitate to contact our office.

Sincerely,

PIERS Environmental Services, Inc.



Joel G. Greger

Senior Project Manager

CEG # EG1633, REA # 07079



Kay Pannell

Chief Operations Officer REP #5800, REA-II #20236

Attachments

Tables 1 through 5
Figures 1 through 4
Laboratory Analytical Data Sheets and Chain of Custody
Boring Logs

TABLES

TABLE 1A SOIL ANALYTICAL RESULTS Former Service Station 2942 San Pablo Avenue, Oakland

Sample/ Depth (feet)	Date Sampled	TPH-g (ppm)	TPH-ss (ppm)	Benzene (ppm)	Ethylbenzene (ppm)	Toluene (ppm)	Xylenes (ppm)	MTBE (ppm)
B4 (1.5')	5/8/2003	1.38	NA	< 0.005	<0.005	<0.005	0.012	< 0.005
B5 (2')	5/8/2003	1.37	NA	<0.005	<0.005	0.013	0.013	<0.005
B5 (9.5')	5/8/2003	0.711	NA	<0.005	0.007	< 0.005	<0.010	<0.005
B7 (1')	8/20/2003	12	6.5	0.0093	0.032	0.0053	0.18	<0.05
B7 (9.5')	8/20/2003	12	5.7	0.017	0.04	0.015	0.29	<0.05
B7 (14.5')	8/20/2003	2.7	1.4	<0.005	0.01	0.005	0,065	<0.05
Reg. Limit	·							
PRG - Res. Cal.Mod.				0.6	8.9	520	270	62 17
PRG - Ind,				1.3	20	520	420	160

36

EXPLANATION:

Cal.Mod.

ppm = parts per million

NA = not analyzed

TPHg/TPH-ss =Total Petroleum Hydrocarbons as gasoline/stoddard solvent.

PRG = Preliminary Remediation Goals, residentail/industrial

TABLE 1B SOIL ANALYTICAL RESULTS Former Service Station 2942 San Pablo Avenue, Oakland

Sample/ Depth (feet)	Date Sampled	TCE (ppm)	trans-1,2- DCE	cis-1,2- DCE
B7 (1')	8/20/2003	0.022	<0.01	<0.01
		·		
B7 (9.5')	8/20/2003	0.0057	< 0.005	<0.005
B7 (14.5')	8/20/2003	<u>0.</u> 074	1.4	<0.005
<u></u> .				
B9 (1.5')	8/20/2003	0.065	0.019	0.04_
B10 (1.5')	8/20/2003	0.25	0.0065	0.029
Dog Timit				
Reg. Limit			ļ <u></u>	
PRG-Res.		0.053	69	430
PRG-Comm.		0.11	230	1,560

EXPLANATION:

ppm = parts per million

TCE = Trichloroethene

DCE = Dichloroethene

PRG= Preliminary Remediation Goals, residential/commercial

TABLE 1C - SOIL ANALYTICAL RESULTS -METALS, pH, CYANIDE 2942 San Pablo Avenue Oakland, California

Samples collected on 8/20/2003.

Sample (depth)	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Cobalt (ppm)	Copper (ppm)	Lead (ppm)	Molybdenum (ppm)	Nickel (ppm)	Vanadium (ppm)	Zinc (ppm)	Chrome 6 (ppm)	Cyanide (ppm)	pН
B9 (1.5')	4,2	130	2,3	63.6	10.4	17.6	50.6	1.0	54.6	26.8	71.8	0.130	<0,40	9.56
B10 (1.5°)	5.4	188	5.4	55.6	6,8	72.2	27.2	1.4	346	40.2	650	0.0046	0.44	8.05
Reg. Limit Res. PRG	22/0,39**	5,400	3.7	100,000	900	2.100	400	200	1.600					
Cal Mod PRG			1.7			3,100	400 150	390	1,600	550	23,000	30	1,200	
Comm. PRG Cal Mod PRG	260/1.6**	67,000	450 7,4	100,000	1,900	41,000	750	5,100	20,000	7,200	100,000	64	12,000	
Background*	0.6-11	133 - 1,400	0.05 - 1.7	23 - 1,579	2.7 - 46.9	9.1 - 96.4	12.4 - 97.1	0.1-9.6	9 - 509	39 - 288	88 - 236			

EXPLANATION:

ppm = parts per million

PRG= Prliminary Remediation Goals, residential/commercial

* Range of background concentrations from Bradford et al, 1996.

** non-cancer endpoint/cancer endpoint

All other CAM 17 metals were non-detectable.

TABLE 2A GROUNDWATER ANALYTICAL RESULTS

Former Service Station

2942 San Pablo Avenue, Oakland

Sample/ Depth (feet)	Date Sampled	TPH-g (ppb)	TPH-ss (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	MTBE (ppb)
B5	5/8/2003	5,310	NA	15.4/37	351/346	14	4.9	<0.5
В6	5/8/2003	277	NA	<0.5	0.9	0.9	6.9	11/11
B7	8/20/2003	4,900	650	3.6	22	6.5	100/120	<17
B8	8/20/2003	<50	<50	<0.5	<0.5	0.55	0.52	<5.0
Reg. Limit								
MCL				1	700	150	1,750	13
PRG	(tap water)			0.34	2.9	720	210	130
Cal. Mod. PRG	(tap water)							6.2

EXPLANATION:

ppm = parts per million

MCL= maximum contaminant levels

PRG= preliminary remediation levels

ANALYTICAL METHODS:

TPHg/ss =Total Petroleum Hydrocarbons as gasoline/stoddard solvent

TABLE 2B

GROUNDWATER ANALYTICAL RESULTS

Former Service Station 2942 San Pablo Avenue, Oakland

	1.50				
Sample/ Depth (feet)	Date Sampled	1,1-DCE (ppb)	cis-1,2- DCE	1,2-DCA (ppb)	TCE (ppb)
B5	5/8/2003	3	193	10	3,780
B7	8/20/2003	<100	<100	<100	2,500
В8	8/20/2003	<0.5	< 0.5	<0.5	13
B9	8/20/2003	<2,500	<2,500	<2,500	240,000
Reg. Limit					
MCL		10	6.0	0.5	5.0
PRG		340	61	0.12	0.028

EXPLANATION:

ppm = parts per million

MCL= Maximum contaminant Levels

DCE = Dichloroethene

PRG= Preliminary Remediation Goals

DCA = Dichloroethane

TCE = Trichloroethene

ANALYTICAL METHODS:

EPA Method 8260, except for B8, which was by 8010.

FIGURES

IDENTIFIED HAZARDOUS MATERIALS SITES

RADIUS REPORT

Site Vicinity Maps

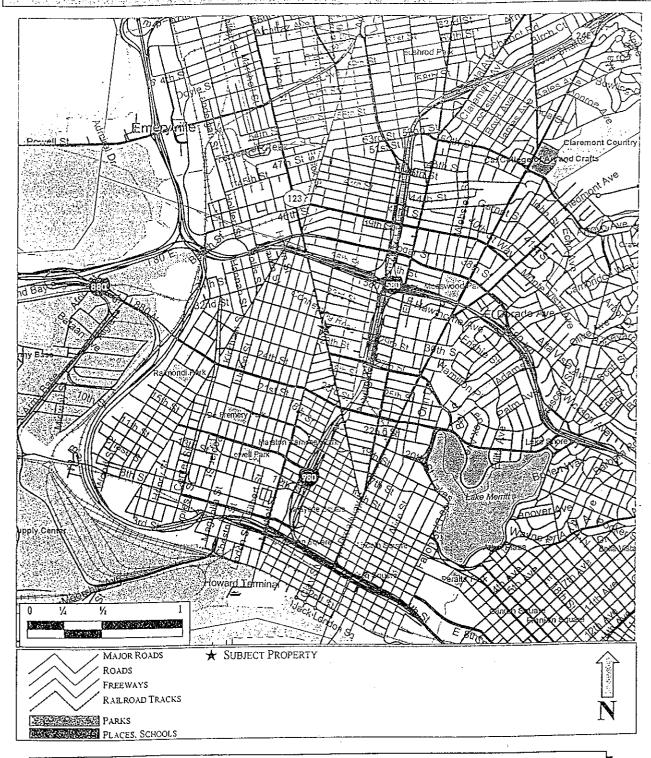
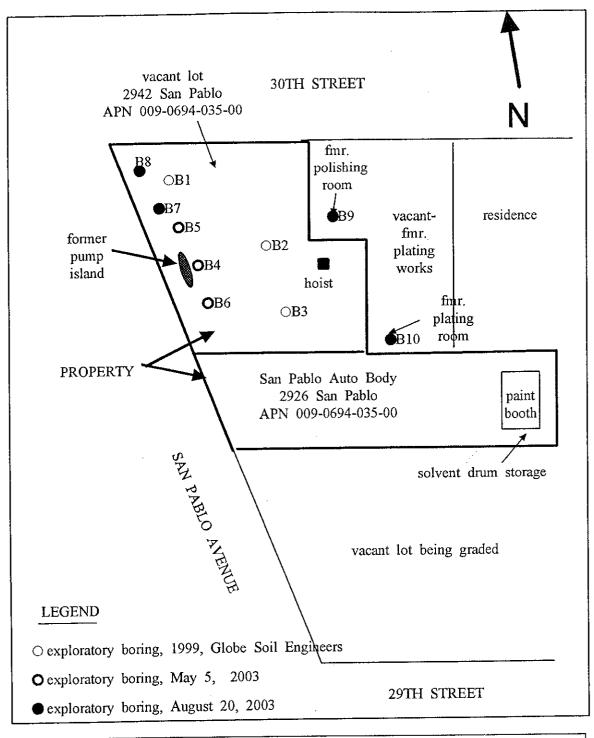
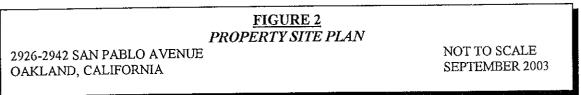


FIGURE 1 PROPERTY VICINITY MAP

2926-2942 SAN PABLO AVENUE OAKLAND, CALIFORNIA NOT TO SCALE SEPTEMBER 2003





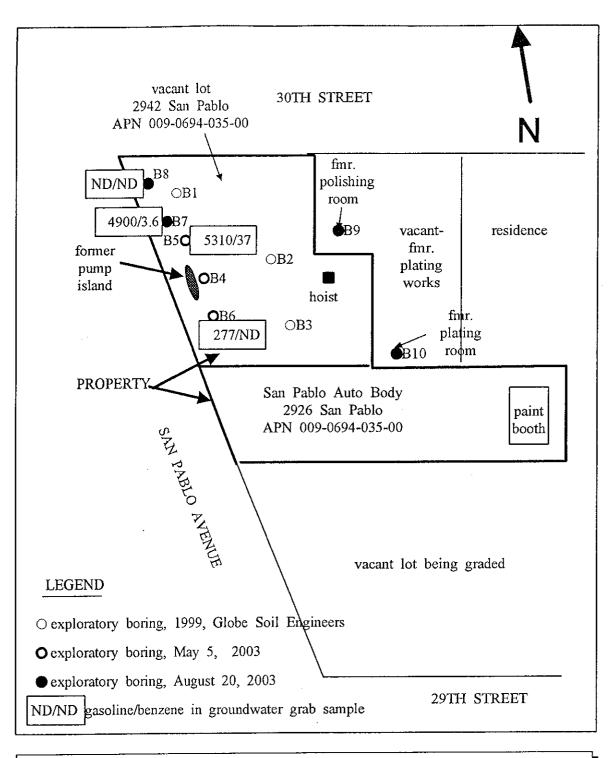


FIGURE 3 GAS & BENZENE IN GROUNDWATER

2926-2942 SAN PABLO AVENUE OAKLAND, CALIFORNIA NOT TO SCALE SEPTEMBER 2003

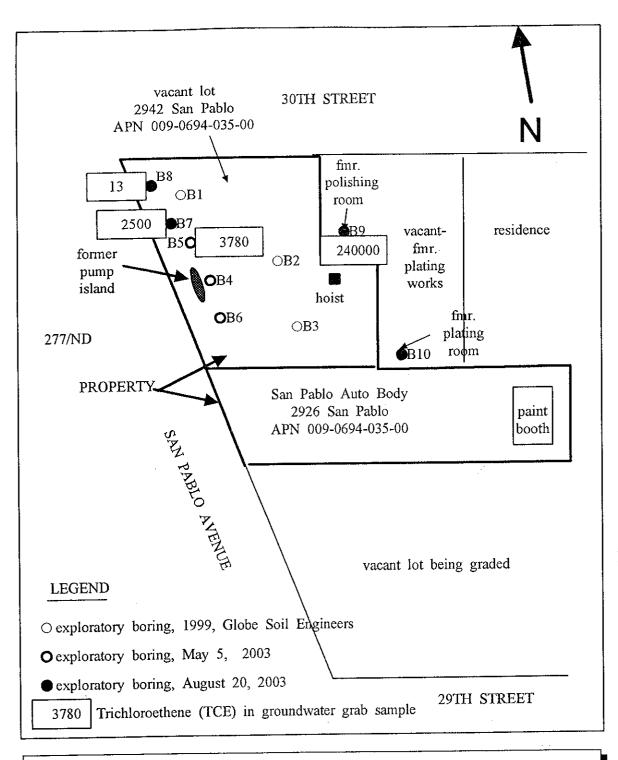


FIGURE 4 TCE IN GROUNDWATER

2926-2942 SAN PABLO AVENUE OAKLAND, CALIFORNIA NOT TO SCALE SEPTEMBER 2003

ATTACHMENT A LABORATORY ANALTYICAL DATA SHEETS AND CHAIN OF CUSTODY



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

Piers Environmental	Client Project ID: #03127; 2942 San Pablo Ave	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Paolo Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/21/03
5411 30110, 011 70120	Client P.O.:	Date Analyzed: 08/22/03-08/23/03

Gasoline(C6-C12) Stoddard Solvent/Paint Thinner(C9-C12) Volatile Hydrocarbons with BTEX and MTBE*

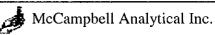
Extraction Method: SW5030B	Ana	alytical Method: SW802	IB/8015Cm	Work Ord	er: 030833°
Lab ID	0308337-001A	0308337-004A	0308337-006A		
Client ID	B7(1')	B7(9.5')	B7(14.5')	Reporting Limit (
Matrix	s	S	S		
DF	l	1	1	S	W
Compound		Conce	entration	mg/Kg	ug/L
TPH(g)	12	12	2.7	0.1	NA
IPH(ss)	6.5	5.7	1.4	1.0	NA
МТВЕ	ND	ND	ND	0.05	NA
Benzene	0.0093	0.017	ND	0.005	NA
Foluene	0.0053	0.015	0.0050	0.005	NA
Ethylbenzene	0.032	0.040	0.010	0.005	NA
Kylenes	0.18	0.29	0.065	0.005	NA
	Surro	gate Recoveries	(%)		
%SS:	97.2	86.3	86.6		
Comments	m	e,m	e,m		224 % TO TO TO

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/L$, product/oil/non-aqueous liquid samples in mg/L.



[#] 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 / mineral spirit?); 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) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



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Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/23/03-08/25/03
	Client P.O.:	Date Analyzed: 08/23/03-08/25/03

Gasoline(C6-C12) Stoddard Solvent/Paint Thinner(C9-C12) Volatile Hydrocarbons with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Cm Work Order: 0308337 0308337-015A 0308337-014A Lab ID Client ID B7Water B8Water Reporting Limit for DF =1 W Matrix W DF 3.3 1 S W Compound Concentration ug/kg μg/L TPH(g) 4900 ND,i NA TPH(ss) 650 ND NA 50 MTBE ND<17 ND NΑ 5.0 Benzene 3.6 ND NA 0.5 Toluene 6.5 0.55 NA 0.5 Ethylbenzene 22 ND NA 0.5 100 0.52 Xylenes NA 0.5 Surrogate Recoveries (%) %SS:

Comments * water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe,

product/oil/non-aqueous liquid samples in mg/L.



[#] 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 / mineral spirit?); 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) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

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

Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03
	Client Contact: Joel Greger	Date Extracted: 08/21/03
San Jose, CA 95128	Client P.O.:	Date Analyzed: 08/23/03-08/25/03

Halogenated V Extraction Method: SW5030	-	by P&T and GO alytical Method: SW802	C-ELCD (8010 Basic Ta BB	arget List)* Work Orde	r: 0308337
Lab ID	0308337-001A	0308337-004A	0308337-006A		
Client ID	B7(1')	B7(9.5')	B7(14.5')	Reporting	
Matrix		S	S S	DF	=1
DF	S 2			<u> </u>	W
		1	1		
Compound		Conc	entration	μg/Kg	μg/L
Bromodichloromethane	ND<10	ND	ND	5.0	NA
Bromoform	ND<10	ND	ND	5.0	NA
Bromomethane	ND<10	ND	ND	5.0	NA
Carbon Tetrachloride	ND<10	ND	ND	5.0	NA
Chlorobenzene	ND<10	ND	ND	5.0	NA
Chloroethane	ND<10	ND	ND	5.0	NA
2-Chloroethyl vinyl ether	ND<10	ND	ND	5.0	NA
Chloroform	ND<10	ND	ND	5.0	NA
Chloromethane	ND<10	ND	ND	5.0	NA
Dibromochloromethane	ND<10	ND	ND	5.0	NA
1,2-Dichlorobenzene	ND<10	ND	ND	5.0	NA
1,3-Dichlorobenzene	ND<10	ND	ND	5.0	NA
1,4-Dichlorobenzene	ND<10	ND	ND	5.0	NA
Dichlorodifluoromethane	ND<10	ND	ND	5.0	NA
1,1-Dichlorocthane	ND<10	ND	ND	5.0	NA
1,2-Dichloroethane	ND<10	ND	ND	5.0	NA
1,1-Dichloroethene	ND<10	ND	ND	5.0	NA
cis-1,2-Dichloroethene	ND<10	ND	ND	5.0	NA
trans-1,2-Dichloroethene	ND<10	ND	ND	5.0	NA
1,2-Dichloropropanc	ND<10	ND	ND	5.0	NA
cis-1,3-Dichloropropene	ND<10	ND	ND	5,0	NA
trans-1,3-Dichloropropene	ND<10	ND	ND	5.0	NA
Methylene chloride	ND<10	ND	ND	5.0	NA
1,1,2,2-Tetrachloroethane	ND<10	ND	ND	5.0	NA
Tetrachloroethene	ND<10	ND	ND	5.0	NA
1,1,1-Trichloroethane	ND<10	ND	ND	5.0	NA NA
1,1,2-Trichloroethane	ND<10	ND	ND	5.0	NA
Trichloroethene	22	5.7	74	5.0	NA
Trichlorofluoromethane	ND<10	ND	ND	5.0	NA
Vinyl Chloride	ND<10	ND	ND	5.0	NA
<u> </u>		ogate Recoveries	· · · · · · · · · · · · · · · · · · ·	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
%SS:	95.1	100	99.2		
Comments					

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

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Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled:	08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received:	08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted:	08/21/03
5an 3050, OA 95126	Client P.O.:	Date Analyzed:	08/21/03

		&T and GC-ELCD (8010 Basic T	[arget List]*	
Extraction Method: SW5030B	Analytical	Method: SW8021B	Work Orde	r: 0308337
Lab ID	0308337-015B			
Client ID	B8Water		Reporting DF	
Matrix	w		Dr.	=1
DF	1		S	W
Compound		Concentration	μg/kg	μg/L
Bromodichloromethane	ND		NA NA	0.5
Bromoform	ND		NA NA	0.5
Bromomethane	ND ND		NA	0.5
Carbon Tetrachloride	ND		NA NA	0.5
Chlorobenzene	ND		NA	0.5
Chloroethane	ND		NA NA	0.5
2-Chloroethyl vinyl ether	ND		NA	0.5
Chloroform	ND		NA	0.5
Chloromethane	ND		NA	0.5
Dibromochloromethane	ND		NA NA	0.5
1,2-Dichlorobenzene	ND		NA	0.5
1,3-Dichlorobenzene	ND		NA	0.5
1,4-Dichlorobenzene	ND		NA	0.5
Dichlorodifluoromethane	ND		NA NA	0.5
1,1-Dichloroethanc	ND		NA	0.5
1,2-Dichloroethane	ND		NA NA	0.5
1,1-Dichloroethene	ND		NA	0.5
cis-1,2-Dichloroethene	ND		NA NA	0.5
trans-1,2-Dichloroethene	ND		NA NA	0.5
1,2-Dichloropropane	ND		NA NA	0.5
cis-1,3-Dichloropropene	ND		NA	0.5
trans-1,3-Dichloropropene	ND		NA NA	0.5
Methylene chloride	ND		NA	0.5
1,1,2,2-Tetrachloroethane	ND		NA NA	0.5
Tetrachloroethene 1824 3	ND		NA NA	0.5
1,1,1-Trichloroethane	ND		NA NA	0.5
1,1,2-Trichloroethane	ND		NA	0.5
Trichloroethene	13		NA	0.5
Trichlorofluoromethane	ND		NA I	0.5
Vinyl Chloride	ND		NA I	0.5
	Surrogate	Recoveries (%)		
%SS:	99.9	1,3,		-·· <u></u>
Comments	i			

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content; k) reporting limit rasied due to insufficient sample amount.



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Piers Environmental	1 '	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/21/03
San Jose, CA 95126	Client P.O.:	Date Analyzed: 08/22/03-08/23/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 0308337
Lab ID	0308337-010A	
Client ID	B9(1.5')	
Matrix	Soil	

Compound Concentration DF Limit Compound Concentration Concentra	Matrix				Soil			
Bromobenzene ND	Compound	Concentration *	DF		Compound	Concentration *	DF	Reporting Limit
Bromodichloromethane	Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
2-Butanone (MEK) ND 1.0 10 Bromomethane ND 1.0 5.0 n-Butyl benzene ND 1.0 5.0 see-Butyl benzene ND 1.0 5.0 Carbon Tetrachloride ND 1.0 5.0 Carbon Disulfide ND 1.0 5.0 Carbon Tetrachloride ND 1.0 5.0 Chlorobenzene ND 1.0 5.0 Chlorocethane ND 1.0 5.0 Chloromethane ND 1.0 5.0 2-Chlorotoluene ND 1.0 5.0 Chloromethane ND 1.0 5.0 2-Chlorocethane ND 1.0 5.0 Chloromethane ND 1.0 5.0 2-Chlorocethane ND 1.0 5.0 H-Chlorotoluene ND 1.0 5.0 2-Chlorocethane ND 1.0 5.0 I.2-Dibromo-3-chloropropane ND 1.0 5.0 1.2-Dibromochlaromethane ND 1.0 5.0 Dibromomethane ND 1.0 5.0 1.2-Dibromochane ND 1.0 5.0 I.3-Dibriorobenzene ND 1.0 5.0 1.2-Dibriorobenzene ND 1.0 5.0 Dibromomethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dibriorocethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dibriorocethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dichlorocethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dichlorocethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dichlorocethane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dichloropropane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 I.2-Dichloropropane ND 1.0 5.0 1.1-Dichlorocethane ND 1.0 5.0 Cis-12-Dichloropropane ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 L2-Dichloropropane ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 L2-Dichloropropane ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 Cis-13-Dichloropropane ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 Repropulsenze ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 Repropulsenze ND 1.0 5.0 1.1-Dichloropropene ND 1.0 5.0 Repropulsenze ND	Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
n-Butyl benzene ND 1.0 5.0 see-Butyl benzene ND 1.0 5.0 tert-Butyl benzene ND 1.0 5.0 Carbon Disulfide ND 1.0 5.0 Carbon Tetrachloride ND 1.0 5.0 Chloroethane ND 1.0 5.0 Chloroethane ND 1.0 5.0 Chloroethyl Vinyl Ether ND 1.0 5.0 Chloroethane ND 1.0 5.0 Chloromethane ND 1.0 5.0 Chloroethane ND 1.0 5.0 Chloromethane ND 1.0 5.0 Chloroethane ND 1.0 5.0 Chloromethane ND 1.0 5.0 Dibromochloromethane ND 1.0 5.0 L-Chlorotoluene ND 1.0 5.0 Dibromochloromethane ND 1.0 5.0 Dibromomethane ND 1.0 5.0 Di-Dibromochloromethane ND 1.0 5.0 Dibromomethane ND 1.0 5.0 Di-Dibromochloromethane ND 1.0 5.0 L-Chlorotoluene ND 1.0 5.0 Di-Dibromochlorothane ND 1.0 5.0 Methyl-butyl ether (MTBE) ND 1.0 5.0 Di-Dibromochlorothane ND 1.0 5.0 Methyl-butyl ether (MTBE) ND 1.0 5.0 Di-Dibromochlorothane ND 1.0 5.0 ND 1.1,1-Z-Tetrachlorothane ND 1.0 5.0 Di-Dibromochlorothane ND 1.0 5.0 ND 1.1,1-Z-Tetrachlorothane ND 1.0 5.0 Di-	Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
tert-Butyl benzene ND 1.0 5.0 Carbon Disulfide ND 1.0 5.0 Carbon Tetrachloride ND 1.0 5.0 Chlorobenzene ND 1.0 5.0 Chloroform ND 1.0 5.0 2-Chlorotely Vinyl Ether ND 1.0 5.0 Chloroform ND 1.0 5.0 Chlorotely Vinyl Ether ND 1.0 5.0 2-Chlorotoluene ND 1.0 5.0 Chlorotelane ND 1.0 5.0 2-Chlorotoluene ND 1.0 5.0 4-Chlorotoluene ND 1.0 5.0 Dibromoethane (EDB) ND 1.0 5.0 Dibromoethane ND 1.0 5.0 1,2-Dichlorobenzene ND 1.0 5.0 Dibromoethane ND 1.0 5.0 1,1-Dichlorobenzene ND 1.0 5.0 Dichlorodifluoromethane ND 1.0 5.0 1,1-Dichlorobenzene ND 1.0 5.0 Dichlorodifluorom	2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
Carbon Tetrachloride ND 1.0 5.0 Chloroebraene ND 1.0 5.0 Chloroethane ND 1.0 5.0 2-Chloroethyl Vinyl Ether ND 1.0 5.0 Chloroform ND 1.0 5.0 Chloroethyl Vinyl Ether ND 1.0 5.0 2-Chlorotoluene ND 1.0 5.0 Lhoromethane ND 1.0 5.0 1,2-Dibromochloromethane ND 1.0 5.0 Dibromochloromethane ND 1.0 5.0 1,2-Dibromochloromethane ND 1.0 5.0 Dibromochloromethane ND 1.0 5.0 1,2-Dichlorobenzene ND 1.0 5.0 Dibromochloromethane ND 1.0 5.0 1,1-Dichlorobenzene ND 1.0 5.0 Dichlorochloromethane ND 1.0 5.0 1,1-Dichlorochtene ND 1.0 5.0 cl-2-Dichlorochtene MD 1.0 5.0 1,1-Dichlorochtene ND 1.0 5	n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
Chloroethane	tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Chloroform ND 1.0 5.0 Chloromethane ND 1.0 5.0	Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroform	Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Dibromochlaromethane ND 1.0 5.0 1,2-Dibromo-3-chloropropane ND 1.0 5.0 1,2-Dibromochlane (EDB) ND 1.0 5.0 Dibromochlane ND 1.0 5.0 1,2-Dichlorobenzene ND 1.0 5.0 1,3-Dichlorobenzene ND 1.0 5.0 1,4-Dichlorobenzene ND 1.0 5.0 1,3-Dichlorobenzene ND 1.0 5.0 1,1-Dichlorobenzene ND 1.0 5.0 Dichlorodifloromethane ND 1.0 5.0 1,1-Dichlorocthane ND 1.0 5.0 1,2-Dichlorocthane (1,2-DCA) ND 1.0 5.0 1,1-Dichlorocthane ND 1.0 5.0 0 1,2-Dichlorocthane 1.0 0 0 1,1-Dichlorocthane ND 1.0 5.0 1,2-Dichlorocthane ND 1.0 5.0 1,1-Dichloroptopane ND 1.0 5.0 1,2-Dichloroptopane ND 1.0 5.0 1,1-Dichloroptopane ND 1.0 5.0 2,2-Dichloroptopane ND 1.0 5.0 1,1-Dichloroptopane ND 1.0 5.0 0 0 0 0 0 1,1-Dichloroptopane ND 1.0 5.0 0 0 0 0 0 0 1,1-Dichloroptopane ND 1.0 5.0 0 0 0 0 0 0 0 1,1-Dichloroptopane ND 1.0 5.0 0 0 0 0 0 0 0 0 1,1-Dichloroptopene ND 1.0 5.0 0 0 0 0 0 0 0 0 0	Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	·
Dibromochlaromethane ND 1.0 5.0 1,2-Dibromo-3-chloropropane ND 1.0 5.0 1,2-Dibromocthane (EDB) ND 1.0 5.0 Dibromomethane ND 1.0 5.0 1,2-Dichlorobenzene ND 1.0 5.0 Dibromomethane ND 1.0 5.0 1,4-Dichlorobenzene ND 1.0 5.0 Dichlorodibromethane ND 1.0 5.0 1,1-Dichlorotenzene ND 1.0 5.0 Dichlorodibromethane ND 1.0 5.0 1,1-Dichlorotenzene ND 1.0 5.0 Dichlorodibromethane 1.2-DCA) ND 1.0 5.0 1,1-Dichlorotenzene ND 1.0 5.0 1,2-Dichlorotethane 1,2-DCA) ND 1.0 5.0 1,1-Dichlorotenzene ND 1.0 5.0 1,2-Dichloropethane ND 1.0 5.0 1,3-Dichloropropane ND 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropane ND 1.0 5.0 2,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropane ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 1,1-Dichloropropane ND 1.	2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
1,2-Dibromoethane (EDB) ND 1,0 5.0 Dibromomethane ND 1,0 5.0 1,2-Dichlorobenzene ND 1,0 5.0 1,3-Dichlorobenzene ND 1,0 5.0 1,4-Dichlorobenzene ND 1,0 5.0 Dichlorodifluoromethane ND 1,0 5.0 1,1-Dichloroethane ND 1,0 5.0 Dichlorodifluoromethane ND 1,0 5.0 1,1-Dichloroethane ND 1,0 5.0 Dichlorodifluoromethane ND 1,0 5.0 1,1-Dichloroethane ND 1,0 5.0 Dichlorodifluoromethane ND 1,0 5.0 1,1-Dichloroethene ND 1,0 5.0 Dichloroethane ND 1,0 5.0 1,1-Dichloroethene ND 1,0 5.0 Dichloroethene ND 1,0 5.0 1,1-Dichloropropane ND 1,0 5.0 Dichloropropane ND 1,0 5.0 1,1-Dichloropropane ND 1,0 5.0 Dichloropropane ND 1,0 5.0 1,1-Dichloropropene ND 1,0 5.0 Dichloropropene ND 1,0 5.0 1,1-Dichloropropene ND 1,0 5.0	Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND		
1,4-Dichlorobenzene ND 1.0 5.0 Dichlorodifluoromethane ND 1.0 5.0 1,1-Dichloroethane ND 1.0 5.0 1,2-Dichloroethane (1,2-DCA) ND 1.0 5.0 1,1-Dichloroethene ND 1.0 5.0 cis-1,2-Dichloroethene 40 1.0 5.0 1,3-Dichloroethene 19 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 1,3-Dichloropropane ND 1.0 5.0 2,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropane ND 1.0 5.0 cis-1,3-Dichloropropane ND 1.0 5.0 1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropane ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Jehexanone ND 1.0 5.0 4-Isopropyl toluene ND 1.0	1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND		5.0
1,1-Dichloroethane ND 1.0 5.0 1,2-Dichloroethane (1,2-DCA) ND 1.0 5.0 1,1-Dichloroethene ND 1.0 5.0 cis-1,2-Dichloroethene 40 1.0 5.0 trans-1,2-Dichloroethene 19 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 1,3-Dichloropropane ND 1.0 5.0 2,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropene ND 1.0 5.0 trans-1,3-Dichloropropene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 2-Hexanone ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0<	1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,1-Dichloroethane ND 1.0 5.0 1,2-Dichloroethane (1,2-DCA) ND 1.0 5.0 1,1-Dichloroethene ND 1.0 5.0 cis-1,2-Dichloroethene 40 1.0 5.0 1,3-Dichloroethene 19 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropane ND 1.0 5.0 cis-1,3-Dichloropropane ND 1.0 5.0 1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 2-Hexanone ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Sopropylbenzene ND 1.0 5.0 Methylene chloride ND 1.0 5.0	1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
trans-1,2-Dichloroethene 19 1.0 5.0 1,2-Dichloropropane ND 1.0 5.0 1,3-Dichloropropane ND 1.0 5.0 2,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Idodomethane (Methyl iodide) ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND	1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	
1,3-Dichloropropane ND 1.0 5.0 2,2-Dichloropropane ND 1.0 5.0 1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hodomethane (Methyl iodide) ND 1.0 5.0 Isopropylbenzene ND 1.0 5.0 I-Isopropyl toluene ND 1.0 5.0 Methyl-1-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-1-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-1-butyl ether (MTBE) ND 1.0 5.0 Maphthalene ND 1.0 5.0 Methyl-1-butyl ether (MTBE) ND 1.0 5.0 Styrene ND 1.0 5.0 Hexachtyl-1-butyl ether (MTBE) ND 1.0 5.0 Styrene ND 1.	1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	40	1.0	5.0
1,1-Dichloropropene ND 1.0 5.0 cis-1,3-Dichloropropene ND 1.0 5.0 trans-1,3-Dichloropropene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 2-Hexanone ND 1.0 5.0 Iodomethane (Methyl iodide) ND 1.0 50 Isopropylbenzene ND 1.0 5.0 4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Naphthalene ND 1.0 5.0 n-Propyl benzene ND 1.0 5.0 Styrene ND 1.0	trans-1,2-Dichloroethene	19	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
trans-1,3-Dichloropropene ND 1.0 5.0 Ethylbenzene ND 1.0 5.0 Hexachlorobutadiene ND 1.0 5.0 2-Hexanone ND 1.0 5.0 Iodomethane (Methyl iodide) ND 1.0 50 Isopropylbenzene ND 1.0 5.0 4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 1-Propyl benzene ND 1.0 5.0 Styrene ND 1.0 5.0 1,1,1,2-Tetrachloroethane ND 1.0 5.0 1,2,2-Trichlorobenzene ND <	1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
Hexachlorobutadiene	1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	
ND	trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 5.0 Naphthalene ND 1.0 5.0 n-Propyl benzene ND 1.0 5.0 Styrene ND 1.0 5.0 1,1,1,2-Tetrachloroethane ND 1.0 5.0 1,1,2,2-Tetrachloroethane ND 1.0 5.0 Tetrachloroethane ND 1.0 5.0 Toluene ND 1.0 5.0 Tetrachloroethene ND 1.0 5.0 1,2,4-Trichlorobenzene ND 1.0 5.0 1,1,1-Trichloroethane ND 1.0 5.0 1,1,2-Trichlorofluoromethane ND 1.0 5.0 Trichloroethene 65 1.0 5.0 Trichlorofluoromethane ND 1.0 5.0 1,2,3-Trichloropropane ND 1.0 5.0 Vinyl Acetate ND 1.0	Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
4-Isopropyl toluene ND 1.0 5.0 Methyl-t-butyl ether (MTBE) ND 1.0 5.0 Methylene chloride ND 1.0 5.0 4-Methyl-2-pentanone (MIBK) ND 1.0 5.0 Naphthalene ND 1.0 5.0 n-Propyl benzene ND 1.0 5.0 Styrene ND 1.0 5.0 1,1,1,2-Tetrachloroethane ND 1.0 5.0 1,1,2,2-Tetrachloroethane ND 1.0 5.0 Tetrachloroethane ND 1.0 5.0 Toluene ND 1.0 5.0 1,2,3-Trichloroethane ND 1.0 5.0 1,2,4-Trichloroethane ND 1.0 5.0 1,1,1-Trichloroethane ND 1.0 5.0 1,1,2-Trichlorofluoromethane ND 1.0 5.0 Trichloroethene 65 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,2,3-Trichloropropane ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 <td< td=""><td></td><td>ND</td><td>1.0</td><td>50</td><td>Isopropylbenzene</td><td>ND</td><td>1.0</td><td>5.0</td></td<>		ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
Naphthalene ND 1.0 5.0 n-Propyl benzene ND 1.0 5.0 Styrene ND 1.0 5.0 1,1,1,2-Tetrachloroethane ND 1.0 5.0 1,1,2,2-Tetrachloroethane ND 1.0 5.0 Tetrachloroethane ND 1.0 5.0 Toluene ND 1.0 5.0 1,2,3-Trichloroethane ND 1.0 5.0 1,2,4-Trichloroethane ND 1.0 5.0 Trichloroethane ND 1.0 5.0 Trichlorofluoromethane ND 1.0 5.0 Trichloroethene ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Surrogate Recoveries (%)	4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	+
Styrene	Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Styrene ND 1.0 5.0 1,1,1,2-Tetrachloroethane ND 1.0 5.0 1,1,2,2-Tetrachloroethane ND 1.0 5.0 Tetrachloroethane ND 1.0 5.0 Toluene ND 1.0 5.0 1,2,3-Trichloroethane ND 1.0 5.0 1,2,4-Trichloroethane ND 1.0 5.0 Trichloroethane ND 1.0 5.0 1,1,2-Trichloroethane ND 1.0 5.0 Trichloroethane ND 1.0 5.0 Trichlorofluoromethane ND 1.0 5.0 1,2,3-Trichloroptopane ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Surrogate Recoveries (%)	Naphthalene	ND	1.0	5.0		ND	1.0	
Toluene	Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	
1,2,4-Trichlorobenzene ND 1.0 5.0 1,1,1-Trichloroethane ND 1.0 5.0 1,1,2-Trichloroethane ND 1.0 5.0 Trichloroethene 65 1.0 5.0 Trichlorofluoromethane ND 1.0 5.0 1,2,3-Trichloropropane ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Surrogate Recoveries (%) ND 1.04 1.04	1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
1,1,2-Trichlorocthane ND 1.0 5.0 Trichloroethene 65 1.0 5.0 Trichlorofluoromethane ND 1.0 5.0 1,2,3-Trichloropropane ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Vinyl Chloride ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104	Toluenc	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	
Trichlorofluoromethane ND 1.0 5.0 1,2,3-Trichloropropane ND 1.0 5.0 1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 50 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104	1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 50 Vinyl Chloride ND 1.0 5.0 Xylenes ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104	1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	65	—	+
1,2,4-Trimethylbenzene ND 1.0 5.0 1,3,5-Trimethylbenzene ND 1.0 5.0 Vinyl Acetate ND 1.0 50 Vinyl Chloride ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104	Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
Vinyl Acetate ND 1.0 50 Vinyl Chloride ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104		ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	ļ
Xylenes ND 1.0 5.0 Surrogate Recoveries (%) %SS1: 95.1 %SS2: 104	Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND		
%SS1: 95.1 %SS2: 104	Xylenes	ND	1.0	5.0				
			Surr	ogate Re	coveries (%)			
%SS3: 101	%SS1:	95.1	l		%SS2:	104		
	%SS3:	101						

Comments:

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



^{*} water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

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/

Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled: 08/20/03		
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03		
San Jana CA 05129	Client Contact: Joel Greger	Date Extracted: 08/21/03		
San Jose, CA 95128	Client P.O.:	Date Analyzed: 08/22/03-08/23/03		

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Analytical Method: SW8260B

Extraction Method: SW5030B		An	alytical Me	ethod: SW8260B	Work	Order: 0	308337			
Lab ID				0308337-012A						
Client ID		B10(1.5')								
Matrix				Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit			
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0			
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0			
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0			
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0			
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0			
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0			
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0			
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0			
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0			
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0			
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0			
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0			
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0			
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0			
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND ND	1.0	5.0			
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	29	1.0	5.0			
trans-1,2-Dichloroethene	6.5	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0			
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0			
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0			
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0			
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0			
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0			
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0			
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0			
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0			
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0			
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0			
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0			
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND ND	1.0	5.0			
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	250	1.0	5.0			
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND ND	1.0	5.0			
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND ND	1.0	5.0			
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND ND	1.0	5.0			
Xylenes	ND	1.0	5.0		1112		1 3.0			
		****		ecoveries (%)	- Jan		wh			
%SS1:	95.4			%SS2:	103					
%SS3:	103			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_1103					
Comments	103			<u> </u>						

Comments:

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



^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

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Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/22/03-08/23/03
Dan 1030, C/1 /3120	Client P.O.:	Date Analyzed: 08/22/03-08/23/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308337

Extraction Method: SW3030B		7111	utyttour 1420	thod: SW8260B	WOIK	Order: 0	1308337			
Lab ID				0308337-014A						
Client ID				B7Water						
Matrix	Water									
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Repor			
Acetone	ND<1000	200	5.0	Benzene	ND<100	200	0.			
Bromobenzene	ND<100	200	0.5	Bromochloromethane	ND<100	200	0.			
Bromodichloromethane	ND<100	200	0.5	Bromoform	ND<100	200	0.			
Bromomethane	ND<100	200	0.5	2-Butanone (MEK)	ND<200	200	1.			
n-Butyl benzene	ND<100	200	0.5	sec-Butyl benzene	ND<100	200	0			
tert-Butyl benzene	ND<100	200	0.5	Carbon Disulfide	ND<100	200	0			
Carbon Tetrachloride	ND<100	200	0.5	Chlorobenzene	ND<100	200	0			
Chloroethane	ND<100	200	0.5	2-Chloroethyl Vinyl Ether	ND<100	200	0.			
Chloroform	ND<100	200	0.5	Chloromethane	ND<100	200	0.			
2-Chlorotoluene	ND<100	200	0.5	4-Chlorotoluene	ND<100	200	0.			
Dibromochloromethane	ND<100	200	0.5	1,2-Dibromo-3-chloropropane	ND<100	200	0			
1,2-Dibromoethane (EDB)	ND<100	200	0.5	Dibromomethane	ND<100	200	0			
1,2-Dichlorobenzene	ND<100	200	0.5	1,3-Dichlorobenzene	ND<100	200				
1,4-Dichlorobenzene	ND<100	200	0.5	Dichlorodifluoromethane	ND<100	200	0			
1,1-Dichloroethane	ND<100	200	0.5	1,2-Dichloroethane (1,2-DCA)	ND<100	200	0			
1,1-Dichloroethene	ND<100	200	0.5	cis-1,2-Dichloroethene	ND<100	200	0			
rans-1,2-Dichloroethene	ND<100	200	0.5	1,2-Dichloropropane	ND<100	200	0.			
1,3-Dichloropropane	ND<100	200	0.5	2,2-Dichloropropane	ND<100	200	0.			
1,1-Dichloropropene	ND<100	200	0.5	cis-1,3-Dichloropropene	ND<100	200	0.			
rans-1,3-Dichloropropene	ND<100	200	0.5	Ethylbenzene	ND<100	200				
lexachlorobutadiene	ND<100	200	0.5	2-Hexanone	ND<100	200	0.			
odomethane (Methyl iodide)	ND<1000	200	5.0	Isopropylbenzene	ND<100	200	$\frac{0}{0}$			
4-Isopropyl toluene	ND<100	200	0.5	Methyl-t-butyl ether (MTBE)	ND<100		0.			
Methylene chloride	ND<100	200	0.5	4-Methyl-2-pentanone (MIBK)		200	0.			
Naphthalene	ND<100	200	0.5	n-Propyl benzene	ND<100 ND<100	200	0.			
Styrene	ND<100	200	0.5	1,1,1,2-Tetrachloroethane	ND<100		0.			
,1,2,2-Tetrachloroethane	ND<100	200	0.5	Tetrachloroethene	ND<100	200	0.			
Foluene	ND<100	200	0.5	1,2,3-Trichlorobenzene		200	$\frac{0}{0}$			
,2,4-Trichlorobenzene	ND<100	200	0.5	1,1,1-Trichloroethane	ND<100	200	$\frac{0}{2}$			
,1,2-Trichloroethane	ND<100	200	0.5	Trichloroethene	ND<100	200	0.			
Crichlorofluoromethane	ND<100	200	0.5	1,2,3-Trichloropropane	2500 ND<100	200	0.			
,2,4-Trimethylbenzene	ND<100	200	0.5	1,3,5-Triemoropropane		200_	0.			
Vinyl Acetate	ND<1000	200	5.0	Vinyl Chloride	ND<100	200	0.			
Kylenes	120	200	0.5	vinyi Cilioride	ND<100	200	0.			
r y retired	120			coveries (%)						
%SS1:	115		g	%SS2:	100		<u> </u>			
%SS3:	102			/00021						

Comments

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



^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

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Piers Environmental	Client Project ID: #03127; 2942 San	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Pablo Ave	Date Received: 08/21/03
San Iara CA 05129	Client Contact: Joel Greger	Date Extracted: 08/22/03-08/23/03
San Jose, CA 95128	Client P.O.:	Date Analyzed: 08/22/03-08/23/03

Volatiles Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B	Analytical Method:	SW8260B	Work Order: 0308337
I at ID		0200227 0164	

Extraction Method: SW5030B		Ali	aryticar ivie	thod: SW8260B	WOIK	Order: 0	308337
Lab ID				0308337-016A			
Client ID				B9Water			
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reportin
Acetone	ND<25,000	5000	5.0	Benzene	ND<2500	5000	0.5
Bromobenzene	ND<2500	5000	0.5	Bromochloromethane	ND<2500	5000	0.5
Bromodichloromethane	ND<2500	5000	0.5	Bromoform	ND<2500	5000	0.5
Bromomethane	ND<2500	5000	0.5	2-Butanone (MEK)	ND<5000	5000	1.0
n-Butyl benzene	ND<2500	5000	0.5	sec-Butyl benzene	ND<2500	5000	0.5
tert-Butyl benzene	ND<2500	5000	0.5	Carbon Disulfide	ND<2500	5000	0.5
Carbon Tetrachloride	ND<2500	5000	0.5	Chlorobenzene	ND<2500	5000	0.5
Chloroethane	ND<2500	5000	0.5	2-Chloroethyl Vinyl Ether	ND<2500	5000	0.5
Chloroform	ND<2500	5000	0.5	Chloromethane	ND<2500	5000	0.5
2-Chlorotoluene	ND<2500	5000	0.5	4-Chlorotoluene	ND<2500	5000	0.5
Dibromochloromethane	ND<2500	5000	0.5	1,2-Dibromo-3-chloropropane	ND<2500	5000	0.5
1,2-Dibromoethane (EDB)	ND<2500	5000	0.5	Dibromomethane	ND<2500	5000	0.5
1,2-Dichlorobenzene	ND<2500	5000	0.5	1,3-Dichlorobenzene	ND<2500	5000	0.5
1,4-Dichlorobenzene	ND<2500	5000	0.5	Dichlorodifluoromethane	ND<2500	5000	0.5
I,1-Dichlorocthane	ND<2500	5000	0.5	1,2-Dichloroethane (1,2-DCA)	ND<2500	5000	0.5
1,1-Dichloroethene	ND<2500	5000	0.5	cis-1,2-Dichloroethene	ND<2500	5000	0.5
trans-1,2-Dichloroethene	ND<2500	5000	0.5	1,2-Dichloropropane	ND<2500	5000	0.5
1,3-Dichloropropane	ND<2500	5000	0.5	2,2-Dichloropropane	ND<2500	5000	0.5
1,1-Dichloropropene	ND<2500	5000	0.5	cis-1,3-Dichloropropene	ND<2500	5000	0.5
trans-1,3-Dichloropropene	ND<2500	5000	0.5	Ethylbenzene	ND<2500	5000	0.5
Hexachlorobutadiene	ND<2500	5000	0.5	2-Hexanone	ND<2500	5000	0.5
Iodomethane (Methyl iodide)	ND<25,000	5000	5.0	Isopropylbenzene	ND<2500	5000	0.5
4-Isopropyl toluene	ND<2500	5000	0.5	Methyl-t-butyl ether (MTBE)	ND<2500	5000	0.5
Methylene chloride	ND<2500	5000	0.5	4-Methyl-2-pentanone (MIBK)	ND<2500	5000	0.5
Naphthalene	ND<2500	5000	0.5	n-Propyl benzene	ND<2500	5000	0.5
Styrene	ND<2500	5000	0.5	1,1,1,2-Tetrachloroethane	ND<2500	5000	0.5
1,1,2,2-Tetrachloroethane	ND<2500	5000	0.5	Tetrachloroethene	ND<2500	5000	0.5
Toluene	ND<2500	5000	0.5	1,2,3-Trichlorobenzene	ND<2500		
1,2,4-Trichlorobenzene	ND<2500	5000	0.5	1,1,1-Trichloroethane	ND<2500	5000	0.5
1,1,2-Trichloroethane	ND<2500	5000	0.5	Trichloroethene	240,000	5000	0.5
Trichlorofluoromethane	ND<2500	5000	0.5	1,2,3-Trichloropropane	ND<2500	5000	0.5
1,2,4-Trimethylbenzene	ND<2500	5000	0.5	1,3,5-Trimethylbenzene	ND<2500	5000	0.5
Vinyl Acetate	ND<25,000	5000	5.0	Vinyl Chloride		5000	0.5
Xylenes	ND<2500	5000	0.5	vinyi Chloride	ND<2500	5000	0.5
Ayunos	i NL/~2300			coveries (%)		×	
%SS1:	113		ogate Ne	%SS2:	99.5		
%SS3:	104			7,00001	39.3		

Comments: i

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



^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.



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

Piers Environmental	Pablo Ave Client Contact: Joel Greger Date Received: 08/21/03 Date Extracted: 08/21/03-08/23/03	
1330 S. Bascom Avenue, Ste. F	radio Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/21/03-08/23/03
oan 3050, C/1 /3120	Client P.O.:	Date Analyzed: 08/25/03

Hexachrome by IC*

Extraction method: CA Title 22

Analytical methods: E218.6

Work Order: 0308337

Extraction incrior.	CA TIGE 22		Allalytical	methods; E218.6	Work Order:	0308337
Lab ID	Client ID	Matrix	Extraction	Hexachrome	DF	% SS
0308337-010A	B9(1.5')	S	DISTLC	130	1	N/A
0308337-012A	B10(1.5')	S	DISTLC	4.6	1	N/A
			=			
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			· · · · · · · · · · · · · · · · · · ·			
<u>-</u>	·					
						- .
				/HUA1		

Reporting Limit for DF =1; ND means not detected at or	W	TTLC	NA	mg/L
above the reporting limit	S	DISTLC	2.0	μg/L

^{*} All samples are reported in µg/L. Soil/solid/non-aqeuos sample extracted using a modified STLC extraction procedure by substituting deionized water for the citric acid buffer as the extraction fluid. For soil/solid/non-aqeous liquid samples, the 10ml DI:1g sample extraction ratio is not factored into the reported $\mu g/L$ value, following CA Title 22 instructions for DISTLC haxachrome determinations for regulatory purposes. If a "true" $\mu g/kg$ value if hexachrome is required then multiply the reported value times the extraction factor (ex: A μ g/L * (.5L / 0.05kg) = 10A μ g/kg).

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Piers	E

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

Piers Environmental	Client Project ID: #03127; 2942 San Pablo Ave	Date Sampled: 08/20/03
1330 S. Bascom Avenue, Ste. F	Ave	Date Received: 08/21/03
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 08/21/03
5411 7050, O/1 75120	Client P.O.:	Date Analyzed: 08/22/03

pH*

Analytical Method: SW9045C

Work Order: 0308337

Analytical Mellod, 3 W			Work Order: 0308337						
Lab ID	Client ID	Matrix	рН						
0308337-010A	B9(1.5')	S	9.56 @ 24.8℃						
0308337-012A	B10(1.5')	S	8.05 @ 24.8°C						
				·					
				···					
	· · · · · · · · · · · · · · · · · · ·		V						
	· · · · · · · · · · · · · · · · · · ·								
	· · · · · · · · · · · · · · · · · · ·								
			- VIII-						
	· · · · · · · · · · · · · · · · · · ·								

Method Accuracy and Reporting Units	w	NA
	S	±0.1, pH units @ °C

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0308337

EPA Method: SV	W8021B/8015Cm E	SW5030B		BatchID:	8255	piked Sample ID: 0308351-001A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptanc	e Criteria (%)
	μg/L ·	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	101	100	0.674	98.6	94.1	4.67	70	130
MTBE	57.25	10	NR	NR	NR	99.3	97.9	1.47	70	130
Benzene	ND	10	104	98.8	4.95	98.1	95.2	3.07	70	130
Toluene	ND	10	103	99.5	3.19	100	96.9	3.29	70	130
Ethylbenzene	ND	10	106	103	2.65	101	97.7	3.68	70	. 130
Xylenes	ND	30	107	103	3.17	103	99.7	3.61	70	130
%SS:	106	100	104	104	0	99.9	100	0.391	70	130

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 and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

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

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0308337

EPA Method: SW80	21B/8015Cm E	Extraction:	SW5030E	}	BatchID:	BatchID: 8237		Spiked Sample ID: 0308307-002A				
	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(btex)£	ND	0.60	102	105	2.72	108	108	0	70	130		
МТВЕ	ND	0.10	83.6	86.6	3.53	91.9	92.7	0.805	70	130		
Benzene	ND	0.10	100	102	1.78	110	108	1.90	70	130		
Toluenc	ND	0.10	99.3	101	1.83	110	109	1.36	70	130		
Ethylbenzene	ND	0.10	99.9	101	0.913	107	107	0	70	130		
Xylenes	ND	0.30	103	103	0	110	110	0	70	130		
%SS:	89.6	100	96	99.3	3.38	99.7	99,2	0.503	70	130		

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.

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

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

[£] TPH(blex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B

Matrix: S

WorkOrder: 0308337

EPA Method: SW8021B	Extraction: SW5030				BatchID: 8225			Spiked Sample ID: 0308282-005A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	μg/Kg	μg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Chlorobenzene	ND	50	91.9	92.1	0.250	92.8	94.5	1.86	70	130	
1,1-Dichloroethene	ND	50	104	101	3.50	102	103	0.919	70	130	
Trichloroethene	ND	50	93.7	97.1	3.52	92.2	92.9	0.659	70	130	
%SS:	107	100	96.2	95.9	0.392	97	97.5	0.517	70	130	

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.

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

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0308337

EPA Method: SW8021B	Extraction: SW5030B				BatchID:	8219	Spiked Sample ID: 0308283-002B				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Chlorobenzene	ND	10	99.9	100	0.596	98.2	96.5	1.77	70	130	
1,1-Dichloroethene	ND	10	109	112	2.03	109	105	3.81	70	130	
Trichloroethene	ND	10	101	104	2.08	102	98.3	3.82	70	130	
%SS:	116	100	98.7	97.5	1.26	94.5	94.6	0.0562	70	130	

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.

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

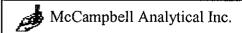
^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

WorkOrder: 0308337



%SS2:

%SS3:

QC SUMMARY REPORT FOR SW8260B

Matrix: S

EPA Method: SW8260B Extraction: SW5030B BatchID: 8229 Spiked Sample ID: 0308293-002A Sample Spiked MS* MSD* MS-MSD* LCS LCSD .CS-LCSD Acceptance Criteria (%) µg/Kg μg/Kg % Rec. % Rec. % RPD % Rec. % Rec. % RPD Low High Benzene ND 50 105 99.2 5.61 99.5 101 1.09 70 130 Chlorobenzene ND 50 101 100 0.610 98.2 98.3 0.0499 70 130 1,1-Dichloroethene ND 50 93.4 87.1 7.00 88 89.4 1.57 70 130 Methyl-t-butyl ether (MTBE) ND 50 93.1 85.5 8.50 87.5 88.5 1.18 70 130 Tolucne ND 50 108 106 1.63 105 105 0 70 130 Trichloroethene ND 50 85.4 81.2 4.97 80.8 82.4 1.90 70 130 %SS1: 100 100 102 98.9 3.16 102 102 0 70 130

102

104

1.49

2.73

101

107

100

106

0.158

1.15

70

70

130

130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

100

107

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

97.3

105

100

100

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

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0308337

EPA Method: SW8260B	E	Extraction:	SW5030	3	BatchID:	8239	Spiked Sample ID: 0308318-001E				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Benzene	ND	10	100	101	0.541	95.5	98.4	2.98	70	130	
Chlorobenzene	ND	10	98.8	97.8	1.00	95.2	97.1	2.04	70	130	
1,1-Dichloroethene	ND	10	90.1	89.9	0.158	89.4	88.4	1.10	70	130	
Methyl-t-butyl other (MTBE)	ND	10	86.3	89.6	3.86	88.9	90.8	2.12	70	130	
Toluene	ND	10	105	104	0.807	98.3	102	3.63	70	130	
Trichloroethene	ND	10	82.5	82.7	0.255	80.6	81.9	1.56	70	130	
%SS1:	119	100	108	108	0	107	106	1.04	70	130	
%SS2:	96.2	100	100	100	0	101	101	0	70	130	
%SS3:	100	100	107	110	3.18	108	108	0	70	130	

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.

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

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

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR E218.6

Matrix: S

WorkOrder: 0308337

EPA Method: E218.6	E	Extraction:	CA Title 2	22	BatchID:	8259	s	piked Sampl	e ID: N/A	
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS			Acceptano	e Criteria (%)
	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Hexachrome	N/A	250	N/A	N/A	N/A	104	104	0	90	110

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

NONE

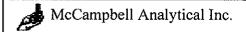
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:

Matrix: S

WorkOrder: 0308337

Method Name: S			Units: ±, pH u		BatchID: 8214	
SampleID	Sample	DF	Dup / Ser. Dil.	DF	RD	Acceptance Criteria
0308337-010A	9.56	1	9.54	1	0.020	±0.2
0308337-012A	8.05	1	8.06	1	0.010	±0.2



พวกรปลรสาวเคออก

basic

veice 530.243.7234

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2218 Railroad Avenue Redding, California 96001

Report To:

MC CAMPBELL ANALYTICAL INC.

110 SECOND AVE SOUTH, #D7

PACHECO, CA 94553

Attention: Project: Maria Venegas

Metals Testing 0308337 #03127;2942 SAN PABLO AVE

Lab No:

3080815

Reported: 08/27/03

Phone: (925) 798-1620

P.O. #

Metals - Solid

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
0308337-010A B9(1.5') Soil	(3080815-01)	Sampled:08	8/20/03 14:00	Received:	08/22/0	3 12:14			
Antimony	mg/kg	ND		1.0	4.0	EPA 6010A	08/26/03	08/25/03	B3H0343
Arsenic	u	4.2		0.8	4.0	п	ш	H,	н
Barium	II	130		20.0	80.0	U	11	11	u
Beryllium	H	ND		0.4	2.0	19	If	'n	U
Cadmium	19	2.3		0.4	2.0	н	Ħ	II.	n
Chromium	**	63.6		0.2	2.0	16	u	и	10
Cobalt	II	10.4		2.0	10.0	n n	п	н	' u
Copper	11	17.6		0.2	1.0	II	n	11	II .
Lead	11	50.6		0.5	2.5	D	n	U	II .
Mercury	II	ND		0.06	0.3	EPA 7471	08/26/03	08/26/03	B3H0431
Molybdenum	U	1.0	J	1.0	5.0	EPA 6010A	08/26/03	08/25/03	B3H0343
Nickel	10	54.6		0.5	2.0	t1	ı ıı´	ti	u
Sefenium	tt .	ND		0.5	2.0	11	If	u	п
Silver	u ·	ND		0.8	4.0	n	и	D	В
Thallium	n n	ND		1.0	4.0	lf	ŧ	It	IT
Vanadium	II.	26.8		4.0	20.0	11	II .	и -	u
Zinc	n	71.8		2.0	10.0	n	п	n	II .
0308337-012A B10(1.5') Soil	(3080815-02)	Sampled:0	08/20/03 14:00	Received	:08/22/0	3 12:14			.
Antimony	mg/kg	ND	· · · · · · · · · · · · · · · · · · ·	1.0	4.0	EPA 6010A	08/26/03	08/25/03	B3H0343
Arsenic	- 0	5.4		0.8	4.0	,2 H	"	n	"
Barium	II .	188		20.0	80.0	n n	n	u	u
Beryllium	U	ND		0,4	2.0	n	n		n n
Cadmium	В	5.4		0.4	2,0	II .	10	U	11
Chromium	11	55.6		0.2	2.0	U	**	II.	++
Cobalt	n	6.8	J	2.0	10.0	H	u	78	11
Copper	II .	72.2		0.2	1.0	H	u	n	11
Lead	II .	27.2		0.5	2.5	Ħ	n	u	11
Mercury	II .	ND		0.06	0.3	EPA 7471	08/26/03	08/26/03	B3H0431
Molybdenum	D .	1.4	J	1.0	5.0	EPA 6010A	08/26/03	08/25/03	B3H0343
Nickel	19	346	·	0.5	2,0	"	100, 210, 00	11 .	"
Selenium	11	ND		0.5	2.0	. 15	11	н .	II .
		•••				11			
	(1	ND		0.8	4.0	Tr.	II .	#1	"
Silver Thallium	et 11	ND ND		0.8 1.0	4.0 4.0	"	"	(I	"
Silver	n n	ND ND 40.2		0.8 1.0 4.0	4.0 4.0 20.0	•			

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 2 of 4

McCampbell Analytical 110 2nd Ave. South, #D7 Pacheco, CA 94553-5560

Attn: Ed Hamilton

Report Date: 08/28/03 15:29 Project No: 0308337

1

1

Project ID: #03127; 2942 San Pablo Ave

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308469

08/22/2003 11:07

MCCLAB

Alpha Analytical Laboratories, Inc.

BATCH PREPARED ANALYZED DILUTION

RESULT

ND mg/kg

0.44 mg/kg

NOTE

B9(1.5') (A308469-01)

Conventional Chemistry Parameters by APHA/EPA Methods

METHOD

EPA 9010

AH32811 08/27/03 08/27/03 Sampled: 08/20/03 14:00

0.40

B10(1.5') (A308469-02)

Cyanide (total)

Sample Type: Soil

Sample Type: Soil

Sampled: 08/20/03 14:00

Conventional Chemistry Parameters by APHA/EPA Methods

Cyanide (total)

EPA 9010

AH32811 08/27/03

08/27/03

0.40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Melanie B. Theca

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 3 of 4

McCampbell Analytical 110 2nd Ave. South, #D7 Pacheco, CA 94553-5560

Attn: Ed Hamilton

Project No: 0308337

Report Date: 08/28/03 15:29

Project ID: #03127; 2942 San Pablo Ave

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A308469

08/22/2003 11:07

MCCLAB

SourceResult

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH32811 - General Prepara	ıtion							_		_
Blank (AH32811-BLK1)				Prepared .	& Analyze	ed: 08/27/0)3			
Cyanide (total)	ND	0.40	mg/kg							NIE
LCS (AH32811-BS1)				Prepared	& Analyze	d: 08/27/0)3			
Cyanide (total)	0.0388	0.40	mg/kg	0.0400		97.0	85-115			
LCS Dup (AH32811-BSD1)				Prepared .	& Analyze	d: 08/27/0)3			
Cyanide (total)	0.0416	0.40	mg/kg	0.0400		104	85-115	6.97	20	-

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Melanie B. Thece

0308337

McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 72 HR RUSH 24 HR Telephone: (925) 798-1620 48 HR Fax: (925) 798-1622 Report To: Joel Greger Bill To: Piers Environmental Analysis Request Other Comments Company: Piers Environmental ON 8015 Total Petroleum Oil & Grease (5520 E&F/B&F) 1330 S. Bascom Ave, Suite F San Jose, CA 95128 PAH's / PNA's by EPA 625 / 8270 / 8310 Tele: (408) 559-1248 Fotal Petroleum Hydrocarbons (418.1) Project Name: 2942 Son Pable from Calkery Calkery CA Fax: (408) 559-1224 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) EPA 624 / 8240 /8260) ance METHOD Specific Conductivity SAMPLING MATRIX TPH as Diesel (8015) Type Containers PRESERVED # Containers CAM-17 Metals EPA 601 (8010 EPA 608 / 8080 EPA 625 / 8270 BTEX & TPH as SAMPLE ID LOCATION HNO₃ Sludge Date Time Other Soil Ice 382 RCI. Ηd B/(1') 29m × B7(3.5) B7 (6) B7 (9.5) HULD 17000 B7 (12.5 4000 B7 (145 7 (16) Here D 88 (1.51) 14020 B& (5") 1town B9(1.5' λ.) XX B9 (3.5 HOW) 610 (1.5 Χ У × X B10 (3: HOW 1 VOC 3 Vous X Relinquished By: Date: Time: Received By: VOAS OS METALS OTHER PRESERVATION_ ICE/t° Relinquished By: Date: Réceived By: GOOD CONDITION APPROPRIATE
HEAD SPACE ABSENT CONTAINERS Relinquished By: Date: Time: Received By:



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

WorkOrder: 0308337

Client:

Piers Environmental

1330 S. Bascom Avenue, Ste. F

San Jose, CA 95128

TEL:

PO:

(408) 559-1248

FAX:

(408) 559-1224

ProjectNo:

#03127; 2942 San Pablo Ave

Date Received:

8/21/03

Date Printed:

8/21/03

							R	equested Test	s		
Sample ID	ClientSampID	Matrix	Collection Date	Hold	6010C	Cyanide	E218_6	SW7010	SW7471B	SW8021B	V8021B/8015
0308337-001	B7(1')	Soil	8/20/03 2:00:00 PM			1				A	Α
0308337-004	B7(9.5')	Soil	8/20/03 2:00:00 PM						 	A	A
0308337-006	B7(14.5')	Soil	8/20/03 2:00:00 PM							A	
0308337-010	B9(1.5')	Soil	8/20/03 2:00:00 PM		Α	Α -	Α	A -	A		A
0308337-012	B10(1.5')	Soil	8/20/03 2:00:00 PM		A	A	Α	A	A		
0308337-014	B7Water	Water	8/20/03 2:00:00 PM			1				<u> </u>	
0308337-015	B8Water	Water	8/20/03 2:00:00 PM							В	A
0308337-016	B9Water	Water	8/20/03 6:00:00 PM					-		В	Α

Prepared by: Maria Venegas

Comments:

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.



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

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WorkOrder: 0308337

Client:

Piers Environmental

_

(408) 559-1248

1330 S. Bascom Avenue, Ste. F

FAX:

(408) 559-1224 #03127: 2942 San Pablo Ave

San Jose, CA 95128 ProjectNo:

Date Received:

8/21/03

PO:

TEL:

Date Printed:

8/21/03

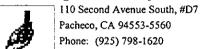
					Requested Tests						
Sample ID	ClientSampID	Matrix	Collection Date	Hold	SW8260B	SW9045C					
0308337-001	B7(1')	Soil	8/20/03 2:00:00 PM	Γ []							
0308337-004	B7(9.5')	Soil	8/20/03 2:00:00 PM								
308337-006	B7(14.5')	Soil	8/20/03 2:00:00 PM	l n					+		
308337-010	B9(1.5')	Soil	8/20/03 2:00:00 PM		Α	Α					
308337-012	B10(1.5')	Soil	8/20/03 2:00:00 PM		Α	Α					
308337-014	B7Water	Water	8/20/03 2:00:00 PM		Α						
308337-015	B8Water	Water	8/20/03 2:00:00 PM					· ·			
308337-016	B9Water	Water	8/20/03 6:00:00 PM		A						

Prepared by: Maria Venegas

Comments:

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.

Fax: (925) 798-1622



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0308337

#3080815

Subcontractor:

Basic Laboratory, Inc. 2218 Railroad Avenue Redding, CA 96001 TEL:

(530) 243-7234

FAX: ProjectNo: (530) 243-7494 #03127: 2942 San Pablo Ave

Acct #:

Date Received:

8/21/03

Date Printed:

Due 129-03

8/21/03

					CAM17	 Requested Tests	
Sample ID	ClientSampID	Matrix	Collection Date	TAT	5010C		
0308337-010A	B9(1.5')	Soil	8/20/03 2:00:00 PM	5 Day	1		#-1
0308337-012A	B10(1.5')	Soil	8/20/03 2:00:00 PM	5 Day	1		#2

Comments:

Please use client ID's

Please fax results to Maria Venegas at 925-798-1622 upon completion.

	Date/Time		Date/Time
Relinquished by:	8/21/03	Received by:	
Relinquished by:		Received by: Rochelle Mknow Hon 8-22-03	3 12:14

110 Second Avenue South, #D7 Pacheco, CA 94553-5560

Phone: (925) 798-1620 Fax: (925) 798-1622

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0308337

Subcontractor:

Alpha Analytical Laboratories 860 Waugh Lane, H-1 Ukiah. CA 95482 TEL:

(707) 468-0401

FAX: Projectivo: (707) 468-5267 #03127: 2942 San Pablo Ave

Date Received:

8/21/03

Acct #:

Date Printed:

8/21/03

		•	· 5./			Requested Tests
Sample ID	ClientSampID	Matrix	Collection Date	TAT	Cyanide	
0308337-010A	B9(1.5')	Soil	8/20/03 2:00:00 PM	5 Day	1	A 308469-1
0308337-012A	B10(1.5')	Soil	8/20/03 2:00:00 PM	5 Day	1	- 0

Comments:

Please use client ID's

Please fax results to Maria Venegas at 925-798-1622 upon completion.

	Date/Time		Date/Time
Relinquished by:	8/21	Received by: Sesle (Com	8/2/05 1107
Relinquished by:		Received by:	

Boring Logs

	ВС	ORING LOG	
Project No. D32/7	Boring di	ameter: 2"	Logged By: Joel Greger PIERS
Project: Oaklond	Elevation	า:	Date drilled: <i>8-20-03</i>
Boring No. B7	Drilling N	Method: GeoProbe	Drilling Company:
Sample G.W. Sam intervals level (ft)	th Stratigraphy		Description
- 0 - 5 - 10 - 15 - 20 - 25 - 30	ML grows	Sityclay (C 225' 1t.9 26.5-6ras 27.5' Color of less odor Strane Gravelly as wet avers moderated all-open 21-0pen W20-Suhvas Ovangish 24-51.get gravely 28-5ifas	Longo to It. greened brown, I, with mother Te-Ox 11.5 as. on B8, 51-mod. oder, I gravely gish brown 5. It (ML), no oder By dorkgron 2 one 18.6-18.8° engandor, otherwise nu oder (ed Clays to Sandy 5.1t)
2942 San Pa Jahland C		Figure No:	Date: 8-20-03
		tory Bor	Drawn By: JG - PIERS

Exploratory Boring 87

			ВС	ORING LOG		
Project No	. 03217	7	Boring di		2"	Logged By: Joel Greger
Project: 5	1947 Son	Pablo KA	Elevation	n: PIERS Date drilled: 8-20-03		
Boring No.	88		Drilling N	Method: GeoProb)e	Drilling Company: //wnex
Sample intervals	G.W. level	Sample Depth (ft)	Stratigraphy (USCS)		1	Description
		15 - 20 - 30 - 30 - 30 - 30 - 30 - 30 - 30	Sand 8 good my	provel for de la proventa de la constanta de l	Sondy 5. To Clarge If moth Sondy 5. To Wet of Lyser 16 ED - 26 Water of	gish brn. silt (M6) (13-13,5') from silty day (Cl), 118 sand, silt, salvatal, 5-175
•	2942 San Pablo Ave			Figure No:	Date: 8	-20-03
0	aklane	I CA	•	B8	Drawn By	/: JG - PIERS
		Evnlorat				06

Exploratory Boring 88

		В(ORING LOG				
Project No. 032/	7	Boring di	ameter:	Logged By: Joel Greger			
Project: 2942 San Oaldo	Pablo	Elevation	n:		PIERS Date drilled: 8 - 20 -03		
Boring No. 39		Drilling I	Method: GeoPi	robe	Drilling Company: Vivenox		
Sample G.W. intervals level	Sample Depth (ft)	Stratigraphy (USCS)		Description			
	10		orand we fen mi	ish brown greensily es to silfer n gish brown sine amore s' - Silfer gravels gravels ngishbrown who s'abrown grave 22.0 recewatora who collecte note change	duyen s. 16 (MC) clay (Cl), mast, shift lay + clayer sitt (LL & n, dark organic makenal the sand & gravel, wet with 15', gravels highly 3-12.9', 15.2-16' soft w/ Fe + Ox Staining led 8-23.2 cound gravels et at 28.3' offer then slotter (asong) during sample collection		
2942 San		Ave.	Figure No	TOW 30' AF	8/20/03		
dakland,	A		139	Drawn By	y: JG - PIERS		
	ļ	Explora	tory R	oring A	89		

Exploratory Boring 89

		······································		ВС	ORING LO)G		
Project No. 032/7			Boring diameter: 2"				IF	Logged By: Joel Greger PIERS
Project: 2947 San Pablo Jaklond CB			Elevation:					Date drilled: 8-20-03
Boring No.	Drilling Method: GeoProbe				е	Drilling Company: Vivonex		
Sample intervals	G.W. level	Samp Depth (ft)	າ Strati	Stratigraphy (USCS)				Description
		- 0 - 5 - 5 - 10 - 15 - 15	- K		 			Silfy (lay (CL)
		- 20 - 25 - 25 - 30					I	
2942 SanPablo Ave. Oaklan CA						Figure No:	Date:	8-20-03
							Drawn E	By: JG - PIERS
				Norc	ton.	D^	rina	810

Exploratory Boring 8/0