Pacific Gas and Electric Company

February 9, 2001

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Ms. Susan Hugo Senior Hazardous Materials Specialist Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6577



Subject: Remedial Action Report for PG&E's Emeryville Materials Facility, 4525 Hollis St., Emeryville

Dear Ms. Hugo:

Your copy of the "Emeryville Materials Facility Aboveground and Underground Storage Tank Report of Remedial Action" is attached. This report documents the implementation of the remedial action plan dated July 1999. The report provides details on the destruction of the nine monitoring wells, the soil and groundwater investigation of two former underground storage tanks (USTs), and the remediation of soils in the vicinity of four former above ground tanks (ASTs).

The nine monitoring wells were abandoned according to California Well Standards under permit from the Alameda County Department of Public Works. Each well was drilled out and grouted to the surface or, where drilling out was impractical, pressure grouted to the surface.

Three soil borings were advanced in the vicinity of the former USTs to allow for collection of soil and ground water samples. While minor amounts of PCBs were detected in one of the soil borings, all groundwater samples were devoid of contamination.

Approximately 530 tons of PCB affected soil and debris was removed from the former AST area. The highest remaining concentration of PCB at the site is 17.2 mg/kg at a depth of 14 ft below grade. The mean concentration of PCBs remaining at the site is 3 mg/kg while the 95% Upper Confidence Limit is 4 mg/kg. These remaining concentrations and depths of PCBs at the site are more than adequate to protect the health of construction, utility and industrial workers as identified in the Risk Based Corrective Action (RBCA) Report.

Please call me at (415) 972-5719 with any questions.

Sincerely,

Susan Fandel

Environmental Specialist

Attachment

cc: Barbara Cook- DTSC

Clyde Broussard Korbin Creek bcc:

Fred Flint

Dave Gilbert

Jesus Luna Rudy Promani Tom Wilson

TES

Emeryville Materials Facility

Aboveground and Underground

Storage Tank Report of

Remedial Action

Prepared by

Technical and Environmental Services

Prepared for Environmental Field Services

January 2001

Report No.: 402.331-00.240

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Section 1

INTRODUCTION

In July 1999, the Pacific Gas and Electric Company ("the Company") proposed a remedial action plan (PG&E 1999) for the Company's Emeryville Materials Facility (EMF) to assess the underground storage tanks (USTs) located at 4227 Hollis Street and 4525 Hollis Street, abandon nine existing monitoring wells, and remediate by excavating soil beneath the former aboveground storage tank (AST) farm located along 53rd Street.

All USTs have been previously removed, followed by confirmation sampling. At both locations, overexcavation and resampling occurred based on analytical results. The ASTs were removed and several subsurface investigations were conducted consisting of soil borings, the installation of monitoring wells and a risk based corrective action (RBCA) analysis.

Purpose

The purpose of this report is to document the clean-up efforts undertaken at the AST area, the procedures used to achieve well abandonment and to present the results of the UST groundwater investigation. This report includes summaries of all analytical data and an update of the risk-based analysis. This report includes a description of field procedures, quality assurance/quality control, and waste disposal. A detailed summary of past site activities is also presented.

Site Description

The EMF is located at 4525 Hollis Street in the city of Emeryville, and extends from an area south of 45th Street to 53rd Street (Figure 1). The property occupies approximately 16.5 acres in an area zoned for industrial use.

The site was constructed on artificial fill ranging from three to eight feet above the natural ground surface at an elevation of approximately 25 feet above mean sea level (USGS 1980). The nearest drainage is Temescal Creek, which flows through an underground culvert toward San Francisco Bay. Figure 2 is a layout of the EMF showing the approximate location of the former UST and AST areas. Also shown in Figure 2 are a series of six monitoring wells installed at the facility in 1984 (E&E 1984) and three installed in 1994 near the AST area (PG&E 1994).

Since construction in the early 1920s, the EMF has been a warehouse, repair shop, and storage yard. Transformers, capacitors, oil circuit breakers and other miscellaneous equipment used in the electrical



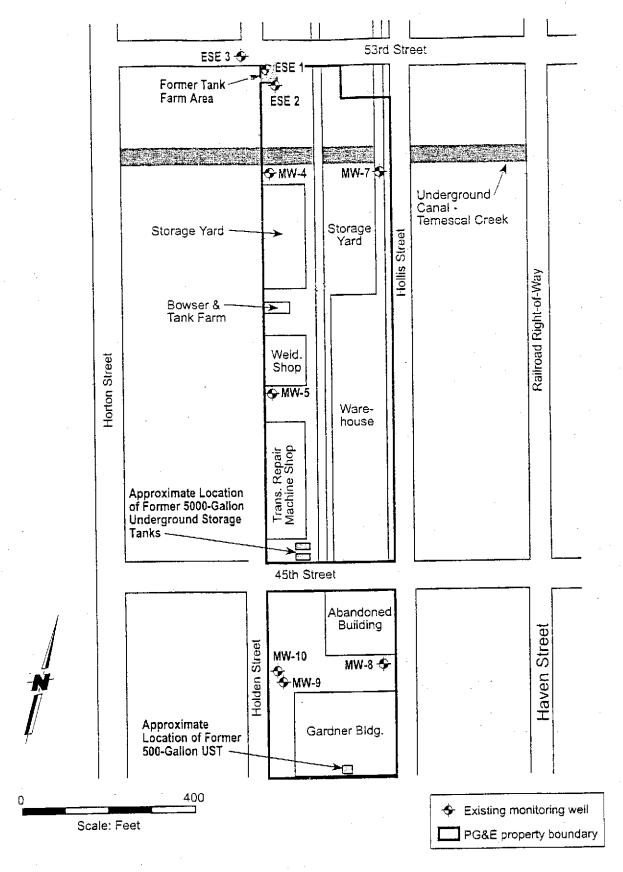


Figure 2. Layout of Emeryville Materials Facility showing former tank farm area, underground storage tank sites and existing monitoring well locations.

transmission and distribution system are brought to the facility for repair and storage.

Geology and Hydrogeology

The facility is located in a lowland area along the eastern shore of San Francisco Bay, a flooded river valley in a northwest trending structural trough formed in Franciscan bedrock. Tectonic forces in place during the Pleistocene epoch (approximately 2 million years ago) created the San Francisco Bay depression, as the Oakland/Berkeley hills were undergoing uplift. Erosion and deposition of material from the Oakland/Berkeley hills created coalescing alluvial fan deposits along the east shore of the bay.

Alluvial deposits along the East Bay margin include:

- Pleistocene alluvial fan deposits consisting of silty and sandy clays with gravely lenses which grade laterally into margin sediments (Alameda Formation).
- Upper Pleistocene Merrit Sand consisting of fine grained lenticular sands and silty sands that occur irregularly and vary in thickness from a few inches to 65 feet.
- Late Pleistocene to Holocene alluvial deposits consisting of interbedded clayey gravels, sand and silty clays, and sand-silt-clay mixtures that grade laterally into Merrit Sand (Temescal Formation).
- Holocene stream deposits.

Previous investigations indicate that the facility is underlain by approximately 3 to 8 feet of fill (PG&E 1994a). This fill is underlain by Pleistocene alluvial fan deposits consisting of thick sequences of silty and sandy clay with thinly interbedded and discontinuous gravel lenses. Shallow groundwater occurs at an elevation of about 6 to 8 feet above sea level, 12.5 to 14.5 feet below ground surface (ft bgs). Groundwater flow-direction is generally westerly toward the bay. Previously issued reports are listed in Appendix A.

Section 2

UNDERGROUND STORAGE TANK HISTORY

In October 1991, one 500-gallon underground storage tank (UST) was removed at 4227 Hollis Street at the EMF. The tank was probably used to store kerosene. Two 5,000-gallon, steel, single-wall tanks, used for storing non-PCB mineral oil were located near Hollis Street (Figure 3). Excavation of these tanks, which were decommissioned in 1986, occurred on December 22, 1993. The former tank sites were filled following an excavation audit, and capped with concrete. Locations of each tank are shown in Figure 3.

500-Gallon UST

The Company acquired the property in 1955 and, with the purchase, an undocumented 500-gallon UST presumed to have contained kerosene. PG&E never used the UST and removed the tank once discovered.

Following excavation of the single 500-gallon UST in October 1991, a soil sample was collected from the west bottom end. The materials of concern included total petroleum hydrocarbons (TPH) as -gasoline, and kerosene; total oil and grease (TOG); polychlorinated biphenyls (PCBs); and metals (cadmium, chromium, lead, nickel, and zinc). Following a limited overexcavation in November 1991, additional soil samples were collected from the bottom and side walls of the excavation. Approximate sample locations are shown in Figure 3.

Table 1 is a summary of the soils analytical data collected near the former 500-gallon UST. The confirmation soil samples of November 1991, indicated no detectable levels of PCB, TPH-gasoline, TPH-kerosene, or TOG. Metals present in the confirmation samples were below threshold limit concentrations and are considered representative of background concentrations.

Two 5,000-Gallon USTs

Removal of the two, 5,000-gallon USTs occurred on December 22, 1993, and four soil samples were collected from the ends of the tanks at a depth of ten feet below grade. On December 29, 1993, additional excavation at the site extended the UST vault depth to 12 feet. Soil samples collected after the overexcavation were used to determine the effectiveness of source removal. Figure 3 shows the approximate soil sampling locations for the two investigations.

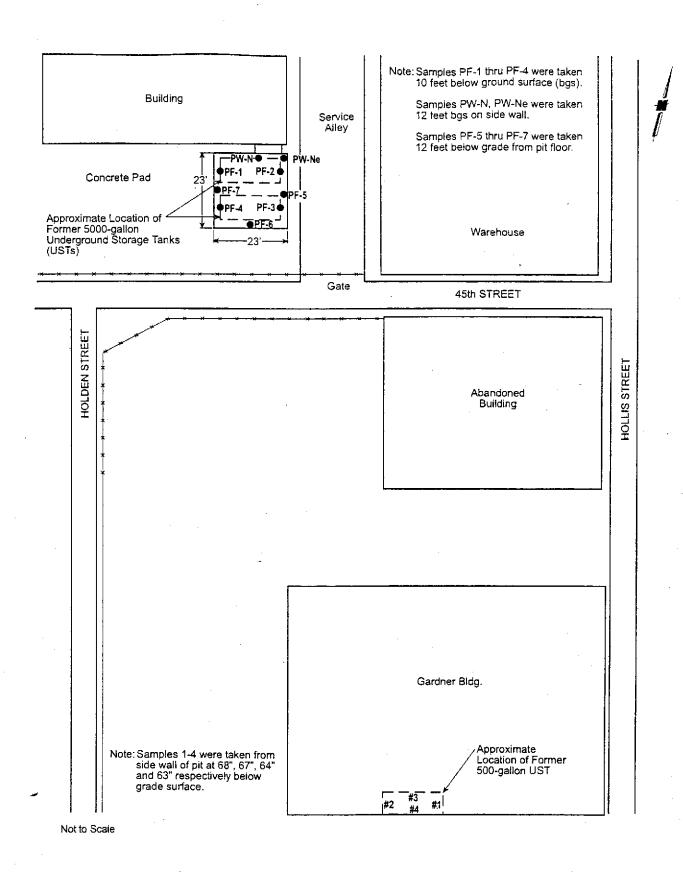


Figure 3. Soil sampling locations at former underground storage tank sites, Emeryville Materials Facility.

Table 1 Emeryville Materials Facility Former 500-Gallon Underground Storage Tank Area Soils Analytical Data

(all concentration units are in mg/kg)

	After Excav	vation on Octo	ber 24, 1991	After Ov	er-excavation	on November	11, 1991			
ANALYSES	S	Sample Location	ori		Sample Location					
	West End	East End	Composite	West wall	East wall	North wall	South wall			
PCB's ^a by EPA 8080	0.1	<0.1	0.2	<0.5	<0.5	<0.5	<0.5			
Oil & Grease by EPA 9071	115	< 50	< 50	<10	<10	<10	<10			
TPH as Kerosene ^{b,c}	6230	<10	<10	<1.0	<1.0	<1.0	<1.0			
TPH as Gasoline: EPA 5030	460	<1.0	1.9	<1.0	<1.0	<1.0	<1.0			
Metals by EPA 6010										
Zinc	88	115.3	193.5	43.0	32.8	45.7	35.2			
Cadmium	1.43	1.0	2.0	3.5	2.94	2.85	2.78			
Lead	21.3	6.1	300	2.0	1.37	2.28	1.62			
Nickel	<1.5	28,7	39.6	28.0	25.5	25.2	29.2			
Chromium	27.5	16.5	26.5	28.5	26.5	27.1	26.8			
Semi-Volatile Organics: EPA 8270										
2-methyl napthalene	0.40	< 0.20	< 0.20	na	na	na	na			
Acenaphthene	< 0.04	< 0.04	0.30	na	na	na	na			
Bis-(2-ethylhexyl phthalate)	0.30	< 0.10	< 0.10	na	na	na	na			
Phenanthrene	< 0.10	< 0.10	0.40	na	na	na	na			
Benzo(a)pyrene	< 0.09	< 0.09	0.12	na	na	na	na			
Benzo(b)fluoranthene	< 0.20	< 0.20	0.30	na	na	na	na			
			<u> </u>			<u> </u>				

Notes:

na = not available

<= not detected at or above the indicated reporting limit

^a = Only Aroclor 1260 was detected above the reporting limit

^b = Samples collected on 10/24/91 were analyzed according to Department of Health Extraction Methods

^c = Samples collected on 11/11/91 were analyzed according to EPA Method 3550

Results of soil samples collected after the December 22, 1993 excavation (Table 2) indicate that the site was impacted by TPH-diesel (2,600 mg/kg), oil and grease (2,400 mg/kg), PCBs (1.4 mg/kg), cadmium (2.2 mg/kg) chromium (51 mg/kg), lead (47mg/kg), nickel (110 mg/kg) and zinc (57 mg/kg).

Following the overexcavation of December 29, 1993, remaining soil concentrations were: TPH-diesel (300 mg/kg), oil and grease (310 mg/kg), PCBs (0.086 mg/kg), cadmium (1.6 mg/kg), chromium (48 mg/kg), lead (11 mg/kg), nickel (220 mg/kg) and zinc (50 mg/kg). Metals concentrations are well below total threshold limit concentrations and are considered background levels. The analytical results are summarized in Table 2.

Table 2 Emeryville Materials Facility Two 5000-Gallon Underground Storage Tank Site Soil Analytical Data

(all concentration units are in mg/kg)

ter Excavation	on December	22, 1993		After Over-Excavation on December 29, 1993					
	Sample 1	Vumber		Sample Number					
PF-1	PF-2	PF-3	PF-4	PF-5	PF-6	PF-7	PW-n	PW-ne	
< 0.005	< 0.005	< 0.005	<0.005	< 0.005	<0.005	<0,005	<0.005	<0,005	
< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	
< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	
< 0.005	< 0.005	< 0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	< 0.005	
<0.50	0.97	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	
< 10	2,600	< 10	< 10	36	< 10	41	300	210	
< 10	< 50	< 10	10	< 10	< 10	< 10	< 10	< 10	
< 50	2,400	< 50	< 50	< 50	< 50	80	310	90	
< 0.70	< 0.70	< 0.70	<0.70	<0.70	< 0.70	< 0.70	<0.70	< 0.70	
< 0.01	< 0.01	<0.01	<0.01	< 0.01	i	< 0.01	1	< 0.01	
< 0.033	1.4	0.23	0.17	< 0.033	<0.033	<0.033	0.086	0.036	
								·	
1.8	2.2	1.7	2	1.4	1.6	0.99	1.5	1.4	
51	44	41	51	48	39	30	45	47	
< 10	47	< 10	< 10	11	< 10	< 10	< 10	< 10	
73	110	61	61	110	80	83	210	-220	
46	57	40	43	42	47	32	47	50	
	PF-1 <0.005 <0.005 <0.005 <0.005 <0.005 <10 <10 <10 <50 <0.01 <0.033 1.8 51 <10 73	Sample ? PF-1 PF-2 <0.005	<0.005	Sample Number PF-1 PF-2 PF-3 PF-4 <0.005	Sample Number PF-1 PF-2 PF-3 PF-4 PF-5 <0.005	Sample Number PF-1 PF-2 PF-3 PF-4 PF-5 PF-6 <0.005	Sample Number Sample Number Sample Number	Sample Number Sample Number PF-1 PF-2 PF-3 PF-4 PF-5 PF-6 PF-7 PW-n	

Note:

- <= not detected at or above the indicated reporting limit
- ^a = This analysis is for Semi-Volatile Organic compounds
- ^b = This analysis is for Halogenated Volatile Organic compounds
- ^c = Only Aroclor 1260 was detected above the reporting limit

Section 3

ABOVEGROUND STORAGE TANK HISTORY

An above ground tank farm used for the storage of mineral oil was located along the western edge of the property adjacent to 53rd Street. This corner of the property contained a lowered 4 foot concrete pad (50' x 50'), that supported four aboveground storage tanks (ASTs) and an oil transfer pump. Three of the tanks had a capacity of 10,000 gallons each, while the fourth had a capacity of 11,000 gallons. These tanks were removed between March and September 1993, and the site remained inactive under an impermeable plastic cover installed in 1995.

Three subsurface investigations, two soil and one groundwater, have been conducted at the site as well as quarterly groundwater monitoring and a RBCA analysis. Results of the three soil investigations conducted on the site between 1993 and 1996 are summarized in Table 3.

October 1993 Soil Investigation

A preliminary soil investigation was performed in October 1993 to determine the presence of mineral oil in subsurface soils beneath the ASTs (PG&E 1994a). During this soil investigation nine soil borings were installed within the AST area (B1, B2, B4, B7, B9, B10, B12, B14 and B16) (Figure 4). Results of the preliminary investigation indicated that:

- 1. Shallow soils beneath the site consist of sand, clayey sand, silt, and clay.
- 2. Groundwater was not encountered to a depth of 9 feet.
- 3. PCBs, characterized as Aroclor 1260, were present at concentrations ranging from non-detection (<1 mg/kg) to 385 mg/kg.
- 4. Total extractable petroleum hydrocarbons (TEPH) was present at concentrations ranging from 640 mg/kg to 16,000 mg/kg.

March 1994 Groundwater Investigation

The second investigation assessed the impact to groundwater by mineral oil (PG&E 1994b). The groundwater investigation consisted of the installation of four monitoring wells to the first water bearing zone (ESE 1-4) (Figure 4). This groundwater investigation determined:

- 1. The site is underlain by silt and clay with small lenses of gravel to depths of 18 to 20 feet. Beneath the silt and clay is gravel ranging in thickness from 10 to 15 feet to depths of 35 feet below ground level (ft bgs).
- 2. Groundwater beneath the site exists under confining conditions at depths from 10 to 11.8 ft bgs.

Emeryville Materials Facility - Former Aboveground Storage Tanks Summary of Results - 1993-1996

Soil Analytical Data

31-(•						5011	Analytica	u Data				٠			
31-00_240.doc	-	· · · · · · · · · · · · · · · · · · ·	Approxim	nate Sample			Ethyl-	Total	· · · · · · · · · · · · · · · · · · ·		Pol	ychlorinat	ed Biphen	yls - Aroc	lor ^a	
10.d	Boring	Sampling	Depth	Elevation	Benzene	Toluene	Benzene	Xylenes	TPH-MinO	1016	1221	1232	1242	1248	1254	1260
8	Designation	Date	(ft bgs)	(feet)	(ug/kg)	(ng/kg)	(ug/kg)	(ug/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
													•			
	В1	10/06/93	0-1.5	23.7-22.2						<1	<1	<1	<1	<1	<1	38
	B1	10/06/93	1.5-3.0	22.2-20.7						. <1	<1	<1	<1	<1	<1	<1
	В1	10/06/93	3.0-4.5	20.7-19.2						<1	<1	<1	<1	<1	<1	385
l	B1	10/06/93	4.5-6.0	19.2-17.7						<1	<1	<1	<1	<1	<1	350
I	B 1	10/06/93	6.0-7.5	17.7-16.2						<1	<1	<}	<1	<1	<1	295
i	B 1	10/06/93	7,5-9,0	16.2-14.7						<1	<1	<1	<1	<1	<1	2
	B2	10/06/93	1.0-2.0	22.7-21.7						<1	<1	<1	<1	<1	<1	4
	B2	10/06/93	2.0-3.0	21.7-20.0						<1	<1	<1	<1	<1	<1	<1
	B2	10/06/93	4.0-6.0	19.7-17.7						<1	<1	<1	<1	<1	<1	<1
	B2	10/06/93	6.0-6.5	17,7-17,2						<1	<1	<l< td=""><td><1</td><td><1</td><td><1</td><td>19</td></l<>	<1	<1	<1	19
ب										-3		. •				
3-2	B4	10/06/93	0-1.5	23.7-22.2						<1	<1	<1	<1	<1	<1	<1
	. B4	10/06/93	1.5-3.0	22.2-20.7						<1	<1	<1	<1	<1	<1	<1
	B4	10/06/93	3.0-4.5	20,7-19.2						<1	<1	<1	<1	<1	<1	<1
H	B4	10/06/93	4.5-6.0	19.2-17.7						<1	<1	<1	<1	<1	<1	<1
ļ	B4	10/06/93	6.0-7.5	17.7-16.2						<1	<1	<1 .	<1	<1	<1	11
	B4	10/06/93	7.5-9.0	16,2-14.7						<1	<1	<1	<1	<1	<1	8
i	В7	10/06/93	1.5-3.0	22.2-20.7					1950	<1	<1	<1	<1	<1	<1	<1
	В7	10/06/93	4.5-6.0	19.2-17.7					640	<1	<1	<1	<1	<1	<1	<1
	В7	10/06/93	7.5-9.0	16.2-14.7					7700	<1	<1	<1	<1	<	<1	<1
	В9	10/06/93	0-1.5	23.7-22.2						<1	<1	<1	<1	<1	<1	2
	B9	10/06/93	1,5-3.0	22.2-20.7				7.00		<1	<1	<1	<1	<1	<1	1
	B9	10/06/93	3,0-4.5	20.7-19.2						<1	<1	<1	<1	< <u>1</u>	<1	2
	B9	10/06/93	4.5-6.0	19.2-17.7						<1	<1	<1	<1	<1	<1	4
	B9	10/06/93	6.0-7.5	17.7-16.2						<1	<1	<1	<1	<1	<1	93
	B9	10/06/93	7.5-9.0	16.2-14.7	# in al		***			< <u>1</u>	<1	<1	<1	<1	<1	13
	B10	10/06/93	1.5-3.0	22.2-20.7					5200	<1	<1	<1	<1	<1	<1	<1
	B10	10/06/93	4.5-6.0	19.2-17.7					10000	<1	<1	<1	<1	<1	<1	<1
	B10	10/06/93	7.5-9.0	16.2-14.7					1600	<1	<1	<1	<1	<1	<1	<1

Emeryville Materials Facility - Former Aboveground Storage Tanks Summary of Results - 1993-1996

Soil Analytical Data

31-0		•					Soil	Analytica	al Data							
\$1-00_240.doc		,	Approxim	ate Sample			Ethyl-	Total			Pol	ychlorinat	ed Biphen	yls - Aroc	lor ^a	
0.do	Boring	Sampling	Depth	Elevation	Benzene	Toluene	Benzene	Xylenes	TPH-MinO	1016	1221	1232	1242	1248	1254	1260
c	Designation	Date	(ft bgs)	(feet)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	B12	10/06/93	1.5-3.0	22,2-20.7					11000	<1	. <1	<1	<1	<1	<1	<1
	B12	10/06/93	4.5-6.0	19.2-17.7					8400	<1	<1	<1	· <1	<1	<1	<1
	B12	10/06/93	7.5-9.0	16.2-14.7					16000	<1	<1	<1	<1	<1	<1	<1
	B14	10/06/93	2.5-3.0	21.2-20.7						<1	<1	<1	<1	<1	<1	<1
	B14	10/06/93	3.0-4.5	20.7-19.2						<1	<1	<1	<1	<1	<1	5
	B14	10/06/93	4,5-6.0	19,2-17.7						<1	<1	<1	<1	<1	<1	15
	B14	10/06/93	6.0-7.5	17.7-16.2						<1	<1	<1	<1	<1	<1	12
	B14	10/06/93	7,5-9.0	16.2-14.7						<1	<1	<1	<1	<1	.<1	16
	B16	10/06/93	0-1.5	23.7-22.2						<l< td=""><td><1</td><td><1</td><td><1</td><td><1</td><td><1</td><td>185</td></l<>	<1	<1	<1	<1	<1	185
	B16	10/06/93	1.5-3.0	22.2-20.7						<1	<1	<1	<1	<1	<1	10
3-3	B16	10/06/93	3.0-4.5	20,7-19.2				·		<1	<1	<1	<1	<1	<1	32
<u> </u>	B16	10/06/93	4.5-6.0	19.2-17.7						<1	<1 :	<1	<1	<1	<1	0,5
	B16	10/06/93	6.0-7.5	17.7-16.2						<1	<1	<1	<1	<1	<1	18
	B16	10/06/93	7.5-9.0	16.2-14.7						/ < 1	<1	<1	<1	<1	<1	9
	ESE-1	03/22/94	5	18.66	6	29	<3	21	270	<1	<1	<1	<1	<1	<1	<1
	ESE-1	03/22/94	10	13.66	10 ,	29	3	25	1800	<1	<1	<1	<1	<1	<1	<1
	ESE-1	03/22/94	16	8.66	<3	<3	<3	<3	<5	<1	<1	<1	<1	<1	<1	<1
	ESE-1	03/22/94	19	3.66	<3	<3	<3	<3	<5	<1	<1	<1	<1	<1	<1	<1
	ESE-2	03/22/94	5	22.8	<3	<3	<3	<3	8	<1	<1	<1	<1	<1	<1	<1
	ESE-2	03/22/94	9	18.8	9	28	3	21	2100	<1	<1	<1	<1	<1	<1	<1
	ESE-2	03/22/94	10	17.8	<3	<3	<3	<3	<5	<1	<1	<1 .	<1	<1	<1	<1
	ESE-2	03/22/94	15	12.8	<3	<3	<3	<3	1900	<1	<1	<1	` <1	<1	<1	<1
	ESE-3	03/22/94	5	18.91	<3	<3	<3	<3	<5	<1	<1	<1	<1	<1	<1	<1
	ESE-3	03/22/94	10	13,91	<3	· < 3	<3	<3	<5 .	<1	<1	<1	<1	<1	<1	<1
	ESE-3	03/22/94	13	10.91	<3	<3	<3	<3	<5	<1	<1	<1	<]	<1	<1	<1
	ESE-3	03/22/94	19	4,91	<3	<3	. <3	<3	<5	<1	<1	<1	<1	<1	<1	<1
	ESE-4	03/22/94	. 5	19.33	<3	<3	<3	<3	<5	<1	<1	<1	<1	<1	<1	<1
	ESE-4	03/22/94	10	14.33	<3	<3	<3	<3	<5	<1	<}	<1	<1	<1	<1	<1
	ESE-4	03/22/94	15	9.33	<3	<3	· <3	<3	<5	<1	<1	<1	· <1	<1	<1	<1

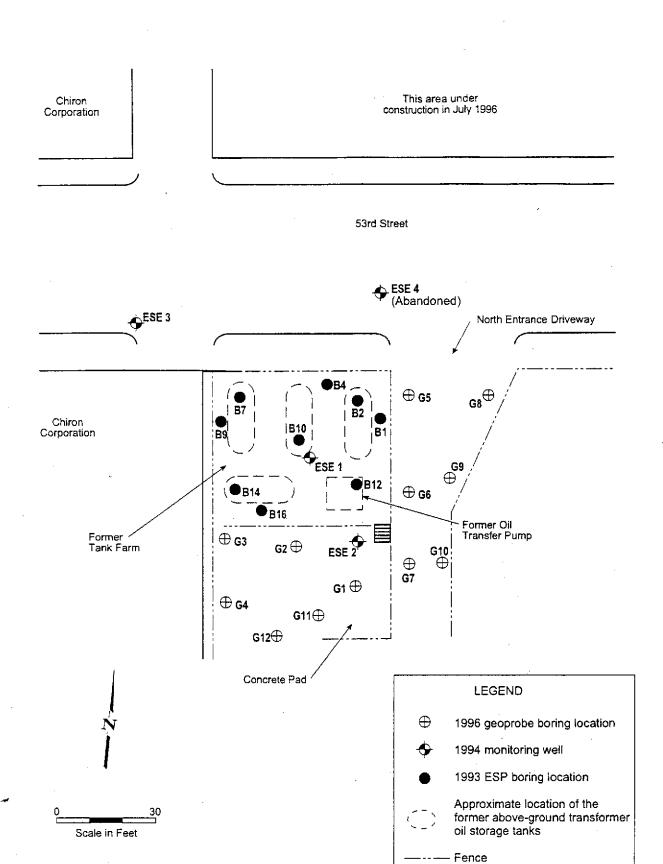


Figure 4. Site map showing test boring and monitoring well locations, Emeryville Materials Facility.

- 3. Groundwater beneath the site generally flows north with a gradient of 0.04 ft/ft. In the vicinity of the tank farm, groundwater flows west with a gradient of 0.02 ft/ft.
- 4. PCBs were not reported in soil or groundwater samples.
- 5. TEPH as mineral oil was present in soil from borings ESE-1 and ESE-2 at concentrations up to 2,100 mg/kg and in groundwater in wells ESE-1 and ESE-2 up to a concentration of 340 µg/l.
- 6. Volatile organic compounds as benzene, toluene, ethylbenzene and xylenes (BTEX) were present in soil borings ESE-1 and ESE-2. The highest concentrations were present in soils obtained from ESE-1 from a depth of 10 feet, which contained benzene (10 μg/kg), toluene (29 μg/kg), ethylbenzene (3 μg/kg), and xylenes (25 μg/kg). Groundwater from well ESE-2 contained benzene (0.8 μg/l), toluene (1.5 μg/l) and xylenes (2.7 μg/l).

October 1996 Soil Investigation

An additional investigation to determine the horizontal extent of soils impacted by past transformer operations was performed in October 1996. Twelve borings (G1-G12) were advanced around the former AST area, as shown in Figure 4. Six of the borings were advanced on a concrete pad south of the former AST, and six were advanced in the facility's north entrance driveway east of the former AST. The results of this investigation were:

- 1. The area of investigation is underlain by a variable thickness of heterogenous, clayey to gravely fill ranging from four to nine feet deep, and mixtures of alluvial silt, sand, and gravel soils.
- 2. Concentrations of mineral oil was found present in subsurface soils up to 2000 mg/kg. The presence of detectable mineral oil generally coincided with soils which exhibited oily product odor, discolored soils, or both.
- 3. BTEX was not detected in any of the tested samples, and TEPH-Mineral Oil was present at seven locations at concentrations of up to 13,000 mg/kg. PCB Aroclor 1260 was detected at two locations in concentrations of 0.13 to 0.26 mg/kg, and no PCBs were detected in any other samples.
- 4. The highest concentrations of TEPH were in the southeastern quadrant of the former AST, near the former oil transfer pump.

Groundwater Monitoring Program

Quarterly sampling commenced at the former AST site on March 18, 1994. Table 4 is a summary of quarterly groundwater data collected through August 16, 2000. Since November 1997, no petroleum compounds or PCBs have been present above the detection limit in any of the wells. TEPH as mineral oil was present in well ESE-1 from March 1994 through November 1997, with the highest concentration occurring in February 1997 at 1,600 µg/l. TEPH as mineral oil was present intermittently in well ESE-2

Table 4 Emeryville Service Center Third Quarter 2000 and Historical Analytical Data

1 of 4

Sample	Sampling	PCBs 10	TEPH ² as Motor Oil	MTBE 11	Benzene	Toluene	Ethylbenzene	Xylenes
Designation	Date	(μg/L) ¹	(µg/L)	(μg/L)	$(\mu g/L)$	(µg/L)	(μg/L)	(µg/L)
ESE-1	03/28/94	<1	340		<0.3	<0.3	<0.3	< 0.3
ESE-1	12/12/94	<0.5	80		<0.5	< 0.5	<0.5	<0.5
ESE-1	03/13/95	1.3	500 ³		<0.5	< 0.5	<0.5	< 0.5
)	06/15/95	<0.5	350 ³		<0.5	<0.5	<0.5	<0.5
ESE-1			470 ³				<0.5	<0.5
ESE-1	09/15/95	<0.5			<0.5	<0.5		
ESE-1	12/15/95	<0.5	440 ³		<0.5	<0.5	<0.5	<0.5
ESE-1	03/15/96	<0.5	277	= *	<0.5	< 0.5	<0.5	<0.5
ESE-1	06/14/96	<0.5	<500		<0.5	<0.5	<0.5	<0.5
ESE-1	10/07/96	< 0.5	110 4		< 0.5	< 0.5	<0.5	<0.5
ESE-1	12/04/96	< 0.5	430 4		< 0.5	< 0.5	< 0.5	<0.5
ESE-1	02/14/97	< 0.5	1,600		<0.5	< 0.5	< 0.5	< 0.5
ESE-1	05/16/97	< 0.5	510 ⁸		<0.5	<0.5	< 0.5	<0.5
ESE-1	08/22/97	< 0.5	740 B		< 0.5	< 0.5	< 0.5	< 0.5
ESE-1	11/14/97	< 0.5	410 ⁸		< 0.5	< 0.5	< 0.5	< 0.5
ESE-1	02/13/98	< 0.5	<100 ⁸		< 0.5	< 0.5	< 0.5	< 0.5
ESE-1	05/15/98	< 0.5	<500		< 0.5	< 0.5	< 0.5	<0.5
ESE-1	08/21/98	<0.5	<500		< 0.5	< 0.5	< 0.5	<0.5
ESE-1	12/01/98	<0.50 / <0.54 ^A	180 / <100 ^A		< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	02/11/99	< 0.50	<100 B		< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	05/12/99	<1	<500 B	<5	< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	11/24/99	<0.5	<100	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	02/15/00	< 0.50	<100 B	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	05/26/00	< 0.50	<100 B	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
ESE-1	08/16/00	<0.50	<100 B	<5.0	< 0.50	< 0.50	<0.50	<0.50
ESE-2	03/28/94	. <1	250		0.8	1.5	<0.3	2:7
ESE-2	12/12/94	<0.5	<50		<0.5	<0.5	<0.5	< 0.5
ESE-2	03/13/95	< 0.5	120 5	· · ·	< 0.5	< 0.5	< 0.5	< 0.5
ESE-2	06/15/95	<0.5	<50		< 0.5	< 0.5	< 0.5	<0.5
ESE-2	09/15/95	< 0.5	<50		< 0.5	< 0.5	<0.5	< 0.5
ESE-2	12/15/95	<0.5	<50		<0.5	< 0.5	<0.5	<0.5
ESE-2	03/15/96	< 0.5	<59		< 0.5	< 0.5	< 0.5	< 0.5
ESE-2	06/14/96	<0.5	<500		<0.5	<0.5	<0.5	<0.5

Table 4
Emeryville Service Center
Third Quarter 2000 and Historical Analytical Data

Sample	Sampling	PCBs 10	TEPH ² as Motor Oil	MTBE ¹¹	Benzene	Toluene	Ethylbenzene	Xylenes
Designation	Date	$(\mu g/L)^{-1}$	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)
ESE-3	12/01/98	<0.50 / <0.53 ^A	<100 / <100 ^A		< 0.50	< 0.50	<0.50	< 0.50
ESE-3	02/11/99	< 0.50	<100 B		< 0.50	< 0.50	< 0.50	< 0.50
ESE-3	05/12/99	<	<500 ^B	<5	< 0.50	< 0.50	< 0.50	< 0.50
ESE-3	11/29/99	< 0.50	<100	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50
ESE-3	02/15/00	< 0.50	<100 B	< 5.0	< 0.50	< 0.50	<0.50	< 0.50
ESE-3	05/26/00	< 0.50	<100 B	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50
ESE-3	08/16/00	< 0.50	<100 B	<5.0	< 0.50	< 0.50	< 0.50	< 0.50
13023	00.10.00	0.00			:			
ESE-4	03/28/94	<1	<50		< 0.3	< 0.3	< 0.3	< 0.3
ESE-4	12/12/94	< 0.5	< 50		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	03/13/95	< 0.5	56 ⁵		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	06/15/95	< 0.5	<50		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	09/15/95	< 0.5	<50		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	12/15/95	< 0.5	57 ⁵		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	03/15/96	< 0.5	<59		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	06/14/96	< 0.5	<500		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	10/07/96	<0.5	<100		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	12/04/96 ⁶	NA	NA		NA	NA	NA	NA
ESE-4	02/14/97	<0.5	270 ⁴		< 0.5	< 0.5	< 0.5	< 0.5
ESE-4	05/16/97	< 0.5	<110 8		<0.5	< 0.5	< 0.5	< 0.5
ESE-4	08/22/97 ⁶	NA	NA		NA	NA	NA	NA
ESE-4	11/14/97	< 0.5	<100 8		< 0.5	< 0.5	<0,5	<0.5
ESE-4	02/13/98 9	NA	NA		NA	NA	NA	NA
ESE-4	Well Abandoned							
						•		
Trip Blank	03/28/94	<1	<50		< 0.3	< 0.3	< 0.3	< 0.3
Trip Blank	12/12/94	NA	NA .		< 0.5	< 0.5	<0.5	< 0.5
Trip Blank	03/13/95	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Trip Blank	06/15/95	NA	NA		<0.5	<0.5	< 0.5	< 0.5
Trip Blank	09/15/95	, NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Trip Blank	12/15/95	NA	NA		< 0.5	< 0.5	<0.5	< 0.5
Field Blank	03/28/94	NA	NA		NA	NA	NA	NA
Field Blank	12/12/94	NA	NA		<0.5	<0.5	<0.5	< 0.5
Field Blank	03/13/95	NA	NA		<0.5	< 0.5	<0.5	< 0.5
Field Blank	06/15/95	NA	NA		<0.5	<0.5	<0.5	<0.5

3 of 4

Table 4 Emeryville Service Center Third Quarter 2000 and Historical Analytical Data

4 of 4

Sample	Sampling	PCBs 10	TEPH ² as Motor Oil	MTBE 11	Benzene	Toluene	Ethylbenzene	Xylenes
Designation	Date	(μg/L) ¹	(µg/L)	(µg/L)	(µg/L)	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$
Field Blank	09/15/95	NA	NA		<0.5	<0.5	<0.5	<0.5
Field Blank	12/15/95	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	03/15/96	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	06/14/96	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	10/07/96	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	12/04/96	NA	NA		< 0.5	< 0.5	<0.5	< 0.5
Field Blank	02/14/97	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	05/16/97	NA	NA.		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	08/22/97	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	11/14/97	NA	NA		< 0.5	< 0.5	< 0.5	<0.5
Field Blank	02/13/98	NA	NA		< 0.5	< 0.5	< 0.5	<0.5
Field Blank	05/15/98	NA	NA		< 0.5	< 0.5	< 0.5	<0.5
Field Blank	08/21/98	NA	NA		<0.5	< 0.5	< 0.5	< 0.5
Field Blank	12/01/98	NA	NA		< 0.5	< 0.5	< 0.5	< 0.5
Field Blank	02/11/99							
Field Blank	05/12/99	NA	NA	<5	< 0.5	< 0.5	< 0.5	<0.5
Field Blank	11/29/99	NA	NA	<5.0	< 0.5	< 0.5	< 0.5	<0.5
Field Blank	02/15/00	NA	NA	<5.0	< 0.5	< 0.5	< 0.5	<0.5
Field Blank	05/26/00	NA	NA	NA	< 0.5	< 0.5	< 0.5	<0.5
Field Blank	08/16/00	NA	NA	<5.0	< 0.5	<0.5	< 0.5	< 0.5

-- Samples not collected.

 $\mu g/L = micrograms per liter.$

TEPH = Total Extractable Petroleum Hydrocarbons.

Compounds similar to client-supplied transformer oil were found.

Hydrocarbon reported does not match the pattern of laboratory standard for mineral oil.

Compounds in diesel range not similar to laboratory standard for transformer oil.

Wells not sampled due to construction in the area resulting in heavy traffic.

NA = not analyzed.

Quantitation for mineral oil is based on the response factor of diesel.

Unable to locate well. Well area covered with mud and crushed rock from road construction.

PCBs = Polychlorinated Biphenols.

MTBE = Methyl Tertiary Butyl Ether.

Analyses run on both unfiltered and filtered (silica gel) samples. Results reported as unfiltered / filtered.

Analyses run on filtered (silica gel clean-up and glass filtration) samples.

from March 1994 through May 1997, with the highest concentration occurring in February 1997 at 510 μ g/l. TEPH as mineral oil was present intermittently in well ESE-4 from March 1995 through February 1997, with the highest concentration occurring in February 1997 at 270 μ g/l. On March 28, 1994, benzene (0.8 μ g/l), toluene (1.5 μ g/l), and xylene (2.7 μ g/l) were detected in the groundwater from well ESE-2. On March 13, 1995, the PCB concentration in the groundwater sample from well ESE-1 was 1.3 μ g/l.

As shown in Figure 5, the groundwater gradient on February 11, 1999, was 0.12 ft/ft to the north-northeast between monitoring wells ESE-2 and ESE-1.

Lateral and Vertical Distribution of TEPH and PCBs in Soils

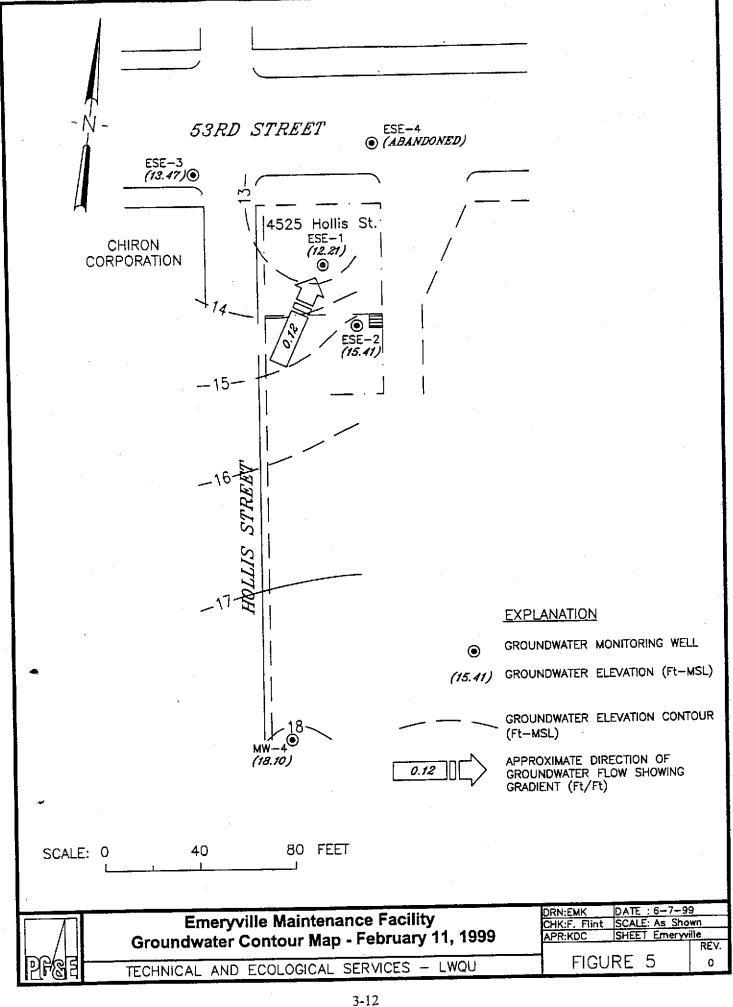
Soils data collected in 1993, 1994, and 1996 were used to construct the lateral and vertical distribution of TEPH as mineral oil and PCBs around the former AST farm.

Figure 6 shows the maximum concentration of TEPH as mineral oil measured at the EMF. The highest concentrations were in the vicinity of the oil transfer pump, boring B12 (16,000 mg), with decreasing concentrations toward the north, east, and south.

The lateral and vertical distribution of PCBs in soils at the site is depicted in Figure 7. Elevated PCB concentrations are in isolated areas surrounding borings B1, B9 and B16. The maximum PCB concentrations at these locations were 385, 93 and 185 mg/kg, respectively. Outside of the AST area, only two borings, G6 and G9, indicate the presence of PCBs at 0.26 and 0.13 mg/kg, respectively.

Risk Based Corrective Action (RBCA) Analysis

A RBCA was conducted on the available data in 1997. The RBCA evaluation of the soil and groundwater contaminants consisted of two stages: Tier 1 and Tier 2. The Tier 1 risk based screening levels (RBSLs) used were the USEPA Region IX table of Preliminary Remediation Goals (PRGs) (USEPA, 1996a), except as noted. Where applicable, Cal-EPA modified PRGs were used. PRGs are available for exposure by resident or commercial receptors to chemicals in soil, and for domestic use of groundwater. For soil PRGs, potential pathways include incidental ingestion, dermal contact, and inhalation of dusts (for nonvolatile chemicals) or vapors (for volatile chemicals).



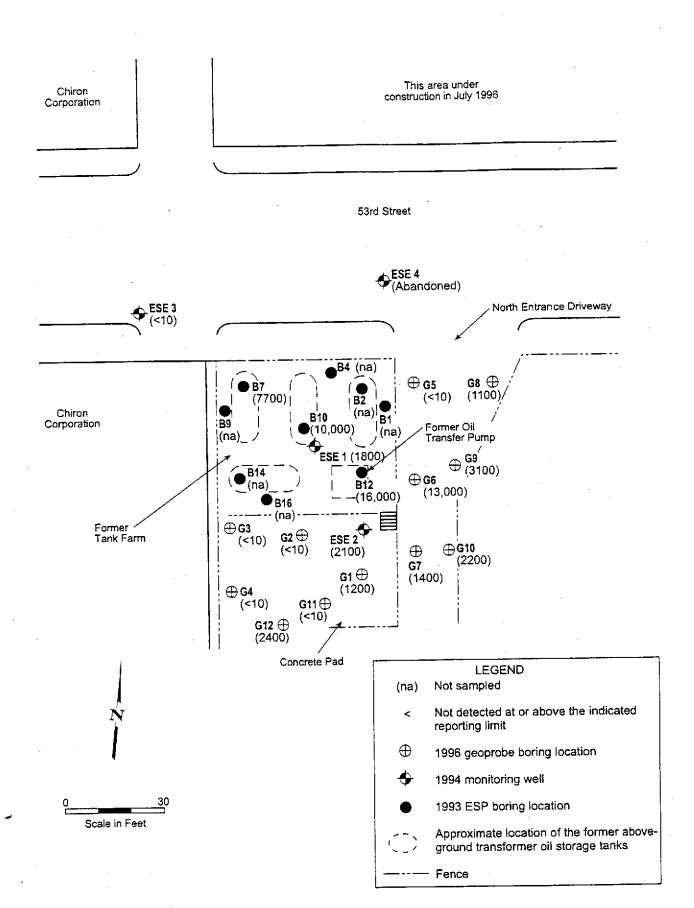


Figure 6. Site map showing test boring and monitoring well locations with the maximum concentration of TEPH as mineral oil (mg/kg), Emeryville Materials Facility.

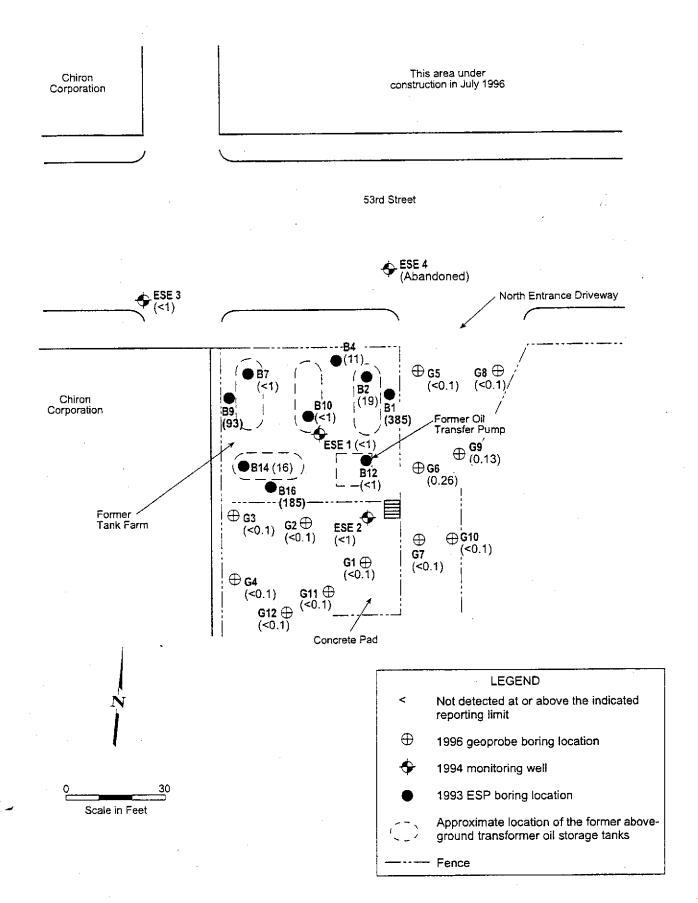


Figure 7. Site map showing test boring and monitoring well locations with the maximum concentration of PCBs (mg/kg), Emeryville Materials Facility.

As Table 5 shows, the maximum historic detected concentrations for all chemicals except PCBs were significantly less than commercial-based PRGs. PRGs are not available for TEPH. The Electric Power Research Institute (EPRI) recently completed a comprehensive field and lab study of mineral oils, which involved chemical testing, fate and transport evaluations, and a preliminary screening-level risk evaluation. EPRI concluded that the hazardous constituents of mineral oil are present at extremely low concentrations (EPRI, 1996). Therefore, the TEPH detected in the soil at the site likely poses no significant health hazards for potentially-exposed receptors.

	Table 5	
ſ	Tier 1 Lookup Table for Soil ¹	
Risk	Based Corrective Action Repo	ort
Former A	Aboveground Storage Tank Far	m Area
	Emeryville Materials Facility	
	Maximum detected soil	Tier 1 Lookup value/EPA
Chemical Compound	concentration (mg/kg) ²	Region IX PRG ³ (mg/kg)
Benzene ⁴	0.01	4.1
Ethylbenzene	0.003	230
PCB ⁵	385	3.4
ТЕРН	16000	NA
Toluene	0.029	880
Xylenes	0.025	320
NA = Not Available	V.V	
mg/kg = milligrams per kilogram	•	
Concentration in bold is greater	than Tier I Lookup Values	
Based on ASTM 1995.	•	
	collected between October 6, 1993 a	
	gh ESE-4, and borings G1 through G	12.
³ Industrial Preliminary Remediat		
	lope factor of 0.1 (mg/kg-day) ⁻¹ (Cali	fornia, 1994) and California
commercial target risk of 1 x 10 ⁻⁵ .		
	Aroclor- 1260 was detected. Adjuste	d for California commercial risk
of 1 x 10 ⁻⁵ .		

The maximum historic PCB concentration measured in the soil exceeded the recommended PRG. Therefore, a more site-specific assessment was necessary to evaluate possible exposures to PCBs in soil using a Tier 2 RBCA evaluation.

In general, PCBs sorb strongly to soils, have low vapor pressures and thus have low soil volatilization. Also, dust generation at the site was not expected to lead to significant exposures because of moist soil conditions. Therefore, only direct contact with site soils (i.e., ingestion and dermal contact) was quantitatively evaluated in Tier 2.

Because the EMF is in an area zoned for commercial use, three types of workers were considered as receptors in the Tier 2 analysis: construction workers, utility line workers, and industrial workers. For this analysis, it was assumed that future construction and utility workers would come into contact with site soils as deep as 10 feet below grade. For future on-site industrial workers, the assumption was that portions of the site will be unpaved and they might be in direct contact with soils down to 2 feet below grade.

Under Tier 2, the site specific threshold level (SSTL) results for the three receptor types are compared with arithmetic mean PCB concentrations calculated using subsets of the data, in addition to the maximum detected concentrations. As Table 6 shows, the site prior to excavation was acceptable for construction and utility worker receptors. The mean PCB concentration in soils from 0 to 10 ft bgs was only 30 mg/kg, and the SSTLs computed for these two receptors were 88 and 106 mg/kg, respectively, based on the 1997 RBCA.

Without a cap at the site, the mean PCB concentration from 0 to 2 ft bgs (28 mg/kg), would not be acceptable for an industrial worker due to long term exposures.

SSTLs were recently reevaluated based on revised cancer scope factors for PCBs. A letter dated September 18, 2000 from SECOR International Inc. documents the revised values for the appropriate receptors (Appendix B) and are also shown in Table 6. While the site as it existed with the vinyl cap was protective of human health, analysis determined that the site would be suitable for the industrial receptor regardless of depth if the soils in the vicinity of borings B1, B9 and B16 were excavated to a depth of approximately nine feet from the bottom of the pit (4ft bgs). Following the excavation, the area around these borings would be filled with clean base rock to existing site elevation. Under these conditions the mean PCB soil concentration would be <5 mg/kg for depths of 0 to 2 ft bgs, the depth of exposure for the industrial worker as well as at greater depths.

Table 6 Tier 2 Results for Soil Risk Based Corrective Action Report Former Aboveground Storage Tank Farm Area Emeryville Materials Facility

<u> </u>			Mean detected PC	B soil concentration
Receptor	Site Specific Threshold Level (mg/kg)	Maximum detected PCB soil concentration (mg/kg)	Full Data Site Undisturbed (ft bgs) ¹	Full Data Site Undisturbed (ft bgs) ²
Construction Worker Revised Construction Worker	88 339	385	30	, NA
Utility Worker Revised Utility Worker	106 408	385	30	NA
Industrial Worker Revised Industrial Worker	1,3 5	385	NA	28

mg/kg = milligrams per kilograms

ft bgs = feet below ground level

NA = not applicable

- 1 All data down to 10 ft bgs is used for the calculation of the mean exposure concentration for the construction and utility worker at the undisturbed site.
- 2 All data down to 2 ft bgs is used for the calculation of the mean exposure concentration for the industrial worker at the undisturbed site.

Section 4

METHODS

Overview

The Company assessed the possible impact to groundwater from materials stored in the two former USTs, abandoned existing monitoring wells present at the EMF site and removed soils in the AST area where PCB concentrations exceeded 25 mg/kg.

Personnel and Procedures

All work was performed under the supervision of a California Registered Geologist. An experienced geologist logged the soil borings collected subsurface samples, and coordinated delivery of the soil and groundwater samples to a State of California certified analytical laboratory.

Push Technology Soil Sampling

A track-mounted Ryno Rig using hollow stem augers was used to collect soil samples at three locations (SB1 through SB3) in the vicinity of the two 5,000-gallon USTs (Figure 8). Soil samples for analysis were collected in a split-spoon sampler lined with brass sleeves.

The core was inspected to assess the occurrence of petroleum residues. The following procedures were used during soil sample collection and handling:

- 1. Before sampling, the sampler and sample liners were thoroughly washed with a trisodium phosphate solution and rinsed with potable water.
- 2. The samples were retained in the sample liners with the ends covered with Teflon® sheets and plastic end caps.
- 3. Each sample was labeled using waterproof ink with the job name, job number, boring number, sample depth, and date collected.
- 4. The soil samples were described on a boring log by the field geologist. This description included soil classification (ASTM D-2487-83), color, moisture content and consistency (in relative terms), and estimated degree of hydrocarbon content (i.e., organic vapor analyzer measurements).

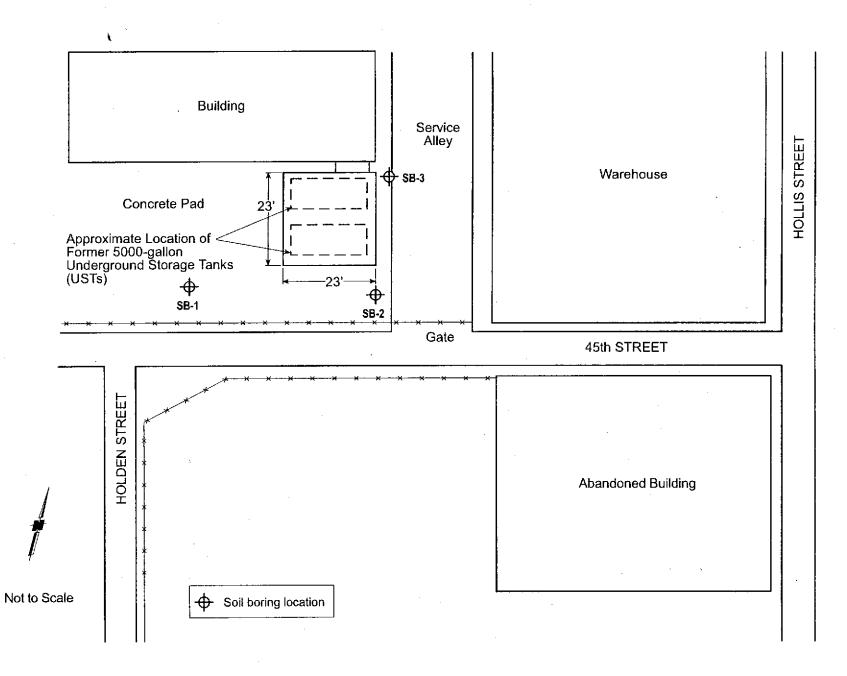


Figure 8. Soil boring locations at former 5000-gallon underground storage tank site, Emeryville Materials Facility.

Immediately after sample collection and labeling, the samples were sealed in a plastic bag and placed in a sturdy ice chest containing either "blue" or dry ice. The temperature in the ice chest was maintained at or below 4 degrees C.

- 5. When the ice chest was full, a completed chain-of-custody form was inserted and the chest was closed and sealed.
- 6. The ice chest(s) was transferred to Chromalab, Pleasanton, where samples were selected for chemical analyses. All remaining samples were placed in a freezer for storage for no fewer than 14 days.

Available soil material was described using the Unified Soil Classification System. The description included visible staining and Munsell Soil Chart color. Upon completion of sampling, the hole was backfilled with bentonite.

Groundwater Sampling

Grab groundwater samples were collected by inserting a clean disposable bailer through the hollow stem augers. Groundwater retrieved from the boring was discharged directly into the sample containers.

Well Destruction

The three existing monitoring wells (ESE 1-3) near the AST site, as well as the well network (MW4-10) installed in 1987, were destroyed per DWR Bulletin 74-90. Each well was destroyed either by pressure grouting or by overdrilling and removing all well material within the original borehole, including well casing, filter pack from the well annulus, and the annular seal. The cleared annulus was filled with appropriate sealing material under pressure using a tremie pipe. Well ESE-1 was abandoned by pressure grouting on August 18, 2000. Wells ESE-2, ESE-3 and MW8 were abandoned by over drilling the entire length of the casing on November 13-15, 2000. Wells MW4, MW5, MW7, MW9 and MW10 were pressure grouted on November 14 and 15 2000. Well destruction reports are included in Appendix C.

Aboveground Storage Tank Excavation

Selected soils within the AST area were excavated and disposed of at an appropriate facility authorized to accept PCB-laden waste. The existing plastic liner was removed and selected soils were excavated within the former AST area were removed (Figure 9). Confirmation soil samples were collected to determine that remedial objectives were achieved. Once remedial objectives were met, the area was filled with clean base rock to existing site elevation. Clean fill was placed in 18" lifts and compacted to 95%. The site was then capped with 6" concrete.

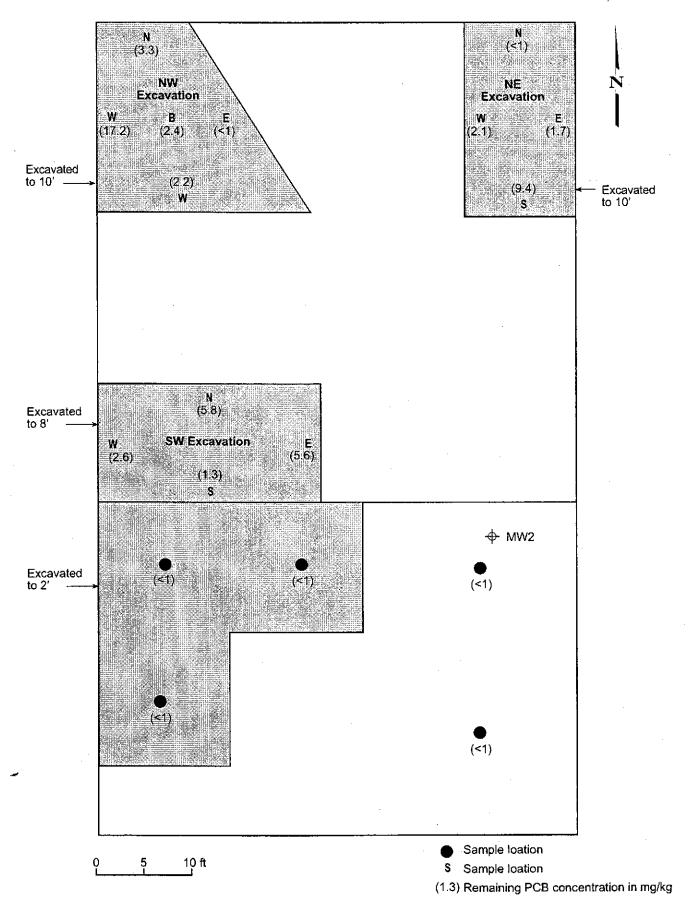


Figure 9. Emeryville Materials Facility, areas of excavation and confirmation sampling.

Field and Laboratory Analysis Procedures

Selected samples collected from the UST area were analyzed for TEPH as mineral oil by EPA Method 3510/8015 and polychlorinated biphenyls (PCBs) by EPA method 8080. Samples collected from the AST area were analyzed for PCBs by EPA Method 8080. All analysis were conducted by an analytical laboratory certified by the state of California.

Quality Assurance/Quality Control and Chain-of-Custody Procedures

Quality assurance samples were used to evaluate the quality and accuracy of data obtained from the field program. Established QA/QC procedures for the analyses included sample custody procedures, analyses of matrix spikes and method blanks, data reduction, verification of raw analytical data, and maintenance of control charts to monitor analytical performance. These procedures are outlined in the laboratory's Quality Assurance/Quality Control Plan and Standard Operating Procedures which are available upon request. Organic chemical analyses were performed in conformance with the standard procedures established by the United States Environmental Protection Agency (EPA) in "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" (40 CFR Part 136, October 1984).

Chain-of-custody procedures were used to identify and ensure the traceability and integrity of the samples collected. These procedures were also used to document the handling and shipping procedures of the samples. The procedures traced the samples from collection, through all custody transfers, and finally to the storage facility or the analytical laboratory, where the laboratory's internal procedures will govern until final disposition of the samples. This information was recorded on the chain-of-custody form, which remained with the samples at all times. The chain-of-custody forms were used for a packaged lot of samples.

Section 5

RESULTS

Underground Storage Tanks

Three soil borings were advanced in the vicinity of the former USTs. Soils encountered beneath the vicinity included clay and silty clay to depths of 11ft below ground surface (bgs) followed by silty sand to a depth of 18ft bgs. All borings terminated at a depth of 18ft bgs. Groundwater was encountered at each location at approximately 15ft bgs. Soil boring logs are included in Appendix D.

Soil and groundwater samples collected the three borings near the former USTs were analyzed for PCBs and TEPH as hydraulic oil. Table 7 provides a summary of the analytical results and the Analytical Data Sheets are included in Appendix E.

Borings SB1 and SB2 were devoid of all PCBs and TEPH as hydraulic oil above the method detection limits. Soil samples from boring SB3 contained PCBs as Aroclor 1260 in the sample from 6' bgs (0.86 mg/kg) and 11' bgs (0.058 mg/kg). These samples also contained TEPH as hydraulic oil (6.0', 59 mg/kg; 11.0', 46 mg/kg).

None of the groundwater samples contained either of the tested compounds above the method detection limits.

Above Ground Storage Tanks

Excavation of the AST area progressed in those areas previously identified as containing elevated PCB concentrations until residual concentrations were below the target cleanup level of 25 mg/kg. Excavation occurred in 3 discrete areas of the former AST area (NW excavation, NE excavation and SW excavation) as well as a portion of the area immediately to the south of the AST area. All areas of excavation are represented in Figure 9.

The NE and NW excavations were advanced to an approximate depth of 10ft (14ft bgs). The SW excavation was advanced to an approximate depth of 8ft (12ft bgs). The area south of the former AST tank farm was excavated to an approximate depth of 2ft bgs.

The NW corner of the AST area was excavated to an approximate depth of 10ft below the surface of the tank farm (14ft bgs). The maximum concentration of PCB remaining in this area is 17.2 mg/kg, collected from the western wall, with an average remaining concentration of 3.5 mg/kg.

Table 7

Emeryville Materials Facility
Soil and Groundwater Analytical Data

Sample	PCB* mg/kg	TEPH mg/kg		
SB1@6.0'	< 0.05	<2.0		
SB1@10.0'	< 0.05	<2.0		
SB1@16.0'	<0.05	<2.0		
SB2@6.0'	<0.05	<2.0		
SB2@10.5'	< 0.05	<2.0		
SB2@16.0'	< 0.05	<2.0		
SB3@6.0'	0.86*	59		
SB3@11.0'	0.058*	46		
SB3@16.0'	< 0.05	<2.0		

Groundwater	ug/l	ug/l
SB1	< 0.69	<140
SB2	< 0.67	<130
SB3	< 0.66	<120

< Quantity is less than the value indicated

PCB Polychlorinated Biphenyls

TEPH Total Extractable Petroleum Hydrocarbons as Hydraulic Oil

^{*} All PCBs characterized as Aroclor 1260

The NE corner was excavated to an approximate depth of 10ft (14ft bgs). The maximum concentration of PCBs remaining in the area is 9.4 mg/kg collected from the south wall at a depth of 5ft. A second sample was collected from the location at a depth of 10ft and contained a PCB concentration of 3.3 mg/kg. The average remaining concentration for this area is 4 mg/kg.

The SW corner was excavated to an average depth of 7ft below grade and sampled. The east and south wall samples contained elevated concentration of PCBs so excavation in these areas continued to a depth of approximately 8ft (12ft bgs). The maximum concentration of PCB remaining in the SW area was from the north wall at a concentration of 5.8 mg/kg. The average remaining concentration in the SW area is 3.8 mg/kg.

Concrete from the area south of the AST farm was exposed and was tested for PCBs. One sample at a depth of 6" bgs contained PCBs at a concentration of 12 mg/kg. The area was excavated to a depth of 2ft bgs as shown in Figure 9 and sampled again. All re-samples were devoid of PCBs above the method detection limit of 1 mg/kg.

Table 8 tabulates the remaining concentration of PCBs as well as those from un-excavated areas of the AST farm. The maximum remaining concentration is found in the NW area at a concentration of 17.2 mg/kg at a depth of 14ft bgs. The arithmetic mean concentration of PCBs in the AST area is 3 mg/kg and the 95% upper confidence limit for the site is 4 mg/kg.

Soils removed from the excavation were stockpiled on site, profiled and shipped under hazardous waste manifest to Chemical Waste Management (Kettleman City, California). Approximately 399,000 kgs were manifested as Non-RCRA Hazardous Waste, Solid: Debris contaminated with 50-499 mg/kg PCB, and approximately 80,330 kgs were profiled as Non-RCRA Hazardous Waste, Solid: Debris contaminated with <50 mg/kg PCB. Hazardous waste manifests are included in Appendix G.

Table 8 Statisical Analysis

PCBs in Soil Following Focused Excavation

PG&E Materials Facility Emeryville, California

Sample ID	Sample Date	Remaining PCB Concentration ^a (mg/kg)
NW-N-1	09/20/00	2.7
NW-N-2	09/20/00	<1
NW-E-1	09/20/00	2.5
NW-S-1	09/20/00	<1
NW-B-1	09/20/00	2.4
NE-N-L1	09/20/00	<1
NE-E-L1	09/20/00	1.7
NE-W-L1	09/20/00	2.1
NE-S-L1	09/20/00	3.2
NW-N-L1	09/20/00	3.3
NW-E-L1	09/20/00	<1
NW-W-L1	09/20/00	17.2
NW-S-L1	09/20/00	2.2
NE-S-2	09/20/00	9.4
SW-N-L1	09/21/00	5.8
SW-W-L1	09/21/00	2.6
SW-E-L2	09/21/00	5.6
SW-S-L2	09/21/00	1.3
10' from wall	10/09/00	3.6
15' from wall	10/09/00	. 3.8
20' from wall	10/09/00	12
2' deep 20' from wall	10/10/00	<1
2'deep near wall 4' back	10/10/00	<1
2' deep near wall 20' back	10/10/00	<1
2' deep 20' from wall	10/10/00	<1
6" deep near well	10/10/00	<1
6" deep 20' from well	10/10/00	<1
Statistical Analysis ^b		
Arithmatic Mean		3
Sample Size		27
Standard Deviation		4
95th Confidence Interval		1
95 Upper Confidence Limit (95)	JCL)	4

Abbreviations:

PCB - Polychlorinated biphenyl

Footnotes:

^a Data from PG&E Report #: 441.81-00.19, 10/18/00

^b One-half the detection limit is used to represent non-detect samples.

Section 6

CONCLUSIONS

The objectives outlined in the remedial action plan were successfully implemented for the site.

Nine monitoring wells (ESE-1, ESE-2, ESE-3, MW-4, MW-5, MW-7, MW-8, MW-9 and MW-10) were abandoned per the State of California well standards.

The investigation of the UST area demonstrated that the previous tank and source removal was effective and that groundwater in the area is not affected.

The remedial action at the AST area was successful and the three receptors identified in the RBCA are fully protected. Soils were excavated to a maximum depth of 14ft bgs and clean fill was added to the excavation to grade. The highest remaining concentration is 17.2 mg/kg of PCB at approximately 14ft bgs. The mean remaining concentration is 3 mg/kg and the 95 UCL is 4 mg/kg.

Section 7

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Appendix B ADDENDUM TO RISK ASSESSMENT



September 18, 2000

Ms. Susan Hugo Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502-6577

RE: Remediation Goal for PCBs at the Pacific Gas and Electric Company Emeryville Materials Facility, 4525 Hollis Street, Emeryville, California (the Site)

Dear Ms. Hugo,

SECOR International Incorporated (SECOR) has prepared this letter on behalf of Pacific Gas and Electric Company's (the Company) Technical and Ecological Services (TES), to support the risk-based soil remediation goal of 25 milligrams per kilogram (mg/kg) for polychlorinated biphenyls (PCBs) at the above-referenced site.

The remediation goal is based on a Tier 2 Risk-Based Corrective Action (RBCA) report prepared by EMCON dated March 7, 1997. In that report, the following site-specific target levels (SSTLs) for PCBs were developed:

Industrial worker:

1.3 mg/kg;

Construction worker:

88 mg/kg; and

Utility worker:

106 mg/kg.

The arithmetic mean PCB concentration across the site in the absence of any excavation or remediation is about 30 mg/kg. Limited excavation of soil containing the highest PCB concentrations, located at soil borings B1, B9, and B16, would result in an arithmetic mean and a 95 percent upper confidence limit of the arithmetic mean (95UCL) PCB concentration in the upper two foot soil interval across the site of 1 and 2 mg/kg (as reported in Table 4-1 of EMCON, 1996). Therefore, the limited excavation option is preferred by the Company. Under this option, soil containing PCB concentrations above the proposed remediation goal of 25 mg/kg in shallow soils (i.e., 0 to 2 feet below ground surface [bgs]) will be removed from the site.

A telephone discussion regarding this 25 mg/kg level was held with you, Mr. Fred Flint of TES, and Dr. Mark Stelljes of SECOR on August 9, 2000. During this call, you requested that a letter be prepared justifying the selection of 25 mg/kg as a health-protective remediation target level. Additionally, you requested that additional information be provided beyond that contained in the original Tier 2 RBCA report. The following information was requested in order to gain approval of the 25 mg/kg remediation goal:

- Statistical evaluation of datasets used in the Tier 2 RBCA to identify 95 percent upper confidence limits of the arithmetic mean (95UCLs);
- Statistical evaluation of datasets (arithmetic mean and 95UCLs) if soil from B1, B9, and B16

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SECOR International Inc.

were removed from the Site;

- Further justification of site-specific exposure assumptions used in the Tier 2 RBCA report; and
- Clear discussion of why the 25 mg/kg target level is safe and protective of human health.

Each of these points is discussed below.

Statistical Evaluation

Complete Soil Dataset. As reported in the Tier 2 RBCA, the arithmetic mean PCB concentration across the site is 30 mg/kg. This includes all samples between 0 and 10 feet bgs, as summarized in Table 1. As shown on the table, the 95UCL for this dataset is 50 mg/kg.

Soil Dataset with Limited Excavation. Also as reported in the Tier 2 RBCA, an arithmetic mean PCB soil concentration was calculated using the assumption that soil from the three boring locations with the highest PCB concentrations (B1 down to 7.5 feet, B9 to 7.5 feet, and B16 down to 4.5 feet) would be excavated and removed from the site. The arithmetic mean concentration of PCBs in the remaining soil is 4 mg/kg, and the 95UCL is 5 mg/kg (Table 1). This includes all remaining data points down to 10 bgs.

Additional Justification for Site-Specific Parameters Used in the RBCA

The following exposure assumptions were listed as "site-specific" in the Tier 2 RBCA:

- Construction worker exposure duration (1 year);
- Construction worker exposure frequency (30 days);
- Utility line worker exposure duration (25 years); and
- Utility line worker exposure frequency (1 day/year).

Default assumptions have not been published by either the California EPA (CalEPA) or USEPA for these receptors. Therefore, these assumptions were compiled from CalEPA and USEPA sources for other receptors using upper percentile values and based on previous professional experience with California risk assessments. Further support for these parameters is discussed below.

Construction Worker Exposure Duration and Frequency. A construction worker represents someone involved with site development activities. Invasive activities that could lead to direct soil contact include constructing a building foundation. This activity is typically assumed to represent a one-time event because the same construction worker is not expected to be contracted to invasively work at the same site twice. Common risk assessment protocol assumes that the shortest exposure duration typically quantified is one year. Therefore, an exposure duration of one year was used for this receptor. This assumes that the invasive activities are completed within 365 days. The exposure frequency represents the number of days the same construction

worker is expected to be involved with invasive activities. Typical foundations are now constructed in a matter of a few days (e.g., two to five). Therefore, the exposure frequency for such a worker should be low. A period of 30 days was used for this receptor, which is expected to represent a reasonable maximum exposure (RME) frequency. This is more than 5 times the typical length of foundation construction. This assumes that the same person is digging in the ground for 30 days, and that all digging occurs at locations containing the exposure point concentration. In reality, many of the places where digging would occur contain no PCBs. Therefore, these assumptions are expected to be generally conservative and health-protective.

Utility Worker Exposure Duration and Frequency. Unlike the construction worker where a single event taking several days is assumed to occur, a utility worker receptor represents someone that may maintain or repair underground utilities on a long-term, but intermittent, basis at the site. Trench workers are typically from utility companies, and it is unlikely the same employee would be asked to repair a trench at the same site over a period of several years. Instead, different people would respond to service call requests at different times. Therefore, it was assumed that the exposure frequency would be no more than 1 day each year. This is still conservative because it assumes that a repair job takes a full day, requires soil excavation, and occurs in a location where PCBs are present at the assumed concentration. This conservatism is compounded through the use of an exposure duration of 25 years, which is the recommended upper-bound exposure duration for time spent by a worker at the same workplace (USEPA and CalEPA). Therefore, these two assumptions result in a total exposure of 25 days over a lifetime. This is very conservative, as it is very unlikely the same contracting employee would spend 25 days at the contaminated portion of this site over their career with the same employer.

Summary of Health Protectiveness of Proposed Remediation Target Level

USEPA changed the cancer potency of PCBs in late 1996. Prior to then, the cancer slope factor (SF) for PCBs was 7.7 (mg/kg-day)⁻¹. This value was used in the Tier 2 RBCA report. Subsequently, the SF was modified to incorporate a range of potencies depending on the exposure pathways. For the direct soil pathways evaluated in the RBCA report, an SF of 2.0 (mg/kg-day)⁻¹ is relevant based on the recent USEPA guidance (USEPA, 1996, 2000). Recently, CalEPA also adopted this lower SF of 2.0 (mg/kg-day)⁻¹ for some pathways (CalEPA, 2000). This SF is 3.85 times lower than the old value of 7.7. Therefore, all SSTLs reported by EMCON (1997) can be multiplied by 3.85 to account for recent toxicology knowledge of PCBs and humans. The lowest SSTL of 1.3 mg/kg, for the industrial worker, becomes 5.0 mg/kg. SSTLs for the other two receptors are both greater than 350 mg/kg. Only one location contained PCBs greater than 350 mg/kg (location B1), and this location will be excavated during site remediation. Therefore, the proposed excavation will result in all site concentrations below levels of concern to human health for these two receptors.

Following limited excavation of soil at B1, B9, and B16, the overall site PCB mean concentration is 4 mg/kg based on existing data. The 95UCL is 5 mg/kg (Table 1). Clean fill will be used to bring these two locations to grade, which will lower the overall site PCB concentration. Also, surface concentrations are generally lower than deeper concentrations. Exposure by an industrial worker receptor is only assumed to involve surface soils, which includes the depth interval between 0 and 2 feet only. The 95UCL for the 0 to 2 feet bgs soil interval following this proposed excavation is 2 mg/kg (Table 1), which is below the revised

SSTL of 5.0 mg/kg. Therefore, the proposed excavation is health protective for all receptors evaluated in the Tier 2 RBCA.

Based on the above information, the location of PCBs present in soils at the site, and the expected use of the area, the proposed remediation target of 25 mg/kg is health protective of all evaluated human receptors.

We hope this adequately addresses your concerns raised in the telephone conversation, and will enable you to approve the proposed limited excavation as protective of human health without additional remediation at the Site.

Sincerely,

SECOR International Incorporated

David Jeffrey, Ph.D.

Risk Assessment Manager

cc: Mr. Fred Flint (Pacific Gas and Electric Company, TES)

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Table 1. Statistical Analysis^a
PCBs in Soil
PG&E Materials Facility
Emeryville, California

	İ	PCB Concentration ^b								
Sample ID	Sample Depth	Full Dataset		Limited Excavation Datase						
•	(feet)	(mg/kg)	0-10 feet bgs (mg/kg)	0-2 feet bgs (mg/kg)						
Bl	0-1.5	38								
Βl	1.5-3.0	0.5								
Ві	3.0-4.5	385								
B1	4.5-6.0	350								
B1	6.0-7.5	295								
B1	7.5-9.0	2	2							
B2 ·	1.0-2.0	4	4	4						
B2	2.0-3.0	0.5	0.5							
B2	4.0-6.0	0.5	0.5							
B2	6.0-6.5	19	19							
B4	0-1.5	0.5	0.5	0.5						
B4	1.5-3.0	0.5	0.5	0.5						
B4	3.0-4.5	0.5	0.5							
B4	4.5-6.0	0.5	0.5							
B4	6.0-7.5	11	11							
B4	7.5-9.0	8	8							
В7	1.5-3.0	0.5	0.5	0.5						
B7	4.5-6.0	0.5	0.5	VIV						
B7	7.5-9.0	0.5	0.5							
B9	0-1.5	2								
B9	1.5-3.0	1		•						
B9	3.0-4.5	2 4								
B9	4.5-6.0	93								
B9	6.0-7.5	13	13							
В9	7.5-9.0									
B10	1.5-3.0	0.5	0.5	0.5						
B10	4.5-6.0	0.5	0.5							
B10	7.5-9.0	0.5	0.5							
B12	1.5-3.0	0.5	0.5	0.5						
B12	4.5-6.0	0.5	0.5	•						
B12	7.5-9.0	0.5	0.5							
B14	2.5-3.0	0.5	0.5							
B14	3.0-4.5	5	· 5							
B14	4.5-6.0	15	15							
B14	6.0-7.5	12	12							
B14	7.5-9.0	16	16							
				•						
	1									

Table 1. Statistical Analysis^a
PCBs in Soil
PG&E Materials Facility
Emeryville, California

		PCB Concentration ^b								
Sample ID	Sample Depth	Full Dataset	Limited Excavation Dataset	Limited Excavation Dataset						
	(feet)	(mg/kg)	0-10 feet bgs (mg/kg)	0-2 feet bgs (mg/kg)						
B16	0-1.5	185								
B16	1.5-3.0	10								
B16	3.0-4.5	32								
B16	4.5-6.0	0.5	0.5							
B16	6.0-7.5	18.	18							
B16	7.5-9.0	9	9							
ESE-1	5	0.5	0.5							
ESE-1	10	0.5	0.5							
ESE-2	5	0.5	0.5							
ESE-2	9	0.5	0.5	•						
ESE-2	10	0.5	0.5							
ESE-3	5	0.5	0.5							
ESE-3	10	0.5	0.5							
ESE-4	5	0.5	0.5							
ESE-4	10	0.5	0.5							
Statistical Analysis	3			· ·						
Arithmetic Mean		30	4	1						
Sample Size		51	38	6						
Standard Deviation		85	6	1						
95th Confidence Int	terval	19	2	1						
95 Upper Confidence		50	5	2						
			·	·						

Abbreviations:

PCB - Polychlorinated biphenyl

Footnotes:

^a Raw data from EMCON (1997).

^b One-half the detection limit is used to represent non-detect samples.

Appendix C WELL DESTRUCTION REPORTS

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

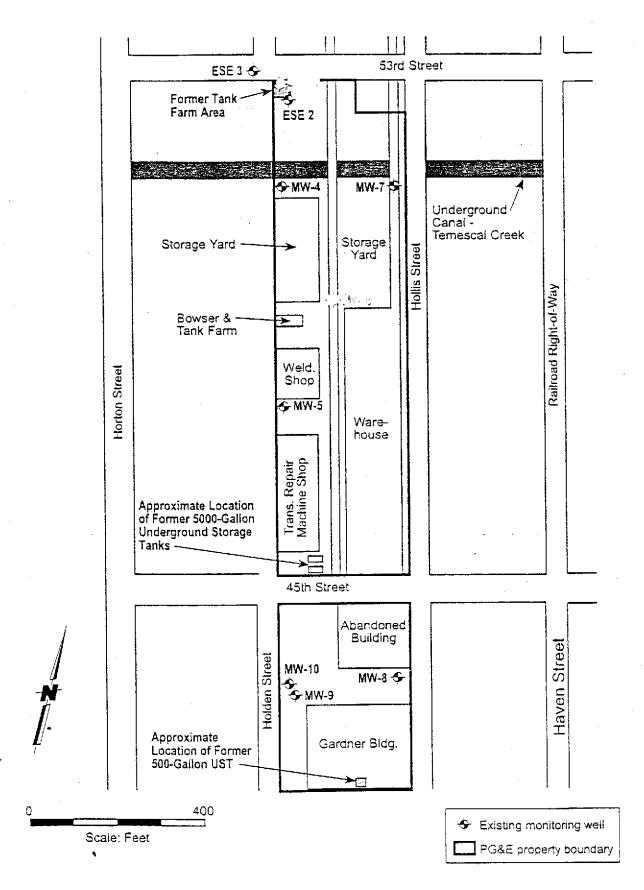
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



Layout of Emeryville Materials Facility showing former tank farm area, underground storage tank sites and existing monitoring well locations.

Drilling Contractor Gregg	onmental Af	ffair			• • • • • • • • • • • • • • • • • • • •							1	1 of 1
Drilling Contractor Gregg		11.7411.	s		1	oring Lo Emen		Materials Fa	cility	· · · · · · · · · · · · · · · · · · ·	DF	RILLING	<u> </u>
		Drille		<u>-</u>				Rig			START TIA	IE FINIS	H TIME
			ason			-		Ryno			0900		010
Logged By F. Flint			ace Con		S			Groundwater Dep 15 ft.	th		DATE 11/13/00	I	13/00
Type & Diameter of Borin	g						h		Sampling Metho Split Spoor			-	•
	Auglier Committee of the Committee of th			<u> </u>	ja distri		(i. 2.3e)				tilo moriosis		p. 2. 4. 1.
ows/	/ E	l Wate	(Feet)	e Inter	c Log	Symbol			TERIAL	market and the second			
SAMPLES Blowst Blowst	PID (ppm)	Ground Wate	Dapth (Feet)	Sample Interval	Graphic Log	Soll Sy		ANI	D DRILL	ING (UNDIT	IUNS	
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				-									
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	7		3 -	\exists								•	
			4										
			5 -			sc	FILE	- CLAYEY	SAND with o	ıravel an	d rubble ma	iderate bro	WD.
			6-	$\widehat{\mathbb{Z}}$			sligh	ntly moist, n	o odor.	,	G 1455(G) 111C	,as.a.s 5, 5	••••
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	1		7-										
	7		8	─ [
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			10 -						· · · · · · · · · · · · · · · · · · ·				
						sc	CLA odo	YEY SAND r.	- possibly fil	, dark br	own, some g	gravel, mois	st, no
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Logged By DaSilva				face Co Oncre		S		Groundwate 15 ft.	r Depth			DATE DATE 11/13/00 11/13/00					
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Appendix E

UNDERGROUND STORAGE TANKS ANALYTICAL DATA SHEETS

Environmental Services (SDB)

Submission #: 2000-11-0255

Date: November 16, 2000

P.G.& E TES

3400 Crow Canyon Rd. San Ramon, CA 94583-1393

Attn.: Mr. Fred Flint

Project: Emeryville UST

Dear Fred,

Attached is our report for your samples received on Monday November 13, 2000 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 28, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919. You can also contact me via email. My email address is: gcook@chromalab.com

Sincerely,

Gary Cook

Gary Cook

CHROMALAB, INC. Environmental Services (SDB)

Submission #: 2000-11-0255

PCBs

P.G.& E TES

⋈ 3400 Crow Canyon Rd.

San Ramon, CA 94583-1393

Attn: Fred Flint

Phone: (925) 866-5808 Fax: (925) 866-5681

Project #:

Project: Emeryville UST

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
SB1 @ 6.0`	Soil	11/13/2000 09:45	1
SB1 @ 10.0`	Soil	11/13/2000 09:54	2
SB1 @ 16.0`	Soil	11/13/2000 10:00	3
SB2 @ 6.0`	Soil	11/13/2000 10:30	4
SB2 @ 10.5"	Soil	11/13/2000 10:40	5
SB2 @16.0`	Soil	11/13/2000 10:52	6
SB3 @ 6.0"	Soil	11/13/2000 12:34	7
SB3 @ 11.0`	Soil	11/13/2000 12:40	8 .
SB3 @ 16.0'	Soil	11/13/2000 12:45	9
SB1 @ 1300	Water	11/13/2000 13:00	10
SB2 @ 1300	Water	11/13/2000 13:00	11
SB3 @ 1259	Water	11/13/2000 12:59	12

CHROMALAB, INC.

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB1 @ 6.0'

Lab Sample ID: 2000-11-0255-001

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 09:45

Matrix:

Soil

QC-Batch:

2000/11/13-01.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 13:45	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	90.5	50-125	%	1.00	11/15/2000 13:45	
Decachlorobiphenyl	96.6	46-142	%	1.00	11/15/2000 13:45	

CHROMALAB, INC. Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

Submission #: 2000-11-0255

3550/8082

PCBs

Sample ID:

SB1 @ 10.0°

Lab Sample ID: 2000-11-0255-002

Project:

Emeryville UST

Received:

11/13/2000 15:35

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 09:54

QC-Batch:

2000/11/13-01.14

Matrix:

Soil

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 14:14	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	88.9	50-125	%	1.00	11/15/2000 14:14	
Decachlorobiphenyl	98.9	46-142	%	1.00	11/15/2000 14:14	

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

Submission #: 2000-11-0255

3550/8082

PCBs

Sample ID:

SB1 @ 16.0`

Lab Sample ID: 2000-11-0255-003

Project:

Emeryville UST

Received:

11/13/2000 15:35

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 10:00

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	-
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 14:53	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	87.5	50-125	%	1.00	11/15/2000 14:53	
Decachlorobiphenyl	96.2	46-142	%	1.00	11/15/2000 14:53	

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

Submission #: 2000-11-0255

3550/8082

PCBs

Sample ID:

SB2 @ 6.0`

Lab Sample ID: 2000-11-0255-004

Project:

Emeryville UST

Received:

- 11/13/2000 15:35

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 10:30

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 15:21	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	83.9	50-125	%	1.00	11/15/2000 15:21	
Decachlorobiphenyl	87.0	46-142	%	1.00	11/15/2000 15:21	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB2 @ 10.5`

Lab Sample ID: 2000-11-0255-005

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 10:40

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclar 1016	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 15:50	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	86.2	50-125	%	1.00	11/15/2000 15:50	
Decachtorobiphenyl	95.5	46-142	%	1.00	11/15/2000 15:50	

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To: Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB2 @16.0`

Lab Sample ID: 2000-11-0255-006

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 10:52

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1221	DИ	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 16:18	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	93.3	50-125	%	1.00	11/15/2000 16:18	
Decachlorobiphenyl	99.1	46-142	%	1.00	11/15/2000 16:18	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB3 @ 6.0`

Lab Sample ID: 2000-11-0255-007

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 12:34

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1221	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1232	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1242	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1248	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1254	ND	0.25	mg/Kg	5.00	11/15/2000 16:47	
Aroclor 1260	0.86	0.25	mg/Kg	5.00	11/15/2000 16:47	
Surrogate(s)					•	
2,4,5,6-Tetrachloro-m-xylene	96.3	50-125	%	5.00	11/15/2000 16:47	
Decachlorobiphenyl	110.5	46-142	%	5.00	11/15/2000 16:47	

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB3 @ 11.0`

Lab Sample ID: 2000-11-0255-008

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 13:49

Sampled:

11/13/2000 12:40

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 17:15	
Aroclor 1260	0.058	0.050	mg/Kg	1.00	11/15/2000 17:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	73.5	50-125	%	1.00	11/15/2000 17:15	
Decachlorobiphenyl	88.4	46-142	%	1.00	11/15/2000 17:15	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB3 @ 16.0°

Lab Camp

Lab Sample ID: 2000-11-0255-009

Project:

m_____

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

.11/13/2000 13:49

Sampled:

11/13/2000 12:45

QC-Batch:

2000/11/13-01.14

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Aroclor 1221	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Aroclor 1232	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Aroclor 1242	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	4
Aroclor 1248	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Aroclor 1254	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Aroclor 1260	ND	0.050	mg/Kg	1.00	11/15/2000 17:43	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	89.0	50-125	%	1.00	11/15/2000 17:43	
Decachlorobiphenyl	93.0	46-142	%	1.00	11/15/2000 17:43	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB1 @ 1300

Lab Sample ID: 2000-11-0255-010

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:02

Sampled:

11/13/2000 13:00

QC-Batch:

2000/11/13-03.14

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Aroclor 1221	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Aroclor 1232	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Aroclor 1242	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Aroclor 1248	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Aroclor 1254	ND	0.69	ug/L	1.39	11/14/2000 19:50	4
Aroclor 1260	ND	0.69	ug/L	1.39	11/14/2000 19:50	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	84.2	62-123	%	1.39	11/14/2000 19:50	
Decachlorobiphenyl	55.7	56-136	%	1.39	11/14/2000 19:50	s

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Attn.. Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

PCBs

Sample ID:

SB2 @ 1300

Lab Sample ID: 2000-11-0255-011

Project:

Emeryville UST

Received:

11/13/2000 15:35

Sampled:

Extracted:

11/13/2000 18:02

11/13/2000 13:00

QC-Batch:

2000/11/13-03.14

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1221	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1232	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1242	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1248	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1254	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Aroclor 1260	ND	0.67	ug/L	1.33	11/14/2000 20:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	132.2	62-123	%	1.33	11/14/2000 20:15	s
Decachlorobiphenyl	101.3	56-136	%	1.33	11/14/2000 20:15	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082 3550/8082

PCBs

Sample ID:

SB3 @ 1259

Lab Sample ID: 2000-11-0255-012

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:02

Sampled:

11/13/2000 12:59

QC-Batch:

2000/11/13-03.14

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1221	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1232	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1242	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1248	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1254	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Aroclor 1260	ND	0.66	ug/L	1.32	11/14/2000 20:40	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	122.5	62-123	%	1.32	11/14/2000 20:40	
Decachlorobiphenyl	105.5	56-136	%	1.32	11/14/2000 20:40	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

Batch QC Report

PCBs

Method Blank

Soil

QC Batch # 2000/11/13-01.14

MB:

2000/11/13-01.14-001

Date Extracted: 11/13/2000 13:49

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1221	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1232	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1242	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1248	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1254	ND	0.05	mg/Kg	11/14/2000 16:03	
Aroclor 1260	ND	0.05	mg/Kg	11/14/2000 16:03	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	104.6	50-125	%	11/14/2000 16:03	
Decachlorobiphenyl	84.6	46-142	%	11/14/2000 16:03	

Submission #: 2000-11-0255

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

Batch QC Report

PCBs

Method Blank

Water

QC Batch # 2000/11/13-03.14

MB:

2000/11/13-03.14-001

Date Extracted: 11/13/2000 18:02

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1221	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1232	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1242	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1248	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1254	ND	0.5	ug/L	11/14/2000 17:19	
Aroclor 1260	ND	0.5	ug/L	11/14/2000 17:19	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	131.6	62-123	%	11/14/2000 17:19	S
Decachlorobiphenyl	90.4	56-136	%	11/14/2000 17:19	

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn: Fred Flint

Test Method:

8082

Prep Method:

3510/8082

3550/8082

Batch QC Report

PCBs

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/11/13-01.14

LCS: 2000/1

2000/11/13-01.14-002

Extracted: 11/13/2000 13:49

Analyzed

11/15/2000 10:55

LCSD:

2000/11/13-01.14-003

Extracted: 11/13/2000 13:49

Analyzed

11/15/2000 11:23

Compound	Conc.	[mg/Kg]	Exp.Conc.	[mg/Kg]	Recov	ery [%]	RPD	Ctrl. Lim	its [%]	Flag	js
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0591	0.0457	0.0667	0.0667	88.6	68.5	25.6	65-135	30		
Aroclor 1260	0.0602	0.0481	0.0667	0.0667	90.3	72.1	22.4	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyl	43.0	32.6	50	50	86.0	65.2		50-125			
Decachlorobiphenyl	43.8	35.7	50	50	87.6	71.4		46-142			

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Test Method:

8082

Attn: Fred Flint

Prep Method:

3510/8082

3550/8082

Batch QC Report

PCBs

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/11/13-03.14

LCS:

2000/11/13-03.14-002

Extracted: 11/13/2000 18:02

Analyzed

11/15/2000 11:52

LCSD: 2000/11/13-03.14-003

Extracted: 11/13/2000 18:02

Analyzed

11/15/2000 12:20

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recov	Recovery [%] RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Aroclor 1016	1.68	1.79	2.00	2.00	84.0	89.5	6.3	65-135	30	i	i
Aroclor 1260	1.83	1.88	2.00	2.00	91.5	94.0	2.7	65-135	30		
Surrogate(s)			1			1					
2,4,5,6-Tetrachloro-m-xyl	41.1	45.9	50	50	82.2	91.8		62-123			
Decachlorobiphenyl	43.9	46.1	50	50	87.8	92.2		56-136			

Submission #: 2000-11-0255

Environmental Services (SD8)

P.G.& E TES

Attn.: Fred Flint

Test Method: 8082

Prep Method: 3550/8082

Batch QC Report

PCBs

Matrix Spike (MS/MSD)

Soil

QC Batch # 2000/11/13-01.14

Sample ID: SB3 @ 16.0"

Lab Sample ID: 2000-11-0255-009

MS:

2000/11/13-01.14-004 Extracted: 11/13/2000 13:49 Analyzed: 11/15/2000 12:49 Dilution: 1.0

MSD:

2000/11/13-01.14-005Extracted: 11/13/2000 13:49 Analyzed: 11/15/2000 13:17 Dilution: 1.0

Compound	Conc.	[n	ng/Kg]	Exp.Conc.	[mg/Kg]	Recov	ery [%]	RPD	Ctrl. Limi	ts [%]	F1	ags
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aroctor 1016	0.0597	0.0582	ND	0.0667	0.0661	89.5	88.0	1.7	65-135	30		
Aroclor 1260	0.0625	0.0618	ND	0.0667	0.0661	93.7	93.5	0.2	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	44.1	43.8	:	50	50	88.2	87.6		50-125			
Decachlorobiphenyl	47.2	46.3		50	50	94.4	92.6		46-142			

Environmental Services (SDB)

To: P.G.& E TES

Test Method: 8082

Attn: Fred Flint

Prep Method: 3510/8082

3550/8082

Submission #: 2000-11-0255

Legend & Notes

PCBs

Analysis Flags

r١

Reporting limits raised due to reduced sample size.

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

Environmental Services (SDB)

Submission #: 2000-11-0255

Total Extractable Petroleum Hydrocarbons (TEPH)

P.G.& E TES

⋈ 3400 Crow Canyon Rd.

San Ramon, CA 94583-1393

Attn: Fred Flint

Phone: (925) 866-5808 Fax: (925) 866-5681

Project #:

Project: Emeryville UST

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
SB1 @ 6.0°	Soil	11/13/2000 09:45	1
SB1 @ 10.0`	Soil	11/13/2000 09:54	2
SB1 @ 16.0`	Soil	11/13/2000 10:00	3
SB2 @ 6.0°	Soil	11/13/2000 10:30	4
SB2 @ 10.5`	Soil	11/13/2000 10:40	5
SB2 @16.0`	Soil	11/13/2000 10:52	6
SB3 @ 6.0`	Soil	11/13/2000 12:34	7
SB3 @ 11.0`	Soil	11/13/2000 12:40	8
SB3 @ 16.0`	Soil	11/13/2000 12:45	9
SB1 @ 1300	Water	11/13/2000 13:00	10
SB2 @ 1300	Water	11/13/2000 13:00	11
SB3 @ 1259	Water	11/13/2000 12:59	12

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB1 @ 6.0°

Lab Sample ID: 2000-11-0255-001

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 09:45

QC-Batch:

2000/11/13-07.10

Matrix:

Compound.	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/14/2000 21:39	
Surrogate(s) o-Terphenyl	86.4	60-130	%	1.00	11/14/2000 21:39	

Printed on: 11/15/2000 16:04

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Attn.: Fred Flint

Prep Method:

3510/8015M

Submission #: 2000-11-0255

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB1 @ 10.0`

Lab Sample ID: 2000-11-0255-002

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 09:54

QC-Batch:

2000/11/13-07.10

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/14/2000 22:17	
Surrogate(s) o-Terphenyl	90.4	60-130	%	1.00	11/14/2000 22:17	

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB1 @ 16.0°

Lab Sample ID: 2000-11-0255-003

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 10:00

QC-Batch:

2000/11/13-07.10

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/14/2000 22:55	
Surrogate(s) o-Terphenyl	85.1	60-130	%	1.00	11/14/2000 22:55	

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Submission #: 2000-11-0255

Attn.: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Rep.Limit

2.0

60-130

%

Sample ID:

SB2 @ 6.0`

Lab Sample ID: 2000-11-0255-004

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 10:30

Result

ND

85.0

QC-Batch:

1.00

2000/11/13-07.10

Matrix:

Compound

Mineral Oil

Surrogate(s) o-Terphenyl

Soil

	·=-···		
Units	Dilution	Analyzed	Flag
mg/Kg	1.00	11/14/2000 23:33	

11/14/2000 23:33

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8015M

Submission #: 2000-11-0255

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB2 @ 10.5°

Lab Sample ID: 2000-11-0255-005

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 10:40

QC-Batch:

2000/11/13-07.10

Matrix:

Soil

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/15/2000 00:11	
Surrogate(s) o-Terphenyl	82.8	60-130	%	1.00	11/15/2000 00:11	

Printed on: 11/15/2000 16:04

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To: Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB3 @ 11.0°

Lab Sample ID: 2000-11-0255-008

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 12:40

QC-Batch:

2000/11/13-07.10

Matrix:

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	46	2.0	mg/Kg	1.00	11/15/2000 11:23	rd
Surrogate(s) o-Terphenyl	95.5	60-130	%	1.00	11/15/2000 11:23	

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Attn.: Fred Flint Prep Method: 3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB3 @ 16.0

Lab Sample ID: 2000-11-0255-009

Project:

Received:

- 11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled: Matrix:

11/13/2000 12:45 Soil

QC-Batch:

2000/11/13-07.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/15/2000 05:17	
Surrogate(s) o-Terphenyl	82.4	60-130	%	1.00	11/15/2000 05:17	

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Submission #: 2000-11-0255

Attn.: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB1 @ 1300

Lab Sample ID: 2000-11-0255-010

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:01

Sampled:

11/13/2000 13:00

QC-Batch:

2000/11/13-06.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	140	ug/L	1.43	11/15/2000 12:54	
Surrogate(s) o-Terphenyl	45.6	60-130	%	1.43	11/15/2000 12:54	sl

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB2 @ 1300

Lab Sample ID: 2000-11-0255-011

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:01

Sampled:

11/13/2000 13:00

QC-Batch:

2000/11/13-06.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	130	ug/L	1.32	11/15/2000 13:33	
Surrogate(s) o-Terphenyl	98.5	60-130	%	1.32	11/15/2000 13:33	

Submission #: 2000-11-0255

CHROMALAB, INC.

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Attn.: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB3 @ 1259

Lab Sample ID: 2000-11-0255-012

Project:

Received:

11/13/2000 15:35

Emeryville UST

Extracted:

11/13/2000 18:01

Sampled:

11/13/2000 12:59

QC-Batch:

2000/11/13-06.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	120	ug/L	1.19	11/15/2000 12:54	
Surrogate(s) o-Terphenyl	78.9	60-130	%	1.19	11/15/2000 12:54	

Submission #: 2000-11-0255

P.G.& E TES To: Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank

Soil

QC Batch # 2000/11/13-07.10

MB:

2000/11/13-07.10-001

Date Extracted: 11/13/2000 18:53

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel Mineral Oil	ND ND	1 2	mg/Kg mg/Kg	11/14/2000 18:25 11/14/2000 18:25	
Surrogate(s) o-Terphenyl	91.5	60-130	%	11/14/2000 18:25	

Printed on: 11/15/2000 16:04

Submission #: 2000-11-0255

P.G.& E TES To:

Test Method:

8015M

Altn.: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank

Soil

QC Batch # 2000/11/13-07.10

MB:

2000/11/13-07.10-001

Date Extracted: 11/13/2000 18:53

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel Mineral Oil	ND ND	1 2	mg/Kg mg/Kg	11/14/2000 18:25 11/14/2000 18:25	
Surrogate(s) o-Terphenyl	91.5	60-130	%	11/14/2000 18:25	

Submission #: 2000-11-0255

P.G.& E TES To:

Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank

Water

QC Batch # 2000/11/13-06.10

MB:

2000/11/13-06.10-001

Date Extracted: 11/13/2000 18:01

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel Mineral Oil	ND ND	50 100	ug/L ug/L	11/15/2000 12:16 11/15/2000 12:16	
Surrogate(s) o-Terphenyl	98.0	60-130	%	11/15/2000 12:16	

P.G.& E TES

Test Method:

8015M

Prep Method:

3510/8015M

Submission #: 2000-11-0255

3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2000/11/13-07.10

LCS: LCSD:

Attn: Fred Flint

To:

2000/11/13-07.10-002 2000/11/13-07.10-003

Extracted: 11/13/2000 18:53 Extracted: 11/13/2000 18:53

Analyzed Analyzed

11/14/2000 19:04 11/14/2000 19:43

Compound	Conc.	[mg/Kg]	Exp.Conc.	onc. [mg/Kg] Recovery [%		RPD	Ctrl. Limi	its [%]	Flags		
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	39.9	39.4	41.7	41.7	95.7	94.5	1.3	60-130	25		
Surrogate(s) o-Terphenyl	19.7	19.1	20.0	20.0	98.5	95.5		60-130			

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES

Test Method:

8015M

Attn: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/11/13-06.10

LCS:

2000/11/13-06.10-002

Extracted: 11/13/2000 18:01

Analyzed

11/15/2000 13:33

LCSD:

2000/11/13-06.10-003

Extracted: 11/13/2000 18:01

Analyzed

11/15/2000 14:11

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recov	Recovery [%]		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	850	1090	1250	1250	68.0	87.2	24.7	60-130	25		
Surrogate(s) o-Terphenyl	22,5	24.6	20.0	20.0	112.5	123.0		60-130			

Printed on: 11/15/2000 16:04

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Attn.: Fred Flint

Test Method: 8015M

Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Matrix Spike (MS/MSD)

Soil

QC Batch # 2000/11/13-07.10

Sample ID: SB1 @ 6.0

Lab Sample ID: 2000-11-0255-001

MS:

2000/11/13-07.10-004 Extracted: 11/13/2000 18:53 Analyzed: 11/14/2000 20:21 Dilution: 1.0

MSD: 2000/11/13-07.10-005Extracted: 11/13/2000 18:53 Analyzed: 11/14/2000 21:00 Dilution: 1.0

Compound	Conc.	[r	ng/Kg]	Exp.Conc.	[mg/Kg]	ery [%]	RPD	Ctrl. Limi	ts [%]	Flags		
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	39.1	38.0	?	41.7	41.5	93.8	91.6	2.4	60-130	25		
Surrogate(s) o-Terphenyl	18.2	17.6		20.0	20.0	91.0	88.0		60-130			

To: P.G.& E TES

Test Method:

8015M

Attn: Fred Flint Prep Method:

3510/8015M 3550/8015M

Submission #: 2000-11-0255

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

rd

Quantitation for the above analyte is based on the response factor of Diesel

s

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

> 1220 Quarry Lane * Pleasanton, CA 94566-4756 Telephone: (925) 484-1919 * Facsimile: (925) 484-1096



Chain of Custody Record

From: Pacific Gas & Electric Company

2000-11-0255

Ship To: Lab Name: CITRO MALAB

55777

Address or Loc	ation:	3400 C1	COW CANTON	<u>k1)</u>					Α	ddres	s:	200	<u>Qu</u>	urry		AMÉ		· ·
City: San Ra	Mon		, CA (Zip)	74583	,				\mathbf{C}	ity: P	المتركب	rs 27	TON	<u> </u>		CA (Zip)	94566	
Contact Name/	Phone N	lα·		(9251			19	-		
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Project Name:		Project Sup	ervisor (Name/Phone No	o.) :							3/			/ /				
EMERYVILLE UST								,			Y	/ /	/ /			_4 B		
Sampled by: (Signature) (Print Name) (Liment): 1/13 (Liment) + SILVA								_/,	~/						/4	20		
Sample No./		npled	CHUMERI	J 17 3		ainers) /	Ŋ.		/ .	/ ,	/ /	√ ₹			
Equipment Serial No.	Date	Time	Sample Type/Desc	ription	No.	Size	1	7	′ ′>	τ /	′ /	/ /			,	Remar	ks	
1.581 @ 6.0'	!![13	0945	SOIL		1	2"x6"		X:	\times						24	ler TAI	pen	
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Notes:

- 1. Samples are discarded by the laboratory 90 days after results are reported unless other arrangements are made.
- 2. File a copy of this Chain of Custody Record, complete with appropriate laboratory signatures, with the test analysis results.
- 3. The first "Relinquished by/Date" is the shipping date unless otherwise noted.
- 4. The final PCB results will be the cumulative results added together for each PCB.
- 5. When this form is computer-generated, send the completed original to the laboratory, and make copies for the originator and sampler.

☑ PG&E Facility ☐ Sample Site

Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler

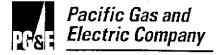
Appendix F

ABOVEGROUND STORAGE TANK ANALYTICAL DATA SHEETS FOR PCBs

Laboratory Test Report

Technical and Ecological Services 3400 Crow Canyon Road San Ramon, CA 94583 TES 24-Hr. Service Line: 8-251-3197 or (925) 866-3197 Report #: 441.81-00.19

Rev. 1



SUBJECT: PCB ANALYSIS OF SOIL SAMPLES EMERYVILLE SOIL PROJECT

TES CHEMISTRY SERVICES UNIT FILE NOS. 0009-016,017,018,019 0010-017,019,021

Twenty-nine soil samples were received for analysis. All samples were prepared and analyzed on the day they were sampled. Samples were prepared by oven drying the soil, then pulverizing, followed by isooctane extraction. Analysis was by gas chromatography by EPA Method 8082. The sample identification and test results are reported below. The quality control data follow, along with associated chain of custody forms.

Aroclor 1260 was the only PCB found.

LAB NO.	SEQ	SITE ID	DATE	Aroclor 1260, ppm	Depth
00-09-016	2	NW-N-1	9/20/2000	2.7	4.5'
00-09-016	3	NW-N-2	9/20/2000	<1	7"
00-09-016	4	NW-E-I	9/20/2000	2.5	7'
00-09-016	5	NW-S-1	9/20/2000	<1	7'
00-09-016	6	NW-B-1	9/20/2000	2.4	9'
00-09-017	1	NE-N-L1	9/20/2000	<1	10'
00-09-017	2	NE-E-LI	9/20/2000	1.7	8'
00-09-017	3	NE-W-L1	9/20/2000	2.1	9'
00-09-017	4	NE-S-L1	9/20/2000	3.2	10'
00-09-017	5	NW-N-L1	9/20/2000	3.3	10'
00-09-017	6	NW-E-L1	9/20/2000	<1	10'
00-09-017	. 7	NW-W-L1	9/20/2000	17.2	10'
00-09-017	8	NW-S-L1	9/20/2000	2.2	10'
00-09-017	9	NE-S-2	9/20/2000	9.4	5'
-					a.
00-09-018	1	SW-N-L1	9/21/2000	5.8	7'
00-09-018	2	SW-E-L1	9/21/2000	37	7'
00-09-018	3	SW-S-L1	9/21/2000	44	7'
00-09-018	4	SW-W-L1	9/21/2000	2.6	7'

Date:	01/09/01	
Tested by:	Lana Us Clar	

Approved by:

J M. Henderson

Emeryville Soil Project

Report #:

441.81-00.19

Rev. 1

TES Chemistry Services Unit File Nos. 0009-016, 017, 018, 019 0010-017, 019,021

LAB NO.	SEQ	SITE ID	DATE	Aroclor 1260, ppm	Depth
00-09-019	1	SW-E-L2	9/21/2000	5.6	8'
00-09-019	2	SW-S-L2	9/21/2000	1.3	8'
00-10-017	1	10' from wall	10/9/2000	3.6	6".
00-10-017	2	15' from wall	10/9/2000	3.8	. 6"
00-10-017	3	20' from wall	10/9/2000	12	6"
00-10-019	1	2' deep 20' from wall	10/10/2000	<1	
00-10-021	1	2' deep near wall 4' back	10/10/2000	<1	2'
00-10-021	2	2' deep near wall 20' back	10/10/2000	<1	- 21
00-10-021	3	2' deep 20' from wall	10/10/2000	<1	2'
00-10-021	4	6" deep near well	10/10/2000	<1	6"
00-10-021	5	6" deep 20' from well	10/10/2000	<1	6"

Aroclors 1016 through 1268 would have been reported had they appeared at or above the reporting limit of 1 ppm (mg/Kg).

Please contact Lansing Wong at company number 8-251-5473 or Pacific Bell number 925-866-5473 if there are any questions regarding the chemical analysis.

pc: Amadou M. Cisse

Fred Flint

Peter M. Haight

Marek K. Waligora

PCB Analysis

Emeryville Soil Project

Report #: 441.81-00.19

Rev. 1

TES Chemestry Services Unit File Nos. 0009-016, 017, 018, 019 0010-017, 019,021

Quality Assurance Data

Run Number: Sequence 3\1010main.s\T09016-3 1 ppm (mg/Kg)

Method Reporting Limit: Method Preparation Blank:

<1 ppm

	Aroclor	Spike Recovery	SD
Soil Spike	1242	98.8 %	2.0 %
	1260	83.0	5.4 %

¹SD is the standard deviation.



From: Pacific Gas & Address or Loc City: £ acre Contact Name/	ation: مثالی		S Street, CA	(Zip) CA		Sampl	e Site	S	hip T	(I	Addr City; Phon	e No.	34 3 K	60 im 125	2 m	ر دمان سرمان	5 (2h ym Pd. Can ym Pd. CA (2ip) 9 4523 5491 Crsen	
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Notes.

- 1. Samples are discarded by the laboratory 90 days after results are reported unless other arrangements are made.
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- 3. The first "Relinquished by/Date" is the shipping date unless otherwise noted.
- 4. The final PCB results will be the cumulative results added together for each PCB.
- 5. When this form is computer-generated, send the completed original to the laboratory, and make copies for the originator and sampler.

Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler

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Marianchan 1000



	CM FULLE MF CA (Zip) FULLT / 580 Turnaround Time	8	Ship To: Lab Name: 7ES Address: City: S R , CA (Zip) Phone No. SD B Contact Name: FLM Analysis Requested
NORMAL (10 days or less) RUSH	Duc Date & Time OTHER, Sp	pecify	
TELEPHONE FAX Give Resu	ills to: FC1 at Name	/ 5808 PMFAX	
Project Name: Proj	ject Supervisor (Name/Phone No.):		
Sampled by: (Signature)	(Print Name)		0009017 (1-9)
Sample No./ Sampled		Containers	
	ime Sample Type/Description 10 365 6 60 EAS		Remarks
		····	
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	10/365 4,3 Sa	M	
6 MW-E-LI) 4	72 H-510065 11, Ful)	
1 NW-W-L1 (4	22 10'865 9'FN N		
	22 10'365 11'PNW		
9. NE -S - 2 - 4	10 5 1 B65		
П.	*****		•••
12.			
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SAP Accounting Data:	Billing Contact:		Billing Address:

Notes

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Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler









From: Pacific Gas & Electric Address or Location:_ City: \(\frac{	Company PG&E Facility ENERGY USE MIP CA (Zip) No.: FUNT / 580	国 Sample Site	City: Phone No		, CA (Zip)
	Turnatound Time USH OTHER, Sp Due Date & Tline Results to: Hante			Analysis Reque	sted
	Project Supervisor (Name/Phone No.): (Print Name)	Containers			-TES
Equipment Serial No. Date 1. $5\omega - P - L = 9/21/\omega$ 2. $5\omega - 9 - L = 1$ 3. $5\omega - 5 - L = 1$ 4. $5\omega - W - L = 5$	Time Sample Type/Description 1000 7/865 86x60 88 7/865 23' X 3' N 1050 1/865 13' X 6' PA SW 1 7/865 13' X 6' PA SW	or (Remarks
5. 6. 7. 8.		7			
9. 10. 11.					
Relinquished by ()anhe&Dept.): Relinquished by (Name&Dept.): Relinquished by (Name&Dept.):	Date & Time: 9/21/60 1055 Date & Time: Date & Time:	Received by (Name& Dept. Received by (Name& Dept.). //->	Date&Time: 9-21-00 (1)(5) Date&Time: Date&Time:	Ship Via: Bill of Lading/Airbill No.:
SAP Accounting Data:	Billing Contact;	1	Dilling Address:		1

Notes:

Samples are discarded by the laboratory 90 days after results are reported unless other arrangements are made.

- 2. File a copy of this Chain of Custody Record, complete with appropriate laboratory signatures, with the test analysis results.
- 3. The first "Relinquished by/Date" is the shipping date unless otherwise noted.
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Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler

©PG&E

November, 1998

From: Pacific Gas & E	lectric (Company	∑X PG&E	Facility	☐ Sample	Site	Sh	ip To	: L	ab Na	me:	72	کہکا			
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Notes

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- 2. File a copy of this Chain of Custody Record, complete with appropriate laboratory signatures, with the test analysis results.
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- 4. The final PCB results will be the cumulative results added together for each PCB.
- When this form is computer-generated, send the completed original to the laboratory, and make copies for the originator and sampler,

Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler



From: Pacific Gas & Electric Compa	my FIPG&E Facility	✓ □ Sample Site	at: m		
Address or Location:		☐ sample site		ie: TES	
City: Empryylus	CA (2:)		Address:		
Contact Name/Phone No.:	, CA (Zip)		City:		, CA (<u>Zip)</u>
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	Name	PIVFAX	//		
Project Name: Project	Supervisor (Name/Phone No.):			/ / / / /	/
Sampled by: (Signature)	(Print Name)				/ 1 =>:
	(Print Name)	LSILVA	£ / / /		TES 0010017
Sample No./ Sampled Equipment Serial No. Date Time		Containers	~ / / / /		0010017
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Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler

ADORE N



From: Pacific Gas & Electric Company Address or Location: City: Ewry dure Contact Name/Phone No.: Z	SI 5008	□ Sample Site	Ship 7	A Ci Pl	nb Nam ddress; ity: ione No ontact I	0,	·			, CA (Zip)
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Sampled by (Signature) Sample No./ Sampled	(Print Name) FRED FL.	w	. /	60%			/ /	/ /	//	/ TES 0010-019 -1
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Notes:

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- The first "Relinquished by/Date" is the shipping date unless otherwise noted.
- The final PCB results will be the cumulative results added together for each PCB.
 - When this form is computer generated send the

Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler



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Distribution (See note #5)

White: Laboratory Canary: Originator Pink: Sampler

Appendix G HAZARDOUS WASTE MANIFESTS

1	UNIFORM HAZARDOUS 1. Generator's US EPA	4 ID No.	Onifest	Docum	ent N	D. 2	MGL.	2. Pag	je i		Sacramento, Califo in in the shaded are
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L	4. Generator's Phone ((51) 0) 974-5527 ATTN: JEŞUS	MILLE II CA 94608 SILUNA			8		Generi H _. Y				8 7 9 8
	5 UNIVERSAL ENVIRONMENTAL 6.	US EPA ID Number	5 2	7 ,	、 L				iD (Res		
	7. Transporter 2 Company Name 8.	US EPA ID Number		<u>l</u>		. *	porter'		e ID [Res	(707)747 erved.l	-6888
				1.1	F	Trans	porter'	S Phone			
	Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 36261 OLD SKYLINE ROAD	US EPA ID Number			C		Facilit	•	اماد	01614	6/1/7
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Signature

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 GENERATOR'S CERTIFICATION: I hereby dec marked, and labeled, and are in all respects 	clars that the contents of in proper condition for	this consignment are fu transport by highway o	lly and accurately according to appl	described cable inter	l above by rnational	proper and nati	shipping na onal govern	me and are ment regula	classified, packed, ations.
If I am a large quantity generator, I certify it practicable and that I have selected the pract and the environment; OR, if I am a small au	hat I have a program in ticable method of treats	n place to reduce the v	alume and toxicit	y of waste	generale	id to the	degree I ho	ive determin	ned to be economic
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Sap#. v	Wear personal protect TO SAP#8	ive clothing	 24 hr emergency # 594 	# 1-800-321-10	730 Lee	Soares.		
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If I am a l practicable and the er	large quantity generator, I certify le and that I have selected the pro invironment; OR, if I am a small q	y that I have a pro acticable method:	rogram in place to reduce the valid	rolume and toxicity of w	vaste genera	ated to the degree I h	have determ	nined to be economical
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IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

r of California—Environmental Protection Agency Papphaved OMB No. 2050-0039 [Expires 9-30-99] See Instructions is print or type. Form designed for use on elite (12-pitch) typewriter.	s on back	of pag	je 6.		ent of Toxic Substances Cont Sacramento, Colifornia
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3 FACIFIC GAS AND ELECTRIC SITE: EMERYMLLE REPAIR FACIL 4525 HOLLIS STREET 4525 HOLLIS STREET EMERYMLE CA 94608 EMERYMLE CA 94608	LIY		e Manifest Document	Number 2	20144809
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16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and according to marked, and labeled, and are in all respects in proper condition for transport by highway according to the second	to applicable in 13 d toxicity of wa the available to	nternation ste gener	ated to the degree I	rnment regul have determi	ations.
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19. Discrepancy Indication Space					• • · · · · · · · · · · · · · · · · · ·
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest and Printed/Typed Name Signature	cept as noted in	Tem 19.	nt/fa	Mon	th Day Year

1	UNIFORM HAZARDOUS WASTE MANIFEST CAPBBRRDO	Manifest Pocum		2. Page 1	is not requ	n in the shaded area: ired by Federal law.
	3. PACIFIC GAS AND ELECTRIC SITE: EMERYMLE REPAIR F. 4525 HOLUS STREET 4525 HOLUS STREET			Manifest Document	Number 2	01448
	EMERYMLE CA 94608 EMERYMLE CA 94604 4. Generator's Phone (510) 874-5527 ATTN: JESUS LUNA 5. Transporter 1 Company Name 6. US EPA ID Number			Generalor's ID:		8 7 9 8
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	11. US DOT Description (including Proper Shipping Name, Hazord Class, and ID Number)	 	Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully are marked, and labeled, and are in all respects in proper condition for transport by highway according to the second of the second of transport by highway according to the second of the second of transport by highway according to the second of the second of transport by highway according to the second of the second of transport of transport of the second of transport of transport of the second of the secon	e and taxicity of	waste genera	al and national government	pase getermin	ned to be economica
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- See Instructions on back of page 6.

Department of Toxic Substances Co Sacramento, California

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	4. Generator's Phone (510 874-5527 ATTN: JESUS LUNA 5. Transporter 1 Company Name 6. US EPA ID Number	7 / · ·	<u>.</u>	I N H IO IS		8 7 9 8
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IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generalia	1 8 p 4	ì	1 8 4	est Docum	nent No.	3	2. Pope 1	fis not requ	on in the shaded area vired by Federal law.
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20. Facility Owner or Operator Certification of receipt of hazordous materials covered by this manifest except as noted in Item 19

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19. Discrepancy Indication Space

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17. Transporter 1 Acknowledgement of Receipt of Materials		
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18. Transporter 2 Acknowledgement of Receipt of Materials		
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19. Discrepancy Indication Space		

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name Signature

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	7. Transporter 2 Campany Name		8886	12272		sporter's Phone	(707)747	/-5699
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State of California—Environmental Protection Agency Form Approved OMB No. 2050-0039 (Expires 9-30-99) See Instructions on back of page 6. lease print or type. Form designed for use on elite (12-pitch) Nowwife 1 nt of Toxic Substances Contro Sacramento, California 1. Generator's US EPA ID No Manifest Document No. UNIFORM HAZARDOUS 2. Page I Information in the shaded areas WASTE MANIFEST is not required by Federal law. b b of 🖡 Generator's Name and Mailing Address
 PACFIC GAS AND ELECTRIC State Manifest Document Number 99785192 SITE: EMERYVILLE REPAIR FACILITY 4525 HOLLIS STREET 4525 HOLLIS STREET 1-800-852-7550 EMERYMLLE CA 94608 B. State Generator's ID EMERYVILLE Generator's Phane (55 CA 94808 ¹ 0) 8<u>74-55</u> JESUS LUNA 5. Transporter 1 Company Name 6. US EPA ID Number C. State Transporter's ID [Reserved.] UNIVERSAL ENVIRONMENTAL D. Transporter's Phone САРРВВРРБР (707)747-8899 7. Transporter 2 Gompany Name 8. US EPA ID Number E. State Transporter's ID [Reserved.] F. Transporter's Phone 9. Designated Facility Name and Site Address G. State Facility's IC IO. US EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 35251 OLD SKYLINE ROAD H. Facility's Phone KETTLEMAN CITY CA 93239 <u>свтепрвиви</u> 8002222984 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total 14. Unit Type Quantity Wt/Vol f. Waste Number "NON RCRA HAZARDOUS WASTE, SOLID. (DEBRIS K CONTAMINATED WITH 50-499 PPM PCB) Ģ EPA/On Ε NON RCR State Ε R EPA/Other A EPA/Other А. EPA/Other J. Additional Descriptions for Material's Listed Above Handling Codes for Wastes Listed Above HALBAN 113 DEERIS CONTAMINATED WITH 60-499 PPM PCS 611 ERG - 171;... 15. Special Handling Instructions and Additional Information Sapti Wear personal protective clothing. 24 hr emergency #1-800-321-1030 Lee Soares 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or dispasal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is Printed/Typad Name
MARS/4411 Signatur 1 Year 17. Transporter I Acknowledgement of Receipt of Materials Printed/Typed Name Signature Handler Year 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator Certification receipt of hazardous materials covered by this manifes Printed/Typed Name

DO NOT WRITE BELOW THIS LINE.

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3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC 4525 HOLUS STREET	TE: EMERYVILLE REPAIR FAI 4825 HOLLIS STREET	CHLTY	A. State Ma	mifest Document	Number 9	978491
EMERYVILLE CA 34508 4. Generator's Phane 510 459-5727 ATT	OTTO ADMINISTRAÇÃO DE LA CONTRACTOR DE L	3	B. State Ge	nerator's ID: Y H Q 3		
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7. Transporter 2 Company Name	C A D 9 8 3 6 5	2 2 7 2	D. Transpor	ter's Phone nsporter's ID (<u>Res</u>	(707)747-	-6699
9 Designated Facility Name and Site Address	10 15 50 10	- "e.	F. Transport		· · · · · · · · · · · · · · · · · · ·	ian.
CHEMICAL WASTE MANAGEMENT, INC. 36251 OLD SKYLNE ROAD	10. US EPA ID Number		G. State Fac	ATTOO	016141	01/7
KETTLEMAN CITYCA 33239	CATOOBA				80022225	184
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J. Additional Descriptions for Materials Listed Above						EPA/Other
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15. Special Hondling Instructions and Additional Information 11A: WEAR PERSONAL PROTECTION (ALLWASTE)	VE CLOTHING, 24HR EVE	RGENCY F	RESPON	SE NO. 1-	300-321-	1030
CHARGE TO SAP # 80005	94					
16. GENERATOR'S CERTIFICATION: Mereby declare that the marked, and labeled, and are in all respects in proper col	contents of this consignment are fully and a ndition for transport by highway according	ccurately describe to applicable into	d above by pr	oper shipping na I notional govern	me and are cl	assified, packed, ans.
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20. Facility Owner or Operator Certification of receipt of hazar Printed/Typed Name	dous materials covered by this manifest ex	cept as noted in Ite	: 6 6 / em 39.	A was with the	Month	Day Ye

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THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

T	UNIFORM HAZARDOUS	1. Generator	s US EPA ID No.	M	anifest Documen	it Na.	2. Page 1		ment of Toxic Substa Sacramento, Califa on in the shaded are
3.	WASTE MANIFEST Generator's Name and Mailing Address	CADB	8 2 4 0 0	4 1 8 8	149.	111	7 1 of 1	is not rec	juired by Federal law
	PACIFIC GAS AND ELECTRIC 4625 HOLLIS STREET		EMERYVILLE I 4525 HOLLIS S	TREET	LTY	A. State	Manifest Documen	i Numberiy	97849
	Generator's Phone (610) 450-5727 Transporter I Campany Name	ATTN:	EMERYVILE JESUS LUNA 6. US EPA ID I	CA 94508	·		Generator's ID HVHQ3 Transparter's ID [R	[8 G D	8 7 9 8
	UNIVERSAL ENVIRONMENTAL		CADS	មី 1 3 16 1ភី ជ	2 12 17 12	ļ	porter's Phone		
	Iransporter 2 Campany Name	1.00	0. US EPA ID 1	lumber /		E. State	Transporter's ID (Re	(707)74 served.]	7-6639
	Designated Facility Name and Site Address	7118	TO. US EPA ID N	AISKA K	MARC	l.	Pacifity's ID	5-68	37.5
1	CHEMICAL WASTE MANAGEMEN 36251 OLD SKYLNE ROAD KETTLEMAN CITYCA 93238	NT, INC	familia language			H. Facilit	1/A/1700	064	61/17
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	"NON RCRA HAZARDOUS L	MARTE C	OI ID INCOM	er)	No.	Туре	Quantity	14. Unit Wt/Vol	I. Waste Number
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\\\\\ 5. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Special Handling Instructions and Additional Inf						#	d.	
- 1	1A: WEAR PERSONAL PRO								
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16. 0	SENERATOR'S CERTIFICATION. IS	ire that the conter proper condition	nts of this consignment of for transport by Hig	are fully and according to	rately described applicable inte	d above by rnational c	proper shipping no and national gover	ime and are o nment regula	tions,
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PACIFIC GAS AND ELECTRIC SITE:	BUNDUN BERYVILLE REPAR F		4 1 4	1 of 1 Manifest Document	Number 0076	1010
EMERYVILLE CA 94808	1825 HOLLIS STREET EMERYVILLE CA 8481		B. State G	enerator's iDs	3316	34918
5. Transporter I Company Name UNIVERSAL ENVIRONMENTAL	6. US EPA ID Number		C. State T	Y H Q 3	6 0 0 8 7 served.]	9 8
7. Transporter 2 Company Home	СИБВВЗЕК	5 2 2 7 2		orter's Phone	(707)747-6889	
SYARY Micking	8. US EPA ID Number	46207	F. Transpo	graporter's ID [Res	erved	0
Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC.	10. US EPA ID Number		G. Stafe F	- 7×16	267211	7
35261 OLD SKYLINE ROAD KETTLEMAN CITYCA \$3239		l he la la ≩me	H. Facility	's Phone		
11. US DOT Description (including Proper Shipping Name, Hazard	Class, and ID Number)	12. Cor	tainers Type	13. Total Quantity	14. Unit Wt/Vol 1. Wast	e Number
"NON RCRA HAZARDOUS WASTE, SO CONTAMINATED W/ <50 PPM PCB)	OLID, (DEBRIS				State	261
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OUT OF SERVICE DATE: 19/10/00	V/ <50 PPM PC8 ERG	• • • • • • • • • • • • • • • • • • •		t Codes for Waster		
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10/25

EMERGENCT OR SPILE, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

20. Facility Owner or Operator, Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed Typed Name

DO NOT WRITE BELOW THIS LINE.

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	WASTE MANIEECT					2. Page 1		on in the shaded are juired by Federal law
-	3. Generator's Name and Mailing Address		<u> </u>		A. State	Manifest Documen	t Number	
	PACIFIC GAS AND ELECTRIC 4525 HOLLIS STREET	SITE EMERYVILLE REL 4525 HOLLIS STR	PAIR FACIL	ity'	1		9	97849
	4. Generator's Phane (510) 450-5727	EMERYVILLE	CA \$4605		B. State	Generator's ID 🦠		
	5. Transporter 1 Company Name	ATTN: JESUS LUNA 6. US ERA'ID Num	nher	-		Transporter's ID [R		8 7 8 8
1	UNIVERSAL ENVIRONMENTAL						eservea.	***
╁	7. Aprisporter 2 Company Name	C A D B S		[2 [7]	<u> </u>	porter's Phone	(707)74	7-6598
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r	9. Designated Facility Name and Site Address	10. US EPA ID Num	iber	40	[]	Facility's ID	15-60	14-51
-	CHEMICAL WASTE MANAGEMENT,				K	MITOC	22614	61/17
	35251 OLD SKYLINE ROAD KETTLEMAN CITY CA 33239	ما ما جا يا حا	سا با سا	e. La lia la		y's Phone	·	
	11. US DOT Description (including Proper Shipping N	CATED			ontainers	13. Total	3002222 14. Unit	
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1	5. Special Handling Instructions and Additional Inform	nation		(40) s	<u>l</u> : 18		1 3 3 3	April 1
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DTSC 8022A (1/99) PA 8700—22 ISDE SENDS THIS COPY TO GENERATOR WITHIN IN TAIL FOR HIS BURN OF THE PROPERTY

A	roved OMB No. 2050-0039 [Expires 9-30-99] at or type. Found displaying the rove on elite (12-	1. Otterbier	US EPA ID No.	Manife	Degues	<u> </u>				Sacramento, Califo
$\lceil \lfloor$	UNIFORM HAZARDOUS WASTE MANIFEST	CADE		le 8	est Docume	nnt No.	4	l. Page 1		ian in the shaded ar quired by Federal la
	3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC 4525 HOLLIS STREET EMERYVILLE CASAFOR	SITE	EMERYVILLE REPAIR 4628 HOLLS STREE	R FACILIT	<u>, , , , , , , , , , , , , , , , , , ,</u>		<u>_</u>	it Document	Number	97849
	4. Generator's Phone (510) 450-57		EMERYVILLE CAS	4608			e Generote		ី. ខែព្រះ ស្រ	8 7 9 8
	5. Transporter 1 Company Name UNIVERSAL ENVIRONMENTAL	· · · · · · · · · · · · · · · · · · ·	6. US EPA ID Number			C. State	e Transpor	rter's ID (Re	served.]	0 1 2 0
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T	UNIFORM HAZARDOUS 1. Generator's US EPA ID No.	Manifest Docume	nt No.	2. Page I	Informat	Sacramento, Cal ion in the shaded
L	WASTE MANIFEST CADB 8 2 4 h in la le le	81419	20	7	is not rec	juired by Federal
	3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC 4525 HOLLIS STREET 4526 HOLLIS STREET 4526 HOLLIS STREET	CILITY	A. State	Manifest Documen	t Number 9	97849
	4. Generator's Phone (CA 94608 EMERYALLE CA 9460	18	B. State	Generator's ID		
1	5. Transporter 1 Company Name	 .	C 81-1	Transporter's ID [R	6 0 0	8 7 9 8
I	UNIVERSAL ENVIRONMENTAL				eserved.	
ı	7. Transporter 2 Company Name 8. US EPA ID Number	F 2 7 2	<u> </u>	porter's Phone	(707)74	7-6699
-5	l () l			ransporter's ID <u>[Re</u>	served.]	
4	9. Designated Facility Name and Site Address 10. US EPA ID Number			Facility's ID		
	CHEMICAL WASTE MANAGEMENT INC		J. Sidle	MITON	24	6//
	35251 OLD SKYUNE ROAD KETTLEMAN CITYCA 33238 C IA IT IN IN IN IA IA		H. Facilit	y's Phone	<u> </u>	<u> </u>
	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Cor	tainar.	10.7	800222	
		No.	Туре	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numb
	"NON RCRA HAZARDOUS WASTE, SOLID, (DEBRIS CONTAMINATED W/ <50 PPM PCB)					State 28 1
G E		001	C M	OKH 9 C	1 20	EPA/Other
N E	b.		34 171			NON RC
R				1 5 1 1		EPA/Other
A T				<u> </u>	<u> </u>	State
O R / I						4.1
"	d.					EPA/Other
						State
				1 1 1 1		EPA/Other
	J. Additional Descriptions for Materials Listed Above 1 LALK 65565 DEBRIS CONTAMINATED VV/ < 50 PPM PCB ERG	45.		ig Codes for Waste	s Listed Abo	ve
	OUT OF SERVICE DATE: 10/10/00	171	a. (25	b.	
			С.		d.	
-	15. Special Handling Instructions and Additional Information		<u> </u>			.5-41
	11.A: WEAR PERSONAL PROTECTIVE CLOTHING; 24HR ENE					
	If Tom a large quantity generator, I certify that I have a program in place to reduce the volume a practicable and that I have selected the practicable method of treatment, storage, or disposal curre and the environment; OR, if I am a small quantity generator, I have made a good faith effort to may available to me and that I can afford. Printed/Typed Name	and toxicity of was	te generate	d to the degree ! h	ove determi	ned to be econom
	JIM ADDIEGO	likkane			Mont	h Day
	Transporter Acknowledgement of Receipt of Materials	7 W -		- un		<u> </u>
	8. Transporter 2 Acknowledgement of Receipt of Materials	1		<u>`</u>	Mont	
F	rinted/Typed Name Signature	·			Mont	h Day
+,	9. Discrepancy Indication Space					
	3) Died 3364x Dorted in 11 c	A. in A	tiline	40/16	: 0,1 I - 1/2/2	
/ 2	O Facility Owner or Operator Cartification of receipt of hazardous materials covered by this manifest of	7 1 5 C 7 .	 	- 10 / L		

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1	UNIFORM HAZARDOUS	1. Generator	's US EPA ID No.	Manif	est Docume	nt No.	2. Page I	Information	Sacramento, Califo on in the shaded ar
1	WASTE MANIFEST	CADS	3 2 4 0 0 4 1	18 8	419	1213	g of g	is not req	wired by Federal la
	3. Generator's Name and Mailing Address PACIFIC GAS AND ELECTRIC 4525 HOLL'S STREET	SITE:	EMERYVILLE REPAIR 4625 HOLLIS STREE		ΓY	A. State	Manifest Document I	Yumber 9	97849
	EMERYVILLE CA 94808 4. Generator's Phone (510) 450-573	77 ΔΥΤ λΕ		94608		B. State	Generator's ID		
	5. Transporter I Company Name UNIVERSAL ENVIRONMENTAL		6. US EPA ID Number		<u> </u>	C. State	Transporter's ID [Res	6 0 0 erved.]	8 7 9 8
			CADS B B	6 5 2	2 7 2	D. Trans	porter's Phone	(707)74	7-5490
	7. Transporter 2 Campany Name		8. US EPA ID Number	•	1/	E. State	ransporter's ID (Kes		
-	9. Designated Facility Name and Site Address		10. US EPA ID Number		1_1_		rarter's Phone		
	CHEMICAL WASTE MANAGEME 35251 OLD SKYLNE ROAD	ENT, INC					MAHOOK	764	6117
	KETTLEMAN CITYCA 93239		CATOOO	6 4 6	1 1 7	H. Facilit		8002222	964
	11. US DOT Description (including Proper Shipp		d Class, and ID NumberJ		12. Cai	tainers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numbe
	" NON RCRA HAZARDOUS CONTAMINATED W <50	WASTE, S	OLID, (DEBRIS			1-	, , , , , , , , , , , , , , , , , , , ,		State 281
} E	ь.		**************************************		100	CM	Estimate リカルタ	×	FPA/OH-6
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2 -		_			1.				EPA/Other
5		٠.							State
X	<u></u>	· · · · · · · · · · · · · · · · · · ·		-					EPA/Other
		1							State
	. Additional Descriptions for Materials Listed Ab		r ta.						EPA/Other
	I MAKSSSO DEBRIS CONTA	WMATED I	W 450 PPM PCB 6	IRG - 17	79 .	K. Handlin a.	ng Cades for Wastes	Listed Abov	ve .
	OUT OF SERVICE DATE: 10	10/00			in and place		3	0.	<u> </u>
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<u> </u>	6 Caral Manufication (Control of	<u> </u>		Disker mileni		<u> </u>			
	5. Special Handling Instructions and Additional	Information				<u> </u>		<u> </u>	
	/				ENCY	RESPO	NSE 1-800-3	21-103	0 (ALLWAS
	11A: WEAR PERSONAL PRO	OTECTIVE	CLOTHING; 24HR	E ÆRG					
	/	OTECTIVE	CLOTHING; 24HR	<i>E</i> ₩ E RG					
	6. GENERATOR'S CERTIFICATION I hereby demarked, and labeled, and are in all respects If I am a large quantity generator, I certify it practicable and that I have selected the area.	Clare that the control in proper condition	CLOTHING; 24HR ents of this consignment are full on for transport by highway ac	y and accurated and tox	tely describ pplicable in icity of was	ed above by iternational	r proper shipping not and national govern and to the degree I ha	me and are ment regula	classified, packed, ations.
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10/36

CHROMALAB, INC.

Submission #: 2000-11-0255

Environmental Services (SDB)

P.G.& E TES To:

Test Method:

8015M

Attn.: Fred Flint

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB2 @16.0`

Lab Sample ID: 2000-11-0255-006

Project:

Emeryville UST

Received:

11/13/2000 15:35

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 10:52

QC-Batch:

2000/11/13-07.10

Matrix: Soil

Compound	Resuit	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	ND	2.0	mg/Kg	1.00	11/15/2000 12:16	
Surrogate(s) o-Terphenyl	81.2	60-130	%	1.00	11/15/2000 12:16	

CHROMALAB, INC.

Submission #: 2000-11-0255

Environmental Services (SDB)

To: P.G.& E TES Attn.: Fred Flint

Test Method:

8015M

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB3 @ 6.0°

Lab Sample ID: 2000-11-0255-007

Received:

11/13/2000 15:35

Project:

Emeryville UST

Extracted:

11/13/2000 18:53

Sampled:

11/13/2000 12:34

QC-Batch:

2000/11/13-07.10

Matrix:

Soil

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Mineral Oil	59	2.0	mg/Kg	1.00	11/15/2000 10:44	rd
Surrogate(s) o-Terphenyl	65.2	60-130	%	1.00	11/15/2000 10:44	