



REMEDIAL ACTION COMPLETION CERTIFICATION

**StID 5193 - 3074 Broadway, Oakland, CA
(1-500 gallon waste oil tank removed on September 21, 1994)**

September 7, 1999

Ms. Mary Block
4123 Canyon Road
Lafayette, CA 94549

Dear Ms. Block::

This letter confirms the completion of site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Ariu Levi, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Leroy Griffin, OFD
files-ec (block8)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

ENVIRONMENTAL
PROTECTION
99 SEP -2 PM 2:43

I. AGENCY INFORMATION

Date: August 12, 1999

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Bay Area Rentals**
Site facility address: **3074 Broadway, Oakland, CA 94611**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **5193**
URF filing date: **1/23/95** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Mary Block	4123 Canyon Road Lafayette, CA 94549	925/ 254-0673 284-2264

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	500	Waste Oil	Removed	9/21/94

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Leaking UST**
Site characterization complete? **YES**
Date approved by oversight agency: **5/25/99**
Monitoring Wells installed? **No, but three exploratory borings were advanced to collect soil and groundwater samples.**
Proper screened interval? **NA**
Highest GW depth below ground surface: **Groundwater was encountered at approximately 15' bgs.**
Flow direction: **SSE based on topography and groundwater flow direction at a nearby site (3093 Broadway, Oakland)**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Merritt Sands**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County** **Oakland Fire Dept**
1131 Harbor Bay Pkwy and 505 14th St, Ste 510
Alameda, CA 94502 **Oakland, CA 94612**

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1 UST	Disposed by Erickson, in Richmond, CA	9/21/94
Groundwater	< 100 gallons	Pumped and disposed by Erickson	9/21/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gas)	4.8	ND	ND	
TPH (Diesel)	ND	ND	ND	
TPH (M.O.)	NA	NA	700	
Benzene	ND	ND	6.9	
Toluene	.022	ND	ND	
Ethylbenzene	.022	ND	ND	
Xylenes	.094	ND	.6	
MTBE	NA	ND	ND	
TOG	240	ND	ND	
Other	HVOC SVOC	ND ⁵ see NOTE 6	ND ND	see NOTE 7 ND

- NOTE: 1 soil sample from center of pit at ~8' bgs (9/21/94)
 2 soil sample from investigative borings (3/99)
 3 grab water samples from investigative borings (3/99)
 4 no permanent groundwater monitoring wells installed
 5 none detected in soil sample from pit bottom, but sample from stockpiled soil contained 1.6ppm PCE
 6 soil sample with 1.6ppm di-N-Butyl Phthalate, but method blank contained 0.08ppm of same
 7 grab water sample with 3.3ppb CCl₄

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____

Does corrective action protect public health for current land use? **YES**

Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **NA**

List enforcement actions taken: **NA**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu**

Title: **Haz Mat Specialist**

Signature: 

Date: **8/20/99**

Reviewed by

Name: **Amir Gholami**


Title: **Haz Mat Specialist**

Signature: 

Date: **8/12/99**

Name: **Thomas Peacock**

Title: **Supervisor**

Signature: 

Date: **8-18-99**

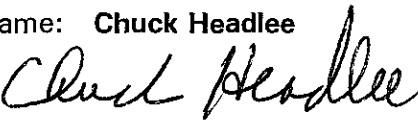
VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWQCB Staff Name: **Chuck Headlee**

Title: **AEG**

Signature: 

Date: **8/31/99**

VII. ADDITIONAL COMMENTS, DATA, ETC.

In September 1994 a 500 gallon waste oil UST was removed from beneath the sidewalk on Brook Street, for the property at 3074 Broadway. Numerous holes were noted on the bottom and ends of the UST. Groundwater in the pit appeared to be from a leaking sewer line. A moderate to strong odor emanated from the pit. The pit measured 8 x 6 x 6' deep. The pit walls were rinsed with water. After water was pumped from the pit, the excavation was extended two additional feet in depth. Groundwater did not recharge. A soil sample (Center Pit) was collected at approximately 8' bgs and analyzed for TPHg, TPHd, TOG, BTEX, 5 metals, HVOCs and SVOCs. The sample contained unremarkable levels of petroleum hydrocarbon constituents. A maximum of 240ppm TOG was identified. The only SVOC in the soil sample was 1.6ppm di N Butyl Phthalate. Metal concentrations were within acceptable geogenic levels. Higher levels of TPHg, TPHd, TOG, benzene and PCE and some SVOCs were identified in the 2-into-1 composite soil from the stockpile. (See Figs 1, 2 and Tables 1 through 5)

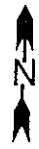
In March 1999 three investigative borings (IB-1 through IB-3) were advanced with direct-push technology to delineate the extent of soil and possible groundwater contamination at the site. The borings were advanced south and southeast of the former tank excavation, in the assumed downgradient groundwater flow direction (based on topography, location of Lake Merritt, and groundwater flow direction at 3093 Broadway). Boring IB-1 was continuously logged. Two to four soil samples and one grab groundwater sample were collected from each borehole. All soil and water samples were analyzed for TPHg, BTEX, MTBE, TPHd/mo, HVOCs, and SVOCs. Laboratory analytical results did not indicate significant hydrocarbon impact to subsurface soils or groundwater in the vicinity of the former waste oil tank. (See Fig 3, Table 6)

In summary, case closure is recommended because:

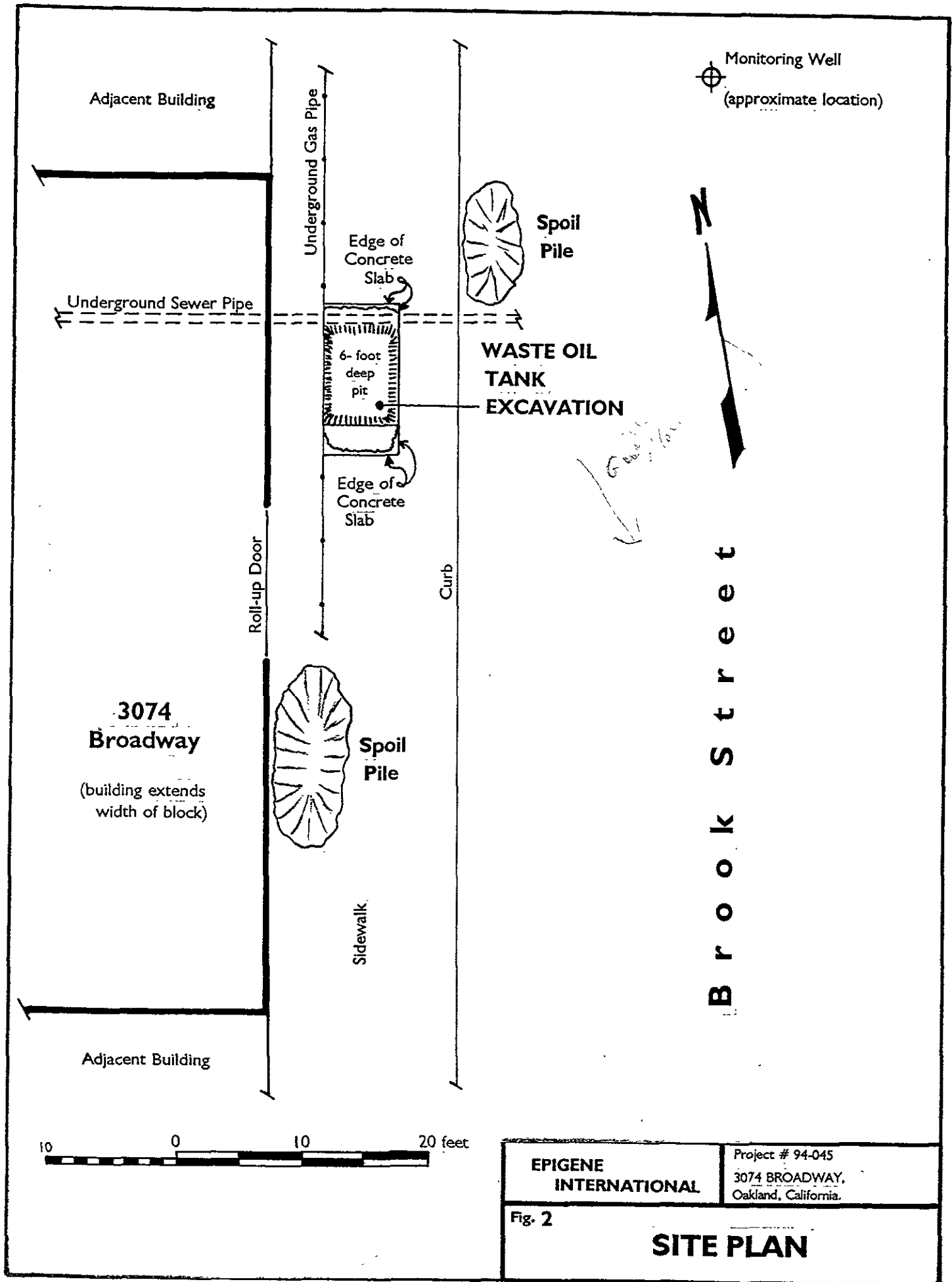
- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved hydrocarbon plume is not migrating;
- no preferential pathways exist at the site;
- no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.



TOPOGRAPHY FROM USGS OAKLAND, WEST
7.5-MINUTE QUADRANGLE MAP, (TOPO! 1997)



DESIGNED BY:	CHECKED BY:	SITE VICINITY MAP	DATE: 02/22/99	FIGURE: 1
DRAWN BY: JG	SCALE: 1:24,000		GRIBI Associates	
PROJECT NO: 151-01-01		3074 BROADWAY UST SITE OAKLAND, CALIFORNIA		



EPIGENE INTERNATIONAL	Project # 94-045 3074 BROADWAY, Oakland, California.
Fig. 2 <h2 style="text-align: center;">SITE PLAN</h2>	

TABLE 1
ppm

Sample ID	TPHG	B	T	E	X	TPHD	TOG
Center Pit	4.8	ND	0.022	0.022	0.094	ND	240
Soils 1&2	550	1.6	13	7.1	44	3100	54000

ND=Not Detected

CHROMALAB, INC.

Table 2

Environmental Services (SDB)

September 28, 1994

Submission #: 9409353

MCCAMPBELL ANALYTICAL, INC.
Atten: Ed Hamilton

Sampled: September 21, 1994
Extracted: September 27, 1994

Submitted: September 23, 1994
Analyzed: September 27, 1994

Project: E/BLOCK UST
Project #: 2957
Client Sample ID: CENTER PIT

Method: EPA 3550/8270
Matrix: SOIL
Dilution Factor: None

COMPOUND NAME	Reporting		Spike Recovery
	Sample mg/kg	Limit mg/kg	
PHENOL	N.D.	0.05	70%
BIS(2-CHLOROETHYL) ETHER	N.D.	0.05	-----
2-CHLOROPHENOL	N.D.	0.05	84%
1,3-DICHLOROBENZENE	N.D.	0.05	-----
1,4-DICHLOROBENZENE	N.D.	0.05	-----
BENZYL ALCOHOL	N.D.	0.10	-----
1,2-DICHLOROBENZENE	N.D.	0.05	-----
2-METHYLPHENOL	N.D.	0.05	-----
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.05	-----
4-METHYLPHENOL	N.D.	0.05	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.05	72%
HEXACHLOROETHANE	N.D.	0.05	-----
NITROBENZENE	N.D.	0.05	-----
ISOPHORONE	N.D.	0.05	-----
2-NITROPHENOL	N.D.	0.05	-----
2,4-DIMETHYLPHENOL	N.D.	0.05	-----
BENZOIC ACID	N.D.	0.25	-----
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.05	-----
2,4-DICHLOROPHENOL	N.D.	0.05	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.05	102%
NAPHTHALENE	N.D.	0.05	-----
4-CHLOROANILINE	N.D.	0.10	-----
HEXACHLOROBUTADIENE	N.D.	0.05	-----
4-CHLORO-3-METHYLPHENOL	N.D.	0.10	83%
2-METHYLNAPHTHALENE	N.D.	0.05	-----
HEXACHLOROCYCLOPENTADIENE	N.D.	0.05	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.05	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.05	-----
2-CHLORONAPHTHALENE	N.D.	0.05	-----
2-NITROANILINE	N.D.	0.25	-----
DIMETHYL PHTHALATE	N.D.	0.05	-----
ACENAPHTHYLENE	N.D.	0.05	-----
3-NITROANILINE	N.D.	0.25	-----
ACENAPHTHENE	N.D.	0.05	97%
2,4-DINITROPHENOL	N.D.	0.25	-----
4-NITROPHENOL	N.D.	0.25	-----
DIBENZOFURAN	N.D.	0.05	-----

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CHROMALAB, INC.

Environmental Services (SDB)

Cont. Table 2

Page 2

Submission #: 9409353

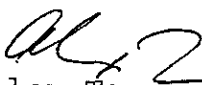
Project: E/BLOCK UST
Project #: 2957
Client Sample ID: CENTER PIT
Method: EPA 3550/8270


Matrix: SOIL
Reporting

COMPOUND NAME	Sample mg/kg	Limit mg/kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.05	-----
2,6-DINITROTOLUENE	N.D.	0.05	69%
DIETHYL PHTHALATE	N.D.	0.05	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.05	-----
FLUORENE	N.D.	0.05	-----
4-NITROANILINE	N.D.	0.25	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.25	-----
N-NITROSODIPHENYLAMINE	N.D.	0.05	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.05	-----
HEXACHLOROBENZENE	N.D.	0.05	-----
PENTACHLOROPHENOL	N.D.	0.25	60%
PHENANTHRENE	N.D.	0.05	-----
ANTHRACENE	N.D.	0.05	-----
DI-N-BUTYL PHTHALATE	1.6*	0.05	-----
FLUORANTHENE	N.D.	0.05	-----
PYRENE	N.D.	0.05	91%
BUTYLBENZYLPHTHALATE	N.D.	0.05	-----
3,3'-DICHLOROBENZIDINE	N.D.	0.10	-----
BENZO (A) ANTHRACENE	N.D.	0.05	-----
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.05	-----
CHRYSENE	N.D.	0.05	-----
DI-N-OCTYLPHTHALATE	N.D.	0.05	-----
BENZO (B) FLUORANTHENE	N.D.	0.05	-----
BENZO (K) FLUORANTHENE	N.D.	0.05	-----
BENZO (A) PYRENE	N.D.	0.05	-----
INDENO (1,2,3 C,D) PYRENE	N.D.	0.05	-----
DIBENZO (A,H) ANTHRACENE	N.D.	0.05	-----
BENZO (G,H,I) PERYLENE	N.D.	0.05	-----

* This analyte was present in the method blank at a concentration of 0.08 mg/Kg.

ChromaLab, Inc.


Alex Tam
Analytical Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Table 3

Environmental Services (SDB)

September 28, 1994

Submission #: 9409353

MCCAMPBELL ANALYTICAL, INC.
Atten: Ed Hamilton

Sampled: September 21, 1994
Extracted: September 27, 1994

Submitted: September 23, 1994
Analyzed: September 27, 1994

Project: E/BLOCK UST
Project #: 2957
Client Sample ID: SOIL 1+2

Method: EPA 3550/8270
Matrix: SOIL
Dilution Factor: 1:50

COMPOUND NAME	Sample mg/kg	Reporting	Spike Recovery
		Limit mg/kg	
PHENOL	N.D.	2.5	70%
BIS(2-CHLOROETHYL) ETHER	N.D.	2.5	-----
2-CHLOROPHENOL	N.D.	2.5	84%
1,3-DICHLOROBENZENE	N.D.	2.5	-----
1,4-DICHLOROBENZENE	N.D.	2.5	-----
BENZYL ALCOHOL	N.D.	5.0	-----
1,2-DICHLOROBENZENE	N.D.	2.5	-----
2-METHYLPHENOL	N.D.	2.5	-----
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	2.5	-----
4-METHYLPHENOL	N.D.	2.5	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	2.5	72%
HEXACHLOROETHANE	N.D.	2.5	-----
NITROBENZENE	N.D.	2.5	-----
ISOPHORONE	N.D.	2.5	-----
2-NITROPHENOL	N.D.	2.5	-----
2,4-DIMETHYLPHENOL	N.D.	2.5	-----
BENZOIC ACID	N.D.	13	-----
BIS(2-CHLOROETHOXY) METHANE	N.D.	2.5	-----
2,4-DICHLOROPHENOL	N.D.	2.5	-----
1,2,4-TRICHLOROBENZENE	N.D.	2.5	102%
NAPHTHALENE	14	2.5	-----
4-CHLOROANILINE	N.D.	5.0	-----
HEXACHLOROBUTADIENE	N.D.	2.5	-----
4-CHLORO-3-METHYLPHENOL	N.D.	5.0	83%
2-METHYLNAPHTHALENE	19	2.5	-----
HEXACHLOROCYCLOPENTADIENE	N.D.	2.5	-----
2,4,6-TRICHLOROPHENOL	N.D.	2.5	-----
2,4,5-TRICHLOROPHENOL	N.D.	2.5	-----
2-CHLORONAPHTHALENE	N.D.	2.5	-----
2-NITROANILINE	N.D.	13	-----
DIMETHYL PHTHALATE	N.D.	2.5	-----
ACENAPHTHYLENE	N.D.	2.5	-----
3-NITROANILINE	N.D.	13	-----
ACENAPHTHENE	N.D.	2.5	97%
2,4-DINITROPHENOL	N.D.	13	-----
4-NITROPHENOL	N.D.	13	-----
DIBENZOFURAN	N.D.	2.5	-----

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CHROMALAB, INC.

Environmental Services (SDB)

cont. Table 3

Page 2

Submission #: 9409353

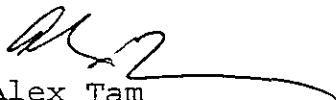
Project: E/BLOCK UST
Project #: 2957
Client Sample ID: SOIL 1+2
Method: EPA 3550/8270


Matrix: SOIL
Reporting

COMPOUND NAME	Sample mg/kg	Limit mg/kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	2.5	-----
2,6-DINITROTOLUENE	N.D.	2.5	69%
DIETHYL PHTHALATE	N.D.	2.5	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	2.5	-----
FLUORENE	N.D.	2.5	-----
4-NITROANILINE	N.D.	13	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	13	-----
N-NITROSODIPHENYLAMINE	N.D.	2.5	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	2.5	-----
HEXACHLOROBENZENE	N.D.	2.5	-----
PENTACHLOROPHENOL	N.D.	13	60%
PHENANTHRENE	N.D.	2.5	-----
ANTHRACENE	N.D.	2.5	-----
DI-N-BUTYL PHTHALATE	3.9*	2.5	-----
FLUORANTHENE	N.D.	2.5	-----
PYRENE	2.6	2.5	91%
BUTYLBENZYLPHTHALATE	N.D.	2.5	-----
3,3'-DICHLOROBENZIDINE	N.D.	5.0	-----
BENZO (A) ANTHRACENE	N.D.	2.5	-----
BIS (2-ETHYLHEXYL) PHTHALATE	12	2.5	-----
CHRYSENE	N.D.	2.5	-----
DI-N-OCTYLPHTHALATE	N.D.	2.5	-----
BENZO (B) FLUORANTHENE	N.D.	2.5	-----
BENZO (K) FLUORANTHENE	N.D.	2.5	-----
BENZO (A) PYRENE	N.D.	2.5	-----
INDENO (1,2,3 C,D) PYRENE	N.D.	2.5	-----
DIBENZO (A,H) ANTHRACENE	N.D.	2.5	-----
BENZO (G,H,I) PERYLENE	N.D.	2.5	-----

* This analyte was present in the method blank at a concentration of 0.08 mg/Kg.

ChromaLab, Inc.


Alex Tam
Analytical Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

Table 4

October 6, 1994

Submission #: 9409415

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E/BLOCKUST

Project#: 2957

Received: September 23, 1994

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.

Sample ID: CENTER PIT

Spl#: 64454

Matrix: SOIL

Extracted: October 5, 1994

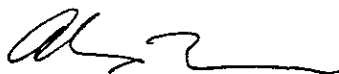
Sampled: September 21, 1994

Run#: 4124

Analyzed: October 5, 1994

Method:

<u>ANALYTE</u>	<u>RESULT</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>RESULT</u> <u>(%)</u>
AROCLOR 1016	N.D.	0.1	N.D.	--
AROCLOR 1221	N.D.	0.1	N.D.	--
AROCLOR 1232	N.D.	0.1	N.D.	--
AROCLOR 1242	N.D.	0.1	N.D.	--
AROCLOR 1248	N.D.	0.1	N.D.	--
AROCLOR 1254	N.D.	0.1	N.D.	--
AROCLOR 1260	N.D.	0.1	N.D.	104



Alex Tam
Chemist



Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

Cont. Table 4

October 6, 1994

Submission #: 9409415

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E/BLOCKUST

Project#: 2957

Received: September 23, 1994

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.

Sample ID: SOIL 1&2

Spl#: 64455

Matrix: SOIL

Extracted: October 5, 1994


Sampled: September 21, 1994


Run#: 4124

Analyzed: October 5, 1994

Method:

<u>ANALYTE</u>	<u>RESULT</u> (mg/Kg)	<u>REPORTING</u> <u>LIMIT</u> (mg/Kg)	<u>BLANK</u> <u>RESULT</u> (mg/Kg)	<u>BLANK SPIKE</u> <u>RESULT</u> (%)
AROCLOR 1016	N.D.	1	N.D.	--
AROCLOR 1221	N.D.	1	N.D.	--
AROCLOR 1232	N.D.	1	N.D.	--
AROCLOR 1242	N.D.	1	N.D.	--
AROCLOR 1248	N.D.	1	N.D.	--
AROCLOR 1254	N.D.	1	N.D.	--
AROCLOR 1260	N.D.	1	N.D.	104


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

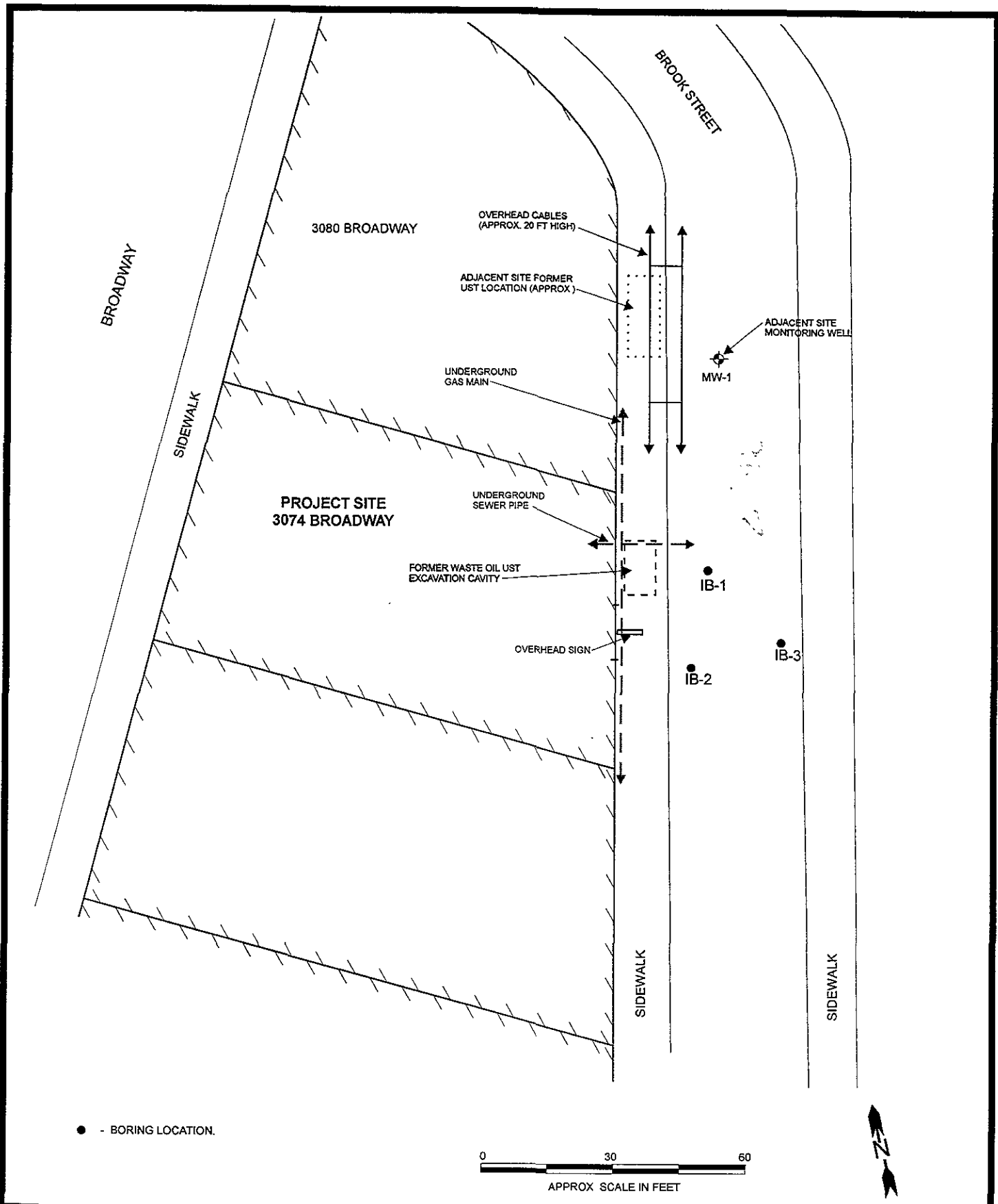
McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622
----------------------------	--

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-095; Block UST	Date Sampled: 09/21/94
		Date Received: 09/22/94
	Client Contact: John Alt	Date Extracted: 09/23/94
	Client P.O:	Date Analyzed: 09/23/94

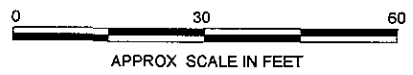
LUFT Metals*

EPA analytical methods				239.2,6010 ⁺	213.1,6010	218.1,6010	249.1,6010	289.1,6010
Lab ID	Client ID	Matrix	Extraction ^o	Lead [*]	Cadmium [*]	Chromium [*]	Nickel [*]	Zinc [*]
41168	Center Pit	S	TTLIC	8.7	ND	29	36	24
41169	Soil 1&2	S	TTLIC	29	ND	26	42	79
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLIC	0.005mg/L	0.05	0.25	0.10	0.05	
	S	TTLIC	3.0 mg/kg	1.0	1.0	2.0	1.0	
	—	STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
 + Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
 o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLIC), 3040(organic matrices, TTLIC), 3050(solids, TTLIC); STLC from CA Title 22



● - BORING LOCATION.



DESIGNED BY:	CHECKED BY:	BORING LOCATIONS	DATE: 5/7/99	FIGURE: 2
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 151-01-01		3074 BROADWAY UST SITE OAKLAND, CALIFORNIA		

Table 6
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 3074 Broadway UST Site

Sample ID	Sample Depth	Concentration (ppm)										
		TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	TOG	VOCs	SVOCs
Soil Samples												
IB-1.1	9.5 ft	--	--	--	--	--	--	--	--	<25	--	--
IB-1.2	16.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<25	<0.0050 ¹	<0.67 ²
IB-1.3	22.0 ft	--	--	--	--	--	--	--	--	<25	--	--
IB-1.4	25.5 ft	--	--	--	--	--	--	--	--	<25	--	--
IB-2.1	10.5 ft	--	--	--	--	--	--	--	--	<25	--	--
IB-2.2	20.5 ft	<2.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<25	<0.0050 ¹	<0.67 ²
IB-3.1	10.5 ft	--	--	--	--	--	--	--	--	<25	--	--
IB-3.2	16.0 ft	<2.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<25	<0.0050 ¹	<0.67 ²
IB-3.3	21.0 ft	--	--	--	--	--	--	--	--	<25	--	--
Groundwater Samples												
IB-1W	--	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	<5	0.0101 ³	<0.010 ²
IB-2W	--	<0.050	0.700	<0.050	0.0069	<0.00050	<0.00050	0.00067	<0.0050	<5	0.0025 ⁴	<0.010 ²
IB-3W	--	<0.150	<0.300	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	<5	0.0027 ⁴	<0.010 ²

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethyl benzene
 X = Xylene
 MTBE = Methyl-t-Butyl Ether
 TOG = Total Oil and Grease

VOC = Volatile Organic Compound
 SVOC = Semi-Volatile Organic Compound
 "--" = Not analyzed for this analyte
 <1.0 = Not detected above the expressed value
 1=Sample contained no detectable levels for all 28 VOC analytes.
 2=Sample contained no detectable levels for all 69 parameters SVOC analytes.
 3=Concentration derived from adding 0.0035 ppm Methylene Chloride, 0.0033 ppm Chloroform and 0.0033 ppm Carbon Tetrachloride. Methylene Chloride was detected in method blank at 0.0051 ppm. Other 25 parameters were non-detectable.
 4=Concentration derived from the single detection of Methylene Chloride. Methylene Chloride was detected in method blank at 0.0051 ppm. Other 27 parameters were non-detectable.

LOG OF WELL BORING

SHEET _1_ OF _2_

BORING NUMBER : **IB-1**

BORING LOCATION: EAST SIDE OF UST

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME:

3074 BROADWAY UST SITE

PROJECT NUMBER: 151-01-01

START DATE: 3/17/99

COMPLETION DATE: 3/17/99

DRILLING CONTRACTOR : GREGG DRILLING

DRILLING METHOD: GEOPROBE

BOREHOLE DIAMETER: 2-1/2 INCHES

BORING TOTAL DEPTH: 32 FEET

COMPLETION METHOD: GROUTED

GRIBI Associates

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
							0 - 2.0 Ft. Asphalt & base rock.	
5						ML	2.0 - 7.0 Ft. Red Brown SILT, soft, firm, No Hydrocarbon odor.	
10	IB-1.1	9.5 FT				ML	7.0 - 9.5 Ft. Red Brown gravelly SILT, large red clasts, moist, no hydrocarbon odor or staining, questionable hydrocarbon odor at 9.5 feet.	
15	IB-1.2	16.5 FT				CL	9.5 - 19.5 Ft. Olive grey green CLAY, locally silty, occasionally sandy, firm to stiff, moist, no hydrocarbon odors or staining.	
20	IB-1.3	22.0 FT				SC	19.5 - 22.0 Ft. Olive grey clayey SAND, very fine to fine, silty, soft to firm, moist to wet, no hydrocarbon odor or staining.	
25	IB-1.4	25.5 FT						

LOG OF WELL BORING

SHEET 1 OF 1

BORING NUMBER: **IB-3**

BORING LOCATION:
WEST OF UST

GRIBI Associates

DRILLING CONTRACTOR: GREGG DRILLING

BORING TYPE: INVESTIGATIVE BORING

DRILLING METHOD: GEOPROBE

PROJECT NAME:

BOREHOLE DIAMETER: 2-1/2 INCHES

3074 BROADWAY UST SITE

START DATE: 3/17/99

BORING TOTAL DEPTH: 22 FEET

PROJECT NUMBER: 151-01-01

COMPLETION DATE: 3/17/99

COMPLETION METHOD: GROUTED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
5							NOTE: SAMPLED USING DISCRETE SAMPLER DUE TO EXPANSIVE CLAYS	
10	IB-3.1	10.5 FT				SC	10.5 Ft. Red brown clayey SAND, vfn-occ cse, some gravel clasts, moist, friable-firm no hydrocarbon odor or staining.	
15	IB-3.2	16.0 FT				SP	15.0 - 16.0 Ft. Brown to dark grey gravelly SAND, loose, fn-cse, slightly clayey, wet, dark hydrocarbon staining, no hydrocarbon odor or staining.	
20	IB-3.3	21.0 FT				SM	20.0 - 22.0 Ft. Buff-brown SAND, fine to very fine, loose, fine to course, silty, friable, moist-wet, no hydrocarbon odor or staining.	
25							TOTAL DEPTH: 22 FEET GROUNDWATER DEPTH: APPROX. 15 FEET	