

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

October 29, 1999

Mr. Larry Brown
Interstate Brands Company
1324 Arden Way
Sacramento, California 95815

Mr. John Protoppapas
Wayne Avenue Partners
1155 5th Street, Suite 101
Oakland, California 94607

**RE: Fuel Leak Site Case Closure – Former Continental Baking Company (STID # 6400)
1010 46th Street, Emeryville, California 94608**

Dear Messrs. Brown and Protoppapas:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37 [h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health Services, Local Oversight Program is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

- Eighty nine parts per billion (ppb) Total Petroleum Hydrocarbon (TPH) as Diesel and 0.81 ppb xylene remain in the groundwater beneath the site.
- Prior to any construction activities at the site, a risk management plan must be submitted and approved by this agency.

If you have any questions, please contact me at (510) 567-6780. Thank you.

Sincerely,

Susan L. Hugo, Hazardous Materials Specialist

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

c: George Warren, Emeryville Fire Department, 2333 Powell Street, Emeryville, CA 94608
Claudia Cappio / Ignacio Dayrit, City of Emeryville, 2200 Powell St., 12th Floor
Emeryville, CA 94608

SH / files



ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
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REMEDIAL ACTION COMPLETION CERTIFICATION

October 29, 1999

Mr. Larry Brown
Interstate Brands Company
1324 Arden Way
Sacramento, California 95815

Mr. John Protopapas
Wayne Avenue Partners
1155 5th Street, Suite 101
Oakland, California 94607

**RE: STID # 6400 Former Continental Baking Company
1010 46th Street, Emeryville, California 94608**

Dear Messrs. Brown and Protopapas:

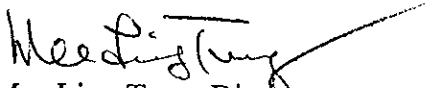
This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the 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 Section 2721 (e) of Title 23 of the California Code of Regulations.

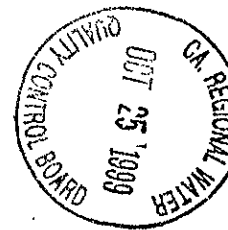
Please contact our office if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung, Director

c: Chuck Headlee, San Francisco Bay RWQCB
Dave Deaner, SWRCB, UST Cleanup Fund Program (with enclosure)
George Warren, Emeryville Fire Department, 2333 Powell Street, Emeryville, CA 94608
Ignacio Dayrit, Emeryville Redevelopment Agency, 2200 Powell St, 12th Floor, Emeryville, CA 94608
SH / file

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program



I. AGENCY INFORMATION

Agency Name: Alameda County-HazMat
 City/State/Zip: Alameda, CA 94502
 Responsible Staff Person: Susan L. Hugo

Date: October 20, 1999
 Address: 1131 Harbor Bay Parkway
 Phone: (510) 567-6700
 Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Former Continental Baking Company
 Site Facility Address: 1010 46th Street, Emeryville, CA 94608
 RB LUSTIS Case No: N/A
 URF Filing Date: 9/24/93

Local Case No./LOP Case No. 6400
 SWEEPS No. N/A

Responsible Parties:

Interstate Brands Company
 Attn: Mr. Larry Brown

Address:

1324 Arden Way, Sacramento, CA 95815

Phone Numbers:

(916) 561-0127

Wayne Avenue Partners
 Attn: Mr. John Protopapas

1155 5th Street, Suite 101, Oakland, CA 94607

(510) 452-2944

<u>Tank No:</u>	<u>Size in gal:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	Diesel	Removed	12/22/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
 Date Approved by oversight agency: 3/15/94
 Number: NA
 Highest GW depth below ground surface: (6.37 feet from MW-2 of adjacent site, see comments)
 Lowest depth: (13.74 feet from MW-3 of adjacent site)
 Flow direction: Southwest based on adjacent site
 Are drinking water wells affected: No
 Is surface water affected?: No
 Off-site beneficial use impacts (address /location): Unknown
 Where is report (s) filed?: Alameda County, 1131 Harbor Bay Parkway, Alameda, CA 94502

Site characterization complete: Yes
 Monitoring wells installed: No
 Properly screened interval?: NA
 Most sensitive current use: Commercial
 Aquifer name: NA
 Nearest affected SW name: NA
 Report (s) on file?: Yes

Treatment and Disposal of Affected Materials:

<u>Materials</u>	<u>Amount (Include units)</u>	<u>Action (Treatment /or Disposal with Destination)</u>	<u>Date</u>
Tanks	1 UST	Erickson, Inc. - 255 Parr Blvd., Richmond, CA	12/22/92
Soil	100 cubic yards	May have been used to backfill excavation	

Contaminant	Soil (ppm)		Water (ppb)	
	<u>Before*</u>	<u>After**</u>	<u>Before</u>	<u>After***</u>
	TPH (diesel)	ND	7.5	-
TPH (kerosene)	ND	ND	-	ND
Benzene	ND	ND	-	ND
Ethyl benzene	ND	ND	-	ND
Toluene	ND	ND	-	ND
Xylene	ND	ND	-	(0.81)
MTBE	-	(ND<0.005)	-	ND (<0.5)

*Soil samples (FTP-1 & FTP-2) collected from the bottom of the excavation following the UST removal in 1992.
 **Soil sample collected from boring B2 @ 10.7 feet to 11.2 feet on 8/10/99.
 ***Grab water sample collected from boring B-3 on 8/10/99. Xylene at 0.81 ppb found in grab water sample collected from boring B2 on 8/10/99.

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program
Page 2 of 3

IV. CLOSURE

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

Undetermined

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

Undetermined

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

Site management requirements: **NA**

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

Monitoring wells decommissioned: **NA**

Number Decommissioned: **NA** Number Retained: **NA**

List enforcement actions taken: **None**

List enforcement action rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Susan L. Hugo Title: Hazardous Materials Specialist

Signature: *Susan L. Hugo* Date: 10/25/99

Reviewed by:

Name: Thomas Peacock Title: Manager, LOP

Signature: *Thomas Peacock* Date: 10-25-99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 10/25/99 RB Response: *Concur*

RWQCB Staff Name: Chuck Headlee Title: Associate Engineering Geologist

Signature: *Chuck Headlee* Date: 10/25/99

VII. ADDITIONAL COMMENTS

The subject site is located in Emeryville, California in an area of mixed light-industrial and residential buildings. This property (the "Site") used to be a part of the Interstate Brands Corporation (IBC), former Continental Brands Company. The IBC (also referred to as adjacent site in this summary report) located at the intersection of 53rd Street and Adeline Street is a bakery thrift store and distribution center, with a maintenance garage. Three underground storage tanks (USTs) were removed at the site in 1992. At that time, one 10,000 gallon single-walled standby fuel storage tank was also removed in the parking lot behind the former bakery building found at the "Site". The IBC site is still an active LOP case and some of the historical data collected for the IBC site was used for the "Site".

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program
Page 3 of 3

The "Site" includes a vacant building formerly occupied by San Francisco Herb and Natural Food Company (a tea company) and previously used by IBC as a bakery.

Soil samples (FTP-1 and FTP-2) collected at 14 feet below ground surface (BGS) from each end of the former UST following its removal in 1992 showed no detectable level of Total Petroleum Hydrocarbon (TPH) as diesel, TPH as kerosene, TPH as oil & grease, benzene, toluene, ethyl benzene, xylene. Groundwater was not present at the bottom of the excavation following the removal of the UST. The former tank appeared to be in good shape (no visible holes). In addition, no odors or evidence of soil staining were observed in the excavation.

As part of the closure process, additional soil and shallow groundwater investigation was conducted on 8/10/99 which included evaluating the presence of methyl tertiary butyl ether (MTBE) in soil and /or groundwater beneath the "Site". Four borings were drilled (see figure 3) and they are cited relative to the UST; B-2 drilled in the former tank area, B-1 (upgradient boring), B-3 (downgradient boring), and B-4 (cross gradient boring). Grab water samples were collected from all borings and soil samples were collected from B-2 , B-3 & B-4 (see Table 3).Result of the soil samples showed no detectable concentration of petroleum hydrocarbon with the exception of TPH diesel detected at very low concentration (3.4 ppm to 7.5 ppm) in borings B-2 and B-3 at 10.7' to 12.4 ' bgs. Grab water samples were non detect with the exception of very low concentration of TPH diesel (66 ppb to 89 ppb) found in borings B-2 and B-3 and xylene at 0.81 ppb in B-2. MTBE was not detected in soil and groundwater.

IBC, the adjacent site, have three groundwater monitoring wells (MW-1 to MW-3) related to the investigation associated with the three cluster USTs removed in 1992. The groundwater flow direction (southwesterly) established at the IBC was used for the "Site".

No further investigations related to the standby fuel UST removed at the site is recommended since the site appears to meet the San Francisco Bay RWQCB's definition of a "low risk" soil and groundwater case:

- 1) Aggressive source removal has occurred at the site. The tank has been removed.
- 2) The extent of soil and groundwater contamination has been adequately characterized.
- 3) Soil and / or groundwater data collected for the site showed no significant impact to groundwater.
- 4) No water wells, deeper drinking water wells, surface water or other sensitive receptors are likely to be impacted.
- 5) The site does not appear to present a significant risk to human health and the environment.
- 6) A risk management plan is required to manage any residual contamination left at the site and will include notifying ACDEH and City Building and Planning Department prior to any construction, redevelopment and /or change in land use.

TABLE 1

**ANALYTICAL RESULTS FOR SAMPLES COLLECTED IN SUPPORT OF THE UNDERGROUND STORAGE TANK CLOSURE
AT THE CONTINENTAL BAKING COMPANY FACILITY
1010 46TH STREET
OAKLAND, CALIFORNIA
(Page 1 of 2)**

Sample Location	Sample Depth (feet)	Collection Date	Modified EPA Method 8015/8020								418.1	8010	8270	7421
			TPH-G	TPH-D	TPH-K	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TRPH	Volatile Organics	Semi-Vol Organics	Total Lead
SOIL SAMPLES RESULTS (mg/kg, ppm)														
FTP-1	14	12/22/92	-	< 1.00	< 1.00	< 10.0	< 0.0062	< 0.0062	< 0.0062	< 0.0062	-	-	-	-
FTP-2	14	12/22/92	-	< 1.00	< 1.00	< 10.0	< 0.0062	< 0.0062	< 0.0062	< 0.0062	-	-	-	-
TP-1	11.5	12/22/92	<1.0	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	4.8
TP-2	13	12/22/92	<1.0	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	5.1
TP-3	9	12/22/92	<1.0	< 4.5 ¹	< 1.00	< 10.0	< 0.005	< 0.005	< 0.005	< 0.005	34 ²	< 0.04	ND ²	5.0 ³
TP-4	13	12/22/92	-	< 1.00	< 1.00	< 10.0	< 0.0062	< 0.0062	< 0.0062	< 0.0062	-	-	-	-
TP-5	11	12/22/92	-	< 1.00	120 ³	58 ³	< 0.0062	0.014	0.092	0.034	-	-	-	-
D-1	4	12/22/92	<70 ⁴	790 ⁵	< 4.0	< 40	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	-
WATER SAMPLE RESULTS (mg/L, ppm)														
W-1	-	12/22/92	2.96 ³	< 0.05	< 0.05	< 0.5	0.54	0.42	0.02	0.22	-	-	-	-

See following page for abbreviations and explanation of footnotes.

TABLE 1

**ANALYTICAL RESULTS FOR SAMPLES COLLECTED IN SUPPORT OF THE UNDERGROUND STORAGE TANK CLOSURE
AT THE CONTINENTAL BAKING COMPANY FACILITY
1010 46TH STREET
OAKLAND, CALIFORNIA
(Page 2 of 2)**

NOTES:

- TPH-G Total Petroleum Hydrocarbons Quantified as Gasoline
TPH-D Total Petroleum Hydrocarbons Quantified as Diesel
TPH-K Total Petroleum Hydrocarbons Quantified as Kerosene
TPH-O Total Petroleum Hydrocarbons Quantified as Oil
TRPH Total Recoverable Petroleum Hydrocarbons
- Denotes that the sample was not analyzed for the noted parameter
- 1 Laboratory reported 4.5 mg/kg of "unknown hydrocarbon." WCC reviewed the chromatogram and the reported quantity is due to a single response peak. Although it occurred in the diesel range, the pattern did not conform to the diesel pattern. The detection limit has been adjusted to reflect the presence of the "unknown hydrocarbon".
- 2 All analytes were not detected at or above their respective reporting limits ranging from 0.33 to 1.6 mg/kg.
- 3 Sample was also analyzed for select four metals by EPA 6010: [Cd] = <1.0 mg/kg; [Cr] = 31.0 mg/kg; [Ni] = 25 mg/kg; [Zn] = 97 mg/kg
- 4 The laboratory reported <4 mg/kg gasoline. However, the laboratory also reported 70 mg/kg of "unknown hydrocarbon." WCC reviewed the chromatogram and the reported quantity appears to be the more volatile portion of diesel eluting. The detection limit has been adjusted to reflect the presence of the "unknown hydrocarbon".
- 5 Reported as "unknown hydrocarbon" by the laboratory. WCC has interpreted the result as degraded diesel after having reviewed the chromatogram.
- 6 Reported as <0.5 mg/L. However, the laboratory reported 2.9 mg/kg of "unknown hydrocarbon." WCC has interpreted the result as degraded gasoline after having reviewed the chromatogram.

TABLE 2

ANALYTICAL RESULTS (IN mg/kg) FOR SAMPLES COLLECTED WASTE DISPOSAL CHARACTERIZATION
AT THE CONTINENTAL BAKING COMPANY FACILITY
1010 46TH STREET
OAKLAND, CALIFORNIA

Sample Location	Collection Date	Modified EPA Method 8015/8020								418.1 TRPH	8240 Volatile Organics	8270 Semi-Vol Organics	Other Analyses
		TPH-G	TPH-D	TPH-K	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				
SS1-ABCD	01/25/93	<1.0	<49 ¹	<1.00	<10.0	<0.005	<0.005	<0.005	<0.005	32	ND ²	ND ³	See Notes ⁴
SS1-EFGH	01/25/93	<1.0	<1.00	<1.00	56	<0.005	<0.005	<0.005	<0.016	<25	ND ²	ND ³	See Notes ⁵
SS2-ABCD	01/25/93	-	<1.00	<1.00	<10.0	<0.005	<0.005	<0.005	<0.017	-	-	-	See Notes ⁶
SS2-EFGH	01/25/93	-	<1.00	<1.00	<10.0	<0.005	<0.005	<0.005	<0.008	-	-	-	See Notes ⁷

NOTES:

TPH-G Total Petroleum Hydrocarbons Quantified as Gasoline
 TPH-O Total Petroleum Hydrocarbons Quantified as Oil
 TPH-K Total Petroleum Hydrocarbons Quantified as Kerosene
 TRPH Total Recoverable Petroleum Hydrocarbons
 TPH-D Total Petroleum Hydrocarbons Quantified as Diesel

- Denotes that the sample was not analyzed for the noted parameter

¹ Reported as "unknown hydrocarbon" by the laboratory. WCC has interpreted the result as degraded diesel after having reviewed the chromatogram.

² All analytes were not detected at or above their respective reporting limits ranging from 0.005 to 0.01 mg/kg.

³ All analytes were not detected at or above their respective reporting limits ranging from 0.33 to 1.6 mg/kg.

⁴ Other analyses for SS1-ABCD: Reactive cyanide=<10 mg/kg; Reactive sulfide=12 mg/kg; pH=8.1; Flashpoint>70°C; STLC metals in mg/L: [Ag]<0.010; [As]<0.10; [Ba]=5.7; [Be]=0.0079; [Cd]=0.025; [Co]=0.38; [Cr]=0.47; [Cu]=0.26; [Hg]=0.0059; [Mo]=0.039; [Ni]=1.2; [Pb]=0.30; [Sb]=0.052; [Se]=1.7 by ICP, <0.50 by GFAA; [Ti]=1.3 by ICP, <0.50 by GFAA; [V]=0.55; [Zn]=1.3

⁵ Other analyses for SS1-EFGH: Reactive cyanide=<10 mg/kg; Reactive sulfide=19 mg/kg; pH=8.2; Flashpoint>70°C; STLC metals in mg/L: [Ag]<0.010; [As]<0.10; [Ba]=6.3; [Be]=<0.0050; [Cd]=0.020; [Co]=0.48; [Cr]=0.30; [Cu]=0.59; [Hg]=0.0029; [Mo]=0.023; [Ni]=0.83; [Pb]=0.55; [Sb]=<0.050; [Se]=0.71 by ICP, <0.50 by GFAA; [Ti]=0.57 by ICP, <0.50 by GFAA; [V]=0.25; [Zn]=1.4

⁶ Other analyses for SS2-ABCD: Reactive cyanide=<10; Reactive sulfide=19; pH=8.5; Flashpoint>70°C

⁷ Other analyses for SS2-EFGH: Reactive cyanide=<10; Reactive sulfide=19; pH=8.6; Flashpoint>70°C

Table 3
Analytical Results for Soil (mg/kg)
EPA 8020/5030

Sample No.	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
B2@10.7' - 11.2'	<0.005	<0.005	<0.005	<0.005	<0.005
B3@11.8' - 12.4'	<0.005	<0.005	<0.005	<0.005	<0.005
B4@9.0' - 9.5'	<0.005	<0.005	<0.005	<0.005	<0.005

EPA 8015M (TEPH) Total Extractable Petroleum Hydrocarbons

Sample No.	Diesel	Kerosene
B2@10.7' - 11.2'	7.5	<1.0
B3@11.8' - 12.4'	3.4	<1.0
B4@9.0' - 9.5'	<1.0	<1.0

Table **4**
 Analytical Results for Groundwater (µg/l)
 EPA 8020/5030

Sample No.	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
B1-W	<0.5	<0.5	<0.5	<0.5	<5.0
B2-W	<0.5	<0.5	<0.5	0.81	<5.0
B3-W	<0.5	<0.5	<0.5	<0.5	<5.0
B4-W	<0.5	<0.5	<0.5	<0.5	<5.0

EPA 8015M (TEPH) Total Extractable Petroleum Hydrocarbons

Sample No.	Diesel	Kerosene
B1-W	<50	<50
B2-W	66	<50
B3-W	89	<50
B4-W	<50	<50

IBC- ADJACENT SITE
TABLE 5 MONITORING WELL CONSTRUCTION PARAMETERS
92CB010 - CBC OAKLAND
Oakland, California

26 May 1994

WELL ID	TOTAL DEPTH	SCREENED INTERVAL	COORDINATES		TOC (1) ELEVATION	GROUNDWATER DEPTH (3)	GROUNDWATER ELEVATION
	(FT)	(FT, MSL) (2)	Northing	Easting	(FT, MSL) (2)	(FT, MSL) (2)	(FT, MSL) (2)
MW-1	20	5 to 20	1012.02	4974.78	61.84	9.27	52.57
MW-2	20	10 to 20	994.64	5093.45	63.10	9.30	53.80
MW-3	20	10 to 20	932.55	4958.22	62.51	12.88	49.63

NOTES:

- (1) TOC, Top of Casing
- (2) MSL, Mean Sea Level
- (3) Depth to groundwater is measured from the TOC.

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IBC- ADJACENT SITE

TABLE 6
 SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CBC - OAKLAND
 92CB040
 OAKLAND, CALIFORNIA

Sample ID (Depth, ft)	TPH as Gasoline/BTEX (EPA Modified 8015/8020)					TPH as Diesel (EPA Modified 8015)			TRPH (EPA 5520 EF)
	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline	TPH as Kerosene	TPH as Diesel	TPH as Motor Oil	Oil and Grease
MW-1 (5)	ND	ND	0.29	1.7	49	64	ND	28	120
MW-1 (7)	0.79	1.4	4.5	21	360	260	ND	ND	140
MW-1 (10)	0.53	0.75	0.44	0.75	52	ND	ND	ND	ND
MW-2 (5)	ND	ND	ND	ND	ND	ND	ND	14	87
MW-2 (10)	ND	ND	ND	ND	ND	ND	ND	ND	53
MW-2 (12)	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3 (6.5)	ND	ND	ND	ND	ND	ND	ND	35	110
MW-3 (10)	ND	ND	ND	ND	ND	ND	ND	160	270

Notes:

- (1) All results are in mg/kg.
 - (2) Samples analyzed by Incheape Testing Services, Anamatrix Laboratories, May 18-23, 1994
 - (3) Refer to laboratory reports for analytical laboratory reporting limits
- ND Not Detected

Woodward-Clyde

IBC- ADJACENT SITE

TABLE 7
 GROUNDWATER SAMPLES ANALYTICAL RESULTS SUMMARY
 CBC - OAKLAND
 92CB040
 OAKLAND, CALIFORNIA

Sample ID	TPH as Gasoline/BTEX (EPA Modified 8015/8020)				TPH as Diesel (EPA Modified 8015)	TRPH (EPA 5520 EF)	
	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline	TPH as Diesel	Oil and Grease
MW-1	57	340	370	3100	12000	1300	ND
MW-2	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	1.7	ND	99	ND
MW-4	ND	ND	ND	ND	ND	ND	ND

Notes:

- (1) All results are in ug/L
 - (2) Samples analyzed by Incheape Testing Services, Anamatrix Laboratories, May 31-June 7, 1994
 - (3) Refer to laboratory reports for analytical laboratory reporting limits
- ND Not Detected

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Table 8 IBC-ADJACENT SITE

Groundwater Monitoring Data
Interstate Brands Corporation
1010 46th Street
Oakland, California

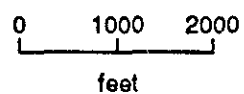
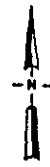
Well	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL*)	TPH Diesel (µg/L)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total Oil & Grease (mg/L)	MTBE (µg/L)
MW-1	05/26/94	61.84	9.27	52.57	1,300	12,000	57	340	370	3,100	<5.0	NA
MW-1	07/29/94	61.84	9.81	52.03	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	08/26/94	61.84	9.87	51.97	510/650 [1]	6,700/8,400	22/35	71/97	310/410	1,000/1,400	<5.0/<5.0	NA
MW-1	10/04/94	61.84	9.89	51.95	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	10/27/94	61.84	9.94	51.90	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	11/30/94	61.84	8.92	52.92	1,300	29,000	480	1,100	1,200	5,300	<5.0	NA
MW-1	01/03/95	61.84	8.79	53.05	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	01/31/95	61.84	8.33	53.51	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	03/16/95	61.84	8.07	53.77	1,900	29,000	140	1,400	1,800	9,700	<5.0	NA
MW-1	06/12/95	61.84	9.02	52.82	810/540 [1]	3,900/11,000	23/280	57/610	200/400	680/2,000	<5.0/<5.0	NA
MW-1	08/30/95	61.84	9.44	52.40	350 [1]	3,300	26	36	250	490	<5.0	NA
MW-1	11/29/95	61.84	9.93	51.91	270	1,700	20	21	110	210	<5.0	NA
MW-1	03/06/96	61.84	8.37	53.47	2,500/2,400 [1]	39,000/38,000	690/1,000	1,800/2,000	2,300/2,300	14,000/15,000	5.9	NA
MW-1	07/08/96	61.84	9.10	52.74	670/580 [1]	3,000/2,600	89/9.5	79/85	140/120	350/270	NA	NA
MW-1	04/04/97	61.84	9.14	52.70	1,400	3,500	13	27	190	410	NA	<30 [5]
MW-1	09/23/97	61.84	9.15	52.69	260	2,100	13	11	200	220	NA	<5
MW-1	03/30/98	61.84	8.73	53.11								
MW-1	09/02/98	61.84	9.20	52.64	280	1,400	7	7	90	120	NA	<12
-----Well inaccessible for sampling-----												
MW-2	05/26/94	63.10	9.30	53.80	<50/<50	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0	NA
MW-2	07/29/94	63.10	9.70	53.40	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	08/26/94	63.10	9.89	53.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	10/04/94	63.10	9.86	53.24	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	10/27/94	63.10	9.96	53.14	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11/30/94	63.10	8.95	54.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	01/03/95	63.10	8.15	54.95	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	01/31/95	63.10	6.96*	56.14	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	03/16/95	63.10	6.37*	56.73	<50/<50	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0	NA
MW-2	06/12/95	63.10	9.07	54.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	08/30/95	63.10	9.53	53.57	52 [3]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	11/29/95	63.10	9.74	53.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	03/06/96	63.10	7.23	55.87	68 [4]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	07/08/96	63.10	8.84	54.26	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	04/04/97	63.10	8.70	54.40	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3

Table 8

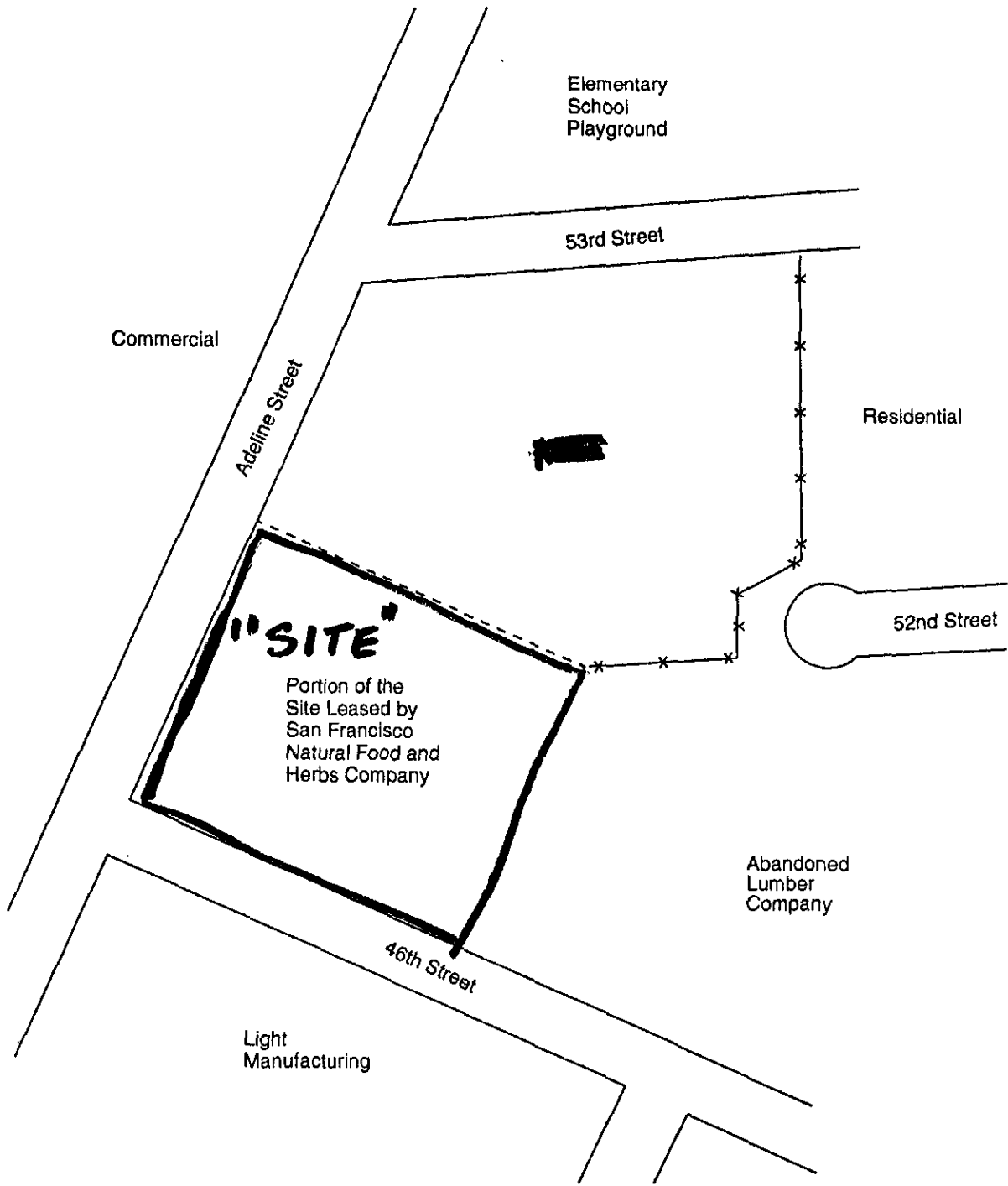
Groundwater Monitoring Data
 Interstate Brands Corporation
 1010 46th Street
 Oakland, California

IBC ADJACENT SITE

Well	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet MSL*)	TPH Diesel (µg/L)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total Oil & Grease (mg/L)	MTBE (µg/L)
MW-2	09/23/97	63.10	9.18	53.92	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-2	03/30/98	63.10	7.14	55.96	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-2	09/02/98	63.10	9.37	53.73	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3
MW-3	05/26/94	62.51	12.88	49.63	99	<50	<0.5	<0.5	<0.5	1.7	<5.0	NA
MW-3	07/29/94	62.51	13.61	48.90	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	08/26/94	62.51	13.71	48.80	66 [2]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	10/04/94	62.51	13.74	48.77	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	10/27/94	62.51	13.77	48.74	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	11/30/94	62.51	11.85	50.66	78/85	100/100	<0.5/1.9	<0.5/<0.5	<0.5/1.0	2.1/4.3	<5.0	NA
MW-3	01/03/95	62.51	12.09	50.42	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	01/31/95	62.51	10.64	51.87	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	03/16/95	62.51	10.79	51.72	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	06/12/95	62.51	12.05	50.46	120 [2]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	08/30/95	62.51	13.54	48.97	88/57 [3]	<50/<50	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<5.0/<5.0	NA
MW-3	11/29/95	62.51	13.72	48.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	03/06/96	62.51	10.78	51.73	140 [3]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-3	07/08/96	62.51	13.39	49.12	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	04/04/97	62.51	13.23	49.28	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3
MW-3	09/23/97	62.51	13.35	49.16	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<5
MW-3	03/30/98	62.51	12.16	50.35	75	<50	<0.5	<0.5	<0.5	0.64	NA	<5
MW-3	09/02/98	62.51	13.19	49.32	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<3

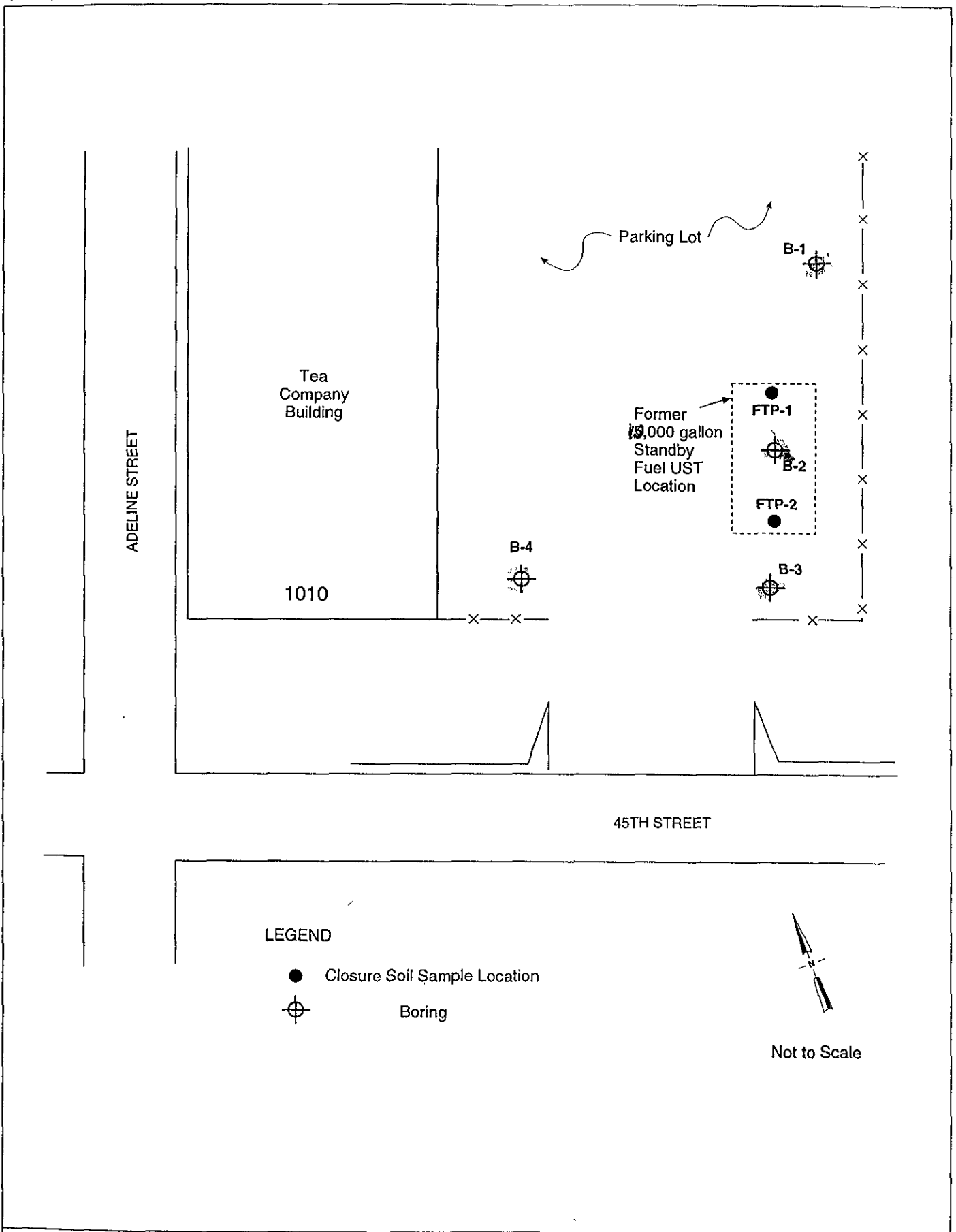


Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, California	SITE LOCATION	Figure 1
Woodward-Clyde Consultants			

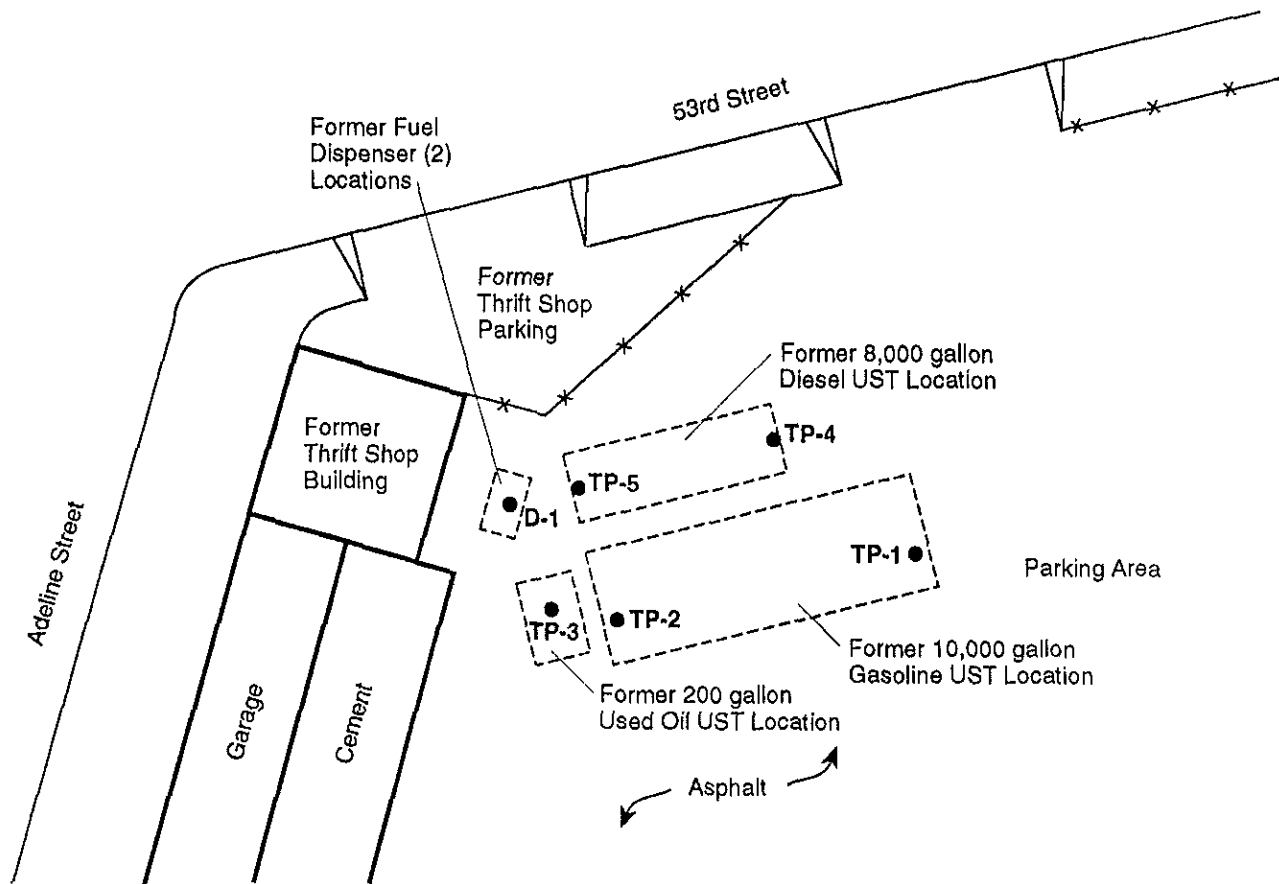


(not to scale)

Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, California	LOCAL LAND USE	Figure 2
Woodward-Clyde Consultants			

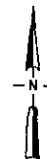


Project No. 41-07099010.00	Former IBC Site 1010 46th Street, Emeryville, CA	BORING LOCATIONS	Figure 3
URS Greiner Woodward Clyde			



LEGEND

TP-1 ● Closure Soil Sample Location

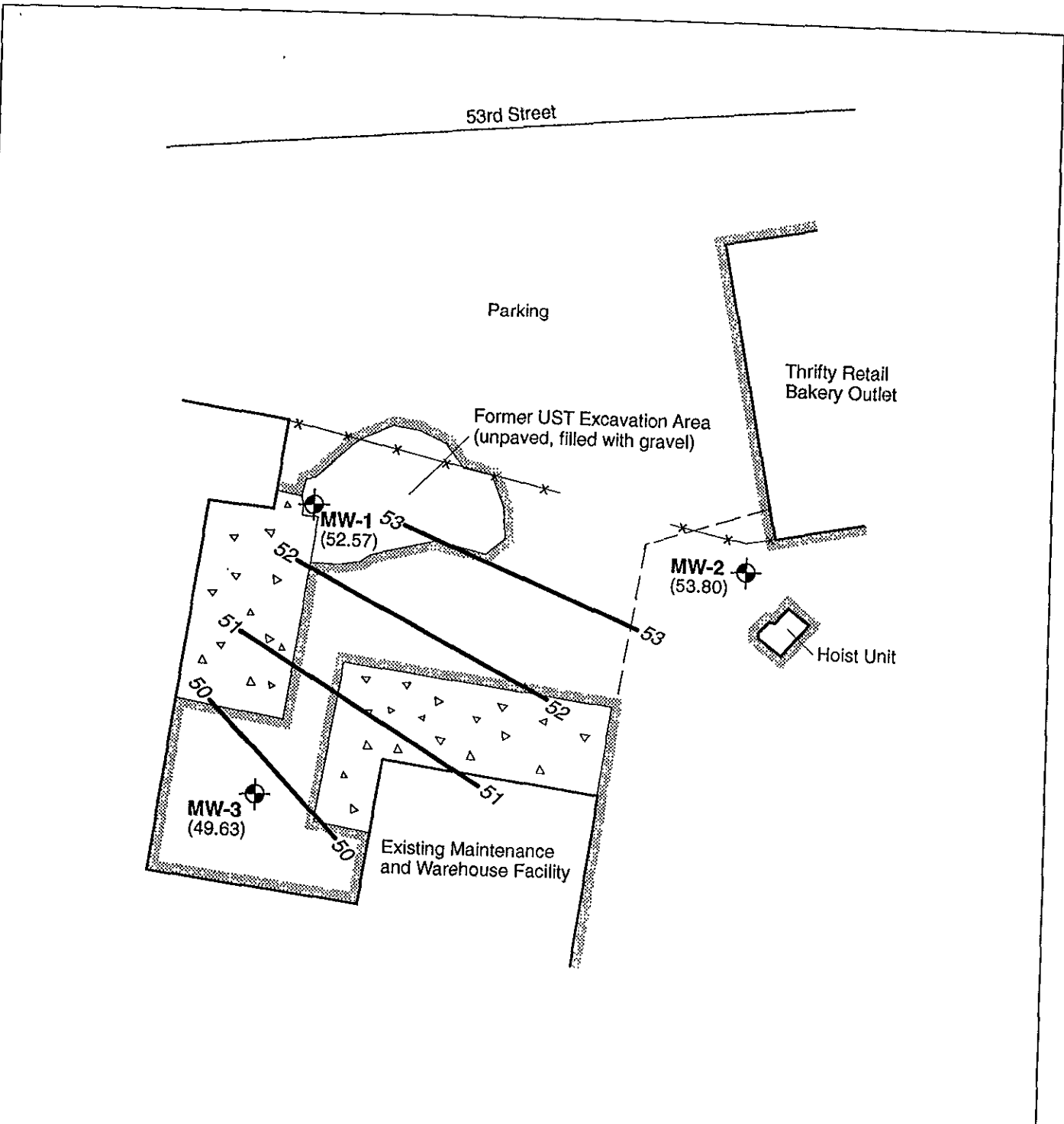


(not to scale)

Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, California	CLUSTERED UNDERGROUND STORAGE TANK AND CLOSURE SAMPLE LOCATIONS	Figure 4
Woodward-Clyde Consultants			

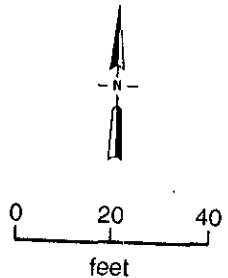
92CB040-0000/081893

AT IBC (ADJACENT SITE)



LEGEND

- 52 — 52 Approximate Groundwater Contour
(feet above mean sea level)
- MW-1 Approximate Well Location
- ▨ Asphalt
- ▴ ▾ Concrete



Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, CA	GROUNDWATER ELEVATION CONTOURS MAY 1994	Figure 5
Woodward-Clyde Consultants			

92CB040-0010/071294

AT IBC (ADJACENT SITE)

BORING LOCATION 1010 46th Street, Emeryville, California		PROJECT NO. 41-07099010.00	BORING NO. B-1
DRILLING AGENCY Precision	DRILLER Sergio	DATE STARTED DATE FINISHED 08/10/97 →	
DRILLING EQUIPMENT Envirocore		COMPLETION DEPTH 28'	SAMPLER
DRILLING METHOD Direct Push	DRILL BIT 2 1/2"	NO. OF SAMPLES DIST 9	UNDIST.
LOGGED BY R. Ely		WATER LEVEL FIRST	COMPL. 24 HRS.

DEPTH (feet)	SAMPLES RUN	MATERIAL DESCRIPTION	USCS	OVA (ppm)
	1	Asphalt over base rock		
		Rocky fill — no recovery		
5	2	Gravelly clay, dark brown (7.5 YR 3/2) and very dark gray (N3). Angular lithic pebbles up to 2 cm long. Fat, very stiff, damp.	CL CH	
	3	CLAYEY SANDY GRAVEL and GRAVELLY SANDY CLAY, brown (7.5 YR 4/2 to 10 YR 4/3), locally a gravelly clay. Clasts to 3 cm long, moisty, mostly sandstone and black chert. Lean, very stiff, moist.	GC CL	
10	4	Abundant medium to very coarse sand	CL	
	5		CL	
15	6	SANDY CLAY, gray (5Y 5/1) with yellowish red (5 YR 4/6) mottling. Sand is fine grained, well sorted. Fat, firm, moist.	CL	
20	7	As above with subangular lithic pebbles up to 1 cm long. Wet at 22'.	CL	
	8	CLAYEY GRAVEL, dark yellowish brown (10 YR 4/4). Mostly sandstone. Maximum clasts are up to 2". Hard, damp.	GW	
25	9	Cobble plugged the sampler.		
		Bottom of Boring		

BORING LOCATION 1010 46th Street, Emeryville, California		PROJECT NO. 41-07099010.00	BORING NO. B-2
DRILLING AGENCY Precision	DRILLER Sergio	DATE STARTED DATE FINISHED 08/10/97 →	
DRILLING EQUIPMENT Envirocore		COMPLETION DEPTH 28'	SAMPLER
DRILLING METHOD Direct Push	DRILL BIT 2 1/2"	NO. OF SAMPLES 8	DIST 8
LOGGED BY R. Ely		WATER LEVEL FIRST	UNDIST. COMPL. 24 HRS.

DEPTH (feet)	SAMPLES RUN	MATERIAL DESCRIPTION	USCS	OVA (ppm)
	1	Asphalt over backfill PEAGRAVEL, gray (N5), hard, dry.	GP	
5	2	CLAYEY GRAVEL (fill)	GC	3.5
10	3	SAND, gray (N5), medium grained, well sorted, Loose, damp (backfill)	SP	0.0
15	4	GRAVELLY SANDY CLAY, dark brown (7.5 YR 4/4); clasts of sandstone and black chert up to 3 cm long. Lean, very stiff, damp. (Native Soil)	CL	0.5
	5	SANDY CLAY, gray (5Y 5/1) mottled yellowish red (5 YR 4/6). Sand is fine grained, well sorted. Fat, firm, moist. Several clayey-sand intervals 0 - 2 inches thick.	CL	0.3
20	6	as above	CL	
	7	CLAYEY SAND, dark brown (7.5 YR). Medium to very coarse grained, poorly sorted, angular to subangular, lithic debris, stiff, wet.	SC	
25	8	GRAVELLY CLAY, dark yellowish brown (10 YR 3/6). Gravel 2 cm long, angular to subangular sandstone and black chert. Stiff, moist.	GC	0.6
		Bottom of Boring		

BORING LOCATION 1010 46th Street, Emeryville, California		PROJECT NO. 41-07099010.00	BORING NO. B-3
DRILLING AGENCY Precision	DRILLER Sergio	DATE STARTED 08/10/97	DATE FINISHED →
DRILLING EQUIPMENT Envirocore	COMPLETION DEPTH 28'	SAMPLER	
DRILLING METHOD Direct Push	DRILL BIT 2 1/2"	NO. OF SAMPLES 8	DIST. 8
LOGGED BY R. Ely	WATER LEVEL	FIRST	COMPL. 24 HRS.

DEPTH (feet)	SAMPLES RUN	MATERIAL DESCRIPTION	USCS	OVA (ppm)
		Asphalt over gravel		
	1	SANDY AND CLAYEY GRAVEL (fill)	GW-GC	
5				
	2	CLAYEY GRAVEL, dark reddish brown (5 YR 3/4), sandstone and black chert, 0.5 - 1.0 cm long. Stiff, damp. Grayish green (10G 4/2), below 7.5' (product alteration ?)	GC	0.0
10				
	3	SANDY GRAVELLY CLAY, grayish green (10G 4/2). Sand is fine to coarse, poorly sorted. Gravel clast up to 1 cm long. Stiff, moist.	CL	0.0
15				
	4	SANDY GRAVELLY CLAY, grayish brown (2.5 Y 5/2) with yellowish red (5 YR 5/6), mottling sand is fine grained well sorted. Firm, wet.	CL	0.0
20				
	5	CLAYEY SAND, grayish brown (7.5Y 5/2) with yellowish red (5 YR 5/6) mottling. Fine grained, well sorted, firm, wet.	SC	
	6	SANDY GRAVELLY CLAY, as above at 13'	CL	3.5
25				
	7	SANDY CLAY, dark yellowish brown (10 YR 4/6). Sand is fine grained, well sorted. Firm, wet.	CL	0.0
	8	Gravelly below 26.1'	CL	
		Bottom of Boring		

BORING LOCATION 1010 46th Street, Emeryville, California		PROJECT NO. 41-07099010.00	BORING NO. B-4
DRILLING AGENCY Presision	DRILLER Sergio	DATE STARTED 08/10/97	DATE FINISHED →
DRILLING EQUIPMENT Envirocore		COMPLETION DEPTH 25'	SAMPLER
DRILLING METHOD Direct Push	DRILL BIT 2 1/2"	NO. OF SAMPLES 7	DIST. 7
LOGGED BY R. Ely		WATER LEVEL	FIRST COMPL. 24 HRS

DEPTH (feet)	SAMPLES	RUN	MATERIAL DESCRIPTION	USCS	OVA (ppm)
0			Asphalt over gravel		
0		1	CLAYEY GRAVEL (fill)	GC	
5			SANDY GRAVELLY CLAY, dark brown (7.5 YR 3/2) in upper part (soil ?) grading downward to dark yellowish brown (10 YR 4/4). Sand is fine to coarse, poorly sorted. Gravel is sandstone and black chert, clasts to 1 cm long. Stiff, damp.	CL	
10		2		CL	0.0
10		3	SANDY CLAY with CLAYEY SAND (SC) interbeds, mottled gray (5Y 5/1) and yellowish red (5 YR 4/6). San is fine grained, well sorted. Firm, wet.	CL-SC	
15		4			
15		5	Gravelly SANDY CLAY, dark brown (7.5 YR 8/2), sand is fine to coarse grained, gravel clasts up to 1 cm long. Stiff, moist.	CL	0.0
20		6	SANDY CLAY as at 12' but with a few subrounded pebbles to 2 cm long	CL	0.0
20		7	Yellowish brown (10 yr 5/8) with trace subrounded pebbles up to 0.5 cm long.	CL	0.0
25			Bottom of Boring		

IBL - ADJACENT SITE

Project: CBC - Oakland
 Project Location: Oakland, California
 Project Number: 92CB040

Log of Boring MW-1
 Sheet 1 of 1

Date(s) Drilled: 5/16/84		Total Depth Drilled (feet): 21.5	Top of Casing Elevation (feet): 61.84 MSL	Groundwater Level (feet):	First 11	Completion 0	24 Hours 9.27
Logged by: L. Autie'	Checked by:	Diameter of Hole (Inches): 7 1/8	Diameter of Well (Inches): 4	Number of Samples:	Disturbed: 0	Undisturbed: 5	
Drilling Company: Kvilhaug Drilling		Drilling Method: Hollow Stem Auger		Drill Rig Type: B-63			
Sampler Type: Mod. CA - Split Spoon		Drill Bit Size/Type:		Type of Well Casing: 4-inch PVC Schedule 40			
Screen Perforation: 0.020" Slot (5' - 20')			Type of Sand Pack: #2/12 Sand (4' - 20')				
Type of Seals: Bentonite (3' - 4')			Grout (0' - 3')				
Comments: Located in former tank area next to bldg.							

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	OVA (ppm)	REMARKS
		Type	Number	Blows/foot						
0					FILL					
60						SILT (FILL MATERIAL) Dark brown, damp, soft				
5						Gravels to 1" in diameter				
			6 9 15							Rock in Shoe No Recovery
55			5 9 10	ML		CLAYEY SILT Blue green mottled, slightly moist to moist, some coarse sand			110	50% Recovery
10			3 11 15			more sand, slightly moist			870	
50										
15			4 4 5	SM-ML		SANDY CLAYEY SILT Light yellow brown, coarse to very coarse sand, 6" at top, grades to more silty			> 1000	
45										
20			3 4 5							
40										

IBC - ADJACENT SITE

Project: CBC - Oakland
 Project Location: Oakland, California
 Project Number: 92CB040

Log of Boring MW-2
 Sheet 1 of 1

Date(s) Drilled: 5/11/94	Total Depth Drilled (feet): 21.5	Top of Casing Elevation (feet): 63.10 MSL	Groundwater Level (feet):	First Completion: 12	24 Hours: 9.30
Logged by: L. Autie'	Checked by:	Diameter of Hole (inches): 7 1/8	Diameter of Well (inches): 4	Number of Samples:	Disturbed: 0 Undisturbed: 8
Drilling Company: Kvilhaug Drilling		Drilling Method: Hollow Stem Auger		Drill Rig Type: B-53	
Sampler Type: Mod. CA - Split Spoon		Drill Bit Size/Type:		Type of Well Casing: 4-inch PVC Schedule 40	
Screen Perforation: 0.020" Slot (10' - 20')			Type of Sand Pack: #2/12 Sand (8' - 20')		
Type of Seals: Bentonite (8' - 8')			Grout (0' - 8')		
Comments: Located upgradient from the former tank form					

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	OVA (ppm)	REMARKS
		Type	Number	Blows/foot						
0					ML	SILTY CLAY / CLAYEY SILT Brown				
5			4 7 10		ML	CLAYEY SILT Mottled tan and yellow, slightly moist, moderately dense, some coarse to fine sand		2	50% Recovery	
10			3 6 12				▽	-2	Final Water Before Development 5/12/94	
50			3 4 5			← grades to moist	▽	2		
15			2 3 5			← very wet		1		
20			3 4 5							

IBC- ADJACENT SITE

Project: CBC - Oakland Project Location: Oakland, California Project Number: 92CB040	Log of Boring MW-3 Sheet 1 of 1
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Date(s) Drilled	5/11/94	Total Depth Drilled (feet)	22.0	Top of Casing Elevation (feet)	62.61 MSL	Groundwater Level (feet)	First 13.5	Completion	0	24 Hours 12.88	
Logged by	L. Autie'	Checked by		Diameter of Hole (inches)	7 1/8	Diameter of Well (inches)	4	Number of Samples	Disturbed 0	Undisturbed 5	
Drilling Company	Kvilhaug Drilling			Drilling Method	Hollow Stem Auger			Drill Rig Type	B-53		
Sampler Type	Mod. CA - Split Spoon			Drill Bit Size/Type				Type of Well Casing	4-inch PVC Schedule 40		
Screen Perforation	0.020" Slot (10' - 20')			Type of Sand Pack	#2/12 Sand (8' - 21')						
Type of Seals	Bentonite (8' - 8')			Grout (0' - 8')							
Comments	Located in the corner of the bldg.										

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	OVA (ppm)	REMARKS
		Type	Number	Blows/foot						
0					CL	SILTY CLAY Brown with some yellow, some sand, moist				
60										
5			3 4 4			CLAY (organic) Black blue, some pebbles, moist, soft			No Sample, 2" of Soil in Plug 1-1/2 Tubes Recovered with fill material only	
55			6 6 7	SM-ML		SILTY SAND / SANDY SILT and CLAY Yellow brown, fine sand, very moist		3		
10			2 2 3	CL		SILTY CLAY Blue mottled, very soft, moist Grades to black, very moist		6		
50			1 1 1			Some pebbles up to 1/4" in diameter, some coarse sand, high organic particles		86	Hydrocarbon Odor Present	
15			2 1 1	SM		SILTY CLAYEY SAND Black-green, gravels up to 1/2" in diameter, very wet, soft		48		
45										
20			3 5 11	ML		CLAYEY SILT Yellow brown, medium dense, some sand, moist		38		