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November 18, 1998

Mr. Barney M. Chan  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

#4008

**QUARTERLY GROUNDWATER MONITORING REPORT FOR SEPTEMBER 1998, 580 JULIE ANN WAY, OAKLAND, CALIFORNIA, St ID #4008, FOR METZ BAKING COMPANY**

Dear Mr. Chan:

SECOR International Incorporated (*SECOR*) is pleased to submit this Quarterly Groundwater Monitoring Report presenting the results of groundwater monitoring conducted at 580 Julie Ann Way in Oakland, California (the Site, see Figure 1, Site Location Map). We are submitting this document on behalf of the Metz Baking Company (Metz) which formerly operated the Site as a San Francisco French Bread Company (SFFBC) baking and distribution facility. The scope of work performed was in accordance with the additional requirement by the Alameda County Environmental Health Services (ACEHS) in a November 7, 1997 letter. This report presents monitoring well sounding, groundwater elevation, and groundwater quality data collected from seven Site wells on September 11, 1998.

**BACKGROUND**

The Site formerly operated one 8,000-gallon capacity gasoline underground storage tank (UST) and one 10,000-gallon capacity diesel UST for fueling delivery trucks (Figure 2). Previous subsurface investigations conducted by Groundwater Technology, Inc. (GTI) in June 1991 and *SECOR* in November 1993 indicated the presence of total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) in soil samples collected in the immediate vicinity of the USTs. At soil boring locations further away from the USTs, low to non-detectable concentrations of TPHg and TPHd were reported; however, elevated concentrations of high-boiling point hydrocarbons (total oil and grease/total recoverable petroleum hydrocarbons) were reported at all boring locations where analyzed.

*SECOR* supervised the excavation and removal of the two USTs in September 1995. Petroleum hydrocarbon-impacted soil and groundwater were observed during UST removal activities, laboratory analysis of collected soil and groundwater samples revealed the presence of TPHg, TPHd, and high-boiling hydrocarbons. Based on the apparent composition of these high-boiling point hydrocarbons and their pervasive presence in fill soil underlying the Site, it was determined that the source of these hydrocarbons is not related to the USTs. *SECOR* supervised the installation of seven groundwater monitoring wells (MW-1 through MW-7) adjacent to the former USTs in February and August 1996 and May 1998. Soil and groundwater samples collected and analyzed during these activities revealed the presence of TPHg; TPHd; TPH as motor oil (TPHmo); benzene, toluene, ethylbenzene, and xylenes (BTEX); and methyl tertiary butyl ether (MTBE).

## SUBSURFACE UTILITIES

SECOR conducted a file review at the City of Oakland Community & Economic Development Agency. The purpose of this file review was to gather information regarding the existence of subsurface utilities in the vicinity of the former UST excavation which may intercept and preferentially divert petroleum hydrocarbon-affected groundwater. Three main underground utility lines located in Julie Ann Way were identified on two Plot and Roof Plans attached: one 2-inch gas line, one 8-inch sanitary sewer line, and one 8-inch water line (see Appendix A). The 8-inch sanitary sewer line also has two 4-inch laterals connected between the main line and the east and west portions of the Site. The locations of existing 2-inch gas line and 8-inch water line were also verbally confirmed by the personnel of PG&E and East Bay Municipal Utility District (MUD). The 2-inch gas line is situated in the south side of Julie Ann Way, approximately 10 feet away and downgradient from the former UST excavation. The gas line is also buried at a depth of less than 3 feet below ground surface (bgs) which is above the water table (see Appendix A). The water line, sanitary sewer main and lateral lines are all located at least 30 feet away from the former UST excavation. Therefore, these underground utility lines are unlikely to be subsurface conduits for petroleum hydrocarbon-affected groundwater.

? not  
no cross-contam.

## GROUNDWATER MONITORING PROCEDURES

On September 11, 1998, SECOR sounded seven groundwater monitoring wells (MW-1 through MW-7) using an electronic water-level indicator. The depth-to-groundwater and total depth were measured for each well and recorded on the Hydrologic and Water Sample Field Data Sheets included in Appendix B. The water-level indicator was rinsed with deionized water between the sounding of each well to prevent cross contamination.

Prior to sampling, wells were purged of approximately three wellbore volumes of water using a Teflon bailer. During purging, the evacuated groundwater was measured for pH, electrical conductivity, and temperature, and was visually inspected for color and turbidity. Parameter results were recorded on Water Sample Field Data Sheets included in Appendix B. Upon removal of the appropriate purge volume and stabilization of the measured parameters, samples were collected from each well using a disposable PVC bailer. Groundwater samples were decanted into pre-labeled laboratory-supplied glassware, placed in an ice-filled cooler, and transported to Chromalab, Inc. (Chromalab) of Pleasanton, California, a state-certified laboratory under chain-of-custody documentation.

Seven samples were submitted for chemical analysis of TPHg, TPHd, and TPHmo by EPA Method 8015, modified, and BTEX and MTBE by EPA Method 8020. Laboratory analytical reports and chain-of-custody records are included in Appendix C.

## SUMMARY OF RESULTS

Groundwater elevations along with historic data are included in Table 1. Groundwater chemical results along with historic data are included in Table 2.

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### Monitoring Well Sounding

A groundwater elevation contour map based on the September 11, 1998 groundwater elevation data is presented as Figure 3. During this monitoring event, groundwater was measured at depths between 4.43 feet and 8.02 feet below the top of the PVC casing. These depths translate to groundwater elevations ranging from 2.10 to 5.56 feet above mean sea level (msl). During this monitoring event groundwater elevations have decreased ranging from 0.27 feet to 5.30 feet in wells MW-1 through MW-5 and MW-7 and increased 1.75 feet in well MW-6 when compared with the June 1998 data. Interpretation of the groundwater elevation contour map indicates a general flow direction to the northwest under an average hydraulic gradient of 0.029 feet per foot (ft/ft).

### Groundwater Chemical Results

Groundwater samples exhibited pH values ranging from 6.78 to 8.26 pH units; temperatures ranging from 67.5 to 69.2 degrees Fahrenheit; specific conductivities ranging from 2,270 micromhos per centimeter ( $\mu\text{mhos/cm}$ ) to a number exceeding the range of the equipment (more than 20,000  $\mu\text{mhos/cm}$ ); appearance ranging from clear to gray; and turbidity ranging from low to high. Groundwater chemical results for September 1998 are shown on Table 2 and displayed graphically on Figure 4. Laboratory analytical reports and chain-of-custody records are included in Appendix C.

During this monitoring event, groundwater sample collected from well MW-1 was reported to contain TPHg at a concentration of 4,800 micrograms per liter ( $\mu\text{g/l}$ ). Samples collected from wells MW-1 through MW-7 were reported to contain TPHd at concentrations ranging from 410  $\mu\text{g/l}$  to 3,700  $\mu\text{g/l}$ . Samples collected from wells MW-1 and MW-2 were also reported to contain TPHmo at concentrations of 900  $\mu\text{g/l}$  and 750  $\mu\text{g/l}$ , respectively. The maximum BTEX concentrations were reported in the sample collected from wells MW-1 and MW-2 at 270  $\mu\text{g/l}$ , 15  $\mu\text{g/l}$ , 510  $\mu\text{g/l}$ , and 41  $\mu\text{g/l}$ , respectively. MTBE was detected in well MW-5 at a concentration of 10  $\mu\text{g/l}$ . No BTEX and MTBE concentrations were reported above the specified laboratory reporting limit in the groundwater samples collected from wells MW-6 and MW-7. The reported chemical concentrations were similar to the historic data.

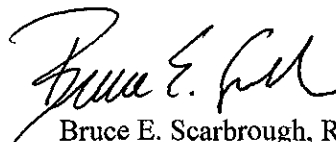
SECOR plans to conduct the next quarterly groundwater monitoring event for the Site in December 1998. Please do not hesitate to contact us at (415) 882-1548 with any questions or comments regarding this document.

Sincerely,

**SECOR International Incorporated**



Liping Zhang  
Project Manager



Bruce E. Scarbrough, R.G.  
Principal Geologist

cc: Mr. Christopher Rants, Metz Baking Company

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November 18, 1998  
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Attachments:

Table 1 - Well Construction Details and Groundwater Elevations

Table 2 - Groundwater Chemical Results

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Groundwater Elevation Contour Map

Figure 4 - Groundwater Chemical Results

Appendix A - Plot and Roof Plans

Appendix B - Hydrologic and Water Sample Field Data Sheets

Appendix C - Laboratory Analytical Reports and Chain-of-Custody Records

**TABLE 1**  
**WELL CONSTRUCTION DETAILS AND GROUNDWATER ELEVATIONS**

580 Julie Ann Way  
Oakland, California

WELL NUMBER	TOTAL DEPTH <sup>(a)</sup>	SCREENED INTERVAL <sup>(a)</sup>	CASING DIAMETER <sup>(b)</sup>	TOP OF CASING ELEVATION <sup>(c)</sup>	DATE	DEPTH TO GROUNDWATER <sup>(d)</sup>	GROUNDWATER ELEVATION <sup>(e)</sup>
MW-1	14.5	4.5-14.5	2	10.06	08/16/96	4.41	5.65
					08/22/96	4.45	5.61
					07/31/97	4.70	5.36
					06/04/98	3.66	6.40
					09/11/98	4.50	5.56
MW-2	15	5-15	2	10.17	08/16/96	4.52	5.65
					08/22/96	4.54	5.63
					07/31/97	4.86	5.31
					06/04/98	3.83	6.34
					09/11/98	4.63	5.54
MW-3	15	5-15	2	10.12	08/16/96	12.66	-2.54
					08/22/96	7.99	2.13
					07/31/97	5.11	5.01
					06/04/98	2.72	7.40
					09/11/98	8.02	2.10
MW-4	15	5-15	2	9.70	08/16/96	5.72	3.98
					08/22/96	5.72	3.98
					07/31/97	6.02	3.68
					06/04/98	5.60	4.10
					09/11/98	5.96	3.74
MW-5	15	4-15	2	9.42	06/04/98	5.44	3.98
					09/11/98	5.71	3.71
MW-6	15	4-15	2	9.88	06/04/98	7.92	1.96
					09/11/98	6.17	3.71

**TABLE 1 (Continued)**  
**WELL CONSTRUCTION AND GROUNDWATER ELEVATIONS**  
 580 Julie Ann Way  
 Oakland, California

WELL NUMBER	TOTAL DEPTH <sup>(a)</sup>	SCREENED INTERVAL <sup>(a)</sup>	CASING DIAMETER <sup>(b)</sup>	TOP OF CASING ELEVATION <sup>(c)</sup>	DATE	DEPTH TO GROUNDWATER <sup>(d)</sup>	GROUNDWATER ELEVATION <sup>(c)</sup>
MW-7	15	4-15	2	9.91	06/04/98	3.58	6.33
					09/11/98	4.43	5.48

NOTES:

- (a) Measured in feet below ground surface.
- (b) Measured in inches.
- (c) Measured in feet above mean sea level.
- (d) Measured in feet below top of PVC casing.

**TABLE 2**  
**GROUNDWATER CHEMICAL RESULTS**

580 Julie Ann Way  
Oakland, California

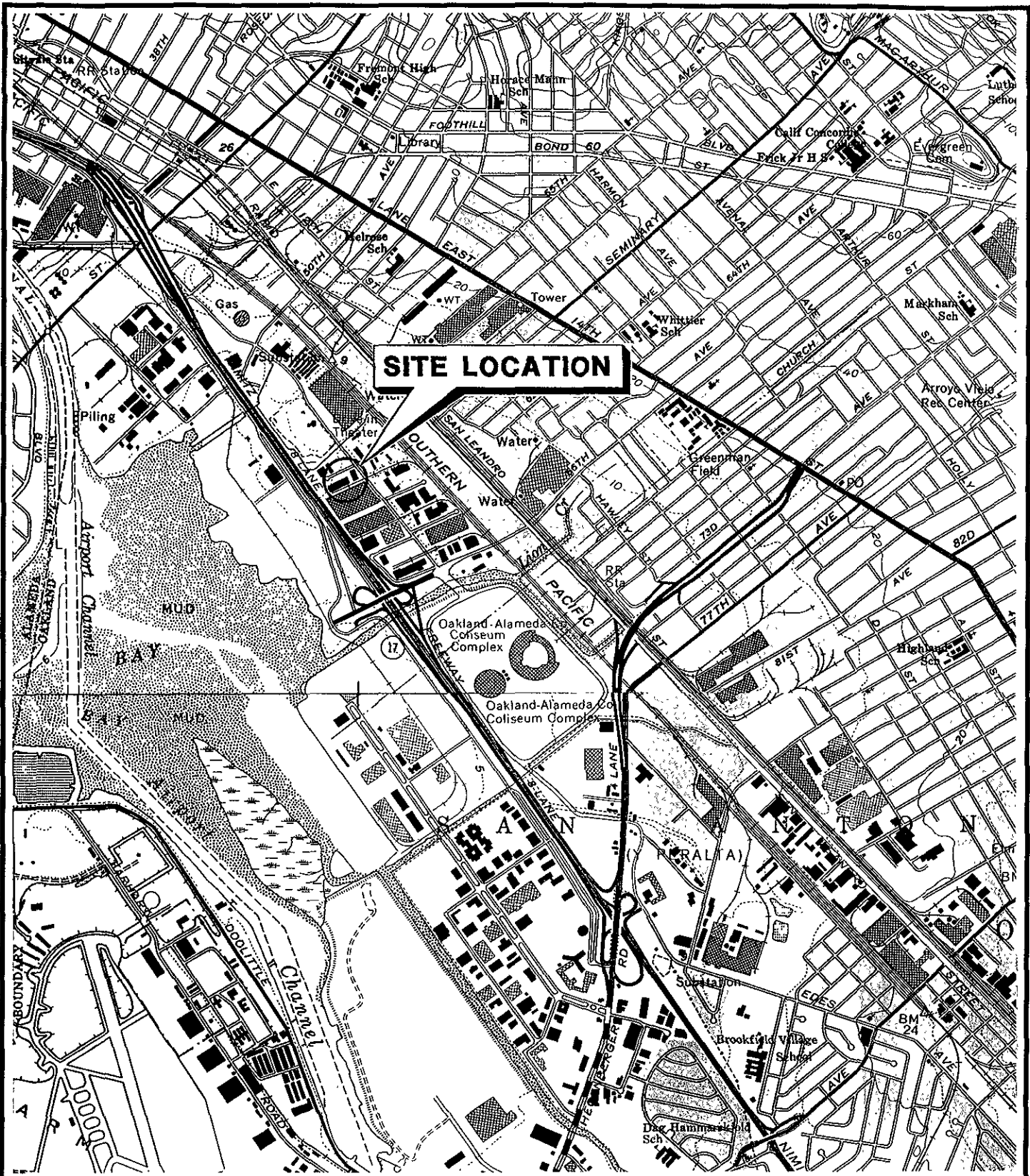
SAMPLE NUMBER	DATE	TPHg <sup>(a)</sup> (µg/l) <sup>(b)</sup>	TPHd <sup>(c)</sup> (µg/l)	TPHmo <sup>(d)</sup> (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE <sup>(e)</sup> (µg/l)	Lead (mg/l) <sup>(f)</sup>	TDS <sup>(g)</sup> (mg/l)
MW-1	02/28/96	5,900	ND <sup>(h)</sup> < 10	1,700	540	9.0	950	110	NA <sup>(i)</sup>	NA	NA
	08/16/96	5,600	5,400 <sup>(j)</sup>	4,000	540	7.3	950	110	NA	ND < 0.05	NA
	07/31/97	5,900	3,200	1,600	630	8.0	900	34	ND < 10	NA	NA
	06/04/98	1,800	1,600 <sup>(k)</sup>	640 <sup>(l)</sup>	160	2.6	300	1.6	ND < 5.0	NA	580
	09/11/98	4,800	3,300 <sup>(m)</sup>	900	270	15	510	41	ND < 50	NA	NA
MW-2	08/16/96	2,700	3,000 <sup>(j)</sup>	1,800	63	36	65	100	NA	ND < 0.05	NA
	07/31/97	1,800	3,300	1,800	20	1.8	22	4.6	7.0	NA	NA
	06/04/98	ND < 50	4,100 <sup>(k)</sup>	ND < 500	10	0.72	2.3	3.5	ND < 5.0	NA	2,900
	09/11/98	ND < 500	3,700 <sup>(m)</sup>	750	65	15	39	5.7	ND < 50	NA	NA
MW-3	08/16/96	ND < 50	730 <sup>(j)</sup>	640	3.1	ND < 0.5	ND < 0.5	ND < 0.5	NA	ND < 0.05	NA
	07/31/97	ND < 50	1,600	1,500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	NA
	06/04/98	ND < 50	860 <sup>(k)</sup>	ND < 500	3.9	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	5,100
	09/11/98	ND < 50	570 <sup>(k)</sup>	ND < 500	4.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	NA
MW-4	08/16/96	460	2,800 <sup>(j)</sup>	3,000	17	1.0	9.1	1.4	NA	ND < 0.05	NA
	07/31/97	360	2,000	1,800	1.8	0.6	7.6	0.8	ND < 5.0	NA	NA
	06/04/98	ND < 50	1,400 <sup>(k)</sup>	710 <sup>(l)</sup>	18	1.6	2.5	1.9	ND < 5.0	NA	2,000
	09/11/98	ND < 50	1,200 <sup>(k)</sup>	ND < 500	0.93	ND < 0.5	1.0	ND < 0.5	ND < 5.0	NA	NA
MW-5	06/04/98	ND < 50	970 <sup>(k)</sup>	ND < 500	7.2	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	9,900
	09/11/98	ND < 50	810 <sup>(k)</sup>	ND < 500	5.7	ND < 0.5	ND < 0.5	ND < 0.5	10	NA	NA
MW-6	06/04/98	ND < 50	120 <sup>(k)</sup>	ND < 500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	43,000
	09/11/98	ND < 50	410 <sup>(m)</sup>	ND < 500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	NA
MW-7	06/04/98	ND < 50	900 <sup>(k)</sup>	540 <sup>(l)</sup>	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	6,100
	09/11/98	ND < 50	3,700 <sup>(m)</sup>	ND < 500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	NA	NA

**TABLE 2 (Continued)**  
**GROUNDWATER CHEMICAL RESULTS**  
580 Julie Ann Way  
Oakland, California

NOTES:

- (a) Total petroleum hydrocarbons as gasoline.
- (b) Micrograms per liter.
- (c) Total petroleum hydrocarbons as diesel.
- (d) Total petroleum hydrocarbons as motor oil.
- (e) Methyl tertiary butyl ether.
- (f) Milligrams per liter.
- (g) Total dissolved solids.
- (h) ND: Not detected at specified laboratory reporting limit.
- (i) NA: Not Analyzed.
- (j) Lighter and heavier hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint. Possible gasoline and motor oil, see attached certified laboratory analytical report.
- (k) Hydrocarbon reported does not match the pattern of the laboratory diesel standard, see attached certified laboratory analytical report.
- (l) Hydrocarbon reported does not match the pattern of the laboratory motor oil standard, see attached certified laboratory analytical report.
- (m) Hydrocarbon reported is in the early diesel range and does not match the pattern of the laboratory diesel standard, see attached certified laboratory analytical report.





SOURCE: BASE MAP FROM U.S.G.S. OAKLAND EAST AND SAN LEANDRO CA QUADRANGLES. 7.5 MINUTE SERIES TOPOGRAPHIC MAP, PHOTOREVISED 1980.



NORTH



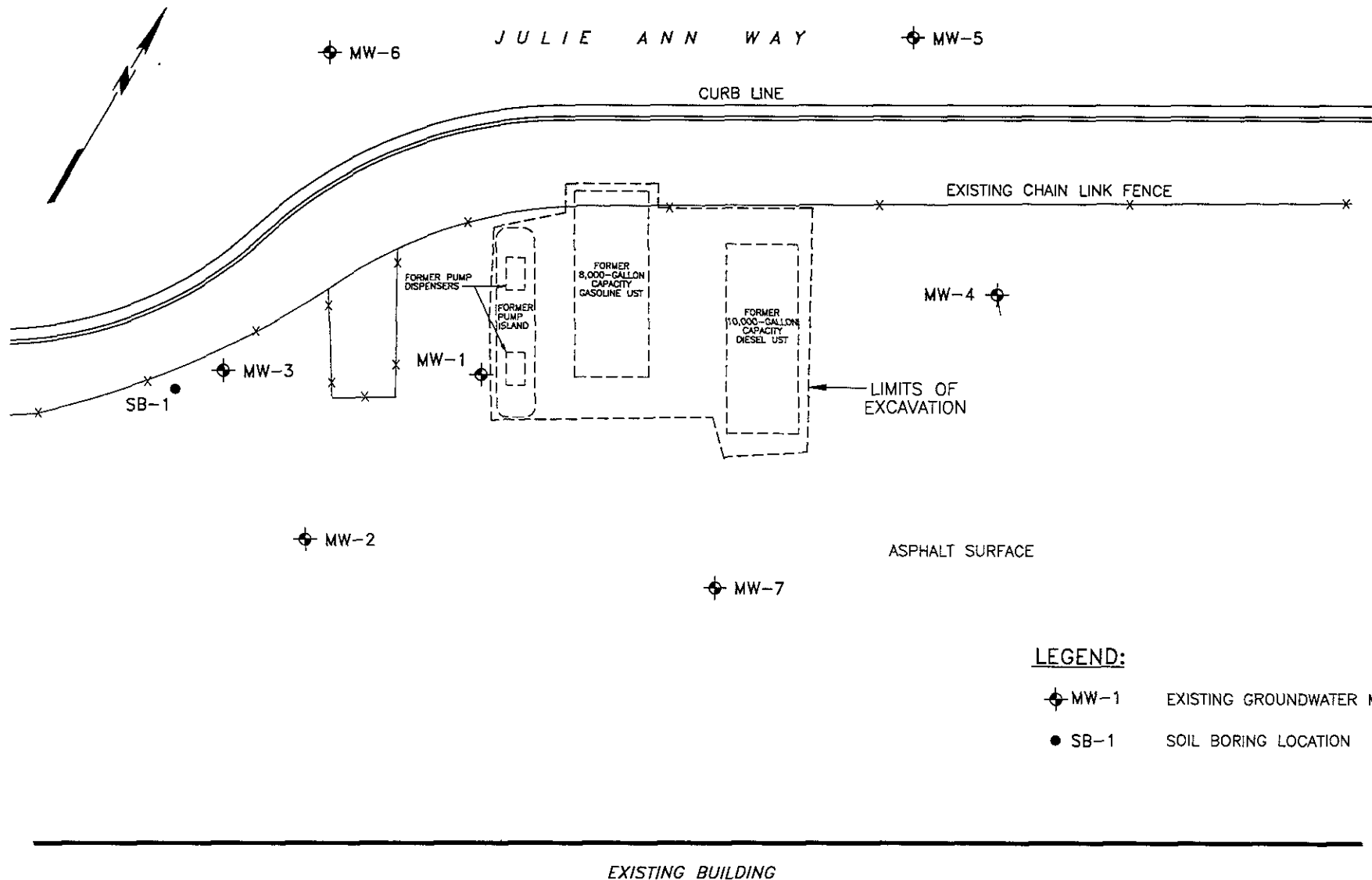
199510.171511 X:\SF-BREAD\JULIE\SITEPLAN

**SECOR**  
INTERNATIONAL  
INCORPORATED

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JOB NO.	70007-001-01

FIGURE 1  
SAN FRANCISCO FRENCH BREAD  
580 JULIE ANN WAY  
OAKLAND, CALIFORNIA

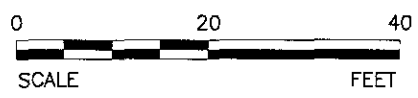
**SITE LOCATION MAP**



**LEGEND:**

- ⊕ MW-1      EXISTING GROUNDWATER MONITORING WELL
- SB-1      SOIL BORING LOCATION

REFERENCE: RON ARCHER CIVIL ENGINEER INC., DATED AUGUST 15, 1996.

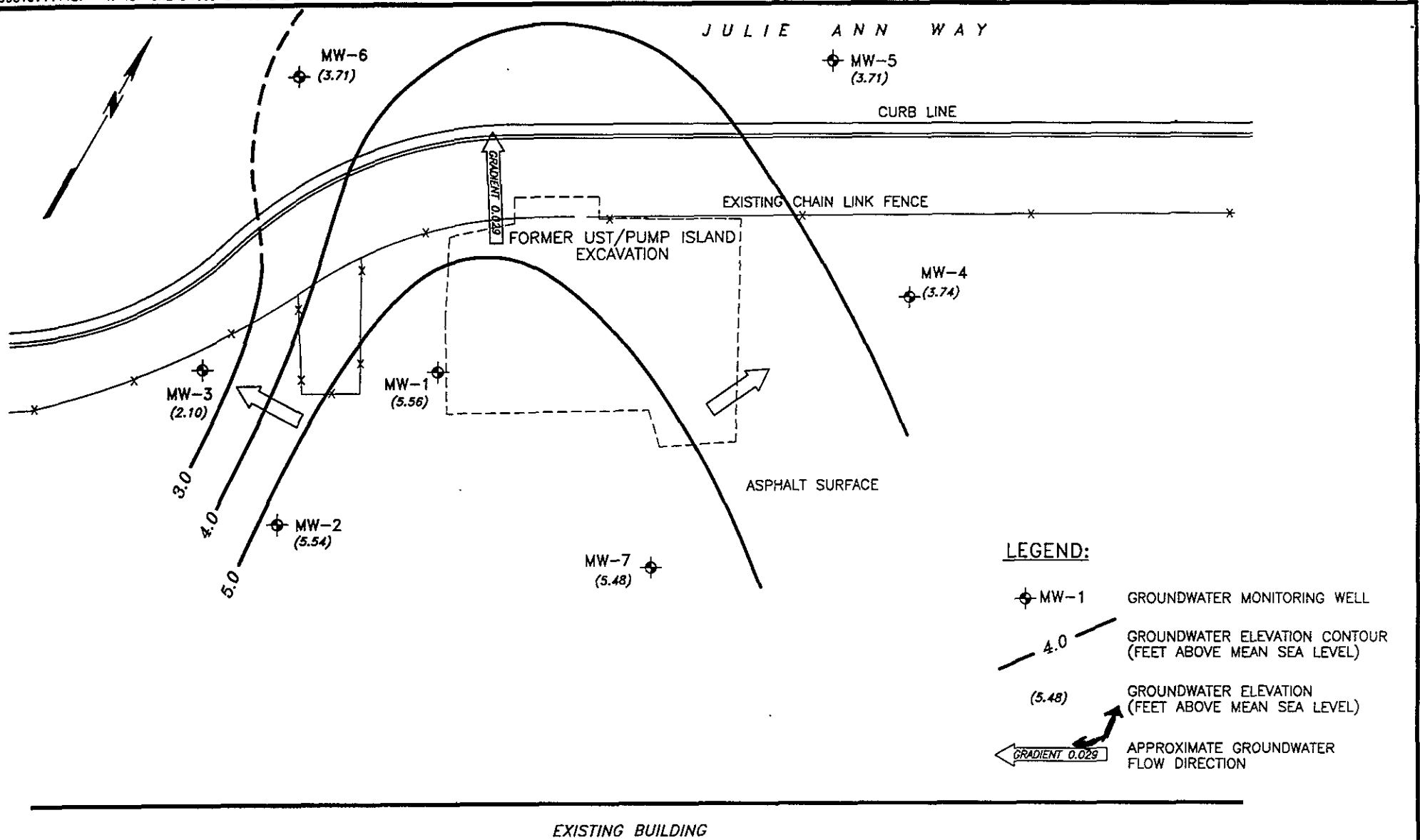


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INTERNATIONAL  
INCORPORATED

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JOB NO.	50090-009-04

**FIGURE 2**  
SAN FRANCISCO FRENCH BREAD  
580 JULIE ANN WAY  
OAKLAND, CALIFORNIA

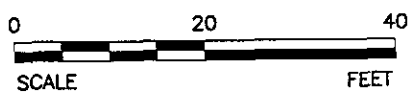
**SITE PLAN**



**LEGEND:**

- ⊕ MW-1 GROUNDWATER MONITORING WELL
- 4.0 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- (5.48) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ↔ GRADIENT 0.029 APPROXIMATE GROUNDWATER FLOW DIRECTION

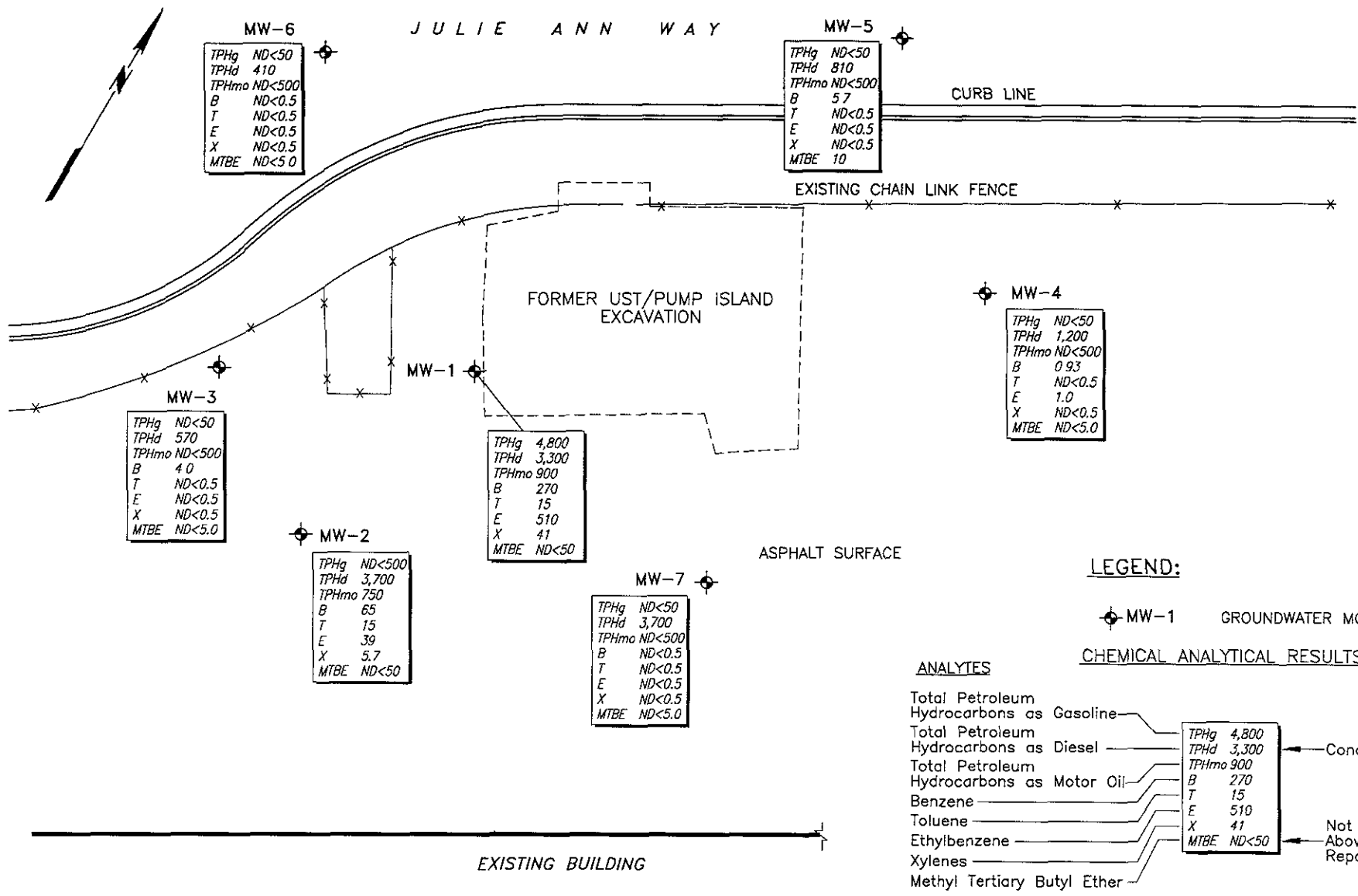
REFERENCE: RON ARCHER CIVIL ENGINEER INC., DATED AUGUST 15, 1996.



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INTERNATIONAL  
INCORPORATED

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DATE	14OCT98
JOB NO.	50090-009-04

**FIGURE 3**  
SAN FRANCISCO FRENCH BREAD  
580 JULIE ANN WAY  
OAKLAND, CALIFORNIA  
**GROUNDWATER ELEVATION  
CONTOUR MAP-SEPTEMBER 11, 1998**



**LEGEND:**

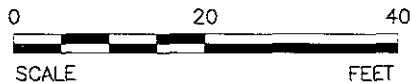
⊕ MW-1 GROUNDWATER MONITORING WELL

CHEMICAL ANALYTICAL RESULTS

ANALYTES

Total Petroleum Hydrocarbons as Gasoline	TPHg 4,800	Concentration (ug/l)
Total Petroleum Hydrocarbons as Diesel	TPHd 3,300	
Total Petroleum Hydrocarbons as Motor Oil	TPHmo 900	
Benzene	B 270	
Toluene	T 15	
Ethylbenzene	E 510	
Xylenes	X 41	
Methyl Tertiary Butyl Ether	MTBE ND<50	

REFERENCE: RON ARCHER CIVIL ENGINEER INC., DATED AUGUST 15, 1996.



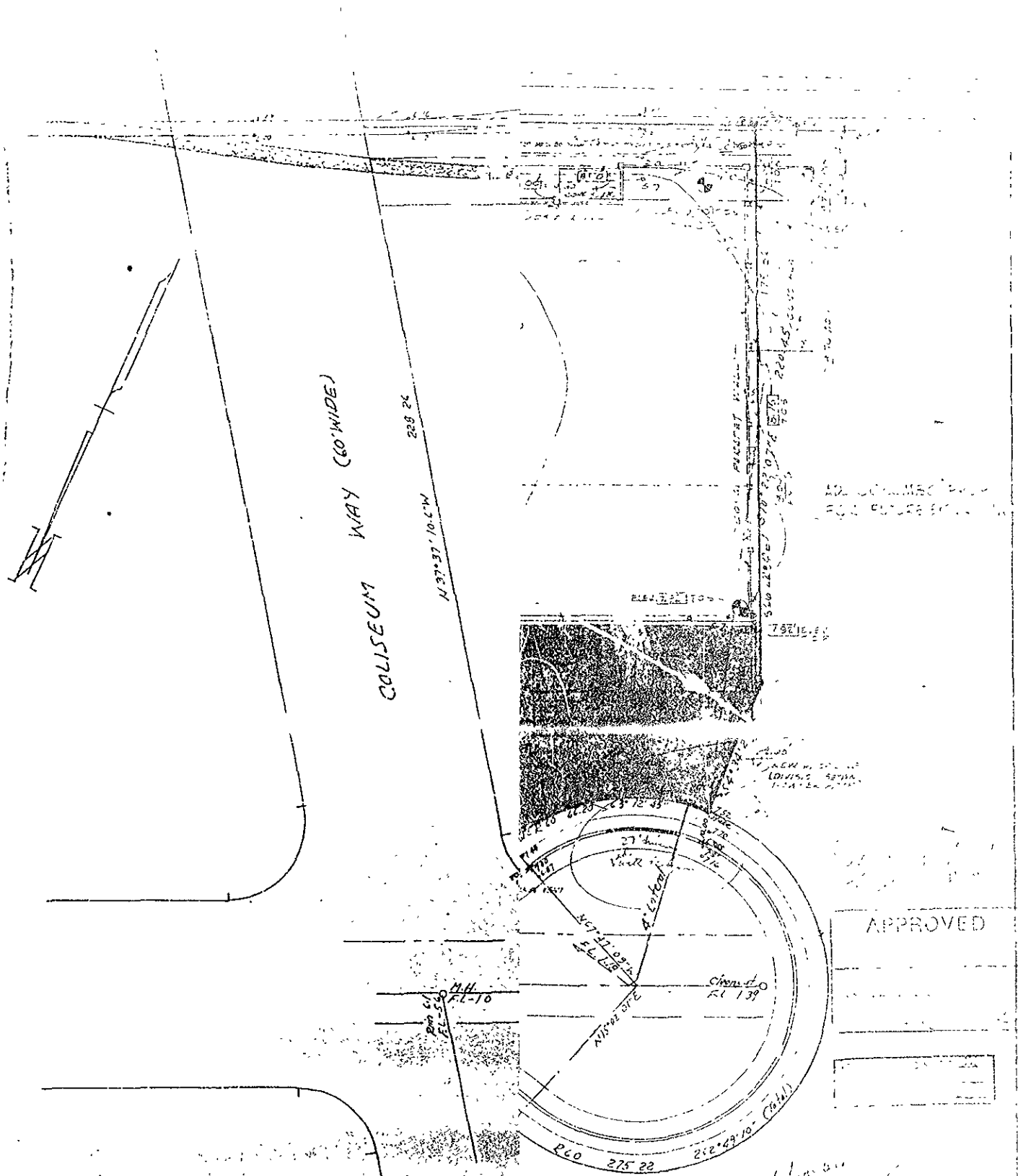
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JOB NO.	50090-009-04

**FIGURE 4**  
SAN FRANCISCO FRENCH BREAD  
580 JULIE ANN WAY  
OAKLAND, CALIFORNIA  
**GROUNDWATER CHEMICAL  
RESULTS - SEPTEMBER 11, 1998**

**APPENDIX A**

**PLOT AND ROOF PLANS**



COLISEUM  
WAY (60' WIDE)

228 26

113' 01. 15' 11' 11' 11'

A.H. EL-10

CINERLING

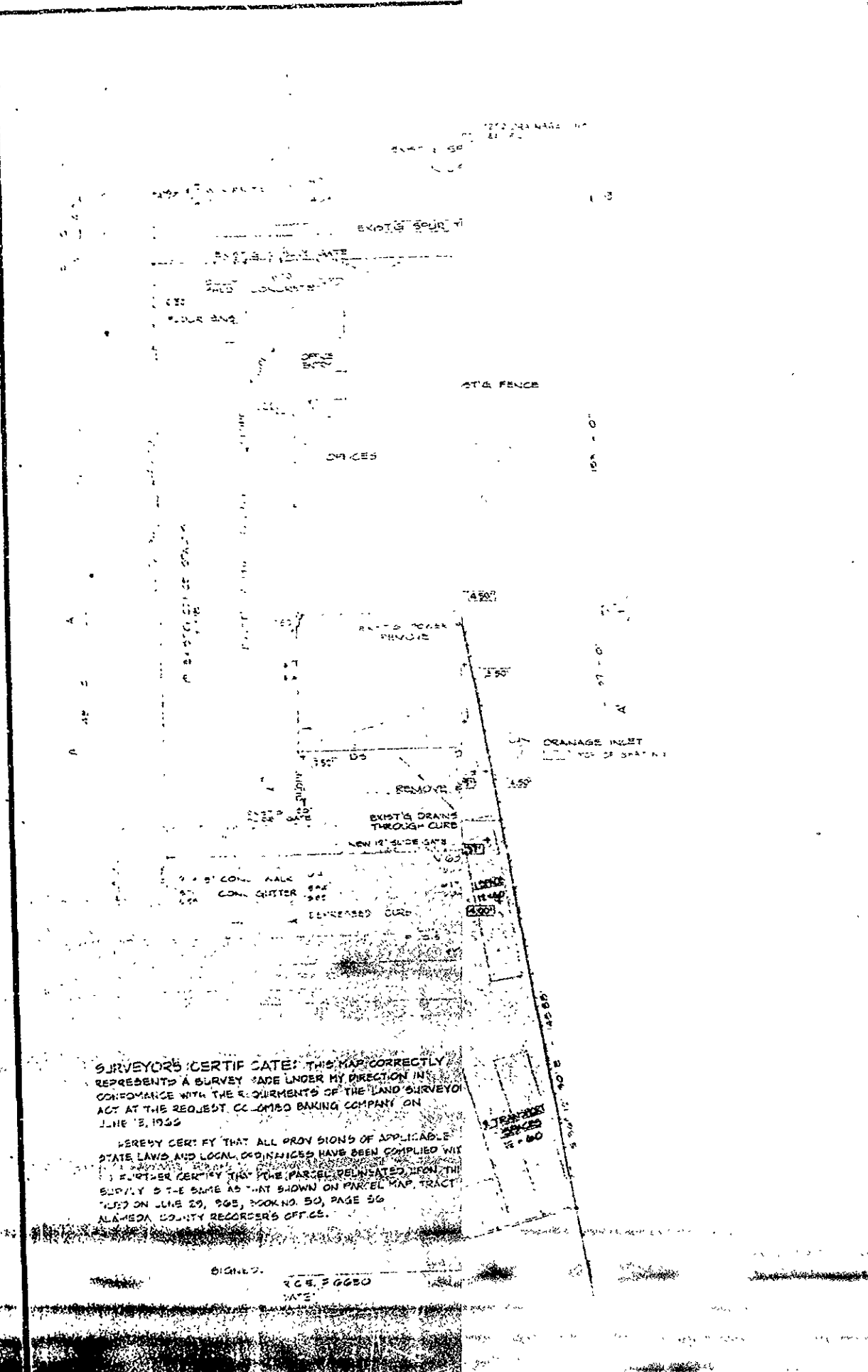
WING CO.  
CALIF.

STRUCTURAL  
ENGINEERS

APPROVED

OCCUPANCY: P.H.  
CONSTRUCTION: P.L.  
TOTAL AREA: 29,028 S.F.

DATE	BY	REVISION



SURVEYORS CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A SURVEY MADE UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYOR ACT AT THE REQUEST OF COLONIA BAKING COMPANY ON JUNE 2, 1955

HEREBY CERTIFY THAT ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN COMPLIED WITH. I FURTHER CERTIFY THAT THE PARCEL RELINQUISHED HEREON IS THE SAME AS THAT SHOWN ON PARCEL MAP TRACT FILED ON JUNE 29, 1945, BOOK NO. 50, PAGE 56 ALAMEDA COUNTY RECORDER'S OFFICE.

SIGNED: R.C.E. 50050  
DATE:

HUNTINGTON ASSOCIATES, INC. 1414 P...  
 Structural Engineers (S.E.) 530-7400 Oakland, Ca. 94612  
 PANELY ALLOCATION FOR COLONIA BAKING COMPANY



**APPENDIX B**

**HYDROLOGIC AND WATER SAMPLE  
FIELD DATA SHEETS**



HYDROLOGIC DATA SHEET

DATE: 9-1-98 PROJECT: SFRB - Oakland PROJECT # 50000 - 009 - 04

EVENT: Q3

SAMPLER: M. von Doepf

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1	830		4.5				
MW-2	915		4.63				
MW-3	1015		8.02				
MW-4	1116		5.96				
MW-5	1218		5.71				
MW-6	1316		6.17				
MW-7	1417		4.43				

CODES: TOC - TOP OF CASING (FEET, RELATIVE TO MEAN SEA LEVEL)  
 DTW - DEPTH TO WATER (FEET)  
 DTP - DEPTH TO PRODUCT (FEET)  
 PT - PRODUCT THICKNESS (FEET)  
 ELEV - GROUNDWATER ELEVATION (FEET, RELATIVE TO MEAN SEA LEVEL)

**SECOR International Inc.**  
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04      PURGED BY: MD      WELL I.D.: MW-1  
 CLIENT NAME: SFPB      SAMPLED BY: MD      SAMPLE I.D.: MW-1  
 LOCATION: Oakland      QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-11-98      START (2400hr) 8:30      END (2400hr) 8:45  
 DATE SAMPLED 9-11-98      SAMPLE TIME (2400hr) 9:00

SAMPLE TYPE:      Groundwater       Surface Water \_\_\_\_\_      Treatment Effluent \_\_\_\_\_      Other \_\_\_\_\_

CASING DIAMETER:      2"       3" \_\_\_\_\_      4" \_\_\_\_\_      5" \_\_\_\_\_      6" \_\_\_\_\_      8" \_\_\_\_\_      Other \_\_\_\_\_  
 Casing Volume: (gallons per foot)      (0.17)      (0.38)      (0.67)      (1.02)      (1.50)      (2.60)      ( )

DEPTH TO BOTTOM (feet) = 14.5      CASING VOLUME (gal) = 1.7  
 DEPTH TO WATER (feet) = 4.5      CALCULATED PURGE (gal) = 5.1  
 WATER COLUMN HEIGHT (feet) = 10.0      ACTUAL PURGE (gal) = 6.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9-11	835	2	68.1	2270	7.43	Grey	med
↓	840	4	↓	2990	7.23	↓	↓
↓	845	6	↓	3110	7.14	↓	high

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_      SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE:  YES  NO

ANALYSES: TPH, TPHd, TPHno, BTEX, MTBS

ODOR: \_\_\_\_\_      SAMPLE VESSEL / PRESERVATIVE: 3 vials, 1 Amber liter

**PURGING EQUIPMENT**

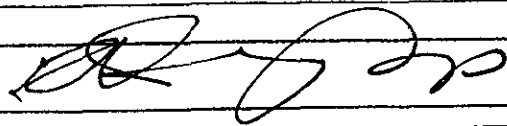
Bladder Pump       Bailer (Teflon)  
 Centrifugal Pump       Bailer (PVC)  
 Submersible Pump       Bailer (Stainless Steel)  
 Peristaltic Pump       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump       Bailer (Teflon)  
 Centrifugal Pump       Bailer ( \_\_\_\_\_ PVC or \_\_\_\_\_ disposable)  
 Submersible Pump       Bailer (Stainless Steel)  
 Peristaltic Pump       Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: Good      LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SIGNATURE: 

**SECOR International Inc.**  
**WATER SAMPLE FIELD DATA SHEET**

PROJECT #: 50090-009-04 PURGED BY: NWD WELL I.D.: MW-2  
 CLIENT NAME: SFFB SAMPLED BY: NWD SAMPLE I.D.: MW-2  
 LOCATION: \_\_\_\_\_ QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-11-98 START (2400hr) 9:15 END (2400hr) 9:30  
 DATE SAMPLED " SAMPLE TIME (2400hr) 1000

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2" a 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15.00 CASING VOLUME (gal) = 1.8  
 DEPTH TO WATER (feet) = 4.63 CALCULATED PURGE (gal) = 5.3  
 WATER COLUMN HEIGHT (feet) = 10.37 ACTUAL PURGE (gal) = 6.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-11</u>	<u>9:15</u>	<u>2</u>	<u>68.2</u>	<u>10440</u>	<u>7.26</u>	<u>lt grey</u>	<u>low</u>
<u>↓</u>	<u>9:26</u>	<u>4</u>	<u>↓</u>	<u>12700</u>	<u>7.37</u>	<u>grey</u>	<u>med</u>
<u>↓</u>	<u>9:30</u>	<u>6</u>	<u>↓</u>	<u>12760</u>	<u>7.43</u>	<u>vi</u>	<u>high</u>

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES NO ANALYSES: TPH, TPHd, TPHmo, BTEX, MTBS

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: 3 Docs 1-liter

**PURGING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

WELL INTEGRITY: Good LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SIGNATURE: [Signature] [Signature] Page 1 of 1

**SECOR International Inc.**  
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50070-009-04 PURGED BY: MD WELL I.D.: MW-3  
 CLIENT NAME: FFB SAMPLED BY: MD SAMPLE I.D.: MW-3  
 LOCATION: Oakland QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-1-88 START (2400hr) 1015 END (2400hr) 1032

DATE SAMPLED 11 SAMPLE TIME (2400hr) 1100

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15.00 CASING VOLUME (gal) = ~~1.18~~ 1.18  
 DEPTH TO WATER (feet) = ~~8.03~~ 8.03 CALCULATED PURGE (gal) = ~~3.6~~ 3.6  
 WATER COLUMN HEIGHT (feet) = ~~10.07~~ 6.97 ACTUAL PURGE (gal) = ~~4.0~~ 4.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9-11	1019	2	67.5	18650	7.19	Grey	high
↓	1022	43	↓	18710	7.23	↓	↓
↓	1032	84	↓	18830	7.39	↓	↓

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES  NO  ANALYSES: TPHg TPHol TPHmo BTEX MTBE

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: 3 vols, 1-Am, 1-ltr

**PURGING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

WELL INTEGRITY: Level LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SIGNATURE: [Signature] Page 1 of 1

**SECOR International Inc.**  
**WATER SAMPLE FIELD DATA SHEET**

PROJECT #: 50090-008-04  
 CLIENT NAME: 5FFB  
 LOCATION: Oakland  
 PURGED BY: NW  
 SAMPLED BY: NW  
 WELL I.D.: MW-4  
 SAMPLE I.D.: MW-4  
 QA SAMPLES: \_\_\_\_\_

DATE PURGED 9.11.98 START (2400hr) 11:16 END (2400hr) 11:31  
 DATE SAMPLED u SAMPLE TIME (2400hr) 1200

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15.00 CASING VOLUME (gal) = 154  
 DEPTH TO WATER (feet) = 5.96 CALCULATED PURGE (gal) = 4.6  
 WATER COLUMN HEIGHT (feet) = 9.04 ACTUAL PURGE (gal) = 5.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9.11	1120	2	67.3	8550	7.36	Lt. Grey	low
↓	1127	4	↓	8610	7.45	↓	↓
↓	1131	5	↓	8550	7.49	↓	↓

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES  NO  ANALYSES: TPH, TPKd, TPHmo, BTEX, MTBG

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: 3 - Vials, 1 - Am. liter

**PURGING EQUIPMENT**

Bladder Pump \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_  
 Bailer (Teflon)  
 Bailer (PVC) \_\_\_\_\_  
 Bailer (Stainless Steel) \_\_\_\_\_  
 Dedicated \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump \_\_\_\_\_  
 Centrifugal Pump \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Bailer (Teflon)  
 Bailer (PVC or disposable) \_\_\_\_\_  
 Bailer (Stainless Steel) \_\_\_\_\_  
 Dedicated \_\_\_\_\_

WELL INTEGRITY: GOOD LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SIGNATURE: [Signature] Page 1 of 1

**SECOR International Inc.**  
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50000-009-04 PURGED BY: NJD WELL I.D.: MW-5  
 CLIENT NAME: JFFB SAMPLED BY: " SAMPLE I.D.: MW-5  
 LOCATION: Oakland QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-11-98 START (2400hr) 1218 END (2400hr) 1235  
 DATE SAMPLED " SAMPLE TIME (2400hr) 1300

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15 CASING VOLUME (gal) = 1.6  
 DEPTH TO WATER (feet) = 5.74 CALCULATED PURGE (gal) = 4.8  
 WATER COLUMN HEIGHT (feet) = 9.26 ACTUAL PURGE (gal) = 5.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9-11	1223	2	69.7	16510	7.53	C1V	low
↓	1228	4	↓	17830	7.32	↓	↓
↓	1235	5	↓	17900	7.27	↓	↓

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES  NO  ANALYSES: TPH, TPHd, TPHmo, BTEX, MTBE

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: 3- Voes, 1- Am. liter

**PURGING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

WELL INTEGRITY: Good LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_

SIGNATURE: [Signature] Page 1 of 1

**SECOR International Inc.**  
**WATER SAMPLE FIELD DATA SHEET**

PROJECT #: 50990-007-04 PURGED BY: NVD WELL I.D.: MW-6  
 CLIENT NAME: SFFB SAMPLED BY: n SAMPLE I.D.: MW-6  
 LOCATION: Oakland QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-11-99 START (2400hr) 1316 END (2400hr) 1333

DATE SAMPLED u SAMPLE TIME (2400hr) 1400

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15 CASING VOLUME (gal) = 1.50  
 DEPTH TO WATER (feet) = 6.17 CALCULATED PURGE (gal) = 4.50  
 WATER COLUMN HEIGHT (feet) = 8.83 ACTUAL PURGE (gal) = 5.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9.11.99</u>	<u>1321</u>	<u>2</u>	<u>69.7</u>	<u>off scale</u>	<u>7.11</u>	<u>Clear</u>	<u>Mod</u>
<u>↓</u>	<u>1328</u>	<u>4</u>	<u>↓</u>	<u>↓</u>	<u>6.95</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>1337</u>	<u>5</u>	<u>↓</u>	<u>↓</u>	<u>6.78</u>	<u>↓</u>	<u>↓</u>

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES  NO

ANALYSES: TPH, THD, TPHmo, BTEX, MYBG

ODOR: \_\_\_\_\_

SAMPLE VESSEL / PRESERVATIVE: 3-voles, 1-Am. liter

**PURGING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

Bladder Pump \_\_\_\_\_ Bailer (Teflon)   
 Centrifugal Pump \_\_\_\_\_ Bailer (PVC or disposable) \_\_\_\_\_  
 Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel) \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_  
 Other: \_\_\_\_\_

WELL INTEGRITY: Good

LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature]

**SECOR International Inc.**  
WATER SAMPLE FIELD DATA SHEET

PROJECT #: 50090-009-04 PURGED BY: Mud WELL I.D.: MW-7  
 CLIENT NAME: SFFB SAMPLED BY: vi SAMPLE I.D.: 11  
 LOCATION: Oakland QA SAMPLES: \_\_\_\_\_

DATE PURGED 9-11-98 START (2400hr) 1417 END (2400hr) 1430  
 DATE SAMPLED 11 SAMPLE TIME (2400hr) 1500

SAMPLE TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 15 CASING VOLUME (gal) = 1.8  
 DEPTH TO WATER (feet) = 4.43 CALCULATED PURGE (gal) = 5.40  
 WATER COLUMN HEIGHT (feet) = 10.57 ACTUAL PURGE (gal) = 6.0

**FIELD MEASUREMENTS**

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-11-98</u>	<u>1422</u>	<u>2</u>	<u>67.7</u>	<u>15570</u>	<u>6.26</u>	<u>Grey</u>	<u>hazy</u>
<u>↓</u>	<u>1426</u>	<u>3</u>	<u>↓</u>	<u>16110</u>	<u>7.99</u>	<u>↓</u>	<u>↓</u>
<u>↓</u>	<u>1430</u>	<u>6</u>	<u>↓</u>	<u>16348</u>	<u>7.96</u>	<u>↓</u>	<u>↓</u>

**SAMPLE INFORMATION**

SAMPLE DEPTH TO WATER: \_\_\_\_\_ SAMPLE TURBIDITY: \_\_\_\_\_

80% RECHARGE: YES  NO  ANALYSES: TPH, TPHd, TPHno, BTEX, MTBE

ODOR: \_\_\_\_\_ SAMPLE VESSEL / PRESERVATIVE: 3-logs, 1-Am liter

**PURGING EQUIPMENT**

\_\_\_\_ Bladder Pump  Bailer (Teflon)  
 \_\_\_\_ Centrifugal Pump \_\_\_\_\_ Bailer (PVC)  
 \_\_\_\_ Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel)  
 \_\_\_\_ Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_

**SAMPLING EQUIPMENT**

\_\_\_\_ Bladder Pump  Bailer (Teflon)  
 \_\_\_\_ Centrifugal Pump \_\_\_\_\_ Bailer (\_\_\_\_ PVC or \_\_\_\_ disposable)  
 \_\_\_\_ Submersible Pump \_\_\_\_\_ Bailer (Stainless Steel)  
 \_\_\_\_ Peristaltic Pump \_\_\_\_\_ Dedicated \_\_\_\_\_

Other: \_\_\_\_\_

WELL INTEGRITY: good LOCK#: \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIGNATURE: [Signature] Page 1 of 1



**APPENDIX C**

**LABORATORY ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY RECORDS**

# CHROMALAB, INC.

Environmental Services (SDB)

October 12, 1998

Submission #: 9809162

SECOR SAN FRANCISCO  
90 New Montgomery St. , Suite 620  
San Francisco, CA 94105-4503

Attn: Liping Zhang


RE: Analysis for project SFFB, number 50090-009-04.

## REPORTING INFORMATION

Samples were received cold and in good condition on September 11, 1998. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date collected</u>	<u>Sample #</u>
MW-1	WTR	September 11, 1998	205675
MW-2	WTR	September 11, 1998	205676
MW-3	WTR	September 11, 1998	205677
MW-4	WTR	September 11, 1998	205678
MW-5	WTR	September 11, 1998	205679
MW-6	WTR	September 11, 1998	205680
MW-7	WTR	September 11, 1998	205681

  
Afsaneh Salimpour  
Project Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: 7 samples for TEPH analysis.  
Method: EPA 8015M

Matrix: WATER  
Sampled: September 11, 1998 Run#: 14895  
Extracted: September 15, 1998  
Analyzed: September 17, 1998

Spl#	CLIENT SPL ID	Diesel (ug/L)	Motor Oil (ug/L)
205677	MW-3	570	N.D.
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard. Surrogate Recoveries biased high due to Hydrocarbon co-elution.			

Matrix: WATER  
Sampled: September 11, 1998 Run#: 14895  
Extracted: September 15, 1998  
Analyzed: September 18, 1998

Spl#	CLIENT SPL ID	Diesel (ug/L)	Motor Oil (ug/L)
205675	MW-1	3300	900
Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard. Surrogate Recoveries biased high due to Hydrocarbon co-elution.			
205676	MW-2	3700	750
Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.			
205678	MW-4	1200	N.D.
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.			
205679	MW-5	810	N.D.
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.			
205680	MW-6	410	N.D.
Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.			
205681	MW-7	3700	N.D.
Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard. Surrogate Recoveries biased high due to Hydrocarbon co-elution.			

# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1998

Submission #: 9809162

Page 2

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

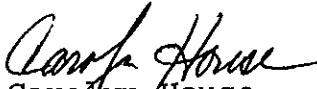
Project#: 50090-009-04

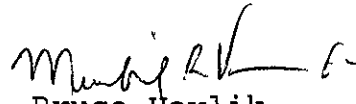
re: 7 samples for TEPH analysis, continued.  
Method: EPA 8015M

Matrix: WATER  
Sampled: September 11, 1998 Run#: 14895

Extracted: September 15, 1998  
Analyzed: September 18, 1998

<u>Spl#</u>	<u>CLIENT SPL ID</u>	<u>Diesel (ug/L)</u>	<u>Motor Oil (ug/L)</u>
Reporting Limits		50	500
Blank Result		N.D.	
Blank Spike Result (%)		96.8	--

  
Carolyn House  
Analyst

  
Bruce Havlik  
Analyst

# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Surrogate** report for 7 samples for TEPH analysis.

Method: EPA 8015M

Lab Run#: 14895

Matrix: WATER

<u>Sample#</u>	<u>Client Sample ID</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
205675-1	MW-1	O-TERPHENYL	148	60-130
205676-1	MW-2	O-TERPHENYL	127	60-130
205677-1	MW-3	O-TERPHENYL	204	60-130
205678-1	MW-4	O-TERPHENYL	113	60-130
205679-1	MW-5	O-TERPHENYL	123	60-130
205680-1	MW-6	O-TERPHENYL	124	60-130
205681-1	MW-7	O-TERPHENYL	136	60-130

<u>Sample#</u>	<u>QC Sample Type</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
206000-1	Reagent blank (MDB)	O-TERPHENYL	86.1	60-130
206001-1	Spiked blank (BSP)	O-TERPHENYL	104	60-130
206002-1	Spiked blank duplicate (BSD)	O-TERPHENYL	99.4	60-130

S010  
QCSURR1229 CMH 18-Sep-98 14:25

# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: **Blank spike and duplicate** report for TEPH analysis.

Method: EPA 8015M

Matrix: WATER  
Lab Run#: 14895

Analyzed: September 15, 1998

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control Limits	% RPD	% RPD Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
DIESEL	2500	2500	2420	2390	96.8	95.6	60-130	1.25	25

BS Smpl #: 206001  
BSD Smpl #: 206002

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Facsimile (925) 484-1096  
Federal ID #68-0140157

OC\_BSD1226 CMH 14.24.21

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-1

Spl#: 205675

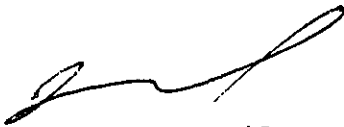
Matrix: WATER

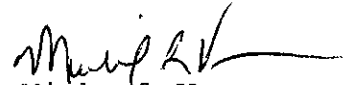
Sampled: September 11, 1998

Run#:14943

Analyzed: September 16, 1998

<u>ANALYTE</u>	<u>RESULT</u> <u>(ug/L)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>RESULT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	4800	500	N.D.	84	10
MTBE	N.D.	50	N.D.	104	10
BENZENE	270	5.0	N.D.	89	10
TOLUENE	15	5.0	N.D.	89	10
ETHYL BENZENE	510	5.0	N.D.	98	10
XYLENES	41	5.0	N.D.	86	10

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-3

Spl#: 205677


Matrix: WATER

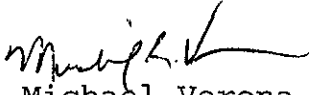
Sampled: September 11, 1998

Run#:14943

Analyzed: September 17, 1998

<u>ANALYTE</u>	<u>RESULT</u> <u>(ug/L)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>RESULT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	N.D.	50	N.D.	84	1
MTBE	N.D.	5.0	N.D.	104	1
BENZENE	4.0	0.50	N.D.	89	1
TOLUENE	N.D.	0.50	N.D.	89	1
ETHYL BENZENE	N.D.	0.50	N.D.	98	1
XYLENES	N.D.	0.50	N.D.	86	1

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

\*\*AS

LEV2



# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 14943

Analyzed: September 16, 1998

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control Limits	% RPD	% RPD Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
GASOLINE	500	500	418	437	83.6	87.4	75-125	4.44	20
MTBE	100	100	104	113	104	113	75-125	8.29	20
BENZENE	100	100	88.6	92.2	88.6	92.2	77-123	3.98	20
TOLUENE	100	100	88.8	92.3	88.8	92.3	78-122	3.86	20
ETHYL BENZENE	100	100	97.6	98.1	97.6	98.1	70-130	0.51	20
XYLENES	300	300	259	274	86.3	91.3	75-125	5.63	20

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 14943 Instrument: 3400-3

Analyzed: September 16, 1998

Analyte	Spiked Sample Amount (ug/L)	Spike Amt MS (ug/L)	MSD	Amt Found		Spike Recov		Control Limits	% RPD	% RPD Lim
				MS	MSD	MS	MSD			
GASOLINE	N.D.	500	500	424	441	84.8	88.2	65-135	3.93	20
MTBE	N.D.	100	100	129	118	119	108	65-135	9.69	20
BENZENE	N.D.	100	100	53.3	91.3	53.3	91.3	65-135	52.6	20
TOLUENE	N.D.	100	100	94.6	93.8	94.0	93.2	65-135	0.85	20
ETHYL BENZENE	N.D.	100	100	106	99.3	106	99.3	65-135	6.53	20
XYLENES	N.D.	300	300	278	277	92.3	92.0	65-135	0.32	20

Sample Spiked: 206044

Submission #: 9809185

Client Sample ID: TREATED WATER

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Surrogate** report for 3 samples for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Lab Run#: 14943

Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
205675-1	MW-1	TRIFLUOROTOLUENE	76.3	58-124
205675-1	MW-1	4-BROMOFLUOROBENZENE	102	50-150
205676-1	MW-2	TRIFLUOROTOLUENE	107	58-124
205676-1	MW-2	4-BROMOFLUOROBENZENE	128	50-150
205677-1	MW-3	TRIFLUOROTOLUENE	86.7	58-124
205677-1	MW-3	4-BROMOFLUOROBENZENE	149	50-150

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
206395-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	88.9	58-124
206395-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	123	50-150
206396-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	87.7	58-124
206396-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	111	50-150
206397-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	88.8	58-124
206397-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	113	50-150
206398-1	Matrix spike (MS)	TRIFLUOROTOLUENE	93.8	58-124
206398-1	Matrix spike (MS)	4-BROMOFLUOROBENZENE	111	50-150
206399-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	83.2	58-124
206399-1	Matrix spike duplicate (MSD)	4-BROMOFLUOROBENZENE	109	50-150

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# CHROMALAB, INC.

Environmental Services (SDB)

October 2, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-4

Spl#: 205678

Matrix: WATER


Sampled: September 11, 1998

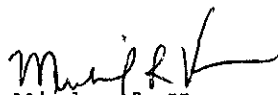
Run#:14953

Analyzed: September 17, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	101	1
MTBE	N.D.	5.0	N.D.	97	1
BENZENE	0.93	0.50	N.D.	100	1
TOLUENE	N.D.	0.50	N.D.	99	1
ETHYL BENZENE	1.0	0.50	N.D.	98	1
XYLENES	N.D.	0.50	N.D.	98	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 410ug/L.

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

\*\*AS

LEV2

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Facsimile (925) 484-1096  
Federal ID #68-0140157

AS V132 O: BTEXQC0220  
VINCE 16:59

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-6

Spl#: 205680

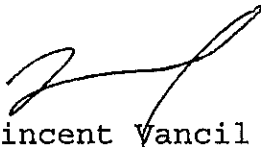
Matrix: WATER

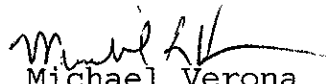
Sampled: September 11, 1998

Run#:14953

Analyzed: September 17, 1998

<u>ANALYTE</u>	<u>RESULT</u> (ug/L)	<u>REPORTING</u> <u>LIMIT</u> (ug/L)	<u>BLANK</u> <u>RESULT</u> (ug/L)	<u>BLANK</u> <u>SPIKE</u> (%)	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	N.D.	50	N.D.	101	1
MTBE	N.D.	5.0	N.D.	97	1
BENZENE	N.D.	0.50	N.D.	100	1
TOLUENE	N.D.	0.50	N.D.	99	1
ETHYL BENZENE	N.D.	0.50	N.D.	98	1
XYLENES	N.D.	0.50	N.D.	98	1

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

\*\*AS

LEV2

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-7

Spl#: 205681


Matrix: WATER

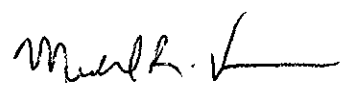
Sampled: September 11, 1998

Run#:14953

Analyzed: September 17, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	101	1
MTBE	N.D.	5.0	N.D.	97	1
BENZENE	N.D.	0.50	N.D.	100	1
TOLUENE	N.D.	0.50	N.D.	99	1
ETHYL BENZENE	N.D.	0.50	N.D.	98	1
XYLENES	N.D.	0.50	N.D.	98	1

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

\*\*AS

LEV2

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: **Surrogate** report for 4 samples for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod  
Lab Run#: 14953  
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
205678-1	MW-4	TRIFLUOROTOLUENE	99.1	58-124
205678-1	MW-4	4-BROMOFLUOROBENZENE	92.8	50-150
205679-1	MW-5	TRIFLUOROTOLUENE	102	58-124
205679-1	MW-5	4-BROMOFLUOROBENZENE	77.2	50-150
205680-1	MW-6	TRIFLUOROTOLUENE	99.2	58-124
205680-1	MW-6	4-BROMOFLUOROBENZENE	80.8	50-150
205681-1	MW-7	TRIFLUOROTOLUENE	102	58-124
205681-1	MW-7	4-BROMOFLUOROBENZENE	80.8	50-150

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
206455-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	99.7	58-124
206455-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	73.7	50-150
206456-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	117	58-124
206456-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	83.5	50-150
206457-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	117	58-124
206457-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	84.4	50-150
206458-1	Matrix spike (MS)	TRIFLUOROTOLUENE	109	58-124
206459-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	107	58-124

V132  
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# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 14953

Analyzed: September 17, 1998

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control % Limits	% RPD	Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
GASOLINE	500	500	507	522	101	104	75-125	2.93	20
MTBE	100	100	97.0	84.7	97.0	84.7	75-125	13.5	20
BENZENE	100	100	99.6	99.9	99.6	99.9	77-123	0.30	20
TOLUENE	100	100	98.6	99.4	98.6	99.4	78-122	0.80	20
ETHYL BENZENE	100	100	98.1	96.9	98.1	96.9	70-130	1.23	20
XYLENES	300	300	295	290	98.3	96.7	75-125	1.64	20



# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: **Matrix spike** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 14953 Instrument: 3400-5

Analyzed: September 17, 1998

Analyte	Spiked		Amt Found		Spike Recov		Control Limits	% RPD	% RPD Lim	
	Sample Amount (ug/L)	Spike Amt MS MSD (ug/L)	MS MSD (ug/L)	MS MSD (%)	MS MSD (%)					
MTBE	66	100	100	103	112	103	112	65-135	8.37	20
BENZENE	0.93	100	100	92.3	94.0	92.3	94.0	65-135	1.82	20
TOLUENE	N.D.	100	100	91.5	92.3	91.5	92.3	65-135	0.87	20
ETHYL BENZENE	1.0	100	100	95.9	95.0	95.9	95.0	65-135	0.94	20
XYLENES	N.D.	300	300	286	282	95.3	94.0	65-135	1.37	20

Sample Spiked: 205678

Submission #: 9809162

Client Sample ID: MW-4

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-2

Spl#: 205676

Matrix: WATER


Sampled: September 11, 1998

Run#:14971

Analyzed: September 16, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	500	N.D.	86	10
MTBE	N.D.	50	N.D.	102	10
BENZENE	65	5.0	N.D.	90	10
TOLUENE	15	5.0	N.D.	90	10
ETHYL BENZENE	39	5.0	N.D.	99	10
XYLENES	5.7	5.0	N.D.	88	10

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 3900ug/L.

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

\*\*\*AS

LEV2

# CHROMALAB, INC.

Environmental Services (SDB)

October 2, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB  
Received: September 11, 1998

Project#: 50090-009-04

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-5

Spl#: 205679

Matrix: WATER


Sampled: September 11, 1998


Run#:14971

Analyzed: September 17, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	86	1
MTBE	10	5.0	N.D.	102	1
BENZENE	5.7	0.50	N.D.	90	1
TOLUENE	N.D.	0.50	N.D.	90	1
ETHYL BENZENE	N.D.	0.50	N.D.	99	1
XYLENES	N.D.	0.50	N.D.	88	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 82ug/L.

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Blank spike and duplicate** report for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Matrix: WATER

Lab Run#: 14971

Analyzed: September 18, 1998

Analyte	Spike Amount		Spike Amount Found		Spike Recov		Control % Limits	% RPD	Lim
	BSP (ug/L)	Dup	BSP (ug/L)	Dup	BSP (%)	Dup (%)			
GASOLINE	500	500	430	410	86.0	82.0	75-125	4.76	20
MTBE	100	100	102	106	102	106	75-125	3.85	20
BENZENE	100	100	89.6	93.7	89.6	93.7	77-123	4.47	20
TOLUENE	100	100	89.6	94.1	89.6	94.1	78-122	4.90	20
ETHYL BENZENE	100	100	98.5	99.8	98.5	99.8	70-130	1.31	20
XYLENES	300	300	263	278	87.7	92.7	75-125	5.54	20

# CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1998

Submission #: 9809162

SECOR SAN FRANCISCO

Atten: Liping Zhang

Project: SFFB

Project#: 50090-009-04

Received: September 11, 1998

re: **Surrogate** report for 2 samples for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Lab Run#: 14971

Matrix: WATER

<u>Sample#</u>	<u>Client Sample ID</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
205676-2	MW-2	TRIFLUOROTOLUENE	106	58-124
205676-2	MW-2	4-BROMOFLUOROBENZENE	119	50-150
205679-2	MW-5	TRIFLUOROTOLUENE	84.9	58-124
205679-2	MW-5	4-BROMOFLUOROBENZENE	115	50-150

<u>Sample#</u>	<u>QC Sample Type</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
206686-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	51.2	58-124
206686-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	114	50-150
206687-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	89.0	58-124
206687-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	118	50-150
206688-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	88.8	58-124
206688-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	134	50-150

V132  
QCSURR1229 VINCE 23-Sep-98 10:4

SUBM #: 9009162 REP: ASLEV2  
 CLIENT: SECOR-SF  
 DUE: 09/18/98  
 REF #: 61932

989162 41932

Chain-of Custody Number:

# SECOR Chain-of Custody Record

Field Office: San Fran CSLO  
 Address: 90 New Montgomery St. #620  
SF, CA 94105

Additional documents are attached, and are a part of this Record.

Job Name: SFFB  
 Location: Oakland - 580 Julie Ann Way

Project # S00910-009-04 Task # 003  
 Project Manager Cyring Zhang  
 Laboratory Chroma  
 Turnaround Time Stand.

Analysis Request

Sampler's Name N. Juan Paredes  
 Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix	HCID	TPHig/BTEX/WTPH-G 8015 (modified)/8020	TPHig/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
mw-1	9-14-98	900	H <sub>2</sub> O		X	X										X MTBE X TPHMO	4
mw-2		1000															
mw-3		1100															
mw-4		1200															
mw-5		1300															
mw-6		1400															
mw-7		1500															

Special Instructions/Comments:

Relinquished by: [Signature]  
 Sign [Signature]  
 Print [Signature]  
 Company SECOR  
 Time 1530 Date 9-11-98

Received by: [Signature]  
 Sign [Signature]  
 Print Alexander Salinas  
 Company Chromalab  
 Time 15:30 Date 9/11/98

Sample Receipt  
 Total no. of containers: \_\_\_\_\_  
 Chain of custody seals: \_\_\_\_\_  
 Rec'd. in good condition/cold: \_\_\_\_\_  
 Conforms to record: \_\_\_\_\_

Relinquished by: [Signature]  
 Sign [Signature]  
 Print [Signature]  
 Company Chromalab  
 Time 4:45 Date 9/11

Received by: [Signature]  
 Sign [Signature]  
 Print Alex Paredes  
 Company Chroma Lab  
 Time 1659 Date 9/11/98

Client: \_\_\_\_\_  
 Client Contact: \_\_\_\_\_  
 Client Phone: \_\_\_\_\_