April 2, 1993

EACC Science & Engineering Analysis Corporation

Mr. Thomas Peacock Hazardous Materials Division Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

STID 1509

QUARTERLY GROUNDWATER MONITORING REPORT, 4070 SAN PABLO AVENUE, EMERYVILLE, CALIFORNIA

Dear Mr. Peacock:

On behalf of San Francisco French Bread Company (SFFBC), Science & Engineering Analysis Corporation (*SEACOR*) has prepared this quarterly groundwater monitoring report for 4070 San Pablo Avenue in Emeryville, California ("the site", see Figure 1). The site is improved with two warehouse-type buildings. The southern building is currently occupied by Anderson Carpeting and the northern building by Tire Center Inc. A site plan showing the existing site configuration, including the location of the former underground storage tanks (USTs) is attached as Figure 2.

SITE BACKGROUND

In September 1992, *SEACOR* installed monitoring well MW-1 slightly west, and down-gradient of the former UST locations. This well was completed to a depth of 25 feet below ground surface with the screened interval extending from 25 to 15 feet below ground surface. The groundwater sample collected from this well in September 1992 was reported to contain total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) at concentrations of 1.4 and 0.2 milligrams per liter (mg/ℓ), respectively. The laboratory reported that the positive result for TPHd appears to have been due to the presence of a lighter fuel (e.g. gasoline) rather than diesel. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected in the water sample at concentrations of 0.47, 0.043, 0.045, and 0.10 mg/ ℓ , respectively. Based on the findings of our initial investigation, SFFBC initiated a quarterly groundwater monitoring program at the site. This quarterly monitoring event represents the third quarter of sampling, a fourth quarter monitoring event is scheduled for June 1993.

DEPTH TO GROUNDWATER

Prior to purging and sampling monitoring well MW-1, the depth to groundwater and well depth were measured by *SEACOR* on March 4, 1993 using an electronic water-level indicator. Groundwater was measured at a depth of 7.82 feet below the top of the PVC casing. This represents a (.73 foot/increase in water level since the December 3, 1992 monitoring event. Historic depth to groundwater measurements are included on Table 1.

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MONITORING WELL PURGING AND SAMPLING

Monitoring well purging and sampling was performed by SEACOR on March 4, 1993. Prior to purging the well, the depth to groundwater and well depth were measured using an electronic water level indicator. Well purging was accomplished by bailing with a clean stainless steel bailer. During purging the pH, temperature, and electrical conductivity of the discharge water was measured and the color and turbidity were visually inspected. Stabilization of these parameters was used as an indicator that fresh formation water was entering the well casing. Approximately five casing volumes of water (14 gallons) were removed from the well. A copy of the Water Sample Data Sheet is included as an Attachment. Water removed from the well during purging activities was placed in a DOT-approved 55-gallon drum and stored onsite.

Following completion of well purging, a water sample was collected by lowering a clean disposable PVC bailer into the well casing. The water sample was transferred directly from the bailer into laboratory supplied sample containers and labeled. Sample containers were stored in a cooler containing ice for shipment to the analytical laboratory. The groundwater sample was submitted to NET Pacific Analytical Laboratory for analysis of TPHg and BTEX according to EPA Methods 5030, and 8020, respectively.

CHEMICAL TESTING RESULTS

The groundwater sample analyzed from monitoring well MW-1 was reported to contain TPHg at a concentration of 0.70 mg/ ℓ and, benzene and xylenes both at a concentration of 1.1 micrograms per liter $(\mu g/\ell)$. Table 1 summarizes the chemical analytical results for this quarterly groundwater monitoring event as well as the previous sampling events. Laboratory analytical data sheets and chain-of-custody documentation are included as an Attachment.

When compared to water quality data from December 1992, TPHg, benzene and xylenes concentrations have increased slightly from non-detectable concentrations to 0.70 mg/ ℓ , 1.1 μ g/ ℓ , and 1.1 μ g/ ℓ , respectively. The concentration of ethylbenzene decreased from 1.6 μ g/ ℓ to a non-detectable concentration and toluene remained not detected. The next quarterly groundwater monitoring event is scheduled for June 1993.

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If you have any questions or comments regarding this report, please do not hesitate to call us at (415) 882-1548.

Sincerely yours,

Science & Engineering Analysis Corporation

Vonale la Moone

Donald W. Moore Project Geologist

Kulle E. Scarbrook

Bruce E. Scarbrough, R.G. Principal Geologist

cc: Mr. Peter Sher, San Francisco French Bread Company

Attachments:

DWM/mms

Figure 1 - Site Location Map Figure 2 - Site Plan Table 1 - Groundwater Measurements and Chemical Analytical Results Groundwater Sample Data Sheet, Laboratory Analytical Reports and Chain-of-Custody Records

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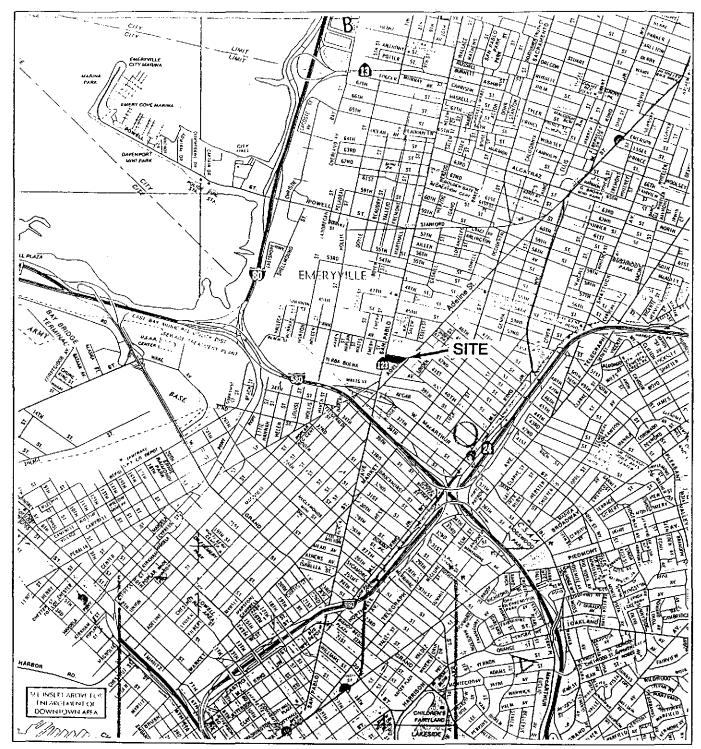
TABLE 1 GROUNDWATER MEASUREMENTS AND CHEMICAL ANALYTICAL RESULTS 4070 San Pablo Avenue Emeryville, California

WELL	DATE	DEPTH TO GROUNDWATER ⁽¹⁾	TPHg ⁽²⁾ (mg/l) ⁽³⁾	BENZENE (µg/l) ⁽⁴⁾	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	XYLENES (µg/l)
MW-1	9/11/92 12/3/92	9.10 9.55	1.4 ND≪0:05	470 ND ≤ 0.5	45 ND<0.5	43 1.6	100 ND<0.5
	3/4/93	7.82	0.70	1.1	ND<0.5	ND<0.5	1.1

NOTES:

- (1)
- Feet below top of PVC casing. Total petroleum hydrocarbons as gasoline. Milligrams per liter. Micrograms per liter. (2)
- (3)
- (4)

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SOURCE:

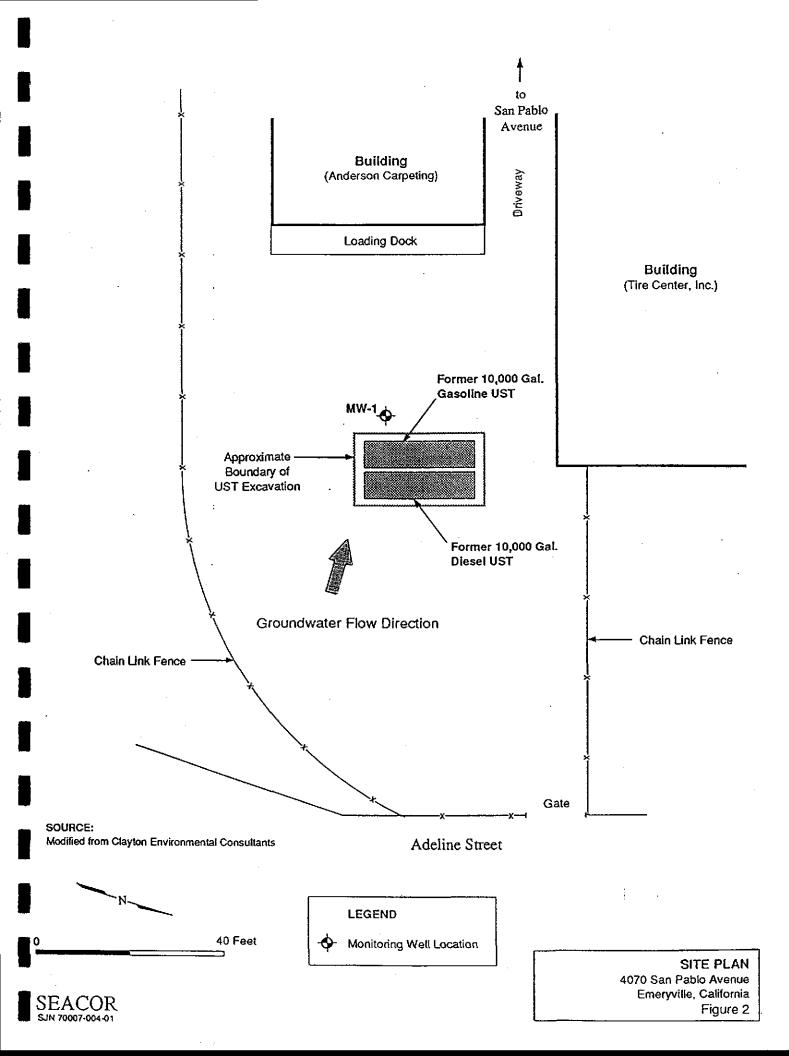
SEACOR

SJN 70007-004-01

California State Automobile Association Oakland, Berkeley, Alameda, 2/91



SITE LOCATION MAP 4070 San Pablo Avenue Emeryville, California Figure 1



NATIONAL ENVIRONMENTAL TESTING, INC. NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Donald Moore/Bruce Scarbrough Seacor 90 New Montgomery Suite 620 San Francisco, CA 94105

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Date: 03/24/1993 NET Client Acct. No: 74000 NET Pacific Job No: 93.00855 Received: 03/06/1993

Client Reference Information

Project No: 70007-004-01

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

Enclosure(s)



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Client Acct: 74000 © Client Name: Seacor NET Log No: 93.00855

Ref: Project No; 70007-004-01

SAMPLE	DESCRIPTION:	MW-1					
	Date Taken:	03/04/1993					
	Time Taken:	13:40					
	LAB Job No:	(-152360)					

		Reportir	ng	
Parameter	Results	Limit	Units	Method
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC,FID)			•	
DATE ANALYZED	03-08-93			
DILUTION FACTOR*	1			
as Gasoline	0.70	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)			21	
DATE ANALYZED	03-08-93			
DILUTION FACTOR*	1			
Benzene	1.1	0.5	ug/L	8020
Ethylbenzene	ND	0.5	ug/L	8020
Toluene	ND	0.5	ug/L	8020
Xylenes (Total)	1.1	0.5	ug/L	8020
SURROGATE RESULTS			5.	
Bromofluorobenzene	115		% Rec.	5030



Client Acct: 74000 © Client Name: Seacor NET Log No: 93.00855

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Ref: Project No; 70007-004-01

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	- Spike % <u>Recovery</u>	Duplicate Spike % <u>Recovery</u>	RPD
Gasoline Benzene Toluene	0.05 0.5 0.5	mg/L ug/L ug/L	105 91 94	ND ND ND	102 113 100	102 112 101	< 1 < 1 . < 1

COMMENT: Blank Results were ND on other analytes tested.



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KEY TO ABBREVIATIONS and METHOD REFERENCES

: Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

<u>Methods 100 through 493</u>: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

<u>Methods 601 through 625</u>: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

<u>Methods 1000 through 9999</u>: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

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ss 90 New/ San Francisc	, 				26	20							24	750						· · · ·
Project # 70007-00	4-01	Fask #					Analysis Request													
Project # 70007-00 4-0 Task # Project Manager Donald Mare Bruce Sear brough Laboratory NEP Pacific Turn-around time: Stundard 20 days Sampler's Name: Kunt Heiss Sampler's Signature: PumOMD				TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	esticides/PCB's 08/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals					Comments/ Instructions	Number of Containers
Sample ID MW - 1	Date 3/4/93	Time	Matrix Water			н	< ত	>3	Н 99	3.C	<u>г</u> 2	5	đΧ	ŕ-				7	<u>×uor</u>	5
Travel Blank	<u></u>	<u> </u>	i (HOLD														TYNOC	$\frac{1}{1}$	
	<u> </u>																	lar	-XVOC IXVOC ge HS bulle in Trij bla ki	29
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				<u> </u>	†—															+
			<u> </u>			:														
Special Instructions/Commer	nts:		1	Reli	nquis	hed b	(у:	0		/		Receiv	red/py	:(),	N	Δι.	Cer		Sample Receipt	<u> </u>
				Sigr		<u>m</u> A N	ny Brend				_ i	Sign That I Print AnD				TAC		¥—	Total no. of containers	
					Company SEACOR CO						Comp	anv	Ne	ET_			<u></u>	Chain of custody seals: Rec'd good condition/cold:		
Time <u>1:0</u>							<u>8</u> Date <u>3/5/93</u> 1					Time 1300 Date 3-5-9			2-92	Conforms to record:	1			
CUSTODY SEALED 35						filed b	Maken					Received by: SignClient:								
Print A					416	by Mackay Print _A. Lope						Client Contact:								
seals intact. A.L. Company Time 2003						$\frac{1}{100} \frac{1}{100} \frac{1}$														
<u></u>																Juie		<u>e</u> <u>3</u>	Client Phone Number:	
		الندر ا																¢		of <u> </u>

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SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70007-004-01 PURGED BY: Kunt Heiss AMPLED BY: Kunt Heisr	WELL ID: MW-1 SAMPLE ID: MW-1 CLIENT NAME: S.F.French Bread - Emeryul 1/e LOCATION: Emeryul (1/e, CA
TYPE: Groundwater Surface Water	Treatment Effluent Other
ASING DIAMETER (inches): 2 / 3 3	4 4.5 6Other
CASING ELEVATION: (feet/MSL):DEPTH TO WATER (feet):7.82DEPTH OF WELL (feet):25.30	VOLUME IN CASING (gal)Z. 80CALCULATED PURGE (gal)14,00ACTUAL PURGE VOL (gal)14
	Hr) (241) End (2400 Hr.) (30) Hr) (340) End (2400 Hr.) (340)
ELD QC SAMPLES COLLECTED AT THIS WELL (i.e.)	FB-1, X-DUP-1): None
FIELD MEAS	SUREMENTS
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	168.0 Tay Very 69.3 Tan Very
.O. (ppm): <u>N. M.</u> COLOR, COBALT (0-100)	
PURGING EQUIPMENT	Brown (794)
2" Bladder Pump Bailer(Teflon®) Centrifugal Pump Bailer (PVC) Submersible Pump Bailer (Stainless Steel) Well Wizard TM Dedicated	SAMPLING EQUTPMENT 2" Bladder Pump Bailer(Teilon@) DDL Sampler Bailer (PVC/disposable) Submersible Pump Bailer (Stainless Steel) Well Wizard™ Dedicated
Other:	Other
VELL INTEGRITY: <u>(5000)</u> MARKS: <u>Well close to dryness</u> @ [1 <u>recovery</u>	LOCK #: 0909 - Masten gallons; slow sroundwaten
NATURE: NUMBE	Page of