John P. Cummings & Associates

Environmental/Consultants 47AL PROTECTION

Ph. (510) 505-0722 Fax (510) 791-3306

95 MAR 27 PM 3: 10

P.O. Box 2847 Fremont, CA 94536-2847

Reversed Be 6/20198

File No. 0293002.02 March 24, 1995 PERSONNEL AND CONFIDENTIAL

Mr. Reuben Hausauer 6017 East 14th Street Oakland, CA 94601

Re: Groundwater Monitoring

3927 E. 14th Street, Oakland CA

Dear Mr. Hausauer:

John P. Cummings and Associates (JPCA) is pleased to present the results of the quarterly groundwater monitoring at 3927 East 14th Street, in Oakland, California. An Underground Storage Tank (UST), formerly used for waste oil, was closed in place beneath the sidewalk on this site.

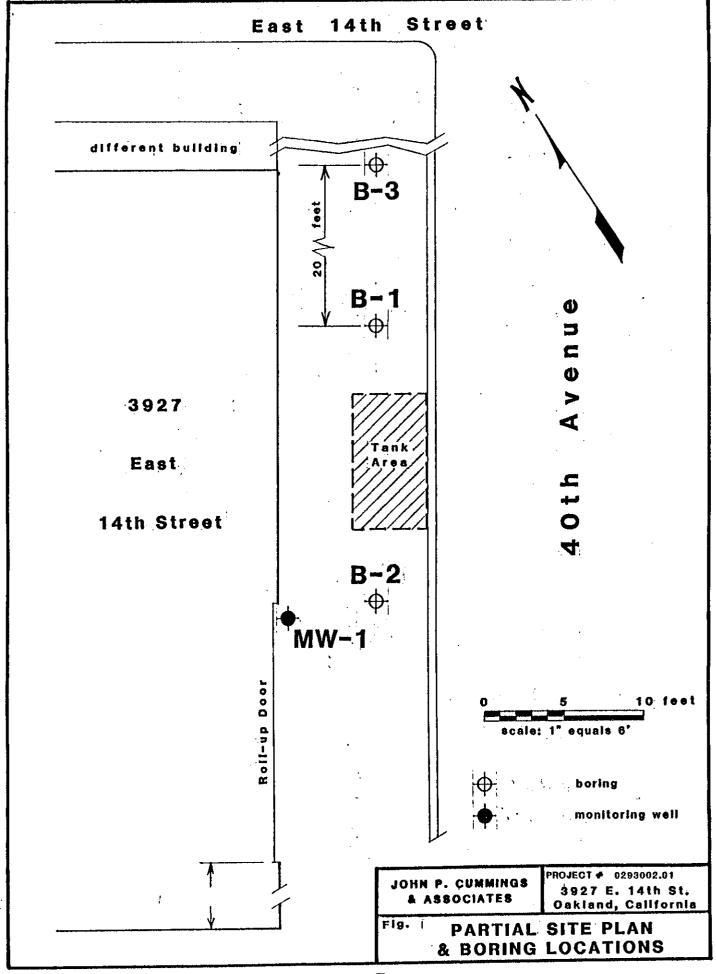
Soil samples from three borings and one well construction collected during previous investigations were analyzed. The results reported from the soil and groundwater analysis indicated levels of Total Petroleum Hydrocarbon as Gasoline (TPHG), Total Petroleum Hydrocarbon as Diesel (TPHD), Oil and Grease (TOG), Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and Cadmium, Chromium, Lead, Nickel and Zinc, (CAM 5 Metals), contamination which required further soil and groundwater investigation.

A request for quarterly groundwater monitoring of the existing well was sent from the Alameda County Department of Environmental Health (ACDEH) by letter dated February 22, 1995.

FIELD METHODS

On March 15, 1995 prior to purging and sampling the depth to groundwater was measured at 3.98 feet, by an electronic probe, from the mark located on the top of the casing. Larry Duffield, an Environmental Technician from GROWTH ENVIRONMENTAL SERVICES INC. (GROWTH), was collecting samples and measuring depth to groundwater at the same time I was collecting the groundwater sample from MW-1. He measured MW-1 as well as the OWEN'S parcel wells and gave me the data. MW-1 and the wells in the street need to be surveyed to determine the gradient.

Field notes are in Appendix A. The Site Plan is Figure 1.



Approximately 3 gallons of groundwater was removed from MW 1, by a pump which pumped the well to dryness. The water so removed was stored in a 55 gallon drum, marked awaiting analysis.

After the well recovered, groundwater samples were collected from the well with a clean, dedicated acrylic bailer and placed in two pre-cleaned 40-ml vials with Teflon-coated septa, acidified with hydrochloric acid, two one-liter glass containers, one for TPHD and the other for TOG analysis were filled with the groundwater sample and one plastic 500 cc container was also filled for the CAM-5 analysis. The containers were labeled with sample identification, placed in an ice chest with "Blue-Ice", along with a Chain of Custody (COC) document and transported to MCCAMPBELL ANALYTICAL INC., a State Certified Laboratory in Pacheco, CA.

ANALYTICAL RESULTS

The groundwater sample was analyzed for TPHG, TPHD, BTEX TOG and CAM 5 metals. The results of the chemical analysis for TPHG, TPHD, BTEX and TOG in parts per billion (ppb) for the groundwater sample collected from Monitoring Well 1 are shown in Table 1 below. Laboratory Data Sheets, with detection limits, and a copy of the Chain of Custody (COC) are contained in Appendix B.

TABLE 1.

ppb

Sample ID	TPHD	TOG	TPHG	В	T	E	_X
MW-1 Water	3200	23,000	14000	2000	250	590	930

The CAM 5 metal analysis was non-detectable for Cadmium, Chromium, Nickel and Zinc in the groundwater. The Lead concentration was 29 ppb, a low value, and most likely indigenous to the local soil. The metals previously detected in the soil analysis were low and most likely indigenous to the local soil deposits, in other words background levels.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The groundwater level has risen considerably with the recent rains and is approximately 4 feet below grade.

No detectable levels of Cadmium, Chromium, Nickel and Zinc were found in the groundwater. The Lead concentration was 29 ppb a low value and most likely indigenous to the local soil. The metals previously detected in the soil samples are considered background.

The levels of petroleum product contamination in the groundwater are above action levels, however JPCA recommends that the results of the OWEN'S site investigation should be reviewed prior to any further action being commenced with the ACDEH.

JPCA will send the data on the subject parcel to GROWTH as agreed.

This report has been prepared specifically for Mr. Hausauer, through his Attorney, Robert W. Shapiro, with specific application to a possible hazardous waste investigation. The report has been prepared with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented.

Copies of this quarterly report are being forwarded to the ACDEH and the Regional Water Quality Control Board (RWQCB), as requested by Mr. Hausauer.

If you have any questions, please contact JPCA at (510) 505-0722. Sincerely,

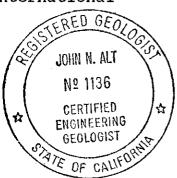
John P. Cummings

Principal

John N. Alt, CEG

EPIGENE International

cc; Rich Hiett, RWQCB
Barney Chan, ACDEH
GROWTH ENVIRONMENTAL SERVICES INC.



APPENDIX A

John P. Cummings and Associates P O Box 2847 38750 Paseo Padre Pkwy B-4 Fremont, CA 94536

Well Data Sheet Monitoring Well Sampling

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Date		3/15/9			Well No.:_		m w-1
Proje	ect Name	: Amee			Project No).: <u> </u>	MW-1 293002.02
Proi	ect Locati	on:					
Poss	sible Con	taminants:	TPHC	17014	D/BX	Ex/	10 G Motal
Well	Diamete	r:	2 "		/ Well Dept	h: <u>ዲ</u>	15
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		d: <u> </u>					
			duct: YesN	vlo. V · if v	ves thickn	1 0 00	
Evid	ence of t	loating Proc	iuci: resi	10 <u> </u>	yes, unom		-
She	en: Yes_	No_ <u>_</u>	;	Odor: Yes_	X_ No_		
	TIME	PURGE VOLUME	CUMULATIVE PURGE	TEMP ^o F	COND.	рН	COMMENTS
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APPENDIX B

McCAMPBELL

ANALYTICAL INC.

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

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John P. Cummings & Associates P.O. Box 2847 Fremont, CA 94536-2847			Client	Project ID: #	293002.02,	Hansen	Date Sampled: 03/15/95						
				****		Date Received: 03/17/95							
Fremont, CA	94536-2847	· ,	Client	Contact: John	ı Cumming		Date Extracted						
			Client	P.O;		· · · · · · · · · · · · · · · · · · ·	<u>-</u>						
			LUFT Metals* Date Analyzed: 03/17-03/20/										
		Ei	PA analytical methods		239.2,7420*	213.1,7130	218.1,7190	249.1,7520 289.1,					
Lab ID	Client II	D N	latrix .	Extraction ^o	Lead*	Cadmium	Chromium*	Nickel*	Zinc*				
50953	MW 1		W	TTLC	0.029	ND	ND	ND	ND				
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		<u> </u>			<u> </u>	Walter A. Company							
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Detection Limit	unless otherwis	se 1	w	TTLC	0.005mg/L	0.05	:						
stated; ND mea	ns Not Detecto	d -		TTLC	4.0 mg/kg	1.0	0.25 5.0	0.10	0.05				
				STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05				

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311 (TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, FTLC); STLC from CA Title

McCAMPBELL ANALYTICAL INC.

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

John P. Cummings & Associate P.O. Box 2847 Fremont, CA 94536-2847		ciates (Client Project ID: # 293002.02; Hanse	n Date Sampled:	Date Sampled: 03/15/95					
				Date Received:	Date Received: 03/17/95					
		C	lient Contact: John Cummings	Date Extracted	: 03/17/95					
			lient P.O:	Date Analyzed	03/17/95					
Total Recovera	ble Petrolei	ım Hydr	ocarbons as Oil & Grease (with Silic	a Gel Clean-up) by S	canning IR S					
PA method 418.1					:					
Lab ID	Client ID	Ma	trix TRPH ⁺	44.41						
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etection Limit			1.0 mg/L		!					
vise stated; NI Detec		s	50 mg/kg		<u> </u>					
**************************************	e reported	in mall	and soils in mg/kg	, , , , , , , , , , , , , , , , , , ,	: 					

DHS Certification No. 1644

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Edward Hamilton, Lab Director

Edward Hamilton, Lab Director

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; in o recognizable pattern; c) modified diesel?; light(cL) or heavy(cH) diesel compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present.

John P. Cummings & Associates P.O. Box 2847			Client Project ID: # 293002,02; Hansen Date Sampled: 03/15/95									
					Date Received: 03/17/95							
Fremont, CA	94536-2847	Clien	t Contact: Jol	ın Cummin		Date Extracted: 03/17/95						
		Clien	_		Date Anal	vzed: 03/17						
EPA methods 50	Gasoline Ra 30, modified 8015, a	inge (C6-C	12) Volatile F	lydrocarboi	as as Gasol		·					
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate				
50953	MW-1	W	14,000,a,h	2000	250	590	930	98				
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Detection Lim	it unless other- D means Not	w	50 ug/L	0.5	0.5	0.5	0.5	<u> </u>				
Dete	cted	S	1.0 mg/kg	0.005	0.005	0.005	0.005					

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

Edward Hamil

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does diesel range compounds are significant; h) lighter than water immiscible sheen is present.

CHAIN OF CUSTODY

John P. Cummings & Associates Environmental Consultants

	McCampbell Analytical 110 2nd Avenue South D-7 Pacheco, CA 94553							Ph. (510) 505-0722 Fax (510) 791-3306						P.O. Box 2847 Fremont, CA 94536-2847		
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			-				AI GRAS	line	./.		10/0		J'SL	5//		
Sample L.D.	Date/Time Sampled	Matrix Desc.	Con No. of	tainer Type	Lab. #		AIG8	STET.	64/01	60110	602180		N. W. Carl	/ //		
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