

John P. Cummings & Associates

Environmental Consultants
ENVIRONMENTAL
PROTECTION

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95 MAR 27 PM 3: 10

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

Reviewed By 6/20/95

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.

East 14th Street

different building

B-3

20 feet

B-1

3927

East

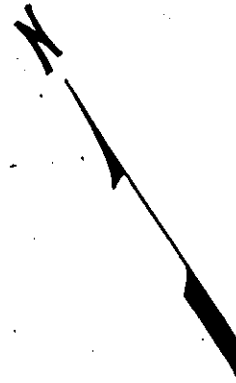
14th Street

Tank Area

B-2

MW-1

Roll-up Door



40th Avenue

0 5 10 feet

scale: 1" equals 6'



boring



monitoring well

JOHN P. CUMMINGS & ASSOCIATES

PROJECT # 0293002.01
3927 E. 14th St.
Oakland, California

Fig. 1

**PARTIAL SITE PLAN
& BORING LOCATIONS**

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.

Sample ID	ppb						
	TPHD	TOG	TPHG	B	T	E	X
MW-1 Water	3200	21000	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.

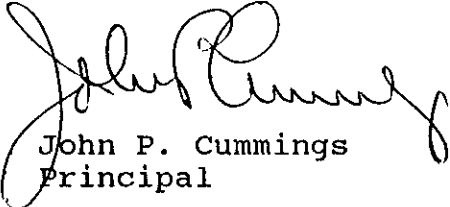
JPCA will send the data on the subject parcel to GROWTH as agreed.

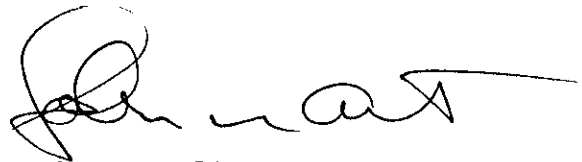
This report has been prepared specifically for Mr. Hausauer, through his Attorney, Robert W. Shapiro, with specific application to a possible hazardous waste investigation. The report has been prepared with the care and skill generally exercised by reputable professionals, under similar circumstances, 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.

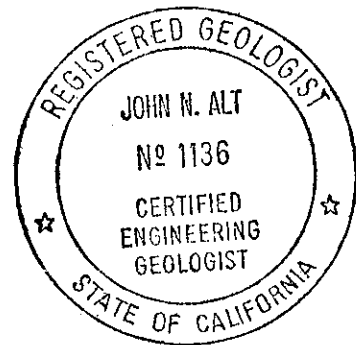
If you have any questions, please contact JPCA at (510) 505-0722.

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

Date: 3/15/95 Well No.: MW-1

Project Name: Anuse Project No.: 293 002.02

Project Location: _____

Possible Contaminants: TPHC / TCHD / BTEX / TOG / Metals
(13.9)

Well Diameter: 2" Well Depth: 215

Depth To Groundwater: 3.98 Approximate Casing Volume: 2.7 gal

Purge Method: Pump

Evidence of Floating Product: Yes ___ No X; if yes, thickness _____

Sheen: Yes ___ No X; Odor: Yes X No ___

TIME	PURGE VOLUME	CUMULATIVE PURGE	TEMP °F	COND.	pH	COMMENTS
9:30	3 gal	3 gal				Dynes

Sampling Method: Bailer

Comments: Dynes after 2 3.0 gal // odor hydro carbon

Signature: John P. Cummings MW-1 (Name)

21.75
 5 MW 3.65
 MW 4.30
 19.5

APPENDIX B

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

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

CHAIN OF CUSTODY

Laboratory: McCampbell Analytical
110 2nd Avenue South D-7
Pacheco, CA 94553
510-798-1620
Contact: Ed Hamilton

Contact: John P. Cummings
Project Name: Hansen
Date: 3/15/95
Sampler: JC
No.: V293042, U2

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analysis Requested							Comments	
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	Oil + Grease	Can 5 Metals		
1. MW-1	3/15/95 6:5	Water	2	40mL VOAS		X	X							
2.	↓	"	1	Liter				X						
3.	↓	"	1	Liter										
4.	↓	"	1	Plastic 1/2 Liter						X				50953
5.											X			
6.														
7.														
8.														
9.	ICE/T GOOD CONDITION HEADSPACE ABSENT													
10.														

Relinquished by: <i>John P. Cummings</i>	Date: 3/16/95	Time: 17:10	Received by: <i>Martin Coronado</i>	Date: 03/16/95	Time: 17:10
Relinquished by: <i>Martin Coronado</i>	Date: 03/16/95	Time: 5:50	Received by: <i>Lott Loren</i>	Date: 2/16/95	Time: 5:50
Relinquished by: <i>Lott Loren</i>	Date: 3/17/95	Time: 9:05 AM	Received by: <i>Verde Roca</i>	Date: 3/17/95	Time: 9:05 AM

Turnaround Time: Normal
Additional Comments: *Can 5 Metals Cd, Cr, Pb, Ni + Zn*
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