October 29, 1991

Mr. Willie Pettus
Pyatok Associates
339 15th Street
Oakland, CA 94612

Re: Site Remediation at: 690 15th Street, Oakland 94612

Dear Mr. Pettus,

Alameda County Environmental Health Department, Hazardous Materials Division has received a request from John Bosche of Subsurface Consultants, Inc. that this Department specify our position regarding case closure at the above location.

Subsurface excavation was performed by Subsurface Consultants, Inc due to contamination from petroleum hydrocarbons associated with two underground storage tanks which were removed in November of 1987 from the above site. Contamination as high as 5600 ppm of Total Petroleum Hydrocarbons which were detected following the tank removals. Following excavation on contaminated soil, the excavation was back filled with clean fill. On site aeration to remove volatile hydrocarbons was then performed. Soil was analyzed to confirm that acceptable levels were acheived prior to hauling the soil to a Class III landfill in Richmond.

On January 20, 1991 three monitoring well were installed. The first quarterly report for the three on site monitoring wells, performed on 5/8/91, indicated no detectable of petroleum hydrocarbons, however, relatively low levels (as high as 2.5 ppb) of tetrachloroethene were found in each well. Also the presence of 1.2 ppb of chloroform was detected in mw-1.

The subsequent quarterly report submitted on 8/13/91 indicated non detectable levels of both petroleum and halocarbon constituents.

Based on the ground water monitoring results reported above before site sign off is recommended by this office two additional sampling events performed at quarterly intervals before 5/8/92 need to indicate a non detectable amount of Total Volatile Hydrocarbons, Total Volatile Hydrocarbons and benzene, toluene, xylene, and ethyl-benzene.

Please feel free to contact me at 510/ 271-4320 with any questions.

Sincerely:

Paul M. Smith
Hazardous Materials Specialist

cc: John Bosche, Subsurface Consultants, Inc.
Roy Schweyer, City of Oakland Housing

WATER SAMPLE LOG

Sample No. S-8

oject No.: 8910011A 0100 Date: 11-8-89/11-9-89

oject Name: Shell Bass

mple Location: Well S-8 in center of station E of pumps.

ell Description: 4" ID. w/plastic locking cap. Put notch on TOC

eather Conditions: Sunny, warm

bservations / Comments: Sampled on 11-9-89.

Quality Assurance

Sampling Method: Teflon bailer

Method to Measure Water Level: Solinst sounder

ump Lines: (New) / Cleaned Bailer Lines: (New) / Cleaned

ethod of cleaning Pump / Bailer: Alconox wash, tap & DI water rinses

H Meter No.: Beckman 0230977 Calibrated 11-8-89

pecific Conductance Meter No.: YSI 1505 Calibrated 11-8-89

omments: T.D. = 48.20

1 w.c.v. = 29.30 gal. 5 w.c.v. = 146.50 gal.

Sampling Measurements

Water Level (below MP) at Start: 3.81 End: 3.85

Measuring Point (MP): notch at TOC

Time	Discharge (gallons)	pH	Temp (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1341	0	7.45	19.0	1580	high	Hgry	H_2S	Sal. 0.7‰
1408	50	7.46	19.5	1570	low	clear	none	0.7‰
1415	1185	7.45	19.0	1520	low	clear	none	0.7‰
1430	145	7.47	19.2	1530	low	clear	none	0.7‰
1000	145	on	11-9	-89				sampled

Total Discharge: 145 gallons Casing Volumes Removed: 5

Method of disposal of discharge water: 55 gallon drums

Number and size of sample containers filled: 2 40 ml VOA's and 1 1-liter amber glass bottle

Collected by: Dillon/Solberg

Woodward-Clyde Consultants
500 12th Street, Suite 100, Oakland, CA 94607-4014
(415) 893-3600

Table 2 Hydrocarbons in Confirmation Soil Stockpiles

Sample Designation	Gasoline (mg/kg)[1] ppm	Diesel	Benzene	Toluene (ug/kg)[2] ppb	Ethyl-benzene (ug/kg)	Total Xylenes (ug/kg)
13@15	ND[3]	ND	ND	ND	ND	ND
14@15	ND	ND	ND	ND	ND	ND
15@18	ND	ND	ND	ND	ND	ND
16@15	ND	ND	ND	7.4	ND	ND
17@22	ND	ND	ND	5.8	ND	7.3
18@22	210	ND	ND	280	960	5,400

Table 3 Hydrocarbons and Lead in Soil Stockpiles

Sample ID	Gasoline mg/kg	Diesel	B ug/kg	T ug/kg	E ug/kg	X ug/kg	Lead mg/kg	TCLP Lead ug/l
1,2,3,4	6.3	ND	ND	ND	6.1	28	6	ND
5,6,7,8	1.3	ND	ND	ND	ND	ND	ND	ND
9,10,11,12	ND	ND	ND	ND	ND	ND	ND	ND
19,20,21,22	39	ND	ND	ND	130	BID	ND	ND
23,24,25,26	38	ND	ND	ND	ND	520	ND	ND
27,28,29,30	ND	ND	ND	ND	ND	ND	5	ND
31,32,33,34	1.7	ND	ND	8.0	ND	37	ND	ND
35,36,37,38	ND	ND	ND	ND	ND	ND	ND	ND
39,40,41,42	ND	ND	ND	ND	ND	ND	ND	ND
43	ND	ND	ND	ND	ND	ND	--	--

Table 4 Reactivity, Corrosivity and Ignitability in Soil

Composite Sample ID	Releasable Cyanide	Releasable Sulfide	Flash Point degrees C	pH
5,6,7,8	ND	ND	>100	8.3

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 104292
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 613.003
LOCATION: DIGNITY HOUSING

DATE RECEIVED: 06/26/91
DATE EXTRACTED: 06/26/91
DATE ANALYZED: 06/27/91
DATE REPORTED: 07/01/91

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
104292-1	44	ND	ND	1.0

ND = Not Detected at or above reporting limit.

*Reporting limit applies to all analytes.

QA/QC SUMMARY

RPD, %	2
RECOVERY, %	82

Subsurface Consultants 104292

CHAIN OF CUSTODY RECORD
& ANALYTICAL TEST REQUEST

Project Name: Dignity Housing

SCI Job Number: 615.003

Project Contact at SCI: John Bosche

Sampled By: Dennis Alexander

Analytical Laboratory: Curtis + Tompkins

Analytical Turnaround: Rapid (need verbal ASAP!)

Sample ID	Sample Type[1]	Container Type[2]	Sampling Date	Hold	Analysis	Analytical Method
44	S	T	6/26/91		TVH/BTXE TEH	

* * * * * *

Released by: D. Alexander Received by: _____ Date: 6/26/91

Released by: _____ Received by: _____ Date: _____

Received by Laboratory: Joanne Reed Date: 6/26/91

Released by Laboratory: _____ Date: _____

Released by: _____ Date: _____

[1] Sample Type: W = Water, S = Soil, O = Other (specify)
[2] Container Type: V = VOA, P = Plastic, G = Glass, T = Brass Tube, O = Other (specify)

NOTES TO LABORATORY:
- Notify SCI if there are any anomalous peaks on GC or other scans
- Questions/clarifications - Contact SCI at (415) 268-0461