

August 29, 1991
SCI 615.002

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Dignity Housing West
c/o Mr. Willie Pettus
Pyatok Associates
339 15th Street, Suite #212
Oakland, CA 94612

Quarterly Groundwater Monitoring Report
August 1991
Dignity Housing West
15th and Castro Streets
Oakland, California

Dear Mr. Pettus:

This letter transmits the analytical results of the August 1991 quarterly groundwater monitoring event at the referenced project. Details of well construction are presented in our Phase II Hydrocarbon Contamination Assessment Report and Remediation Work Plan dated May 15, 1991.

The depth to groundwater was measured on August 13, 1991. Groundwater level data are summarized below. A site plan showing the locations of the wells and the groundwater gradient at the site on August 13, 1991 is attached. *not attached.*

Table 1. Groundwater Levels

| Well | Date | Top of Casing Elevation ¹ | Depth to Groundwater (ft) ² | Groundwater Elevation (ft) ¹ |
|------|----------|--------------------------------------|--|---|
| MW-1 | 05/08/91 | 27.62 | 26.82 | 0.80 |
| | 08/13/91 | | 27.06 | 0.56 |
| MW-2 | 05/08/91 | 27.97 | 26.88 | 1.09 |
| | 08/13/91 | | 27.11 | 0.86 |
| MW-3 | 05/08/91 | 29.90 | 28.54 | 1.31 |
| | 08/13/91 | | 28.82 | 1.08 |

¹ Elevations are referenced to project datum established by Bates and Bailey on the land survey and topographic plan of February 25, 1991.

² Depth is measured from the top of well casing.

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Dignity Housing West
c/o Mr. Willie Pettus
Pyatok Associates
SCI 615.002
August 29, 1991
Page 2

The wells were each purged by removing approximately 5 gallons of water. Groundwater samples were obtained using a precleaned Teflon sampling device, placed in precleaned containers and kept refrigerated until delivery to the analytical laboratory. The samples were accompanied by a chain-of-custody record, a copy of which is attached. The next quarterly sampling is scheduled for November 12, 1991.

Analytical testing was performed by Curtis & Tompkins, Ltd., a State of California Department of Health Services (DHS) certified analytical laboratory for the tests performed. The analytical tests included:

1. Total volatile hydrocarbons (TVH), sample preparation and analysis using EPA Methods 5030 (purge and trap) and 8015 modified (gas chromatograph coupled to a flame ionization detector),
2. Total extractable hydrocarbons (TEH), sample preparation and analysis using EPA Methods 3550 (sonication) and 8015 (modified gas chromatograph coupled to a flame ionization detector),
3. Benzene, toluene, xylenes and ethylbenzene (BTXE), sample preparation and analysis using EPA Methods 5030 and 8020 (gas chromatograph coupled to a flame ionization detector),
4. Purgeable halocarbons (EPA 8010), sample preparation and analysis using EPA methods 5030 (purge and trap) and 8010 (gas chromatograph coupled to an electrolytic conductivity detector).

Copies of the August 1991 sampling event analytical test reports are attached. The results of the quarterly sampling event analytical tests are summarized in Table 2.

Dignity Housing West
 c/o Mr. Willie Pettus
 Pyatok Associates
 SCI 615.002
 August 29, 1991
 Page 3

Table 2. Analytical Test Results

| Well | Sample Date | TVH ¹ ug/kg | TEH ² ug/kg | Benzene ug/kg | Toluene ug/kg | Total Xylenes ug/kg | Ethyl-Benzene ug/kg | EPA ³ 8010 Chemicals ug/kg |
|------|-------------|---------------------------|---------------------------|------------------|------------------|------------------------|------------------------|--|
| MW-1 | 05/08/91 | <50 | <50 | <1 | <1 | <1 | <1 | 3.7 ⁴ |
| | 08/13/91 | <50 | <50 | <1 | <1 | <1 | <1 | <1 ⁵ |
| MW-2 | 05/08/91 | <50 | <50 | <1 | <1 | <1 | <1 | 1.1 ⁶ |
| | 08/13/91 | <50 | <50 | <1 | <1 | <1 | <1 | <5 ⁵ |
| MW-3 | 05/08/91 | <50 | <50 | <1 | <1 | <1 | <1 | 1.1 ⁶ |
| | 08/13/91 | <50 | <50 | <1 | <1 | <1 | <1 | <1 ⁵ |

¹ TVH = Total Volatile Hydrocarbons

² TEH = Total Extractable Hydrocarbons

³ EPA 8010 = Purgeable Halocarbons; for a complete list of chemicals analyzed, refer to analytical test reports.

⁴ 1.2 ug/kg chloroform plus 2.5 ug/kg tetrachloroethene detected; no other EPA 8010 chemicals present above detection limits

⁵ Detection limits for EPA 8010 chemicals vary from 1.0 to 2.0 ug/kg

⁶ 1.1 ug/kg tetrachloroethene detected; no other EPA 8010 chemicals present above detection limits

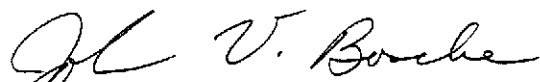
The above summary indicates that total volatile hydrocarbons (TVH) as gasoline, total extractable hydrocarbons (TEH), the constituents benzene, toluene, xylene, and ethylbenzene (BTXE), and purgeable halocarbons (EPA 8010) were not present above detection limits in the water samples.

Per your request, we are forwarding a copy of this letter and the analytical test results directly to Alameda County Health Care Services Agency (ACHCSA) and the Regional Water Quality Control Board (RWQCB).

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.



John V. Bosche

Geotechnical Engineer 156 (expires 3/31/92)

Dignity Housing West
c/o Mr. Willie Pettus
Pyatok Associates
SCI 615.002
August 29, 1991
Page 4

JVB:RWR:ddh

Attachments: Analytical Test Report
Chain-of-Custody Form

cc: Mr. Paul Smith - ACHCSA
Mr. Richard Heitt - RWQCB