

Environmental and Geologic Services

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08-2411 Fax: 510-547-5043 Phone: **510-450-6000**

Mr. Jeff Granberry Shell Oil Company P.O. Box 5278 Concord, California

need lab reports

Re: Soil Sampling and Excavation Shell Service Station 2120 Montana Street Oakland, California WIC #204-5508-0208 WA Job #81-741

1026

August 25, 1993

Dear Mr. Granberry,

As requested by Dan Kirk of Shell Oil Company, Weiss Associates conducted soil sampling and supervised the excavation of hydrocarbon-bearing soil beneath the remote fill piping at the site referenced above. This letter presents a summary of our activities.

On July 6, 1993 Weiss Associates collected three soil samples (SS-1, SS-2, SS-3) from about one foot beneath former remote fill line piping. We also collected one sample (SS-4) from the sidewall of the excavation near the fill line. Ronald Owcarz of the Alameda County Department of Environmental Health (ACDEH) supervised sample collection. Soil sample locations are shown in Figure 1.

The samples were submitted to a certified laboratory and analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene and xylenes (BTEX), and total lead. The analytical results indicated that SS-1, SS-3 and SS-4 contained a maximum of 13 parts per million (ppm) TPH-G (Table 1). Sample SS-2 contained 560 ppm TPH-G, 3.3 ppm benzene and 61.9 ppm total lead.

On July 12, 1993 Paradise Construction excavated hydrocarbon-bearing soil in the vicinity of comple 55-2. Paradiso hand excavated approximately three feet below grade, where they encountered several underground lines including sewer, water and electrical conduits. On July 14, hydrocarbons were detected in the soil by a photoionization detector (PID). Therefore, the excavation was enlarged to 5 feet below grade, the maximum depth allowable for hand excavation. Machine excavation was not possible due to the utilities crossing the area.

Weiss Associates

Jeff Granberry August 25, 1993

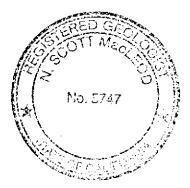
25-5+5-8- fta +6+5-8-5

On July 19, 20 and 21 two excavation sidewall samples (SS-6 and SS-8) and two floor samples from about five feet depth (SS-5 and SS-9) were collected as requested by Ronald Owcarz. Although no benzene was detected in any of the samples, up to 73 ppm TPH-G were detected in samples SS-5 and SS-6. Additional lead analyses requested by Jennifer Eberle of the ACDEH indicated that organic lead was present in sample SS-5 at 9.9 ppm and in SS-6 at 31.8 ppm. A waste extraction test (WET) for soluble lead in sample SS-2 indicated the presence Trequested TOTAL lead results? of only 3.32 ppm soluble lead.

Since further excavation was not possible, and since the analytic results documented that all soil containing over 100 ppm TPH-G had been excavated, Rohand Containing over 100 ppm TPH-G had been excavated, ACDEH indicated that no additional creation would be required.¹ Mr. Owcarz also approved the backfilling of the excavation with clean fill material.

Approximately four yards of soil were excavated and are currently stockpiled at the site and covered with plastic sheeting. A composite soil sample (SS-11A-D) has been collected and submitted to the lab for analysis. Weiss Associates is in the process of arranging for the disposal of this soil at an appropriate disposal facility. D results?

Please contact us if you have any questions,



Sincerely, Weiss Associates

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Alison Watts Senior Staff Geologist

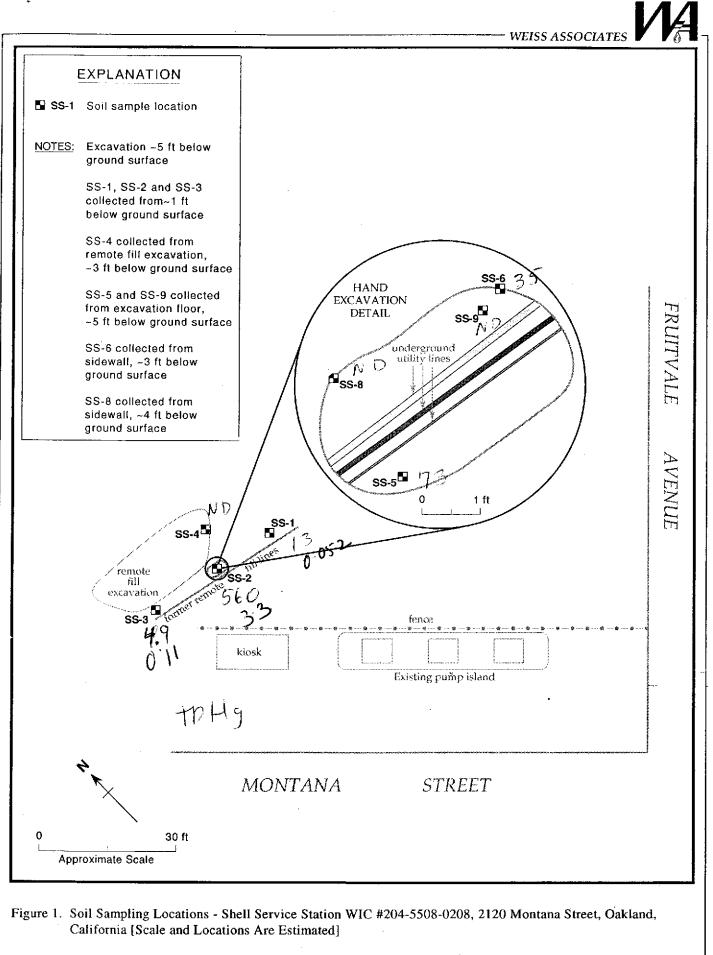
N. Scott MacLeod, R.G. **Project Geologist**

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cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998 Jennifer Eberle, Alameda County Department of Environmental Health, 80 Swan Way, Rm 200, Oakland, California, 94621 Steven Ritchie, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland 94612

¹

Ronald Owcarz, July 19, 1993, Telephone conversation between Ronald Owcarz of Alameda Department of Environmental Health and Alison Watts of Weiss Associates.



RMP → a location map showing informina area 6 - I for will they handle futur constra-health softy C & they ever develop the sile will M-pualitate reco - couple of grobiges samples

Sample ID	Depth Sampled (ft)	Date Sampled	THP-G	В	E	T	X	Total Lead	WET Lead
			<>						
s-1	1	07/06/93	13	0.052	0.046	0.055	0.041	47.4	
s-2	1	07/06/93	560 /	3.3	8.0	<0.005	100	61.9	3.32 🦯
s-3	1	07/06/93	4.9	0.11	0.061	0.10	0.14	30.0	
s-4	3	07/06/93	<0.5	<0.005	<0.005	0.013	0.006	2.2	•• ·
5-5	5	07/19/93	73 🦯	<0.005	0.47	0.073	2.0	9.9	
S-6	3	07/20/93	35 🦯	<0.005	<0.005	<0.005	0.090	31.8	
S-8	4	07/20/93	<0.5 /	<0.005 /	<0.005	<0.005	<0.005		
s-9	5	07/21/93	× <0.5	<0.005	<0.005	<0.005	<0.005		

Abbreviations:

TPH-G = Total petroleum hydrocarbons by modified EPA Method 8015 B = Benzene by modified EPA Method 8020 E = Ethylbenzene by modified EPA Method 8020 T = Toluene by modified EPA Method 8020 X = Xylenes by modified EPA Method 8020 Total Lead = Organic and Inorganic Lead by EPA Method 7421 WET Lead = Waste Extraction Test for lead by Modified EPA Method 6010 ft = Feet below ground surface