



ON-SITE TECHNOLOGIES

Project: 1891123A
File: 891123a.ssp

July 5, 1989

Soil Sampling Plan

Name of Business: Desert Petroleum (ARCO Station)

Site Address: 2844 Mountain Blvd.
Oakland, California

Type of work to be performed: Soil samples to be obtained from;
1) ~~excavation of fill and bottom~~ soil removal from fill
~~excavation, super~~, 2) stockpiled soil
generated from 1), and 3) existing stockpile at northwest corner
of site. See Site Map (Figure 1).

Soil samples will be analyzed for Total Petroleum Hydrocarbons
(TPH) as gasoline plus Benzene, Toluene, Ethylbenzene, and Xylene
(BTEX).

Date Scheduled: July 7, 1989

Regulatory Contact: Larry Seto, (Alameda County Health
Department, Hazardous Materials Division).

Site Observations/ Soil Conditions:

Proposed soil sample locations, and the general area of soil
excavation are shown on the attached Site Map (Figure 1).

Four soil samples for each 50 cubic yards of stockpiled soil will
be composited (by the laboratory) into into one sample in
accordance with the Bay Area Air Quality Management District.

Actual soil sample locations, excavation limits, and results of
sample analyses will be documented and presented in a final
report.

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

Hazardous Materials Specialists

1715 S. Bascom Avenue ▼ Campbell, CA 95008 ▼ (408) 371-4810 ▼ FAX (408) 371-2010

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Soil Sample Identification: (see attached site map)

<u>Sample #</u>	<u>Depth (ft.)</u>	<u>Location</u>
TP325-1		Stockpile #1
TP325-2		Stockpile #1
TP325-3		Stockpile #1
TP325-4		Stockpile #1
TP325-5		Super un1
TP325-6		Super un1
TP325-7		Super un1
TP325-5		Stockpile #2
TP325-6		Stockpile #2
TP325-7		Stockpile #2
TP325-8		Stockpile #2

Description of soil sampled from ~~tank excavation:~~

Soil types encountered will be described in accordance with the Unified Soil Classification System.

Method of soil sample collection and handling:

- Soil sampled from the excavation pit will be brought to the surface in the shovel of a backhoe and remained in the shovel. Several inches of soil will be removed from the exposed surface and the sample will be obtained by driving a clean brass tube with a mallet into the soil. Soil sampled from the stockpiles will be performed in a similar manner except that two to three feet of material will be removed from the surface of the stockpile before sampling.
- Each end of the sample tube containing the soil will be covered with aluminum foil, followed by plastic end caps and then sealed with duct tape.
- Soil samples will be labeled and immediately placed in a refrigerated ice chest. They will be maintained in that condition until delivered to a DHS certified analytical laboratory for analysis.
- Chain-of-custody documentation will be maintained and a copy will be provided in the final report.

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Laboratory results:

All soil samples will be analyzed by Anametrix, Inc. which is state certified for performing the required tests. Soil samples will be analyzed for TPH (gasoline) plus BTEX. Copies of all laboratory reports will be presented in the final report.

The results of soil sample analyses will be summarized in a tabular format as shown below:

**Summary of Total Petroleum Hydrocarbon (gasoline)
plus BTEX Results**

Sample #	Sample depth (ft)	TPH as gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)
TP325-1		Stockpile #1				
TP325-2		Stockpile #1				
TP325-3		Stockpile #1				
TP325-4		Stockpile #1				
TP325-5		Super un1				
TP325-6		Super un1				
TP325-7		Super un1				
TP325-5		Stockpile #2				
TP325-6		Stockpile #2				
TP325-7		Stockpile #2				
TP325-8		Stockpile #2				

Note: ND indicates non-detectable (see laboratory report for detection limits)

Note: TP325-1 through TP325-4 composited into one sample and TP325-5 through TP325-8 composited into one sample.


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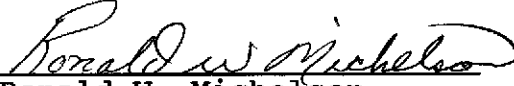
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Certification:

To the best of our knowledge all statements are true and correct.

Reviewed by:


Alfred R. Diaz
Project Manager
Hydrogeologist


Ronald W. Michelson
Registered Geologist
(CA #3875)

Distribution:

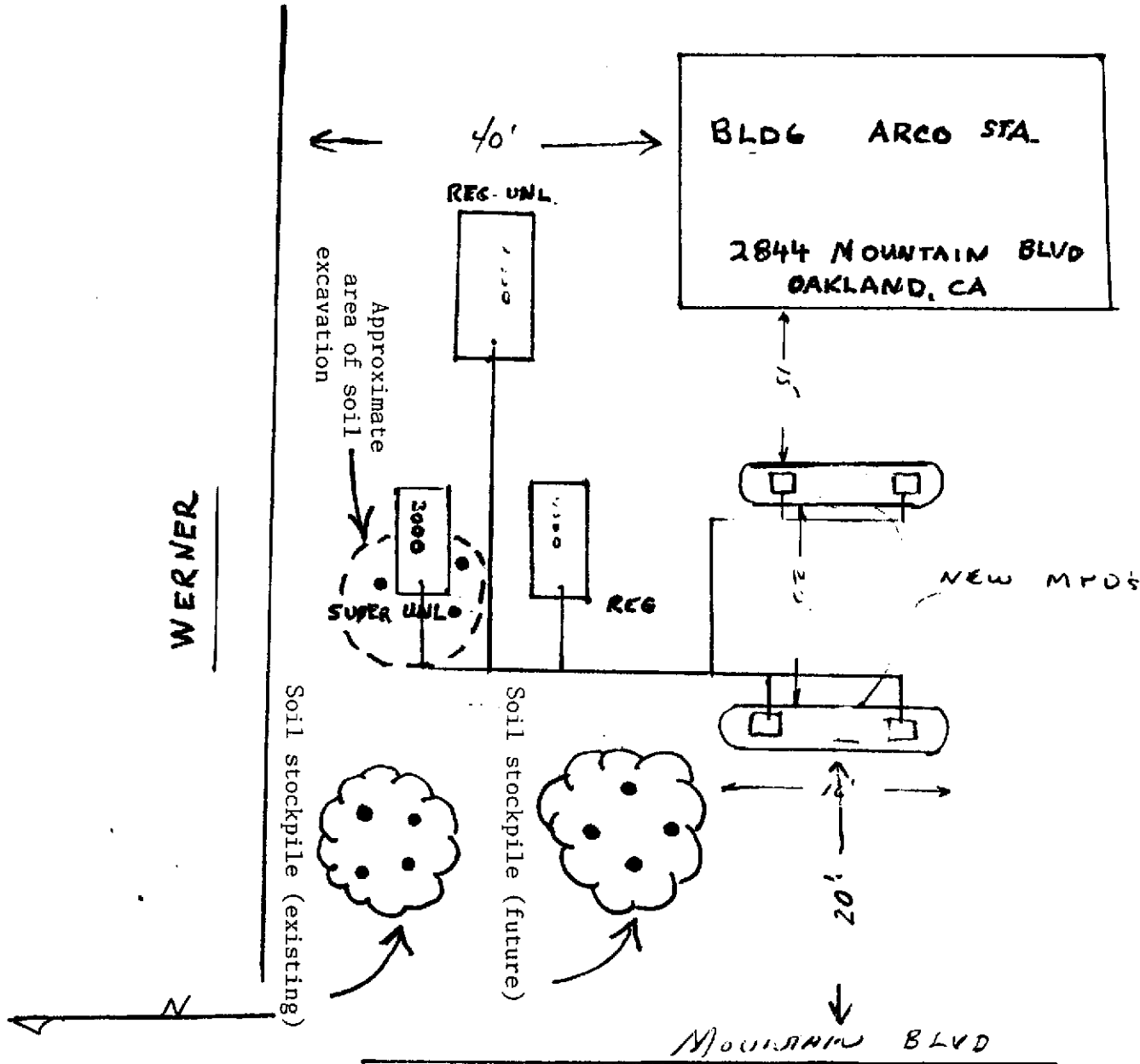
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Alameda County Health Department
Hazardous Materials Division
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Mr. John Rutheford
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P.O. Box 1601
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Mr. Pat McShane
Diablo Tank and Equipment
3930 Pacheco Blvd.
Martinez, CA 94553



"ASSUMED" EXISTING LINE TRENCHES



● Proposed soil sample locations

Desert Petroleum
2844 Mountain Blvd.
Oakland, CA

FIGURE 1

Approx SCALE
1/16" = 1'