



SP ENVIRONMENTAL SYSTEMS, INC.

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September 28, 1990

Mr. Dennis Byrne
Alameda County Health Care Services Agency
Department of Environmental Health - Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Subject: Work Plan for Soil Investigation
5th & Kirkham Streets Site
Oakland, California
SPEvS Job # 05032

Dear Mr. Byrne:

On behalf of Southern Pacific Transportation Company (SPTCo), SP Environmental Systems Inc. (SPEvS) is submitting the attached proposed work plan for an assessment of the presence and extent of soil contamination resulting from an automobile dismantling operation at the above referenced location.

We would like to start work the week of October 15, 1990.

If there are any questions do not hesitate to contact Walter Floyd at 916-369-8971.

Sincerely,

A handwritten signature in dark ink, reading "John F. Spisak / RNB". The signature is written in a cursive, flowing style.

John Spisak
President

WORK PLAN

Background Information

The property located on 3rd Street between Chester and Cypress Streets in Oakland, California was leased to Mr. John Bobo from 1977 to 1989 . This property is part of a larger property owned by Southern Pacific Transportation Company (SPTCo) known as the 5th and Kirkham Street property. Mr. Bobo operated an automobile dismantling yard during his occupation of the property (Bobo's Junkyard). This work plan describes the procedures to be used for assessing the presence and extent of soil contamination resulting from the junkyard wastes.

Scope of Work

SP Environmental Systems (SPEvS) proposes to place five exploratory borings on the property in the approximate positions shown in Figure 1. Soil samples will be collected from each boring for laboratory analysis. A final report including laboratory results and recommendations for remediation will be presented upon completion.

Procedures

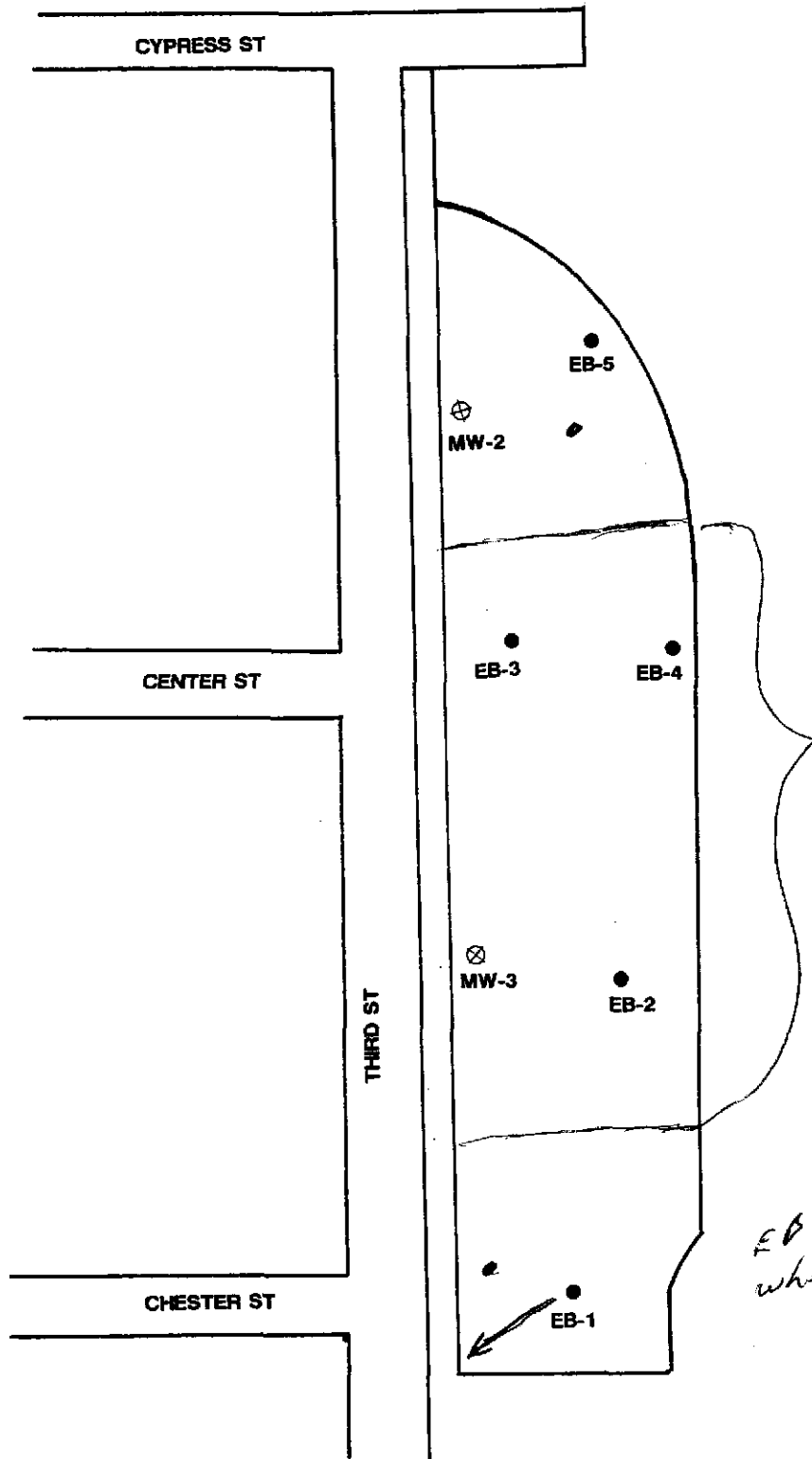
After the Underground Service Alert has been notified and all underground utility lines identified, one exploratory boring will be advanced in each of the locations shown in Figure 1. The boring will be drilled using a truck mounted drill rig utilizing either 8 inch outside diameter hollow stem augers or 5 inch diameter flight augers. The boring will be advanced until groundwater is encountered, which is anticipated to be at a depth of 10 feet below grade. Upon completion, the boring will be backfilled with a grout bentonite mixture.

Soil samples for logging purposes and for laboratory analysis will be collected at the surface and at 5 foot intervals. The samples will be collected within a California modified split spoon sampler driven into the soil approximately 18 inches. Three 2 inch diameter by 6 inch length brass tubes will be fitted within the sampler to retain samples. Samples for laboratory analysis will be immediately covered with teflon tape, capped with plastic end caps and sealed with black electrical tape. The samples will be labeled and stored in a cooled ice chest for storage until delivered to a state certified hazardous waste laboratory. A chain

Proposed Work Plan
Fifth And Kirkham Streets
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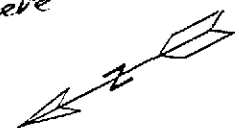
of custody will be completed for each sample and included in the ice chest upon shipment to the laboratory. The soil samples will be analyzed for PCB's using EPA Method 8080, total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015, total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 3550/8015, total oil and grease (TOG) using SM 503E, volatile organic compounds (VOC) using EPA Method 8240, and the metals Cadmium, Chromium, Copper, Lead, Mercury, Nickel, and Zinc using EPA Method 6010.

The cutting generated from the borings will be contained in steel drums approved for the temporary storage and transport of hazardous wastes. Drums will be identified as to the date of collection, origin of material contained therein, and type of material.



concrete pad
one or two
borings within
padded area

EB-1 moved to area
where



SP ENVIRONMENTAL SYSTEMS

PROJECT NO. 05032

DATE: 9-90

DRAWN BY: WDF

CHECKED BY: WG

**PROPOSED LOCATION OF
EXPLORATORY BORINGS
FIFTH & KIRKHAM ST.
OAKLAND, CALIFORNIA**

FIGURE
1

1" = 100'
SCALE