

P & D ENVIRONMENTAL

A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 638-6916

October 8, 1999
Work Plan 0014.W6

Mr. Scott Seery
Alameda County Department of Environmental Health
1131 Harbor Parkway
Alameda, CA 94502

SUBJECT: UPDATED SUBSURFACE INVESTIGATION WORK PLAN
3571 Castro Valley Boulevard
3495 Castro Valley Boulevard vicinity
Castro Valley, CA

Dear Mr. Seery:

P&D Environmental, a division of Paul H. King, Inc. (P&D), is pleased to present this updated work plan for the collection of two groundwater grab samples at 3571 Castro Valley Boulevard. This work plan has been prepared in response to a request from Mr. Todd Chapman of the firm Allen Matkins for a county-approved work plan specifically for the subject property. Mr. Chapman is the representative for the property owner at 3571 Castro Valley Boulevard. This work plan is prepared in accordance with your request for a work plan in a letter dated May 13, 1997. A Site Location Map is attached as Figure 1, and a Site Plan showing the proposed groundwater grab sample collection locations is attached as Figure 2.

All work will be performed under the direct supervision of an appropriately registered professional. This work plan is prepared in accordance with guidelines set forth in the document "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991.

BACKGROUND

As part of a groundwater quality investigation in the vicinity of the intersection of Castro Valley Boulevard and Redwood Road in Castro Valley, access to the property at 3571 Castro Valley Boulevard was requested. Mr. Todd Chapman, representative for the property owner, has requested that P&D prepare an updated work plan for county approval for investigation of the subject site.

SCOPE OF WORK

To collect the groundwater grab samples, P&D will perform the following tasks.

- o Regulatory agency coordination.
- o Obtain permission for property access.
- o Hand auger two boreholes.
- o Collect one groundwater grab sample from each borehole.
- o Arrange for sample analysis for Total Petroleum Hydrocarbons as Diesel (TPH-D), Total Petroleum Hydrocarbons as Gasoline (TPH-G), MTBE, and benzene, toluene, ethylbenzene and xylenes (BTEX).
- o Report preparation documenting collection of the groundwater grab samples and the laboratory analytical results.

Each of these is discussed below in detail.

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Regulatory Agency Coordination and Site Access Permission

Following approval of this work plan, and receipt of written permission for access to the subject property, a permit application will be submitted to the Alameda County Public Works Agency office for the hand augering of the boreholes.

After the permit has been approved, Underground Service Alert will be notified for underground utility location. Prior to the beginning of field work, a health and safety plan will be prepared.

Hand Augering of Two Boreholes and Groundwater Grab Sample Collection

Two boreholes, designated as P27 and P28, will be hand augered at the locations shown on Figure 2.

A 3.5-inch diameter hand auger will be used to auger to a depth of approximately 8 to 12 feet below the ground surface. Based on previous subsurface investigations near the site, first encountered groundwater is anticipated at a depth of approximately 6 to 10 feet. The total anticipated depth of exploration is approximately 12 feet. The hand augers will be washed with an Alconox solution followed by a clean water rinse prior to use in each borehole. The soil from the borehole samples will be logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System and with a photoionization detector.

Groundwater grab samples will be collected from each borehole with a Teflon bailer. The Teflon bailer will be washed with an Alconox solution followed by a clean water rinse prior to use in each borehole. The samples will be transferred from the bailer to 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles and sealed with Teflon-lined screw caps. The VOA vials will be overturned and tapped to assure that no air bubbles are present. The sample bottles will then be labeled and placed into a cooler with ice pending delivery to a State-certified hazardous waste testing laboratory. Chain of custody procedures will be observed for all sample handling.

Soil and water generated during hand augering will be removed from the site for storage at 3495 Castro Valley Boulevard pending characterization and appropriate disposal.

Groundwater Sample Analysis

The groundwater samples from the boreholes will be analyzed at McCampbell Analytical Inc. of Pacheco, California for TPH-D using EPA Method 3550 in conjunction with Modified EPA 8015, TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015, MTBE, and for BTEX using EPA Method 8020 on a normal turn around basis. McCampbell Analytical, Inc. is a State-accredited laboratory.

Report Preparation

Upon receipt of the laboratory analytical results, a report will be prepared. The report will contain documentation of field activities associated with the collection of the groundwater grab samples; copies of the laboratory analytical reports and chain of custody documentation; a tabulated summary of the laboratory analytical results; a discussion of the local geology and hydrogeology; a discussion of the results and recommendations based upon the laboratory analytical results; and the signature and stamp of an appropriately registered professional.

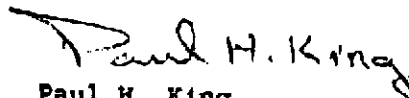
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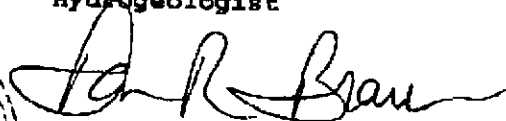
Should you have any questions, please do not hesitate to contact us at
(510) 658-6916.

Sincerely,

P&D Environmental



Paul H. King
Hydrogeologist



Don R. Braun
Certified Engineering Geologist
Registration No.: 1310
Expires: 6/30/00

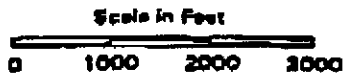
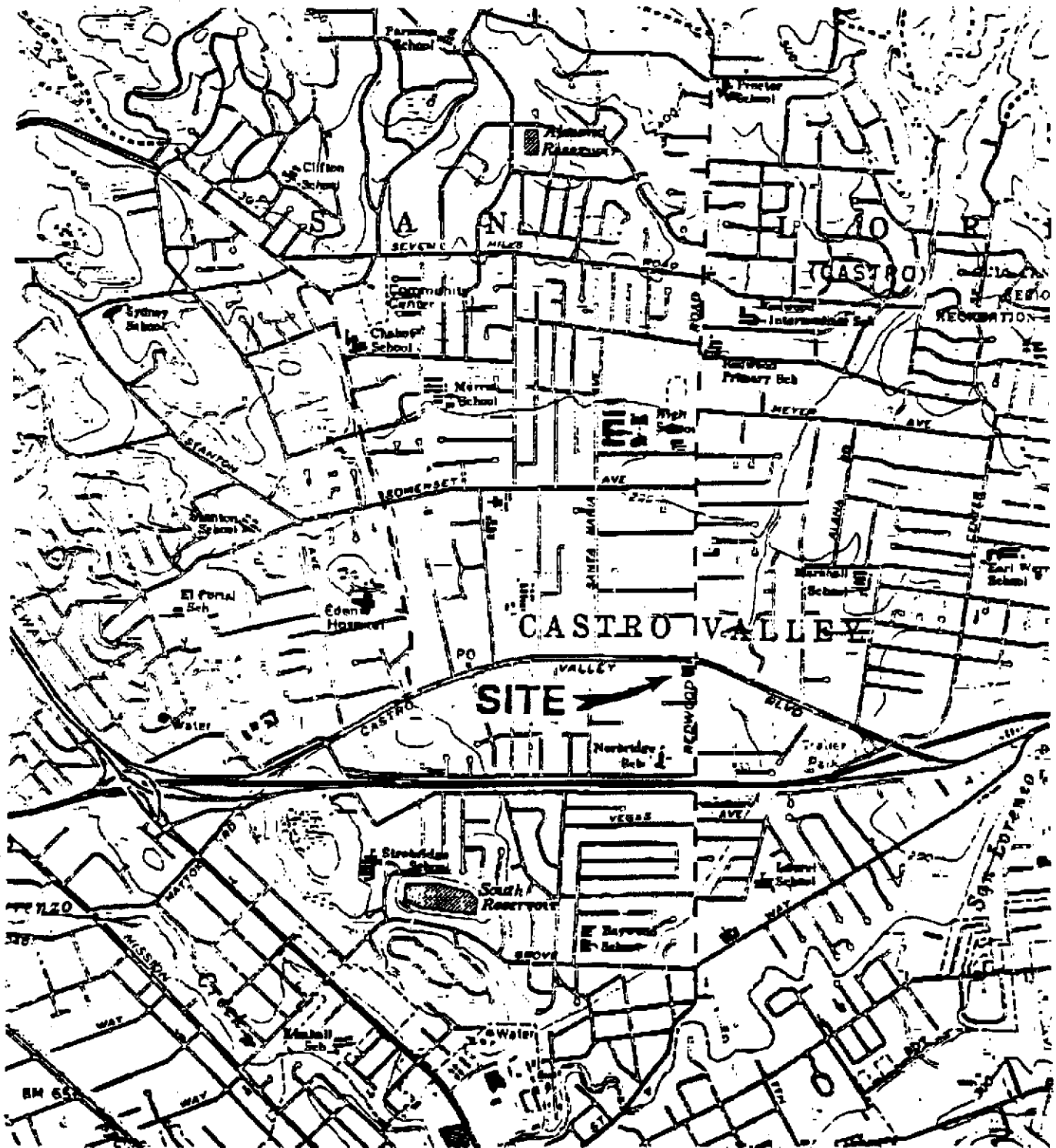
Attachments: Site Location Map - Figure 1
Site Plan - Figure 2

cc: Mr. Todd Chapman, Allen Matkins
Mr. Keith Simas, XTRA OIL Company

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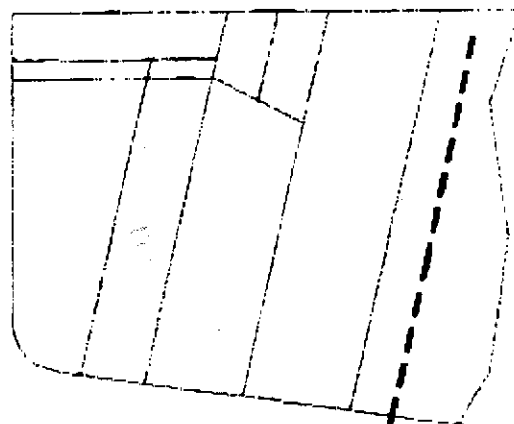
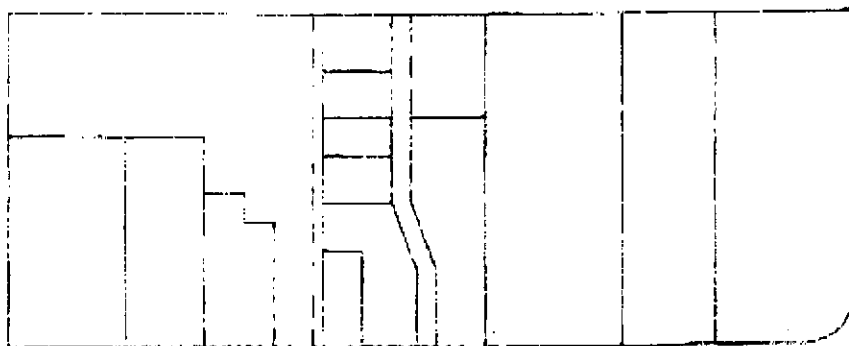


Base Map from:
U.S. Geological Survey
Hayward, Calif.
7.5 Minute Quadrangle
Photorevised 1980

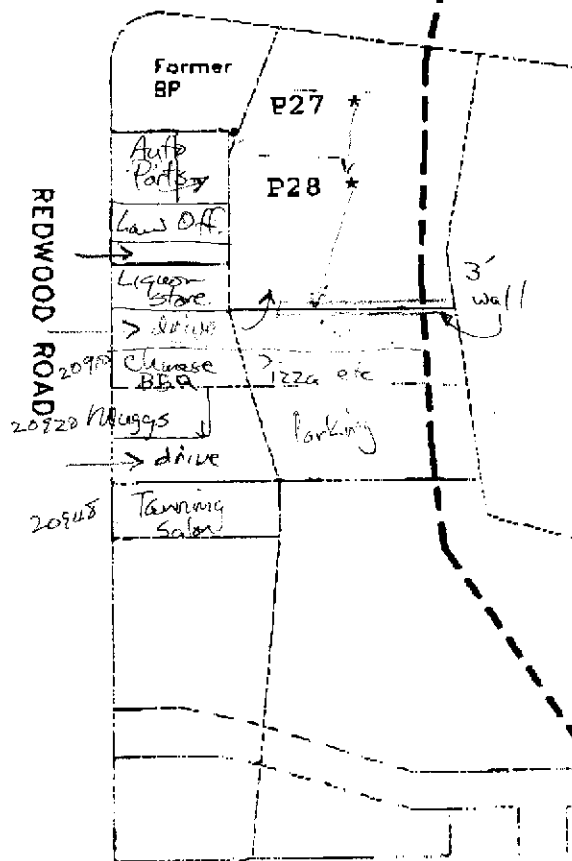
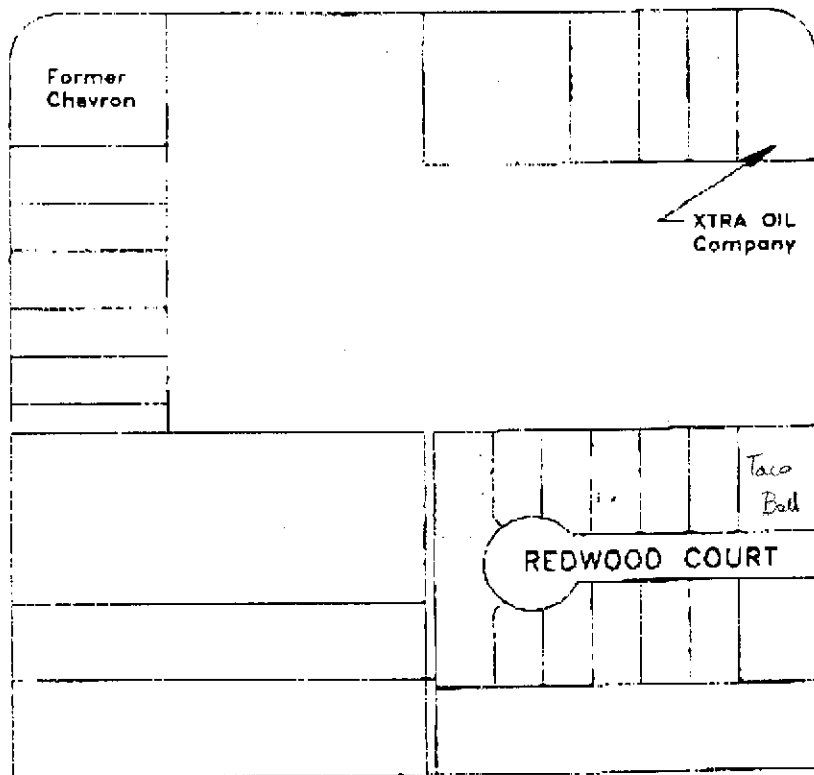
Figure 1
SITE LOCATION MAP
XTRA OIL Company
3495 Castro Valley Blvd.
Alameda, California

P & D Environmental

4020 Panama Court
Oakland, CA 94611
Telephone (510) 658-6916



CASTRO VALLEY BOULEVARD



Legend

* Proposed Groundwater Grab Sample Collection Location

--- Approximate Creek Location

Base Map from:
Castro Valley Sanitation District
Undated
(8/1/08)

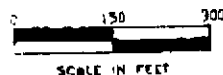


Figure 2
SITE VICINITY MAP
XTRA OIL Company
3495 Castro Valley Blvd.
Castro Valley, California

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FAX TRANSMITTAL COVER SHEET

Date: 10/12/99 Job #: _____

To: Scott Seery

Company: ACDEM

From: Paul H. King
P&D ENVIRONMENTAL

Number of pages in this transmittal, including this cover sheet: _____

SUBJECT: Property Access Request for P22 XTRA OIL,

MESSAGE: Castro Valley Investigation (0014.L81)

Scott, attached is letter to Tim Sharrock.

FYE.

-Paul

If transmittal is incomplete, please call (510) 658-6916.
P&D Environmental fax number: (510) 658-9074.

DESTINATION FAX NUMBER: 337-9335