



CERTIFIED

IN CALIFORNIA FORMERLY
earth metrics

7000 MARINA BOULEVARD, 4TH FLOOR, BRISBANE, CA 94005

FAX 415-742-1033

TO: Madhulla Logan DATE: 8-16-93

COMPANY: Alameda County, Hazardous Materials

FAX NUMBER: 510 569-4757

FROM: MARC PAPINEAU

CONFIDENTIAL: YES NO

TOTAL PAGES SENT (INCLUDING THIS PAGE): _____

REGARDING: _____

IF THERE ARE ANY PROBLEMS WITH RECEIPT OF THIS TELEFAX,
PLEASE CALL 415-742-9900

Please call after review. We will be
setting time for sampling @ 750 High Street for
August 17, 1993. Thanks
MARC

August, 16 1993

Ms. Madhulla Logan
Alameda County Environmental Health Services
Hazardous Materials and Storage Tanks Division
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Groundwater Sampling and Testing at 750 High Street,
Oakland, California for the Presence of Polychlorinated
Biphenyls (PCBs) (CERTIFIED/Earth Metrics file reference
S30257)

Dear Ms. Logan:

Enclosed please find the Work Plan to sample and analyze ground water collected from six (6) existing wells for Polychlorinated Biphenyls (PCBs) at the above-mentioned site. Destruction and grouting of monitoring wells on-site to grade surface will not occur the same day as sampling, but will be performed pending reportage of laboratory results to your office.

Please call me to let me know if you will attend the well sampling proposed to begin on August 17, 1993.

Sincerely,

Marc Papineau

Marc Papineau
Manager, Physical Sciences Department

LOCATION AND SITE DESCRIPTION

The subject site is located at 750 High Street, Oakland, California, and is presently occupied by a lumber store and asphalt-paved materials storage areas. Six monitoring wells exist throughout the paved area, made accessible to sampling personnel by the recent resurvey and uncovering of asphalt pavement.

The subject property is bounded by a service station to the west, a railroad to the north and commercial businesses to the east and south.

BACKGROUND

The subject site was previously used as a car parts store. Soil was scraped and off-hauled for proper disposal in June 1990 to remove PCB-affected soil. Six monitoring wells were installed in 1989. The six on-Site monitoring wells were sampled and tested for PCBs and all except C-6 were found to contain no detectable amounts of PCB in 1990. Well C-6 was found to contain 0.61 parts per billion (ppb) Polychlorinated Biphenyls (PCBs).

PURPOSE AND SCOPE OF WORK

The purpose of this ground-water sampling is to perform final sampling of the six wells and then to perform well closure of the six wells. The presence of low concentration Polychlorinated Biphenyls (PCBs) in groundwater in well C-6 is believed to be an artifact of drilling the wells through surface contamination. Pending determination and reportage of final results of PCBs in ground water, monitoring wells will be grouted to surface. Ground-water sampling described herein will be accomplished from six monitoring wells on-Site.

MOBILIZATION

A representative of CERTIFIED/Earth Metrics will be on-Site during one day, the morning of Tuesday, August 17, 1993, or at the next date available date convenient to Alameda County Hazardous Materials Unit. After adequately addressing Site safety concerns, purging and sampling wells will commence at each of six separate monitoring well locations. All purge water will be collected in one labeled 55-gallon drum on-Site, for future safe disposal.

Site safety equipment will include: safety cones to mark the work zone boundary, gloves, boots, and safety glasses.

GROUNDWATER SAMPLING

Depth-of-water to top of casing or top of asphalt in all monitoring well locations will be accomplished prior to sampling using an electronic probe. Approximately three well

volumes (approximately 5.0 gallons) will be purged from each monitoring well using a cleaned PVC bailer. Purged ground water will be placed into a labeled 55-gallon barrel for future disposal.

Ground-water samples from each well will be then taken by filling two amber liter bottles using a dedicated disposable bailer. No acid will be added to samples and sample Ph will be kept from five (5) to nine (9). Caution will be taken to wash all equipment with TSP and distilled water, before entering another well. The well sampling order will be MW 1 - MW6. All groundwater samples will be cooled with ice in a cooler and transported to an California Certified laboratory for analysis. A Chain-of-Custody form will be filled out in the field and accompany samples to the laboratory.

GROUNDWATER ANALYSIS

All groundwater samples taken will be tested for Polychlorinated Biphenyls (PCBs) (EPA Method 8080) on a 7 work day turnaround plus additional sample for quality control.

*Reggie
Analytical
- Redwood
collection limit
= 20g/L*

Appendix A

CERTIFIED FIELD INVESTIGATION PROCEDURES

GROUNDWATER SAMPLE COLLECTION PROCEDURE

Prior to sampling, the depth-to water is measured to within one-hundredth of a foot to grade surface in each monitoring well using an electronic probe. Each screened boring is purged of at least three well volumes or until temperature, Ph, and conductivity remains relatively constant (within 10%). Any floating product, sheen, turbidity or unusual odor is recorded. Reusable metal, PVC or teflon bailers are cleaned prior to bailing purge water.

Monitoring wells are allowed to settle for 10-20 minutes before a dedicated teflon disposable bailer is placed carefully below water surface to extract a groundwater sample. A groundwater sample will then be taken from each well location, placed into an appropriate container, labeled and placed in iced storage, for transport to a State of California certified laboratory to undergo the required testing for Polychlorinated Biphenyls (PCBs) (EPA Method 8080). A Chain of Custody record for all samples will be initiated by the field geologist and will be included in the final report.

All sampling data, direct measurements, a map of the site, location of drums, any noticeable odor, sheen and other visual observations made at the time of sampling are recorded in a field notebook by CERTIFIED personnel. Well purge water is stored in a labeled drum onsite until test results are computed to determine if safe removal and disposal is needed.



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