ICES
Innovative & Creative Environmental Solutions

June 7, 1993 ICES 2045

Ms. Juliet Shin
Hazardous Materials Specialist
Alameda County Health Services Agency
80 Swan Way
Oakland, California 94621

Subject: Work Plan
Limited Site Investigation
Curoco Steel Systems Facility
Albany, California

Dear Juliet:

Enclosed is our Work Plan for performing a limited site investigation at the Curoco Steel Systems Facility located at 536 Cleveland Avenue in Albany, California ("the Site").

The objective of the limited site investigation is to obtain groundwater quality data downgradient of the former underground storage tank at the Site. Downgradient groundwater quality data was requested by the Alameda County Health Care Services Agency for assessing site closure.

We plan to start the sampling activities at the Site within the next seven working days. We would greatly appreciate your assistance in expediting review of this Work Plan.

Please do not hesitate to contact me if you have any questions or comments concerning this Work Plan.

Sincerely,

Peng Leong, P.E.
Principal Engineer

Enclosure

cc: Mr. Ron Mayo, Curoco Management Corporation

P. O. Box 11582 Berkeley CA 94701-2582 (510) 528-0715

WORK PLAN

LIMITED SITE INVESTIGATION
CUROCO STEEL SYSTEMS
ALBANY, CALIFORNIA

JUNE 7, 1993

Prepared for

Mr. Ron Mayo
Curoco Mangement Corporation
225 Scofield Drive
Moraga, California 94556

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LIMITED SITE INVESTIGATION
CUROCO STEEL FACILITY
ALBANY, CALIFORNIA

INTRODUCTION

At the request of Curoco Management Corporation (CMC), Innovative & Creative Environmental Solutions (ICES) has prepared this Work Plan for performing a limited site investigation at the Curoco Steel Systems Facility located at 536 Cleveland Avenue in Albany, California ("the Site").

The objective of the limited site investigation is to obtain groundwater quality data downgradient of the former 550-gallon gasoline underground storage tank (UST) at the Site. Downgradient groundwater quality data was requested by the Alameda County Health Care Services (ACHCS) for assessing site closure.

Based on our telephone conversation with Ms. Juliet Shin of ACHCS, grab groundwater samples will be collected from a minimum of two hydropunches located downgradient from the former UST location. Ms. Shin concurred that the downgradient direction at the Site is in the westerly direction towards San Francisco Bay. She also mentioned that non-detectable concentrations of benzene and 0.3 to 0.5 mg/l of total petroleum hydrocarbons (TPH) as gasoline (TPHg) in the groundwater samples are considered acceptable at and in the general vicinity of the Site. TPH as diesel (TPHd) should also be analyzed as TPHd is a widespread contaminant in the area. Site closure will be imminent once acceptable concentrations of TPHg and benzene are obtained.

ACHCS will provide oversight for the site investigation activities.

2.0 SITE DESCRIPTION

2.1 SITE HISTORY

One underground storage tank (UST) was formerly located at the northwest corner of the Site. The UST was used to store gasoline. UST removal activities were performed on May 25,

1990 by R.S. Eagan & Company. The removed UST was transported to H&H Ship Service Company of San Francisco, California for destruction.

Approximately 30 cubic yards (cy) of petroleum-affected was excavated in three phases between May 1990 and February 1991. Laboratory analytical results of final confirmation samples collected from the sidewalls of the excavation indicated non-detectable to low concentrations of petroleum hydrocarbons. The excavation was subsequently backfilled with import fill soil. The petroleum-affected soil was aerated on-site. The treated soil was disposed at Forward, Inc. Landfill in Stockton, California.

2.2 PHYSICAL DESCRIPTION

The Site is located on the west side of Cleveland Avenue, approximately 2,000 feet south of the intersection of Central Avenue and Cleveland in Albany, California. The Southern Pacific Railroad tracks and Interstate 580 runs along the western edge of the Site.

The Site is generally flat and has an area of approximately 1.4 acres. A rectangular steel building occupies the majority of the Site. The uncovered areas of the Site is paved with asphalt.

3.0 SITE INVESTIGATION ACTIVITIES

The proposed scope of work for the limited site investigation activities will include the following specific tasks:

Task 1: Site Investigation Activities
Task 2: Laboratory Analyses
Task 3: Report Preparation

These tasks are described in more detail below.

3.1 SITE INVESTIGATION ACTIVITIES

A total of two groundwater samples will be collected from two hydropunch locations, west (downgradient) of the former UST at the Site. The approximate proposed hydropunch locations are shown in Figure 2.

Hollow diameter steel casing containing a perforated PVC screen at the bottom of the casing will be advanced to the

More for down 2!

first permeable zone. The casing will then be retracted approximately 18 inches to allow infiltration of groundwater.

Groundwater samples will be collected by lowering a Teflon bailer through the hollow casing. Samples will be transferred into 40-ml VOA vials with Teflon septa and 1-liter amber glass jars. The samples will be stored in a chilled cooler for delivery to the laboratory. A field blank sample and duplicate will also be collected for quality control purposes. Strict chain-of-custody protocols will be followed in all phases of sample handling.

All equipment used during this investigation which might have come into contact with contaminated materials will be thoroughly decontaminated before and after each use. This will be accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with deionized, distilled, or fresh water.

3.2 LABORATORY ANALYSES

The grab groundwater samples will be sent to a state-certified laboratory and analyzed for:

- TPHd using EPA Method 3510/GCFID
- TPHg using EPA Method 5030/GCFID
- BTEX using EPA Method 602

These samples will be analyzed on a regular two-week turnaround basis.

3.3 REPORT PREPARATION

This task will include evaluating the field and laboratory analytical data obtained in Tasks 1 and 2. A written report will be prepared following completion of removal activities. The report will describe our field observations, sample collection, laboratory analytical results, and conclusions regarding the limited site investigation activities.

This report will be submitted to ACHCS and CMC within three weeks of completion of field activities and receipt of laboratory results.

4.0 IMPLEMENTATION SCHEDULE

The approximate estimated duration for each task and the schedule for the limited investigation activities at the Site is presented below. The estimated durations and proposed schedule do not include work delays due to unfavorable weather conditions, acts of God, labor strikes, and other events beyond the control of ICES and CMC.

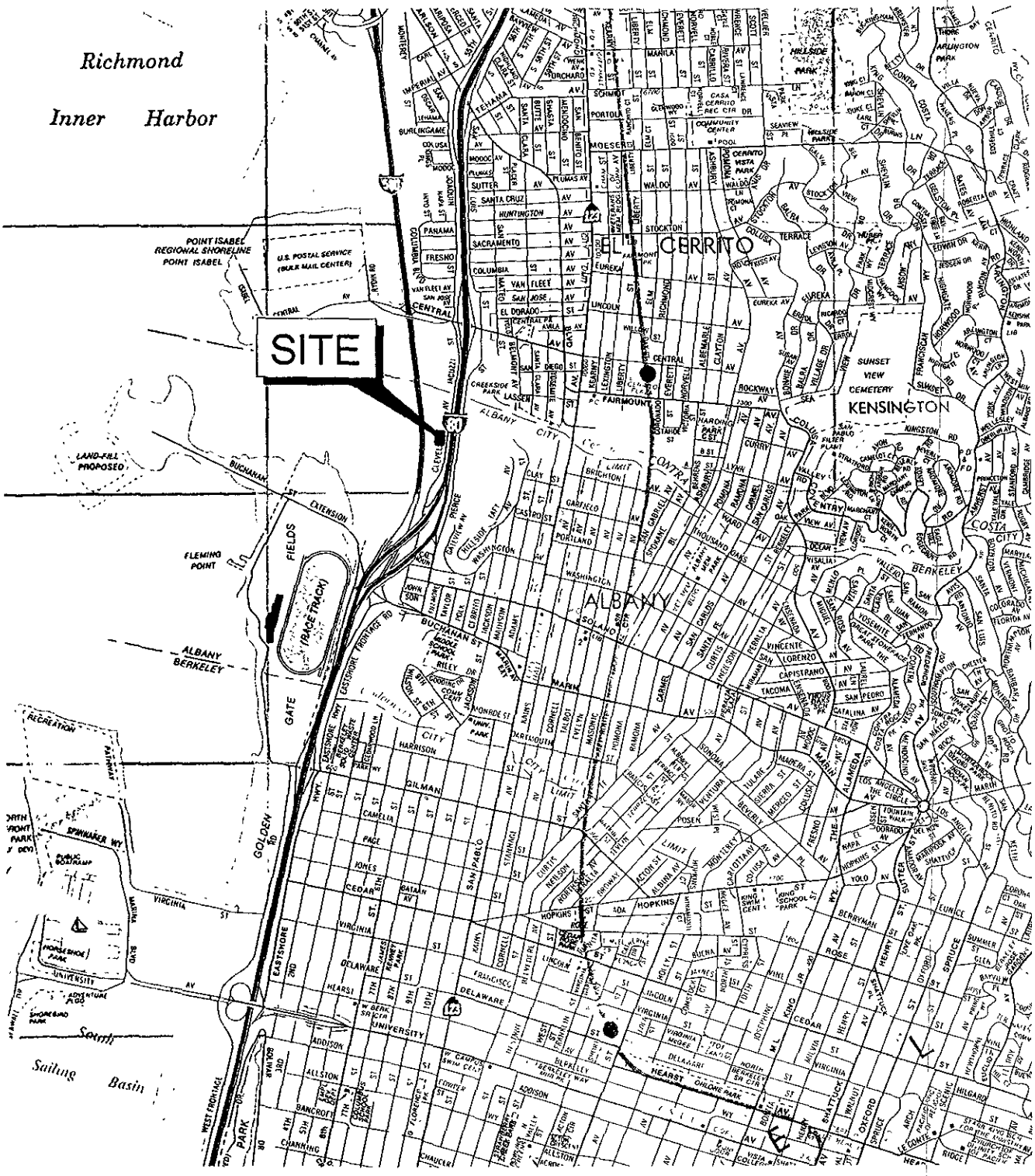
4.1 ESTIMATED DURATIONS

ACTIVITY		ESTIMATED DURATION (working days)
Task 1:	Site Investigation Activities	1 - 2
Task 2:	Laboratory Analyses	7 - 10
Task 3:	Report Preparation	12 - 15

4.2 PROPOSED SCHEDULE

The proposed schedule for the activities associated with the characterization activities at the Site is presented below. The proposed schedule is based on approval of this Work Plan followed by a start date for limited investigation activities of no later than June 14, 1993.

	ACTIVITY	ESTIMATED SUBMITTAL/COMPLETION DATE (1993)
Task 1:	Site Investigation Activities	June 21
Task 2:	Laboratory Analyses	July 07
Task 3:	Report Preparation	July 28



MAP SOURCE:
California State Automobile Association

Scale: 1" : ± 2640'	June 1993

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SITE LOCATION
Curoco Steel Systems

Figure 1

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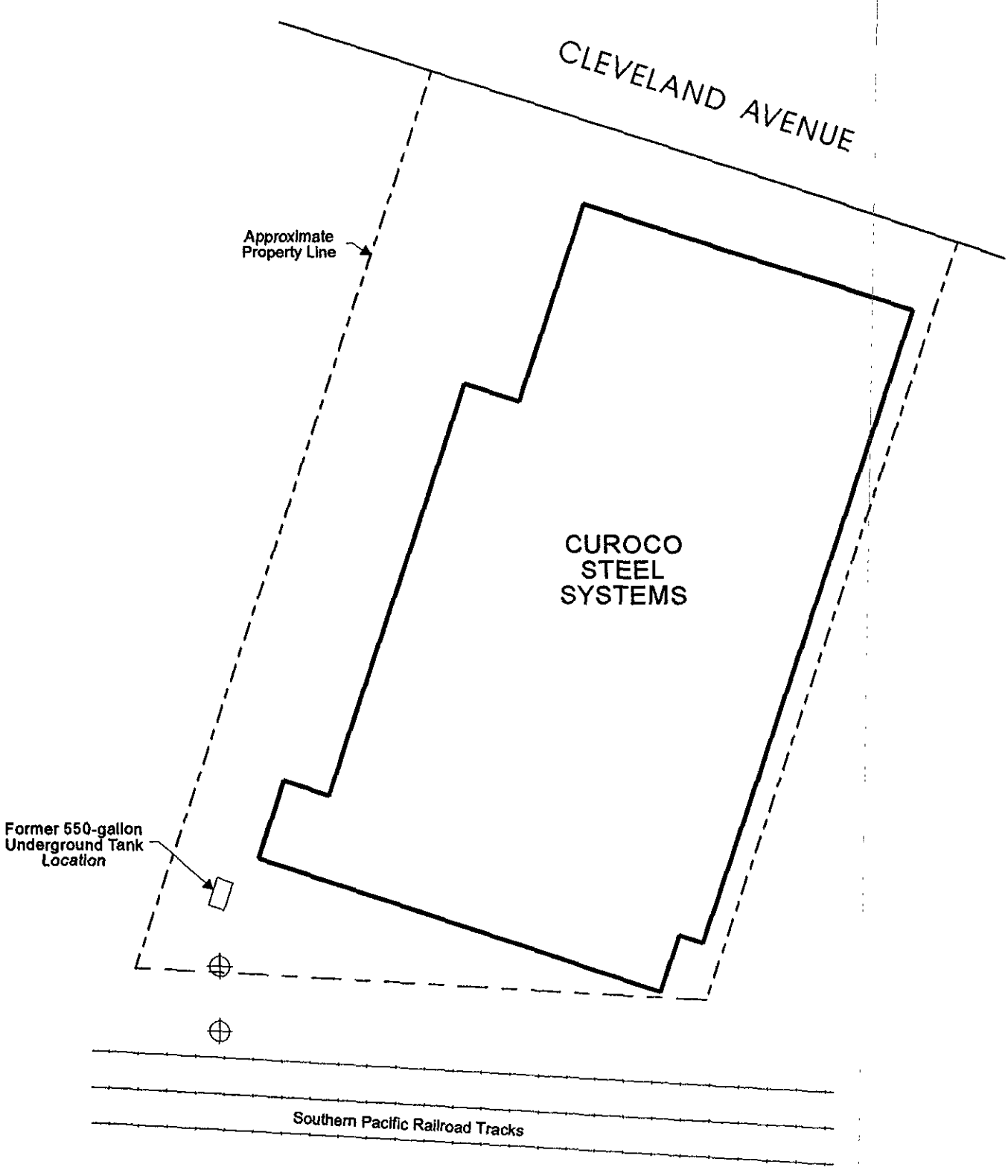

Scale: 1": ± 50'	June 1993	**PROPOSED HYDROPUNCH LOCATIONS** Curoco Steel Systems	Figure **2**
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