

San Francisco Regional Office

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

**Proposal for Limited Soil and Groundwater
Investigation
in the Vicinity of 5050, 5051, and 5200
Coliseum Way,
Oakland California.**

Prepared By:

**Clayton Environmental Consultants, Inc.
1252 Quarry Lane
Pleasanton, California 94566
September 4, 1996**

Clayton Proposal No. 96SFOEMR026

INTRODUCTION

Clayton
ENVIRONMENTAL
CONSULTANTS

Clayton Environmental is pleased to provide this proposal to conduct a limited environmental investigation of soil and groundwater conditions in the vicinity of 5050, 5051, and 5200 Coliseum Way, Oakland, California. ("the site"). The purpose of the proposed investigation is to gather additional data which will help to:

- Define the vertical and lateral extent of metal bearing sludges and soils thought to exist on the site.
- Define the physical and chemical stratigraphy of overburden, fill materials, sludge deposits and native soils on the subject site.
- Further evaluate groundwater quality by installing additional monitoring wells on the subject site and collecting additional samples from select wells on adjacent properties. (See Figure 1 for proposed locations)
- Gather additional information regarding the hydrology of the shallow aquifer by monitoring water levels in new and existing wells.

SCOPE OF WORK

Specific tasks for this project include:

- 1) **Pre-field Activities:** The following activities will be performed prior to field mobilization:
 - Assemble and submit workplan for review
 - Obtain permits as required
 - Develop a health and safety plan specific to this project.
- 2) **Monitoring Well Installation:** Install five groundwater monitoring wells at the locations shown on Figure 1. Each location will be cleared by a utility locator to ensure that no underground obstructions will be encountered during drilling. The wells will be installed using hollow-stem drilling techniques and a total of four soil samples will be collected from each boring for laboratory analysis prior to well construction. The wells will be constructed using 2-inch well casing to an approximate total depth of 15 feet below ground surface. Flush-mounted traffic-rated vault boxes will be used to complete the wells. A licensed surveyor will survey each surface completion and top-of-casing for elevation, relative to the other wells present at the site.

Following well completions, each well will be developed by pumping and bailing to remove excess sediment present in the well casing and filter pack.

Groundwater physical parameters such as temperature, electrical conductivity, and pH will be monitored during development. Development will continue until the parameters stabilize, indicating that water present in the well is representative of shallow groundwater.

Soil samples will be submitted to Clayton's analytical laboratory located in Pleasanton, California for chemical analysis. Each sample will be analyzed for Metals, pH, Sulfate, Total Sulfur, Gasoline-range Total Petroleum Hydrocarbons (TPH-G), Diesel-range Total Petroleum Hydrocarbons (TPH-D), Volatile Organic Compounds (VOCs), and Semi-Volatile Organic Compounds (SVOCs).

- 3) **Groundwater Monitoring:** Following the installation and development of the five new wells, Clayton will perform two groundwater level monitoring events. The depth to water in each monitoring well at the site (new and existing) will be measured and used to calculate the elevation and gradient of shallow groundwater at the site. Two events are proposed as the site is adjacent to a tidally influenced drainage channel.

Clayton also proposes to conduct one round of groundwater sampling for the 11 existing and 5 new wells at the site. Each well will be purged until a minimum of three casing volumes have been removed and temperature, pH, and electrical conductivity stabilize. Groundwater samples will be collected using new disposable bailers and submitted to Clayton's analytical laboratory with appropriate chain-of-custody documentation for analysis. Each sample will be analyzed for Metals, General Water Quality (cations and anions), and SVOCs. Samples collected for metals analysis will be field filtered using a 0.2 micron filter prior to sample preservation.

- 4) **Investigation Report:** Compile a report summarizing the results of the investigation including boring logs and well construction details, field data sheets, chain-of-custody documentation and laboratory analytical reports. The report will include figures showing the hydraulic gradient of shallow groundwater and the distribution of contaminants.

COST

Clayton will provide the services outlined in the proposed scope of work, for an estimated time and materials fee of **\$47,860.00**. Clayton will not exceed this estimated fee without prior written consent. The estimated fee is based on the breakdown presented in Attachment 1. Our estimated fee includes material costs, out-of-pocket expenses (travel and incidentals) reasonably incurred in the performance of the work, subcontractors retained by Clayton, and other direct costs. All out-of-pocket expenses, subcontractor charges, materials costs and other direct costs will be billed at cost plus 15%. Our estimated fee also includes reproduction costs, equipment rental, and mileage billed at specific rates, as appropriate.

Clayton is pleased to present this proposal and has arranged for very competitive pricing from our analytical laboratory. Please note that in addition to the analytical pricing, the customary 15% markup of has been waived for all work performed by Clayton's analytical laboratory.


Clayton
ENVIRONMENTAL
CONSULTANTS

SCHEDULE

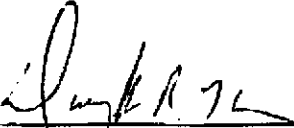
Clayton will begin the pre-field activities immediately upon receipt of written authorization to proceed. It is anticipated that monitoring well construction can be completed within three weeks and the draft investigation report will be delivered within eight weeks of authorization.

Thank you for the opportunity to submit this proposal. Should you have any questions, please contact us at (510) 426-2600.

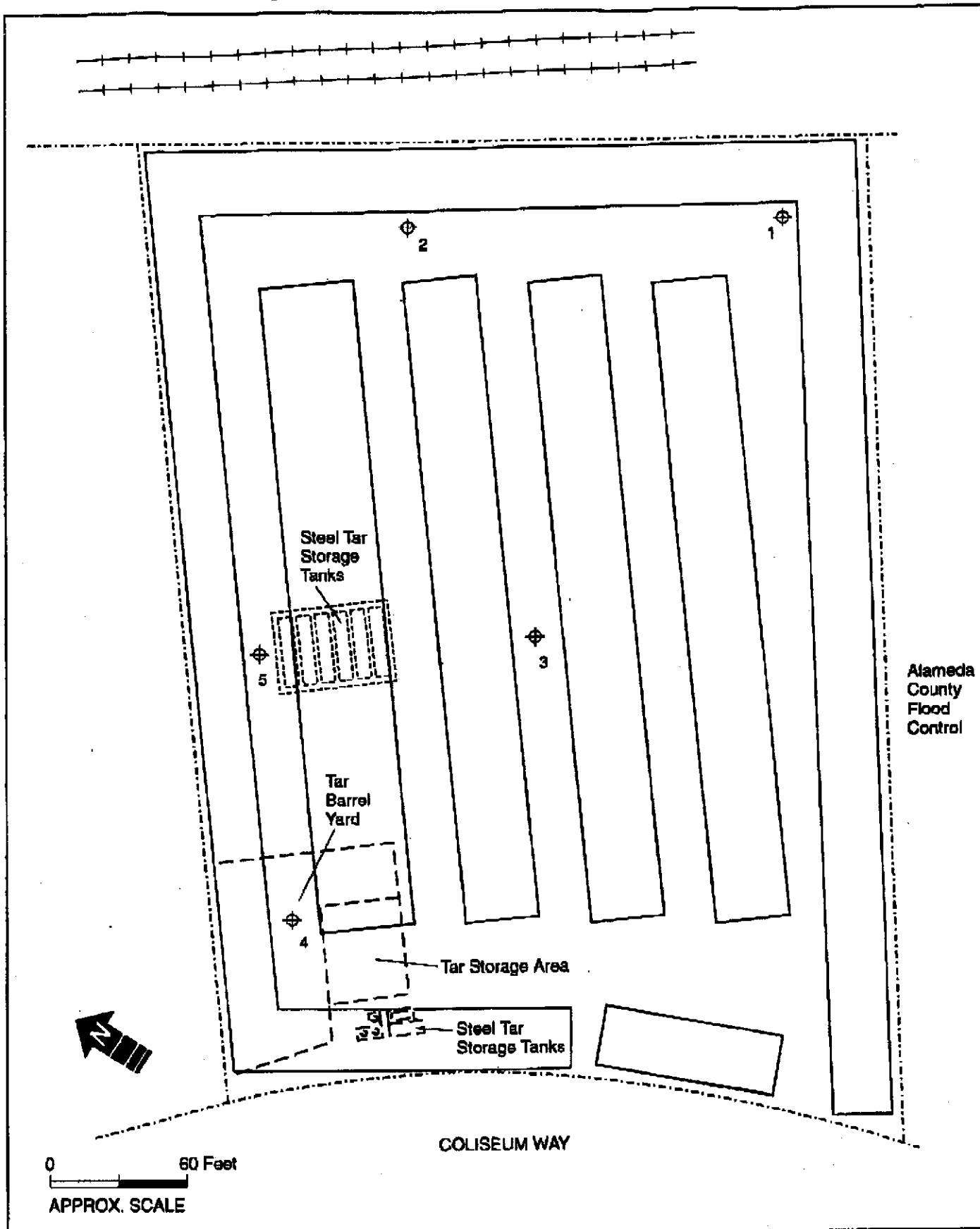
This proposal prepared by:


Richard W. Day, CEG, CHG
Supervisor, Geosciences/Remediation
Environmental Management and Remediation
San Francisco Regional Office

This proposal reviewed by:


Dwight R. Hoening
Vice President, Major Project Development
San Francisco Regional Office

September 4, 1996



Alameda County Flood Control

0 60 Feet
APPROX. SCALE

<p>LEGEND:</p>	<p>SITE PLAN</p>	<p>Figure</p>	<p>Clayton</p>
<p>----- Property Boundary 1 ⊕ Monitoring Well</p>	<p>5200 COLISEUM WAY OAKLAND, CALIFORNIA Clayton Project No. 89998.00</p>	<p>1 09/04/98 SITEPLAN.GDR</p>	<p>ENVIRONMENTAL CONSULTANTS</p>

ENVIRONMENTAL
PROTECTION
95 AUG 30 AM 8:33

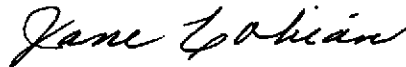
CROSBY, HEAFEY, ROACH & MAY

Professional Corporation
1999 Harrison Street
P.O. Box 2084
Oakland, California 94604-2084
Telephone: (510) 763-2000
Facsimile: (510) 273-8832

TRANSMITTAL MEMO

DATE:	August 28, 1996
To:	<u>VIA REGISTERED MAIL/RETURN RECEIPT REQUESTED</u> Alameda County Environmental Health Division 1131 Harbour Bay Parkway, Suite 250 Alameda, CA 94502-6577
SUBJECT:	RCRA Citizen Suit Notice <u>5200 Coliseum Way, Oakland, CA</u>
ENCLOSURES:	Re the above matter: a package containing (1) copies of 6/21/96 correspondence from William D. Wick, of our office, mailed on 6/24/96 via registered mail/return receipt requested (No. 770-072-311) and (2) a copy of our mailing envelope (marked "unclaimed" as the reason for nondelivery); original 7/26/96 transmittal memo and a copy of our 7/26/96 mailing envelope (marked "unclaimed").

Very truly yours,



Jane Cobián,
assistant to William D. Wick

WDW:jwc
Enclosures

Registered Mail/Return Requested
No. P-770-072-058

CROSBY, HEAFEY, ROACH & MAY

Professional Corporation
1999 Harrison Street
P.O. Box 2084
Oakland, California 94604-2084
Telephone: (510) 763-2000
Facsimile: (510) 273-8832

TRANSMITTAL MEMO

DATE:	July 26, 1996
To:	<u>VIA REGISTERED MAIL/RETURN RECEIPT REQUESTED</u> Ms. Madhulla Logan Alameda County Environmental Health Division 1131 Harbour Bay Parkway, Suite 250 Alameda, CA 94502-6577
SUBJECT:	RCRA Citizen Suit Notice <u>5200 Coliseum Way, Oakland, CA</u>
ENCLOSURES:	Re the above matter: a package containing (1) a copy of 6/21/96 correspondence from William D. Wick, of our office, mailed on 6/24/96 via registered mail/return receipt requested (No. 770-072-311) and (2) a copy of our mailing envelope (marked "unclaimed" as the reason for nondelivery). On this date, we received the unclaimed package and are again sending it to you via registered mail/return receipt requested.

Very truly yours,



Jane Cobián,
assistant to William D. Wick

WDW:jwc
Enclosures

Registered Mail/Return Requested
No. P-770-072-057