

PORT OF OAKLAND FAX TRANSMITTAL

DATE: 7-26-99 TIME: 4:30
TO:
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Number of pages including this cover sheet: 3
If there is a problem with this transmittal, please call:
NAME: PHONE:
NOTES/COMMENTS:
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Please cull me at 272-1184
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530 Water Street • Jack London's Waterfront • P.Q. Box 2064 • Oakland. California 94604-2064 Cable address, PORTOFOAK, Oakland

Page 2/3

Clean up levels

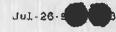
Table 2
Recommended Clean Soil Contaminant Levels for On-Site Fill

Total Petroleum Hydrocurbons as Diesel (IPHd)	7	518 mg/kg	
A Total Petroleum Hydrocurbons as Gasoline (TPHg)		629 mg/kg	Į.
Total Petroleum Hydrocarbons as Motor Oil (TPHr	Con	1000 mg/kg	
Lead C Total D Soluble by Waste Extraction Test D Soluble by TCLP	2)	-less than 350 mg/kg -less than 5 mg/L -less than 5 mg/L	SF Bay Ba
D.E Other Metals		 Less than industrial Proliminary Remediation Goal (EPA Region IX, 1998, and CalEPA, 1994); and Less than relevant Title 26 and Title 22 hazardous waste disposal criteria. 	SF Bay Ban Plana Sodena Sub My (L 'Yday average
Volatile Organic Compounds ^ -Benzenc ^ -Toluenc ^ -Ethylbenzenc ^ -Xylene ^-MTBE	1717	-2.7 mg/kg -930 mg/kg -13 mg/kg -358 mg/kg	
D. Semi-Volatile Organic Compounds		 Less than industrial Preliminary Remediation Goal (EPA Region 1X, 1998. and CalEPA, 1994); and Less than relevant Title 26 and Title 22 hazantous waste disposal criteria. 	

- A. Values from <u>Table 2: Ecological Protection Zone Tier 1 Standards</u>, from San Francisco Regional Water Quality Control Board Order 99-045.
- B. Values from Table 1 of Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tank Sites, 1990.
- C. California Health and Safety Code, Section 25157.8.
- D. From hazardous waste definitions, 22 CCR and 26 CCR.
- E. Industrial Preliminary Remediation Goals (EPA Region IX. 1998, and CalEPA, 1994).

Sent By: SCA Environmental, Inc.

415 397 1406;



INVESTIGATION AND REMEDIATION ACTIVITIES 3.0

GENERAL 3.1

The project goal is over-excavate the two UST sites. Successful completion of the project goal will be defined by collection of suil samples meeting the criteria listed in Section 2.2 of this Workplan.

REGULATORY REQUIREMENTS 3.2

The Remediation Contractor will perform all Workplan items in accordance with the latest edition and/or amendments of the applicable local, state, and federal statutes and regulations, including:

- CFR 1926, Safety and Health Regulations for Construction
- CFR 261, Identification and Listing of Hazardous Waste
- CFR 262 and 263, Standards for Generators and Transporters of Hazardous Wastes
- CFR Part 280 et seq, Standards for Owners and Operators of Underground Storage Tanks
- CFR 172 Hazardous Materials Tables and Communication
- CCR, Construction Safety Orders
- CCR, Hazardous Wastes
- CCR, Groundwater
- Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank
- Sites, August 10, 1990 Rationale for Modifying the Tier 1 Petroleum Hydrocarbon Saltwater Ecological Protection Zone (SEPZ) Levels for the San Francisco International Airport Board Order 99-045.

HEALTH AND SAFETY PLAN REQUIREMENTS 3.3

The Remediation Contractor will prepare a HASP prior to beginning field work. The HASP will have the following

- The HASP will be prepared and signed by an American Board of Industrial Hygiene (ABIH) Certified Industrial Hygienist
- 2. The HASP will include a list of planned site tasks and an Activity Hazard Analysis for each task. The analysis shall follow Army Corps of Engineers EM-385 methodology. 3. A mammary of chemicals which might be encountered by workers at the site, carcinogenicity, teranogenicity,
- health effects, and relevant occupational standards for each (OSHA PEL, ACGIH TLV, etc.)
- 4. Required Personal Protective Equipment (PPE) to be used on various tasks of the project, with reference to the Remediation Contractor's Respiratory Protection Program.
- 5. Air sampling to be performed, including calibration protocols for each instrument, and details on outside laboratories for any personal monitoring.
- Trigger points for air sampling to upgrade or downgrade PPE.
- Training requirements for staff who will be working at the site.
- 8. Location and details of decontamination systems for workers leaving the excavation oreas.
- 9. Emergency Response Plan, including route map to nestest hyspital; and emergency contact numbers.

Medical monitoring requirements for staff who will be working at the site.

Final Work Plan for Submarface Investigation and Remediation

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Two Underground Storage Tank Sites - Pacific Day Dock Vard II

321 Embarcadero, Port of Clakland, Oakland, CA

Modified July 22, 1999