

Consulting • Engineering • Remediation

December 24, 1998 Project No.: 6908050,200 10324 Placer Lane Suite 200 Sacramento, CA 95827 (916) 362-7100 FAX (916) 362-8100 http://www.ensr.com

Mr. Leroy Griffin
City of Oakland Fire Services Agency
Hazardous Materials Program
505-14<sup>th</sup> Street, Suite 702
Oakland, California 94612

Subject:

Over-Excavation Plan For USTs Removal Project

United Airlines Building M-110

Oakland Metropolitan International Airport

Dear Mr. Griffin:

ENSR on behalf of United Airlines (UAL), is submitting the following over-excavation plan for the underground storage tanks (USTs) removal project to be conducted at UAL Building M-110, Oakland Metropolitan International Airport (Figure 1).

The over-excavation plan is to be implemented in the event of evidence of petroleum hydrocarbon impacted soils from past spillage and/or leakage from the USTs, associated piping and dispenser island. ENSR will oversee the implementation of over-excavation activities with the approval of the City of Oakland Fire Services Agency.

The Underground Tank Closure Plan (UTCP), has previously been submitted by the contractor (Marcor Remediation Inc.). A copy of the UTCP is attached for you reference and Forms A & B are also attached.

#### Site Description

Two USTs and the associated pump island are located on the north side to the UAL hanger. The USTs consist of one 10,000-gallon diesel fuel tank and one 10,000-gallon gasoline tank (Figure 2).

#### Scope of Work

<u>Field Screening</u>. During the UST removal activities, ENSR field personnel will field screen excavated soil using visual observations, and a photoionization detector (PID). Only soils in the vadose zone (unsaturated zone) will be field screened, for volatile organic compounds.



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<u>Soil Removal.</u> In October 1997, Burns & McDonnell Waste Consultants Inc. (BMWCI) conducted a subsurface investigation at the location of the two USTs. The results of the investigation indicated the presence of diesel fuel and gasoline in soil and groundwater in the vicinity of the USTs.

During the UST removal activities, over-excavation activities will be conducted in an attempt to remove the most heavily impacted soils (anticipated), which likely will be located beneath the tanks, piping and dispenser island. Over-excavation activities will not chase petroleum hydrocarbon impacted soil in the fluctuating capillary fringe (tidal influence) or in the saturated soil zone.

<u>Soil Disposal</u>. Based on analytical results from the BMWI subsurface investigation, UAL will obtain pre-approval for soil disposal at the appropriate disposal facility. The contractor shall directly load excavated material onto trucks and haul to the designated disposal site.

<u>Soil Sampling</u>. Upon completion of over-excavation activities, ENSR will collect soil samples from the excavation sidewalls, piping trenches and beneath the pump island.

Soil samples will be analyzed for the following constituents:

- Total petroleum hydrocarbons as diesel fuel by EPA Method 8015;
- Total petroleum hydrocarbons as gasoline by EPA Method 8015;
- Benzene, toluene, ethylbenzene, and total xylenes EPA Method 8020; and
- Methyl Tertiary Butyl Ether (MTBE) by EPA Method 8260.

### Report Preparation

The results of the over-excavation activities, including geologic cross-sections, soil removal quantities, analytical laboratory results and waste manifests will be provided to the City of Oakland Fire Services Agency, the Alameda County Environmental Health Department and the Regional Water Quality Control Board.

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The UST removal activities are tentatively scheduled to begin the week of January 4, 1999. Your office will be contacted by Marcor Remediation Inc. to schedule an inspection. If you have any questions or comments, please call Alan Klein at (916) 362-7100.

Sincerely,

**ENSR** 

Bol Culton for Alan J. Klein

Senior Environmental Scientist

Alan D. Gibbs, R.G., C.H.G.

**Environmental Engineering Department Manager** 

Attachments: Figures 1-3

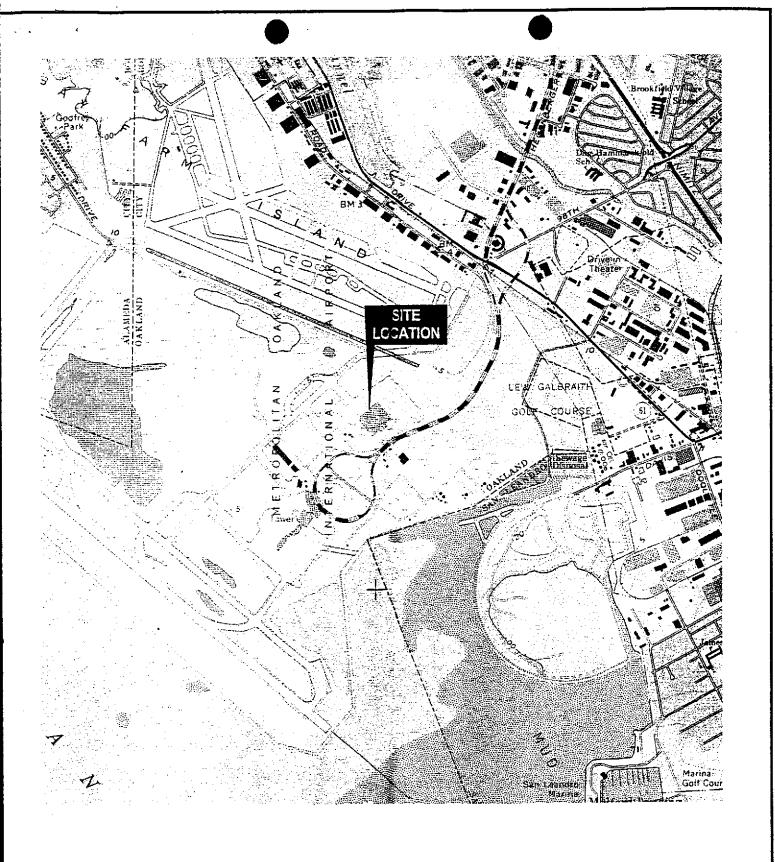
Forms A&B

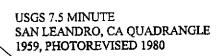
Underground Tank Closure Plan

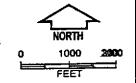
CC:

Steve Sulgit, United Airlines Dennis Moulton, United Airlines Daniel Tisoncik, United Airlines Gene Barr, United Airlines Ted Wells, United Airlines

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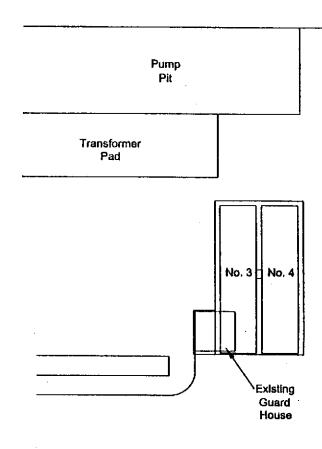
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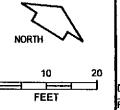
# FIGURE 1 SITE LOCATION MAP

United Airlines
Oakland International Airport
Oakland, CA

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# FIGURE 2 UST REMOVAL SITE PLAN

United Airlines
Oakland International Airport
Oakland, CA

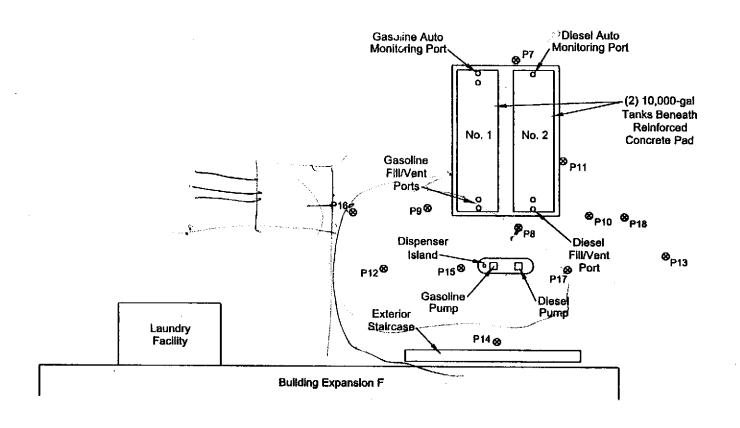
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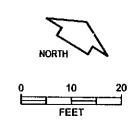
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# OAKLAND FIRE SERVICES AGENCY, OFFICE OF EMERGENCY SERVICES UNIFORM UNDERGROUND TANK SYSTEM CLOSURE INSPECTION REPORT

Facility Name Un Te	ed Airlines	Site ID. No	
Address 1100 A	rport	City	Zip
Project Contact		Contact Phone N	lo
Tank ID No.	1 Bus	? harel	
Size	10 K	101	
Construction Material	Stall	Steel	
Single/Double Wall	SW	SW	
Backfill Type	Same	Sand	
Oxygen <10%	10.00	8.9	
LEL <20%	4.5	3.5/0.0	
Tank Condition	Tank in good cond.	No holes observed tank in govel cond.	
Soil/Groundwater Condition	French ch	Sheen observed on H2O	Brownhater 10'
Soil Sample Depth	<del></del>	verexcavation	plan
Number and Description of Soil/Groundwater Samples (Indicate Sample Locations on Site Plan.)			
Piping: Rinsed/Tested/Cappe Tank and Piping Transport:	d R X Shipped on Manifest	insate: Shipped on Manifes  Transporter Name S  Vehicle Hazwaste O	same as on Application
Sampling: D Evidence Tape	☐ Chain of Custody; Pipeli	☐ Samples Refrigerate ine ☐ Yes, ☐ No (If no, e	
Disposition of Tank Contents Comments/Special Conditions	Samples Taken Shupped on	Manifest	
Inspector 11 - Grandy Signature of Contractor/Authorize	Agenty ASA		Site Plan: □ Attached ne <u>8:(\$</u> Stop time <u>9:39</u> /99 Page / of )

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FIGURE 3

## UST ABANDONMENT IN-PLACE SITE PLAN

United Airlines
Oakland International Airport
Oakland, CA

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