



May 30, 1995

BAE28830.P4.ZZ

Mr. Brian Oliva  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577

Mr. Sum Arigala  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

Subject: Proposed Scope of Work for Sampling Deep Groundwater  
Del Monte Plant 35, Emeryville, CA

Attached is a proposed scope of work for collecting deep groundwater samples from beneath the Del Monte Plant 35 property in Emeryville. We anticipate conducting the work as soon as we obtain written concurrence from the Regional Water Quality Control Board and the Alameda County Department of Environmental Health. Please call me with any questions or comments you have. I can be reached at (510) 251-2888 ext 2189.

Sincerely,

CH2M HILL

A handwritten signature in cursive script that reads 'Madeline Wall'.

Madeline Wall  
Project Manager

c: Ms. Susan Hugo/ACDEH  
Mr. Mark Zemelman/Kaiser  
Mr. David Harnish/ENVIRON  
Mr. Steve Ronzone/Del Monte  
Mr. Thomas Bender/The Bender Partnership  
Mr. Zachary Wasserman/Kennedy and Wasserman

## **Scope of Work**

### **Deep Zone Groundwater Sampling**

### **Del Monte Plant 35, Emeryville**

The purpose of this field program is to evaluate the presence or absence of chlorinated hydrocarbons in groundwater within the second deepest permeable interval or aquifer zone beneath the Del Monte Plant 35 property. The objective will be to first identify the second aquifer zone and then to collect a representative groundwater sample from that zone. The two locations where groundwater samples will be collected are beneath the two "source areas" of chlorinated hydrocarbons at the property (Figure 1).

In order to target the second aquifer zone for sampling and provide a supporting data record, a Cone Penetrometer Test (CPT) will first be performed at each sampling location. The CPT will provide a continuous hydrogeologic profile of the subsurface to identify relatively permeable aquifer zones within the Bay Mud sequence of deposits. A push-in PVC piezometer (PIPP) sampling device will then be pushed to the targeted layer in the second aquifer to collect a groundwater sample. The PIPP location will be within approximately 5 feet of the CPT location. The holes will be tremie grouted to the ground surface to seal potential pathways for vertical migration of contaminants. The second aquifer zone is expected to be encountered at a depth above 80 feet below ground surface (ft. bgs).

The following scope of work describes the procedures for CPT, groundwater sampling, sample analysis, and management of wastes.

#### **Cone Penetrometer Test Procedures**

To perform a CPT sounding, a hydraulic ram pushes a cone penetrometer device using the dead weight of the 20 to 25 ton CPT rig as a reaction. The CPT measures parameters such as tip resistance, sleeve friction, and pore water pressure as the cone is advanced. The CPT provides a continuous data log that is processed in real time and is used to correlate soil material type with the cone signal. The CPT is capable of logging to depths of greater than 100 feet, depending on the types of soil encountered. CPT's are most effective in sands or fine grained soils; gravels and very stiff clays can sometimes cause refusal. For the Del Monte Plant 35 property, available borehole logs suggest that the CPT can be used effectively.

The CPT is performed in accordance with ASTM standard D3441. After the test is completed, a hollow CPT rod with a disposable tip is driven or vibrated back down the CPT sounding hole to its termination depth. The hole is then tremie grouted as the rod is pulled from the ground.

#### **Groundwater Sampling**

To obtain groundwater samples with the PIPP, a 2-inch OD, 5-foot long PVC screen is attached to a disposable steel drive tip and inserted into the sampler barrel. The drive tip is slipped into the bottom of the barrel, sealing the screen inside the barrel with an O-ring. The PIPP is then pushed into the ground to the second aquifer zone, as determined from the CPT log. The drive tip is detached from the barrel by retracting the push pipes approximately 4

feet, exposing most of the screen and allowing groundwater to enter the sampling chamber. Groundwater will be sampled from the chamber using a teflon bailer. Sample bottles (VOAs) will be filled directly from the bailer, fitted with a special flow valve.

After the sample is collected, the PVC screen with the PIPP and the push pipes is pulled out, leaving the stainless steel drive tip in place. Before removing the PIPP and push pipes, flexible plastic tubing is inserted to the bottom of the hole. A slurry of bentonite and/or cement is pumped through the tubing as it is slowly removed from the hole, sealing the hole.

### **Decontamination**

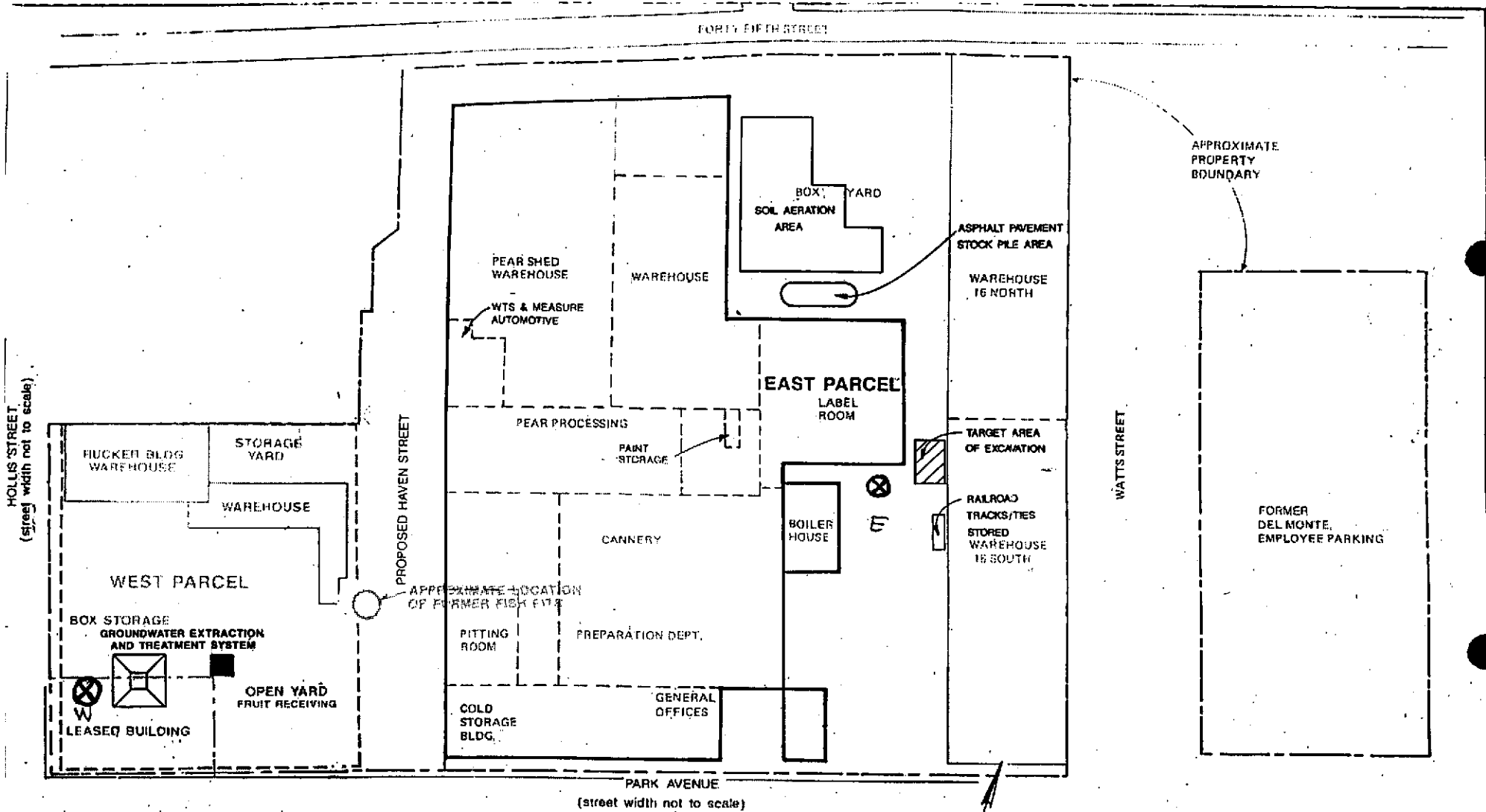
The CPT equipment will be decontaminated before and after each use. The CPT and rods will be decontaminated after each penetration using an automatic enclosed scaper and steam cleaner. The bailer and PIPP will be washed with a laboratory detergent solution, rinsed with potable water, rinsed with deionized water twice, rinsed with methanol, and allowed to air dry between samples. The PVC screen and drive tip are replaced after each use. At each sample location an equipment blank will be collected by running organic-free water through the decontaminated bailer into a sample container.

### **Sample Analysis**

Groundwater samples will be analyzed for chlorinated hydrocarbons, using EPA Method 8010. Each sample will consist of 2 to 3 40-ml VOA vials. Collected samples will be placed in an iced cooler and shipped under standard chain-of-custody procedures to a California state-certified laboratory for analysis. Two primary samples, 1 duplicate, 2 equipment blanks, and 1 trip blank will be analyzed.

### **Management of Wastes**

The CPT and the PIPP method of groundwater sampling should not generate any soil cuttings. Wastewater generated from decontamination will be drummed. Disposal will be based on laboratory analytical results from soil cutting and groundwater samples. If analytical results indicate contamination, we anticipate the rinse water will be acceptable for treatment through the West Parcel GET system, with subsequent disposal to the sanitary sewer.



HOLLIS STREET  
(street width not to scale)

FORTY-FIFTH STREET

APPROXIMATE  
PROPERTY  
BOUNDARY

WATTS STREET

FORMER  
DEL MONTE,  
EMPLOYEE PARKING

PARK AVENUE  
(street width not to scale)

⊗ Planned sample location,  
approximate

LEGEND  
 — Existing Building  
 - - - Del Monte Property Boundary

0 40 80  
 Scale in Feet

Figure 1  
 Planned Locations for  
 Deep Groundwater Samples

## Site Specific Health, Safety and Work Plan

Del Monte Foods Plant 35  
1250 Park Avenue  
Emeryville, California

### Site Introduction

The Del Monte Foods Plant is located at 1250 Park Avenue in Emeryville, California and is approximately 13 acres in area. Although various buildings formerly existed at the site, only the main building approximately 175,000 square feet exist today. The remaining site consists of slabs on grade or asphaltic covered surfaces.

The site has one underground storage tank constructed out of an old railroad tank car and is approximately 20,000 gallons in size. It formerly stored fuel oil for the site boilers.

The underground storage tank was filled in place with grout in 1985. Two soil borings drilled adjacent to the tank in July 1992 indicated that total petroleum hydrocarbons as diesel and as fuel is present in the soil and ground water as concentrations in excess of regulatory guidelines.

Our scope of work includes removal of the previously abandoned grout filled underground storage tanks and excavation and stockpiling of contaminated soil.

### Site Health and Safety Officer

Name: Rogelio Barba

Training: 1910.120

#### Responsibilities:

- Selects proper personnel protective equipment
- Controls entry and exit of the project work area
- Monitors onsite hazards and conditions
- Participates in the preparation of and implements the site safety plan
- Enforces the "Buddy System"
- Knows the emergency procedures, evacuation routes and the telephone numbers of the ambulance, local hospital, fire and police department
- Notifies when necessary local public emergency officials
- Coordinates emergency medical care

## Site Specific Health, Safety and Work Plan

Del Monte Foods Plant 35  
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### Employee Training

All employees shall be given orientation and safety awareness instruction by the competent person prior to commencing work on this site. In addition, the competent person will discuss the Site Specific Safety and Health Plan and encourage the employees to read this document and ask questions if anything is unclear.

Those employees working in the hazardous material environments should be trained in accordance to 29 CFR 1910.120.

Weekly "Tool Box Meetings" shall be held at 7:00 am every Monday and shall be attended by all employees working on this project.

### Expected Hazards

Fire - On site water will be used via 1 1/2 inch fire hose equipped with an adjustable fog nozzle to the existing hydrant system. Additionally A,B, and C type fire extinguishers will be stationed at strategic locations near the work site.

Explosion - Have qualified personnel field monitor for explosive atmospheres and flammable vapors; keep all potential ignition sources away from an explosive or flammable environment; use non-sparking explosive proof equipment.

Physical - Potential heat stress due to wearing protective clothing, frequent monitoring of personnel who wears protective clothing, judicious scheduling of the work and rest periods and frequent replacement of fluids can protect against this hazard.

Chemical - the expected chemicals are BTEX and TPH contaminated soils; all personnel workers within chemically hazardous environments shall don proper respiratory and protective coveralls, wear rubber gloves and work boots. No eating, chewing gum or tobacco, drinking and smoking shall be permitted in the work area.

### Confined Space Entry

Not applicable. Existing underground storage tank is filled with grout.

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### Employee Decontamination Procedures

- Deposit hand tools and equipment on plastic sheeting or in lined containers
- Remove gross contamination from boots, gloves and protective coveralls
- Thoroughly wash coveralls and work boots with a detergent/water solution.
- Remove any tape around gloves and boots and deposit in plastic liners
- Remove respirator
- All residual soil from decon procedures shall be stockpiled and reintroduce to the underground storage tank excavations as approved by the site environmental consultant.

### Excavation/Stockpiling of Soil

During the course of work any contaminated soil will be stockpiled on visqueen sheeting and covered with visqueen sheeting until soil sampling results are obtained.

All excavations shall be barricaded with temporary fencing until backfill operations are complete.

### Emergency Response/Evacuation Plan

During the mobilization, the following information shall be posted:

- Local Fire Department phone number - 911
- Local Police Department phone number - 911
- Local Medical - Alta Bates Hospital phone number 510/204-4444

Emergency routes will be clearly marked and left accessible at all times.

Air horns/vehicle horns will be used to alert the workers of an emergency situation. On site radios will be used to notify all working foreman of an emergency situation, and they will be required to direct their workers to the designated meeting place.

At the end of an emergency, gather all working personnel and discuss the emergency and evacuation procedural format and its effectiveness.

All first aid trained site personnel will be identified and names posted at the location of operations.

## Site Specific Health, Safety and Work Plan

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In the event of a spill, hazardous materials release or injury, regardless of size, the event will be immediately reported to the site competent person and owner's representative.

The personnel of ICONCO's emergency response team will stand by to assist the emergency agency and offer the benefit of knowledge about the facility and its condition.

### Spill Prevention Plan

Maintain at the site at least 50 lbs. of granular clay material for use in the event of a spill or leak of fuel, hydraulic oil, or other similar products. Immediately notify the owner's representative of any spill or releases of such materials upon discovery.

Any hazardous substances or contaminated materials accidentally released during removal activities shall be properly contained, containerized and tested, and legally disposed of.

In the event of a breach in the containment system, immediately cease operations, notify the owner and proceed to re-establish the containment system integrity.

At the completion of any required spill clean up. The site competent personal shall file a complete report outlining the causes, corrective measures taken, and measures to prevent reoccurrence.



Site Specific Health, Safety and Work Plan

Del Monte Foods Plant 35  
1250 Park Avenue  
Emeryville, California

**Acknowledgment**

I have read and understand the Site Specific Health, Safety and Work Plan for the above referenced project.

_____ Employee's Signature	_____ Date
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