

8/8/89

Underground Gasoline Storage  
Tank Removal Report  
Del Monte Plant No. 35  
Emeryville, California

Prepared for  
Del Monte, USA

by  
CH2M HILL

August 1989

P.O. Box 3575  
San Francisco, CA 94119-3575  
Cable: Delmonte

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Del Monte Foods, USA

July 31, 1989

Mr. Dennis Byrne  
Hazardous Materials Specialist  
Alameda County Health Agency  
80 Swan Way, Room 200  
Oakland, CA 94621

Dear Mr. Byrne:

Subject: Underground Gasoline Storage Tank Removal Report  
Del Monte Plant No. 35, 1250 Park Avenue, CA

Attached is the report for the removal of the underground gasoline tank that you witnessed. As explained in the introduction, separate reports will be prepared for the removal of the gasoline tank and the four fuel tanks. This latter report will be submitted shortly.

This report summarizes some existing information on Plant No. 35, documents the gasoline tank removal activities, and recommends a follow-up plan. The recommended plan includes monitoring the groundwater well for one year, of which two sampling events (two quarters) have been completed. At the end of the one year, the data will be evaluated. If the data indicate that continued monitoring is not necessary, we will submit a letter to you and the RWQCB requesting that continued monitoring no longer be required and that the Plant 35 gasoline tank case be closed.

If you have any questions or comments about this report and the recommended follow-up plan, please contact me as soon as possible.

Sincerely,

A handwritten signature in cursive script that reads "Bharat M. Shah".

Bharat M. Shah  
Sr. Project Engineer

cc: Lester Feldman/Regional Water Quality Control Board  
San Francisco Region  
Wilbur Sprague/for Del Monte  
Susan Colman/CH2M Hill  
V. P. Rode - SFO  
W. G. Riker - SFO

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## Section 1 INTRODUCTION

### OBJECTIVES

The objective of this report is to summarize the underground gasoline storage tank removal and sampling activities conducted at Del Monte's Plant No. 35 located at 1250 Park Avenue, Emeryville, Alameda County, California. The activities conducted at Plant No. 35 include:

- o Removal of one underground gasoline storage tank
- o Soil sampling beneath the tank after removal
- o Installation of one groundwater monitoring well
- o Groundwater sampling

Section 1 of this report describes the background of the Plant No. 35 property including a previous tank removal and a groundwater sampling effort. Section 2 describes the removal of the gasoline tank, and documents the methods and procedures for soil sampling, monitoring well installation, and groundwater sampling. The soil and groundwater sample results are discussed in Section 3 and a recommended follow-up plan is presented in Section 4.

Four fuel oil tanks were also removed from the southwest corner of the property which has been leased for over 10 years. Because the property will be subdivided for sale, the removal of these four tanks will be described in a separate report.

### BACKGROUND

The main portion of Del Monte's Plant No. 35 is located on approximately 13 acres in Emeryville, California (Figure 1-1). Del Monte acquired the property in 1928 and operated a fish oil processing facility on the western portion of the property and a fruit cannery on the remaining property until the early 1950s. After that time, the fruit cannery operations were conducted on the entire property. Previous activities conducted at the Plant No. 35 property are described in this section including removing a 550-gallon gasoline tank and groundwater sampling and analysis.

### PREVIOUS TANK REMOVAL

A 550-gallon gasoline tank previously located near the general offices on Park Avenue (Figure 1-2) was removed on

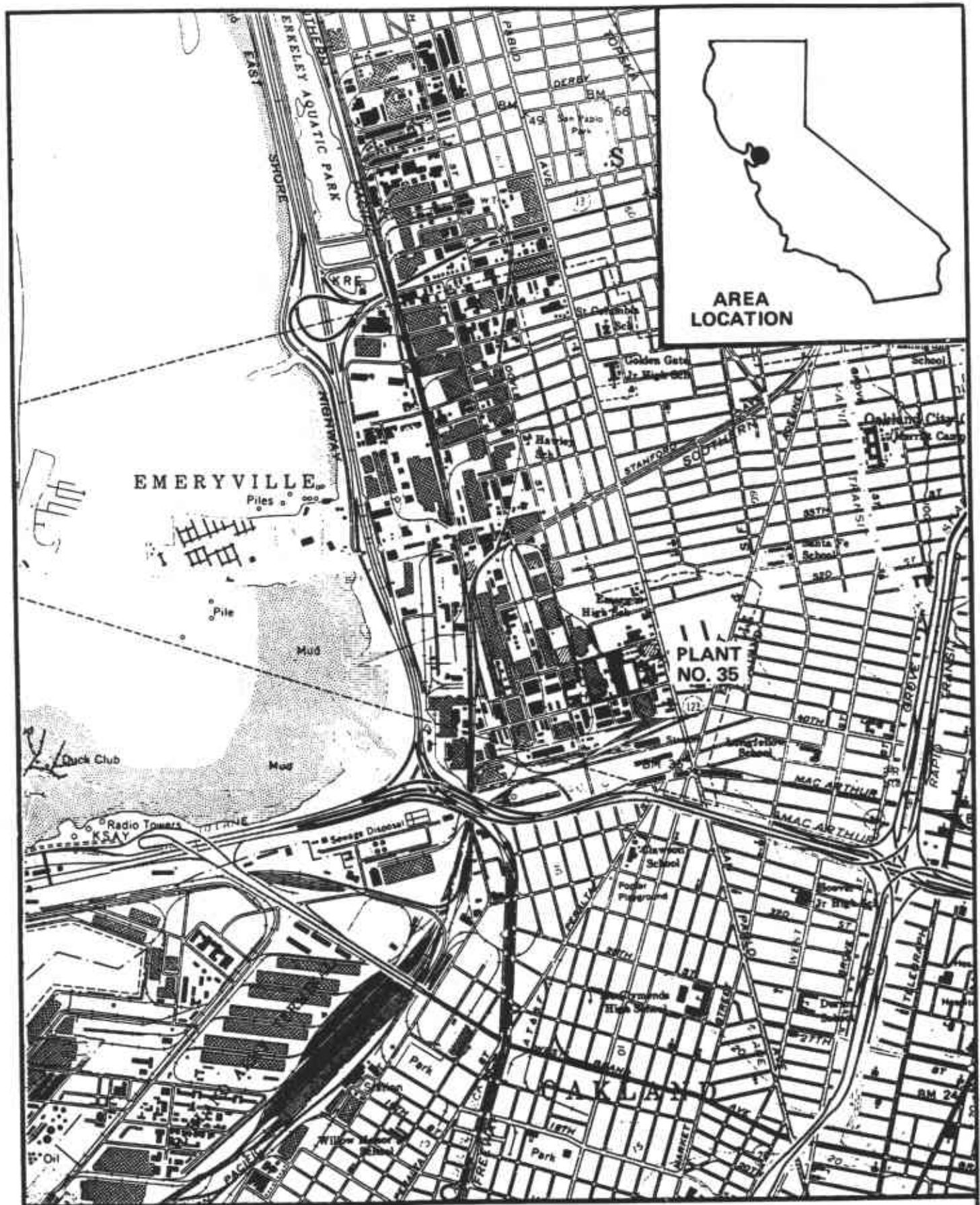


FIGURE 1-1

DEL MONTE PLANT NO.35 LOCATION MAP

1" = 2000'

CPI/HILL

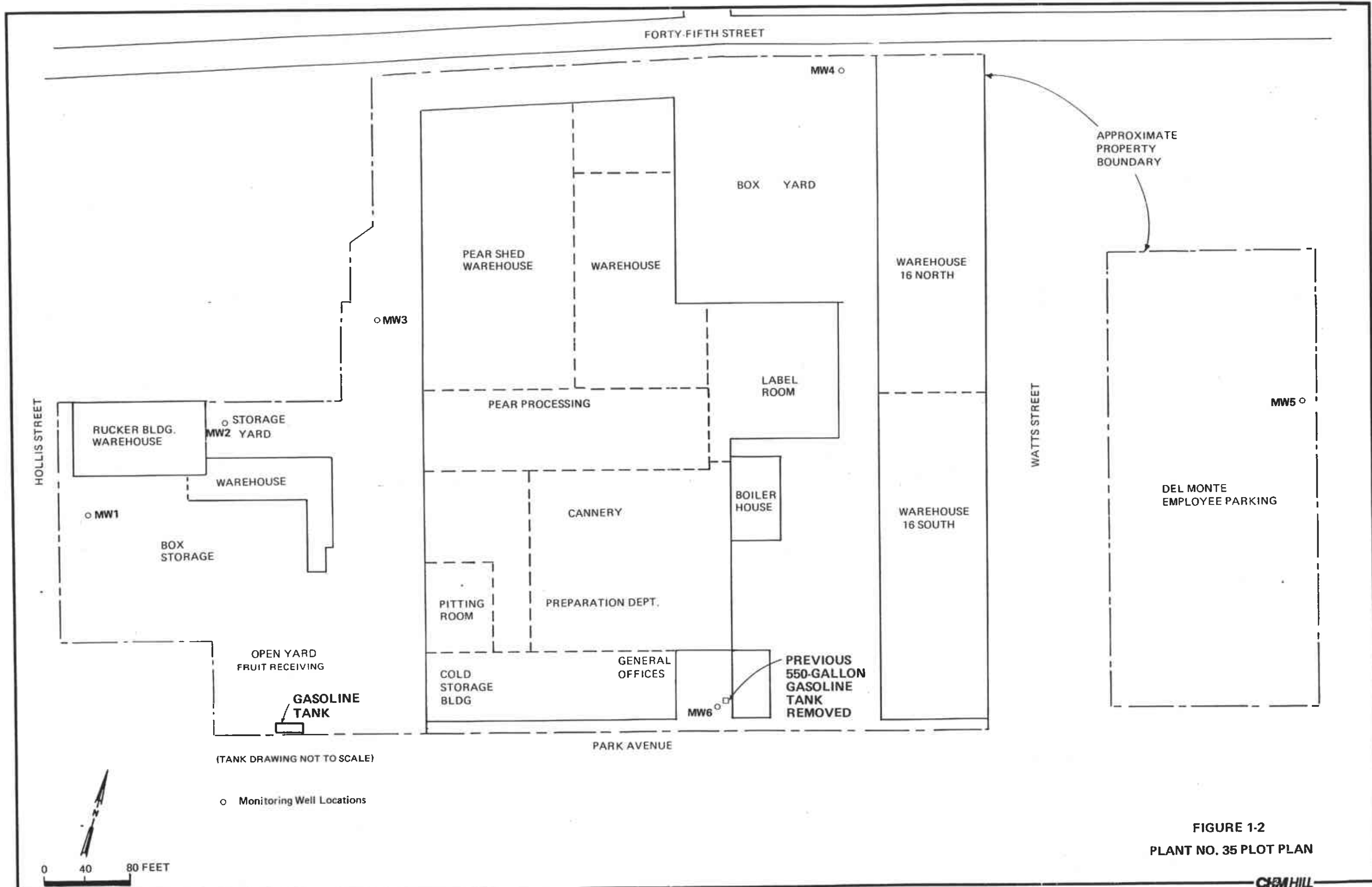


FIGURE 1-2  
PLANT NO. 35 PLOT PLAN

January 28, 1986, and a soil sample was collected from 3 feet below the bottom of the tank (Exceltech, Inc., 1986). Because of inclement weather and because the excavation was near a building, the excavation was backfilled pending laboratory results. The soil sample data are presented in Table 1-1. On February 7, 1986, one soil boring was drilled next to the backfilled area, and another about 13 feet away in the down-gradient direction. Soil samples were collected from the first boring, and groundwater which accumulated in the boreholes was collected from both locations. (These borings were not completed wells.) The report is unclear, but it appears that the boring 13 feet from the tank was backfilled (material unknown) and covered with an asphalt patch, and a monitoring well was installed in the boring adjacent to the tank excavation. The monitoring well was sampled in August 1987; these data are also shown in Table 1-1 (Exceltech, Inc., 1987).

Table 1-1  
EXISTING DATA FROM 550-GALLON UST CLOSURE

Sample Type	Date of Sample	Depth of Sample (feet)	Total Volatile Hydrocarbons <sup>a</sup> (ppm)	Benzene (ppm)	Toluene (ppm)	Xylene (ppm)	Ethylbenzene (ppm)
Soil	1/28/86	10 <sup>b</sup>	1,500	46	45	22	-
	2/07/86	7 <sup>c</sup>	150	0.54	1.5	0.94	-
	2/07/86	10 <sup>c</sup>	17	0.13	0.098	0.063	-
	2/07/86	13 <sup>c</sup>	1.3	0.014	0.064	0.048	-
	2/07/86	16 <sup>c</sup>	0.10	0.018	0.033	0.031	-
Water	2/07/86	16 <sup>d</sup>	6.2	0.044	0.04	0.025	-
	2/07/86	13 <sup>e</sup>	1.9	0.033	0.024	0.020	-
	8/07/87	16 <sup>f,g</sup>	<0.05	<0.0005	0.0012	0.0006	-
	12/06/88	16 <sup>f,g</sup>	<1	<0.001	<0.002	<0.003	<0.001
	5/12/89	16 <sup>f,g</sup>	0.910	<0.0003	<0.0003	0.011	<0.0003
	7/10/89	16 <sup>f,g</sup>	0.210	<0.0003	<0.0003	0.006	<0.0003

<sup>a</sup>Equivalent to total petroleum hydrocarbons as gasoline (personal communication with Trace Analysis Laboratories, Inc., February 1, 1989).

<sup>b</sup>Soil sample collected from the tank excavation, 3 feet below the tank bottom.

<sup>c</sup>Soil samples collected from a boring located adjacent to excavated tank location.

<sup>d</sup>Water sample collected from a soil boring located adjacent to excavated tank location.

It does not appear that this was a completed monitoring well.

<sup>e</sup>Water sample collected from a soil boring 13 feet from excavated tank location.

<sup>f</sup>Water sample collected from completed monitoring well at same location as in d.

<sup>g</sup>Samples collected by CH2M HILL.

Note: ppm = parts per million in mg/kg for soil and mg/l for water.

Sources: Letter from Michael Hansen, Exceltech, Inc. to Mr. Todd Simon, Del Monte Corporation, dated February 25, 1986. Property Assessment Report, Del Monte Plant No. 35, by CH2M HILL, dated June 1989.

On December 6, 1988, and May 12 and July 7, 1989, additional groundwater samples were collected from the monitoring well (designated MW6 in Figure 1-2) near this tank. As seen in Table 1-1, the 1986 through 1989 data show that the concentrations in the groundwater have decreased over time with some fluctuation in total petroleum hydrocarbons (TPH) as gasoline and xylene concentrations.

## GROUNDWATER SAMPLING

As part of a property assessment conducted in December 1988, five groundwater monitoring wells were installed around the Plant No. 35 property (Figure 1-2). Water levels were measured in the wells to determine the groundwater flow direction. Shallow groundwater exists beneath the property at a depth of approximately 11 feet below ground surface (bgs) in MW1 and MW2, and approximately 7 feet bgs in MW3, MW4, MW5, and MW6. This shallow groundwater flows horizontally from the northeast to west southwest under a horizontal hydraulic gradient of about 0.015 feet/foot.

Groundwater quality data collected from beneath Plant No. 35 during the property assessment are shown in Table 1-2 for comparison to California secondary drinking water standards (Table 1-3). As seen in these tables, the groundwater beneath the Plant No. 35 property exceeds the recommended secondary maximum contaminant level (MCL) for total dissolved solids and electrical conductivity, and as such, would probably not be recommended for a drinking water supply.

Table 1-2  
EXISTING GROUNDWATER DATA

Well No.	Concentration (ppm)		
	Total Dissolved Solids	Electrical Conductivity (umohs/cm)	Chloride
MW1	532	1,010	24.8
MW2	516	886	30.3
MW3	610	972	29.5
MW4	570	849	34.5
MW5	668	1,100	27.7
MW6	453	683	20.6



Table 1-3  
CALIFORNIA SECONDARY DRINKING WATER STANDARDS

<u>Constituent</u>	<u>Maximum Contaminant Levels (MCLS) (ppm)</u>		
	<u>Recommended</u>	<u>Upper</u>	<u>Short-Term</u>
Total Dissolved Solids	500	1,000	1,500
Electrical Conductivity (umhos/cm)	900	1,600	2,200
Chloride	250	500	500

Source: CCR, Title 22, Section 64473.

## Section 2 INVESTIGATION METHODS AND PROCEDURES

In the following subsections, the methods and procedures for the tank removal activities conducted in 1989 and the associated soil and groundwater sampling are described.

### INITIAL SOIL SAMPLING

Soil samples were collected on February 8, 1989, prior to tank removal, to assess whether a potential release had occurred. One soil boring (EMS-3) was drilled near the anticipated location of the gasoline tank (Figure 2-1).

Before sampling, equipment was decontaminated by washing with Alconox, rinsing twice with clean water, and rinsing once with distilled water. The brass sleeves used for soil sampling were also rinsed with isopropanol and allowed to dry.

The soil boring was drilled using 8-inch outer diameter hollow stem augering equipment operated by Exploration Geoservices, Inc. Soil samples were collected by driving a 2.5-inch-diameter, 18-inch-long Modified California sampler containing three 6-inch brass sleeves ahead of the augers. The sampler was advanced so that the middle sleeve was at the desired sample depth. A sample was collected between 6 and 6.5 feet bgs and between 8 and 8.5 feet bgs.

The samples were analyzed for TPH as gasoline and diesel, and for BTEX compounds (benzene, toluene, ethylbenzene, and xylene). The analytical results are shown in Table 2-1. The laboratory data sheets and chain-of-custody records are provided in Appendix A.

The soil cuttings were stored in a 55-gallon drum on the Plant No. 35 property until laboratory results were available. In March 1989, the soil was spread on a plastic sheet and aerated with the soil removed during excavation of the gasoline tank. Sampling and disposal of the aerated soil are described in the next subsection.

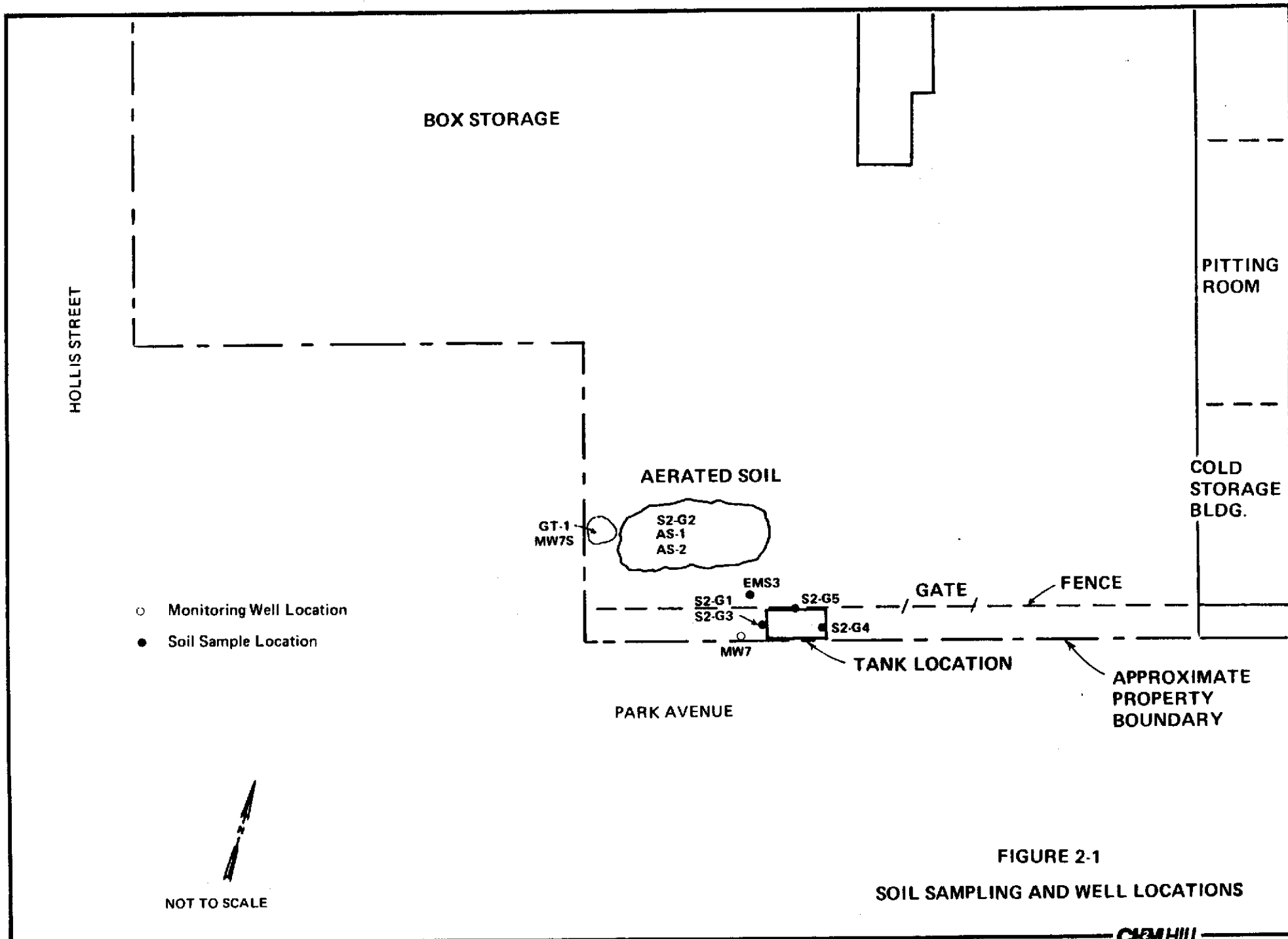


FIGURE 2-1

SOIL SAMPLING AND WELL LOCATIONS

Table 2-1  
LABORATORY RESULTS OF INITIAL SOIL SAMPLING

<u>Compounds Detected</u>	<u>Soil Sample EMS-3</u>	
	<u>6 ft.</u>	<u>8 ft.</u>
TPH as diesel	<10	<10
THP as gasoline	1.5	0.9
Benzene	<0.005	<0.005
Ethylbenzene	<0.005	<0.005
Toluene	<0.005	<0.005
Xylenes, total	<0.005	<0.005

Notes:

Laboratory analyses performed on samples: Total Petroleum Hydrocarbons (TPH) as diesel: Preparation by EPA Method 3550 (sonication), analysis by modified EPA Method 8015 (GC/FID)

Total Petroleum Hydrocarbons as gasoline: Preparation by EPA Method 5030, analysis by modified EPA Method 8015 (GC/FID)

Benzene, toluene, ethylbenzene, xylene: Preparation by EPA Method 5030, analysis by EPA Method 8020

UNDERGROUND STORAGE TANK

TANK REMOVAL

An underground gasoline storage tank with a capacity of about 550 gallons was removed from the Plant No. 35 property on March 22, 1989. The removal activities followed California Regional Water Quality Control Board (RWQCB) Leaking Underground Fuel Tank (LUFT) guidelines (RWQCB, 1988). The Bay Area Air Quality Management District was notified in writing one week prior to removing the tanks as required by Regulation 8, Rule 40. The gasoline pumps were removed over 10 years ago and, at about that time, the contents of the tanks were also pumped out.

Prior to removal, the tank was rinsed with water until the explosimeter indicated that the lower explosive limit (LEL) was at a safe level. Approximately 15 pounds of dry ice was then added to the tank. After about 45 minutes to one hour, the LEL was approximately 40 percent and oxygen was at zero percent. The tank was removed and placed on a flat-bed truck. Mr. Jim Eversole, Assistant Chief Fire Marshall,

City of Emeryville, was present to witness the removal. No large holes were apparent in the tank. Some vapor from the dry ice was escaping from some small holes at the bottom of the fill end of the tank. The rinsewater and tank were transported and disposed by H&H Ship Service Corp. Copies of the manifests are included in Appendix B.

The soil backfill surrounding the tank consisted of sandy silt. Silty clay was encountered at about 0.5 foot below the bottom of the tank or at about 6.5 feet below ground surface.

#### SOIL SAMPLING

Soil samples were collected from 3 sides of the excavation as shown in Figure 2-1 by bringing a shovel full of soil up with a backhoe, removing the top layer of soil, and quickly driving a clean 6-inch brass tube into the soil with a hammer. The brass tubes were decontaminated before coming on the property by washing with Alconox, rinsing with clean water, rinsing with distilled water, then rinsing with isopropanol, allowed to dry, and stored in sealed plastic bags.

The samples were labeled, sealed with aluminum-lined caps and electrical tape, placed in plastic bags, and stored in a cooler. Chain-of-custody records were completed and the coolers were delivered to the laboratory the same day. All samples were analyzed for TPH as gasoline (Modified EPA Method 8015) and BTEX compounds (EPA Method 8020). Laboratory data sheets and chain-of-custody records are provided in Appendix A.

Mr. Dennis Byrne, Hazardous Materials Specialist, Alameda County Health Agency, was present to witness soil sampling. Per concurrence by Mr. Byrne, soil was not removed and a sample was not collected on the south side of the excavation because of potential structural damage to a 12 kilovolt power line that rested in loose gravel backfill beneath the sidewalk. A sample (S2-G1) was collected from the west end (downgradient end) of the excavation from about 6 feet below ground surface. An organic vapor meter (OVM) was used to assess the extent of TPH as gasoline contamination in the field. The OVM indicated about 350 ppm volatile organics in this sample. The analytical results showed the sample contained 280 ppm TPH as gasoline and 1.5 ppm xylene (Table 2-2). The silty clay beneath the tank contained approximately 1 to 2 ppm volatile organics based on the OVM. It appeared that the gasoline had migrated only a limited extent into the silty clay. A small amount of water was present in the excavation, but not enough to collect a sample.

Table 2-2  
SOIL SAMPLING RESULTS FROM TANK REMOVALS

Sample ID <sup>a</sup>	Field OVM	Concentration (ppm)						Lead	
		TPH		BE <sup>b</sup>	Toluene	Xylene	TTLC	STLC	
		Gasoline	Diesel						
Gasoline Tank Removal									
S2-G1	350	280	<10	<0.1	<0.1	1.5	NA	NA	
S2-G3	22	<10	<10	<0.1	<0.1	<0.1	NA	NA	
S2-G4	ND	<10	<10	<0.1	<0.1	<0.1	NA	NA	
S2-G5	465	470	<10	<0.1	<0.1	5.4	NA	NA	
Soil Stockpile									
S2-G2	NA	220	<10	<0.1	0.14	0.72	NA	NA	
AS-1	NA	18	NA	NA	NA	NA	NA	NA	
AS-2	NA	NA	NA	NA	NA	NA	140	3.8	
Well Cuttings									
GT-1	NA	52	NA	NA	NA	NA	NA	NA	
MW7S	NA	<10	NA	NA	NA	NA	NA	NA	
S-2	NA	NA	NA	NA	NA	NA	36	0.5	

NA: Not analyzed

ND: Not detected

<10: Not detected at the detection limit shown

<sup>a</sup>Sampling Locations (refer to Figure 2-1 in text):

S2-G1: West end of gasoline tank excavation before soil removal

S2-G3: West end of gasoline tank excavation after soil removal

S2-G4: East end of gasoline tank excavation

S2-G5: Fence (north) side of gas tank excavation

S2-G2: Soil removed from gasoline tank excavation--before aeration

AS-1: Soil removed from gasoline tank excavation--after aeration

AS-2: Soil removed from gasoline tank excavation--after aeration

(for lead analysis)

GT-1: Well cuttings from MW7--before aeration

MW7S: Well cuttings from MW7--after aeration

S-2: Well cuttings from MW7--after aeration (for lead analysis)

<sup>b</sup>Benzene, Ethylbenzene

As much of the contaminated soil as possible was removed from the excavation. After additional soil was removed from the west end, a second sample (S2-G3) was collected. The OVM indicated about 22 ppm volatile organics. The laboratory analysis showed that the sample did not contain detectable concentrations of TPH as gasoline or BTEX compounds (Table 2-2) indicating that most of the gasoline-contaminated soil was removed from the west end.

Soil was removed from the east end of the excavation until the level of organic vapors was below the detection limit of the OVM. A soil sample (S2-G4) was then collected from the backhoe bucket of soil taken from about 6 feet below the

ground surface (Figure 2-1). The laboratory analysis (Table 2-2) showed that the sample did not contain detectable concentrations of TPH as gasoline or BTEX compounds indicating that most of the contaminated soil was removed from the east end.

Only a few inches could be removed from the north side of the excavation because of potential structural damage to the fence. A sample was collected (S2-G5) and the OVM indicated about 465 ppm volatile organics. The laboratory results showed the sample contained 470 ppm gasoline and 5.4 ppm xylene (Table 2-2). Per concurrence by Mr. Byrne, after the laboratory data were available, no additional soil excavation was conducted.

After the sampling results were received, the excavation was filled with pea gravel, and the sidewalk was replaced and inspected by the City of Emeryville Building Department.

#### SOIL AERATION AND DISPOSAL

During excavation of the tank, soil containing TPH as gasoline was encountered as discussed in the previous section. Thereafter, each backhoe bucket of soil was monitored with the OVM. As seen by the data presented in the previous section, there was a good correlation between the OVM concentrations measured in the field and the laboratory results. The OVM appears to yield conservative results to assess TPH as gasoline contamination in soil at this site, and therefore, the OVM was a reliable indicator. The soil containing TPH as gasoline was separated and stored on a plastic sheet on the property, and the clean soil was used as backfill in the excavation where the 4 fuel oil tanks were removed (to be described in another report, as mentioned in Section 1).

A composite soil sample (S2-G2) was collected from the pile of contaminated soil before aeration. The sample was collected from an area of the pile that contained a representative mixture of visibly contaminated and clean soil. The soil was then spread on plastic and aerated. As shown in Table 2-2, the soil contained gasoline, xylene, and toluene before aeration. A composite sample (AS-1), which contained 18 ppm TPH as gasoline (Table 2-2), was collected on May 4, 1989, after aeration. Another composite sample (AS-2) was collected on May 25, 1989, to be analyzed for lead as required prior to disposal in a landfill. The soil contained 140 mg/kg of total lead (TTL method) and 3.8 mg/l soluble lead (STLC method) (Table 2-2). The laboratory data sheets and the chain-of-custody records are provided in Appendix A.

The soil was transported by Kern Backhoe Services, Inc. to Liquid Waste Management's Class II landfill, in McKittrick, California. A copy of the nonhazardous waste hauler record is provided in Appendix B.

### MONITORING WELL INSTALLATION AND SAMPLING

A groundwater monitoring well (MW7) was installed approximately 6 feet downgradient of the tank excavation as shown in Figure 2-1. The well installation, development, and sampling activities are described in this section.

#### WELL INSTALLATION

CH2M HILL developed well construction specifications following California RWQCB guidelines and retained Exploration Geoservices, Inc. of San Jose, California to drill and install the monitoring well. The absence of underground utilities in the vicinity of the well locations was verified first by contacting Underground Utilities Alert and subsequently by contacting specific utility companies. Clearance from overhead powerlines was verified with Pacific Gas and Electric. Prior to drilling, a 16-inch wide square hole was cut through the existing concrete.

The well was installed on May 3, 1989. Before installation, the drilling equipment was decontaminated by steam cleaning.

The borehole for the monitoring well was drilled using a Mobile B-24 drill with 6-inch outside diameter flight augers. Flight augers were suitable for well installation because of the cohesiveness of the soil. The borehole was drilled to about 25 feet bgs, which is about 15 feet below the bottom of the tank as required by the California RWQCB LUFT Manual. Once total depth was reached, the augers were withdrawn from the borehole and the monitoring well was installed within the open 6-inch diameter boring.

The monitoring well was constructed with 2-inch outer diameter, flush threaded, schedule 40 PVC casing and 0.020-inch slot screen. Threaded caps were placed on the bottom of the casings. The screen extended from about 5 feet to about 25 feet bgs.

Clean, washed Monterey sand (Lone Star No. 3, 8 x 20 sieve size) was used for sand pack. The elevation of the sand pack was continually sounded as the sand was being added. The sand pack was installed from the bottom of the borehole upward to approximately 1.5 to 2 feet above the top of the screen.



After the sand pack was in place, a 1-foot-thick bentonite pellet seal was placed on top of the gravel pack. Water was added to the borehole and the bentonite pellets were allowed to hydrate for 15 to 30 minutes to form a seal before well construction continued.

An annular seal of portland cement concrete was installed from the top of the bentonite (2.5 feet bgs) to the traffic box at ground surface. The well was completed below grade with a water-tight traffic box. The top of the traffic box protrudes approximately 0.5 inch above the top of the existing pavement ("ground surface") to promote drainage. A locking, watertight well cap and lock were placed in the top of the PVC casing upon completion of the well.

During drilling, the subsurface lithology was logged from drill cuttings. The well log is provided in Appendix A. The elevation of top of the well casing was surveyed to the nearest 0.01 foot. The survey data are also provided in Appendix A.

#### WELL DEVELOPMENT

The well was developed on May 4, 1989, both by bailing and pumping with a bilge pump and gas-powered centrifugal pump until the water appeared to be free of fine-grained particles. A total of approximately 77 gallons was purged from MW7.

Water from steam cleaning drilling equipment, from cleaning development and sampling equipment, and from well development was temporarily stored in 55-gallon drums on the property.

While drilling the well, the odor of gasoline was evident in soil cuttings from MW7. The drill cuttings were stored in a 55-gallon drum and a sample of the cuttings was collected. The sample of MW7 cuttings (GT-1) contained 52 ppm TPH as gasoline (Table 2-2). The soil was then spread on a plastic sheet and aerated. After aeration, a sample of MW7 cuttings (MW7S) did not contain detectable concentrations of TPH as gasoline (Table 2-2). A sample was also collected (S-2) for lead analysis. The sample contained 36 mg/kg of total lead (TTL method) and 0.5 mg/l of soluble lead (STLC method) (Table 2-2). The laboratory data sheets and chain-of-custody records are provided in Appendix A. The soil from MW7 was transported with the soil removed from the tank excavation by Kern Backhoe Services, Inc. to Liquid Waste Management's Class II landfill, in McKittrick, California.

## GROUNDWATER SAMPLING

MW6 and MW7 were sampled on May 12, 1989, at least 24 hours after MW7 was developed, and on July 10, 1989. Prior to sampling at each well, the well sounder, clear bailer, rope, and plastic hose used for purging the wells were decontaminated with an Alconox and tap water wash followed by a tap water rinse. The sampling bailer was also rinsed with isopropanol then distilled water. MW6 was sampled first because it was assumed to be the least contaminated well, followed by MW7.

Before collecting groundwater samples, the water elevation was measured to the nearest 0.01 inch with an electric well sounder, and free-floating petroleum product thickness was measured using a clear, acrylic bailer. No free product or petroleum sheen was observed on the surface of the water standing in the wells; the odor of gasoline, however, was noted in MW7.

Standing water was purged from the wells using a hand-powered suction pump with a clean plastic hose. Approximately 12 gallons (about 7 well volumes) were purged from MW6 and about 13 to 18 gallons (about 4 well volumes) were removed from MW7. While evacuating the water from the well, the specific conductance was measured. A water sample was then collected using a Teflon bailer and transferred to the appropriate sample containers. The 40-ml VOA bottles were carefully filled to prevent any aeration or formation of air bubbles within the containers after sealing. Sample containers were labeled, decontaminated with Alconox and clean water, placed in zip-lock plastic bags, and stored in an ice-filled cooler. Chain-of-custody records were completed and samples were delivered to the laboratory the same day. All discarded groundwater was stored in 55-gallon drums on the property.

The groundwater samples collected from MW6 and MW7 were analyzed for TPH as gasoline (Modified EPA Method 8015) and BTEX compounds (EPA Method 8020). Laboratory data sheets and chain-of-custody records are provided in Appendix A. The groundwater sampling results for MW6 and MW7 are shown in Table 2-3 and are discussed in Section 3.

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Table 2-3  
GROUNDWATER SAMPLING RESULTS (ppm)

<u>Well</u>	<u>Date</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Xylene</u>
MW6 <sup>a</sup>	5/12/89	0.91	<0.0003	<0.0003	<0.0003	0.011
	7/10/89	0.21	<0.0003	<0.0003	<0.0003	0.006
MW7	5/12/89	1.00	0.049	0.0016	0.0045	0.0059
	7/10/89	0.50	0.0052	0.0006	<0.0003	0.0056

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<sup>a</sup>See Table 1-1, in Section 1, for earlier sample data.  
<0.0003: Not detected at detection limit shown.

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### Section 3 DISCUSSION OF RESULTS

This section discusses the results of the soil and groundwater sampling conducted at the Plant No. 35 property.

#### SOILS

It appears that most of the gasoline-contaminated soil was associated with the sandy silt backfill and only minimal contamination extended into the silty clay beneath the tank. Most of the soil contaminated with TPH as gasoline was removed prior to backfilling the excavation, thus reducing a continuing source of gasoline contamination to the groundwater. The extent of remaining contamination is addressed below.

The initial soil sample collected from the west end of the excavation contained 280 ppm TPH as gasoline and 1.5 ppm xylene. Soil was removed from the excavation until the sample did not contain detectable concentrations of TPH as gasoline. The soil cuttings from MW7, about 6 feet downgradient of the west end, contained 52 ppm of TPH as gasoline.

On the north side of the excavation, as much soil as possible was removed without causing damage to the property fence. A sample of the soil on this side contained 470 ppm of TPH as gasoline. Per concurrence with Dennis Byrne, Alameda County Health Agency, removal of soil at this concentration was not required. The extent of gasoline contamination on this side appears to be limited, however, based on samples collected at EMS3 to the northwest (Figure 2-1). This sample contained 1.5 ppm TPH as gasoline at 6 feet below ground surface (bgs) and 0.9 ppm at 8 feet bgs (Appendix A).

Soil was also removed from the east end of the excavation until a sample did not contain detectable concentrations. On the south side of the excavation, however, soil was not removed and samples were not collected because of potential problems with the 12 kilovolt electrical line in the sidewalk. This was also with concurrence with Dennis Byrne.

#### GROUNDWATER

Groundwater was encountered at about 8 feet bgs in MW6 and at approximately 7 feet bgs in MW7. There was no free-floating product or sheen evident on the water table in

either well. As seen in Table 2-3, concentrations of benzene, toluene, and ethylbenzene are below detection in MW6 and TPH as gasoline and xylene concentrations have decreased. In MW7, all concentrations have decreased in the 2 month period between May and July.

According to the Water Quality Control Plan for the San Francisco Bay Basin (California RWQCB, San Francisco Region, 1982, 1986), potential beneficial uses of groundwater applicable to the main groundwater basins are municipal supply, industrial process water supply, industrial service supply, and agricultural supply. The Emeryville area is above the northern East Bay Area of the Santa Clara Valley groundwater basin. The lack of attention to the northern area of this basin tends to indicate a low level of groundwater use (RWQCB, 1982 and 1986; DWR, 1963 and 1975; USGS, 1972 and 1988). This may be because of limited groundwater yield due to the extensive area covered by the bay mud, and because the northern area of Alameda County is highly developed and industrialized. In addition, the groundwater beneath Plant No. 35 is above the recommended California secondary drinking water standards for total dissolved solids and electrical conductivity (Tables 1-2 and 1-3 in Section 1).

State and federal drinking water standards and aquatic toxicity levels for organic chemicals are provided in Table 3-1 as a point of reference only. These standards do not specifically apply to the groundwater at Plant No. 35 because this water is not a source of drinking water and aquatic wildlife is not directly exposed to it.

Table 3-1  
COMPARISON TO STATE AND FEDERAL CRITERIA

Compound	Concentration (ppm) <sup>a</sup>		Calif. Action Level <sup>b</sup>	Calif. MCL <sup>c</sup>	Fed. MCL <sup>d</sup>	Lowest Reported Effects Level (ppm) <sup>e</sup>	
	MW6	MW7	(ppm)	(ppm)	(ppm)	Freshwater	Saltwater
TPH as							
Gasoline	0.21	0.5	--	--	--	--	--
Benzene	<0.0003	0.0052	--	0.001	0.005	5.3	5.1
Toluene	<0.0003	0.0006	0.1	--	--	17.5	6.3
Ethylbenzene	<0.0003	<0.0003	--	0.680	--	32	0.43
Xylene	0.006	0.0056	--	1.750	--	--	--

<sup>a</sup>From Table 2-3, in Section 2.

<sup>b</sup>California ALs are nonpromulgated guidance levels developed by the California DHS Water Supply Branch.

<sup>c</sup>California MCLs were promulgated in early 1989, CRC, Title 22, Section 64444.5.

<sup>d</sup>Safe Drinking Water Act MCLs listed in 40 CFR 141.

<sup>e</sup>Not enough data were available to derive national water quality criteria for the protection of freshwater and saltwater aquatic life. The values reflect the lowest reported acute toxicity effects level; from 40 FR 79318, November 28, 1980.

As shown in Table 3-1, toluene, ethylbenzene, and xylene in groundwater samples collected from the shallow groundwater zone beneath Plant No. 35 are all below the California and/or federal criteria. The benzene concentration in MW7 is above the California and federal maximum contaminant level (MCL) for drinking water. The groundwater beneath the Plant No. 35, however, is not currently used for drinking water. In addition, it does not appear that future beneficial uses would be impaired as seen by the reduction in concentrations between May and July (Table 2-3).

Potential receptors of the shallow groundwater may be aquatic life because the groundwater flows westward towards the San Francisco Bay. The benzene, toluene, and ethylbenzene concentrations currently beneath Plant No. 35, however, are below the lowest reported acute toxicity effects level for freshwater and saltwater aquatic life, and further attenuation would be expected before this shallow groundwater migrates to the Bay.

SF034/015.50

Section 4  
RECOMMENDED FOLLOW-UP PLAN

The recommended follow-up plan is continued monitoring and no further soil or groundwater remediation. This is recommended for the following reasons:

1. The tank and probably most of the contaminated soil have been removed from the property. Therefore, the source of groundwater contamination has been reduced.
2. The concentrations of toluene, ethylbenzene, and xylene in the shallow groundwater do not exceed federal or California criteria.
3. Although the concentration of benzene in MW7 exceeds the California drinking water MCL, the groundwater is not currently used as a drinking water source. Because of decreasing concentrations in MW7, it does not appear that future beneficial uses would be impaired.
4. Potential receptors may be aquatic life in the San Francisco Bay. The concentrations currently beneath Plant No. 35 do not exceed the lowest reported acute toxicity effects level for freshwater and saltwater aquatic life, and further attenuation of contaminants would be expected before the groundwater migrates to the Bay.

The groundwater in MW6 and MW7 will be monitored quarterly for TPH as gasoline and BTEX compounds. Monitoring will be conducted for two more quarters. The monitoring data will be submitted in monitoring reports to the Alameda County Health Agency, Division of Hazardous Materials, Department of Environmental Health, and the California RWQCB, San Francisco Region. At the end of one year, the data will be evaluated. If the data indicate that continued monitoring is not necessary, a letter will be submitted to both agencies requesting that continued monitoring no longer be required and the Plant No. 35 gasoline tank closure case be closed. Notification to future owners of the property will include these requirements.

SFO34/016.50

Section 5  
REFERENCES

California Regional Water Quality Control Board. Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure. May, 1988.

California Regional Water Quality Control Board. San Francisco Region, Water Quality Control Plan for the San Francisco Bay Basin. 1982, 1986.

Department of Water Resources. California's Ground Water, Bulletin No. 118. September, 1975.

Department of Water Resources. Bulletin No. 13, Alameda County Investigation. March, 1963.

Exceltech, Inc. Letters from Michael Hansen to Mr. Todd Simon, Del Monte Corporation, dated January 30, 1986, February 5, 1986, and February 25, 1986.

Exceltech, Inc. Letter from Sharon Beldon to Mr. John Upmyer, Del Monte Corporation. March 8, 1988.

U.S. Department of the Interior, Geological Survey, Water Resources Division. A Summary View of Water Supply and Demand in the San Francisco Bay Region, California. July 14, 1972.

U.S. Department of the Interior, Geological Survey, Water Resources Data. California, Water Year 1988 (Water-Data Report CA-88-A). April, 1989.



**Appendix A**  
**FIELD AND LABORATORY DATA SHEETS**

This appendix contains the following:

- o Soil Data Sheets
- o Groundwater Data Sheets
- o Monitoring Well Boring Log
- o Surveying Data



**BROWN AND CALDWELL LABORATORIES**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

**ANALYTICAL REPORT**

LOG NO: E89-02-248

Received: 08 FEB 89

Reported: 22 FEB 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SFO 27289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-248-1	EMS 1-6	08 FEB 89				
02-248-2	EMS 1-9	08 FEB 89				
02-248-3	EMS 2-6	08 FEB 89				
02-248-4	EMS 2-9	08 FEB 89				
02-248-5	EMS 3-6	08 FEB 89				
PARAMETER		02-248-1	02-248-2	02-248-3	02-248-4	02-248-5
C18-C30 Hydrocarbons, mg/kg		<10	<10	<10	<10	<10
Fuel Hydrocarbons, Volatile (Low Level), mg/kg		<0.1	<0.1	0.3	<0.1	1.5



LOG NO: E89-02-248

Received: 08 FEB 89

Reported: 22 FEB 89

Ms. Susan Colman  
 CH2M HILL  
 6425 Christie Street, Suite 500  
 Emeryville, California 94608

Project: SFO 27289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED				
02-248-1	EMS 1-6	08 FEB 89				
02-248-2	EMS 1-9	08 FEB 89				
02-248-3	EMS 2-6	08 FEB 89				
02-248-4	EMS 2-9	08 FEB 89				
02-248-5	EMS 3-6	08 FEB 89				
PARAMETER	02-248-1	02-248-2	02-248-3	02-248-4	02-248-5	
EPA Method 8020						
Date Extracted	02/15/89	02/15/89	02/15/89	02/15/89	02/16/89	
1,2-Dichlorobenzene, ug/kg	<5	<5	<5	<5	<5	
1,3-Dichlorobenzene, ug/kg	<5	<5	<5	<5	<5	
1,4-Dichlorobenzene, ug/kg	<5	<5	<5	<5	<5	
Chlorobenzene, ug/kg	<5	<5	<5	<5	<5	
Benzene, ug/kg	<5	<5	<5	<5	<5	
Ethylbenzene, ug/kg	<5	<5	<5	<5	<5	
Toluene, ug/kg	<5	<5	<5	6	<5	
Total Xylene Isomers, ug/kg	<5	<5	<5			
Other EPA Method 8020	---	---	---	---	---	



**BROWN AND CALDWELL LABORATORIES**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

**ANALYTICAL REPORT**

LOG NO: EB9-02-248

Received: 08 FEB 89

Reported: 22 FEB 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608


Project: SFO 27289.AD.FW

**REPORT OF ANALYTICAL RESULTS**

Page 5

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
02-248-6	EMS 3-9	08 FEB 89
PARAMETER		02-248-6
C18-C30 Hydrocarbons, mg/kg		<10
Fuel Hydrocarbons, Volatile (Low Level), mg/kg		0.9
EPA Method 8020		02/16/89
Date Extracted		<5
1,2-Dichlorobenzene, ug/kg		<5
1,3-Dichlorobenzene, ug/kg		<5
1,4-Dichlorobenzene, ug/kg		<5
Chlorobenzene, ug/kg		<5
Benzene, ug/kg		<5
Ethylbenzene, ug/kg		<5
Toluene, ug/kg		<5
Total Xylene Isomers, ug/kg		<5
Other EPA Method 8020		---

Preliminary results were transmitted to you by facsimile on 02.22.89.  
Invoice amount adjusted to correct for discrepancy with original price quote  
(shared difference = \$225.00)  
TB 02.23.89

  
Sim D. Lessley, Ph.D., Laboratory Director

**CHM Hill** CHAIN OF CUSTODY RECORD

LOG # 8902248

PROJECT NUMBER: SFO 27289.A0.FW  
 PROJECT NAME: Plant 35 Tanks

CLIENT NAME: Del Monte  
 REPORT TO: Susan Colman  
 COPY TO:

REQUESTED COMPLETION DATE: 2/22/89  
 LABORATORY: Brown & Caldwell

ANALYSES REQUESTED

NUMBER OF CONTAINERS	TPH as gas - 5030	TPH as diesel - sonication	BTEX - EPA 8020	Solvents - 8010

FOR LAB USE ONLY

LAB # \_\_\_\_\_  
 PROJ # \_\_\_\_\_  
 ACK \_\_\_\_\_ VERIFIED \_\_\_\_\_  
 DATE INVOICED \_\_\_\_\_  
 NO. OF SAMPLES \_\_\_\_\_ pg \_\_\_\_\_ of \_\_\_\_\_  
 DISPOSITION: D R \_\_\_\_\_ DATE \_\_\_\_\_

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION
--------	------	------	------	------	--------------------

1	2/8/89	10:10		✓	EMS1-6
1		10:30		✓	EMS1-9
2		10:40		✓	EMS2-6
2		11:05		✓	EMS2-9
3		11:55		✓	EMS3-6
3	↓	12:05		✓	EMS3-9

1	✓	✓	✓	✓
1	✓	✓	✓	✓
1	✓	✓	✓	✓
1	✓	✓	✓	✓
1	✓	✓	✓	✓
1	✓	✓	✓	✓

REMARKS

Note methods -  
 TPH as gas → 5030  
 TPH diesel → sonication

Fuel smell  
 ↓

SAMPLED BY AND TITLE (SIGNATURE) 1 Susan Colman		DATE/TIME 2/8/89 12:30	RELINQUISHED BY (SIGNATURE) 2 Susan Colman		DATE/TIME 2/8/89 12:40	RECEIVED BY: (SIGNATURE) 3 Del Monte Scott		DATE/TIME 2/9/89 12:43
RELINQUISHED BY: (SIGNATURE) 4	DATE/TIME	RECEIVED BY: (SIGNATURE) 5	DATE/TIME	RELINQUISHED BY: (SIGNATURE) 6	DATE/TIME	RECEIVED BY LAB: (SIGNATURE) 7	DATE/TIME	
REMARKS	SAMPLING PROGRAM SDWA <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ (SPECIFY)			SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input type="checkbox"/> HAND OTHER _____		AIR BUS BILL NUMBER		



1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-03-551

Received: 22 MAR 89  
Reported: 07 APR 89

Ms. Susan Coleman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

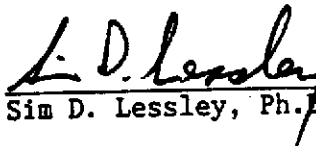
Project: SFO27289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-551-1	S1-G1	22 MAR 89
PARAMETER	03-551-1	
C18-C30 Hydrocarbons, mg/kg	<10	
Fuel Hydrocarbons + BTX		
Date Analyzed	04.03.89	
Dilution Factor, Times	1	
Benzene, mg/kg	<0.1	
Ethylbenzene, mg/kg	<0.1	
Toluene, mg/kg	<0.1	
Total Xylene Isomers, mg/kg	1.5	
Fuel Characterization, .	GAS	
Volatile Fuel Hydrocarbons, mg/kg	280	
Other Fuel Hydrocarbons + BTX	---	

This fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

  
Sim D. Lessley, Ph.D., Laboratory Director



LOG NO: E89-03-552

Received: 22 MAR 89

Reported: 07 APR 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SF027289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
03-552-1	S2-S4			22 MAR 89
03-552-2	S2-S2			22 MAR 89
03-552-3	S2-G2			22 MAR 89
		03-552-1	03-552-2	03-552-3
PARAMETER				
		<10	<10	<10
C18-C30 Hydrocarbons, mg/kg				
Fuel Hydrocarbons + BTX		04.03.89	04.03.89	04.03.89
Date Analyzed		1	1	50
Dilution Factor, Times		<0.1	<0.1	<0.1
Benzene, mg/kg		<0.1	<0.1	<0.1
Ethylbenzene, mg/kg		<0.1	<0.1	0.14
Toluene, mg/kg		<0.1	<0.1	0.72
Total Xylene Isomers, mg/kg		---	---	GAS
Fuel Characterization, .		<5.0	<5.0	220
Volatile Fuel Hydrocarbons, mg/kg		---	---	---
Other Fuel Hydrocarbons + BTX		---	---	---

This fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.



1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-03-550

Received: 22 MAR 89

Reported: 28 MAR 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

REVISED 4/13/89

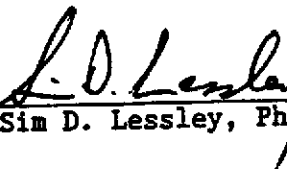
Project: SF027289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
03-550-1	S2-G3			22 MAR 89
03-550-2	S2-G4			22 MAR 89
03-550-3	S2-G5			22 MAR 89
PARAMETER		03-550-1	03-550-2	03-550-3
C18-C30 Hydrocarbons, mg/kg		<10	<10	<10
Fuel Hydrocarbons + BTX		03.22.89	03.22.89	03.22.89
Date Analyzed		1	1	1
Dilution Factor, Times		<0.1	<0.1	<0.1
Benzene, mg/kg		<0.1	<0.1	<0.1
Ethylbenzene, mg/kg		<0.1	<0.1	<0.1
Toluene, mg/kg		<0.1	<0.1	5.4
Total Xylene Isomers, mg/kg		C4-C12	C4-C12	C4-C12
Carbon Range, .		<10	<10	470
Total Fuel Hydrocarbons, mg/kg		---	---	---
Other Fuel Hydrocarbons + BTX				

Carbon range refers to volatile fuel hydrocarbons reported as gasoline which is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.  
Report revised to correct xylene result for sample S2-G5. TB 04.13.89

  
Sim D. Lessley, Ph.D., Laboratory Director





LOG NO: E89-03-550

Received: 22 MAR 89

Reported: 28 MAR 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SF027289.AD.FW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED		
03-550-1	S2-G3			22 MAR 89
03-550-2	S2-G4			22 MAR 89
03-550-3	S2-G5			22 MAR 89
PARAMETER		03-550-1	03-550-2	03-550-3
C18-C30 Hydrocarbons, mg/kg		<10	<10	<10
Fuel Hydrocarbons + BTX				
Date Analyzed		03.22.89	03.22.89	03.22.89
Dilution Factor, Times		1	1	1
Benzene, mg/kg		<0.1	<0.1	<0.1
Ethylbenzene, mg/kg		<0.1	<0.1	<0.1
Toluene, mg/kg		<0.1	<0.1	<0.1
Total Xylene Isomers, mg/kg		<0.1	<0.1	<0.1
Carbon Range, .		C4-C12	C4-C12	C4-C12
Total Fuel Hydrocarbons, mg/kg		<10	<10	470
Other Fuel Hydrocarbons + BTX		---	---	---

Carbon range refers to volatile fuel hydrocarbons reported as gasoline which is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

Sim D. Lessley, Ph.D., Laboratory Director

# CHM HILL CHAIN OF CUSTODY RECORD

PROJECT NUMBER SF027289, AD.FW	PROJECT NAME Del Monte Plant 35 Tanks	ANALYSES REQUESTED		FOR LAB USE ONLY
CLIENT NAME Cham Hill		NUMBER OF CONTAINERS 3550 # TPT as gasoline - 30 30 # BTX (50 30) # 8010 8270 HOLD	LAB # _____	
REPORT TO: Susan Colman	COPY TO:		PROJ # _____	
REQUESTED COMPLETION DATE	LABORATORY Brown & Caldwell		ACK _____ VERIFIED _____	
				DATE INVOICED _____
				NO. OF SAMPLES _____ pg _____ of _____
				DISPOSITION: D R _____ DATE _____

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	field	ANALYSES REQUESTED	REMARKS
1	3/22	11:15	✓	✓	S2-G1*	high	X	8903551 normal TAT - hold
2		12:00	✓	✓	S2-S4	low		
3		12:05	✓	✓	S2-S2	low		
4		13:10	✓	✓	S2-G2	high		
5		13:25	✓	✓	S2-G3	~20 ppm		24 hr RUSH 89035501
6	✓	13:30	✓	✓	S2-G4	~20 ppm		24 hr RUSH ✓ -2
7	✓	13:45	✓	✓	S2-G5	(high)		24 hr RUSH ✓ -3

SAMPLED BY AND TITLE (SIGNATURE) 1 Susan Colman	DATE/TIME 3/22/89	RELINQUISHED BY (SIGNATURE) 2 Susan Colman	DATE/TIME 3/22/89 14:35	RECEIVED BY: (SIGNATURE) 3 _____	DATE/TIME _____
RELINQUISHED BY: (SIGNATURE) 4 _____	DATE/TIME _____	RECEIVED BY: (SIGNATURE) 5 _____	DATE/TIME _____	RELINQUISHED BY: (SIGNATURE) 6 _____	DATE/TIME _____
REMARKS		SAMPLING PROGRAM SDWA <input type="checkbox"/> NPDES <input type="checkbox"/> OTHER (SPECIFY) _____		SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input type="checkbox"/> HAND OTHER _____	
				AIR BUS BILL NUMBER 7 Jerry Blake 03/22/89 14:35	

RECEIVED

MAY 16 1989



BROWN AND CALDWELL LABORATORIES SAN FRANCISCO ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-05-143

Received: 04 MAY 89  
Reported: 08 MAY 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SF027289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
05-143-1	AS-1, Aerated Soil From Gas Excavation	04 MAY 89	
05-143-2	GT-1, Well Cuttings From Gas Tank	04 MAY 89	
PARAMETER		05-143-1	05-143-2
TPH - Volatile Hydrocarbons			
Date Analyzed		05.04.89	05.04.89
Dilution Factor, Times		1	1
C4 to C12 Hydrocarbons, mg/kg		18	52
Other TPH - Volatile Hydrocarbons		---	---

CHAIN OF CUSTODY RECORD

BC Log Number

E81-05-11

Client name <b>CH2M HILL</b>			Project or PO# <b>SF027289.A0.GW</b>		Analyses required  <i>TDH - qualitative SO<sub>2</sub></i> <i>TDH - qualitative SO<sub>4</sub></i> <i>SO<sub>10</sub></i> <i>NH<sub>3</sub></i>  <i>Hazardous sample Special handling required</i>							
Address <b>6425 Christie Ave</b>			Phone # <b>652-2426</b>									
City, State, Zip <b>Emeryville CA</b>		Report attention <b>Susan Colman</b>										
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Number of containers					Remarks		
				Sample description								
AS-1	3/4/89	0800	SO	Aerated soil from gas excavation	1	X						fishy Bush (TB)
GT-1	5/4/89	0820	SO	well cuttings from gas tank	1	X						
ST-1	↓	0830	SO	well cuttings from solvent tanks	1		X	X				

Signature	Print Name	Company	Date	Time
Relinquished by <i>Susan Colman</i>	Susan Colman	CH2M HILL	5/4/89	9:15
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory <i>Tony Blake</i>	Tony Blake	BCAL	5/4/89	09:15

**BROWN AND CALDWELL LABORATORIES**  
 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300  
 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553  
 1200 Pacific Avenue, Anaheim, CA 92605

Note:  
 Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed of at client expense.

\*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil C—Carbon PE—Petroleum



BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

RECEIVED

MAY 25 1989

CH2M-HILL  
SAN FRANCISCO

LOG NO: E89-05-594

Received: 19 MAY 89  
Reported: 23 MAY 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

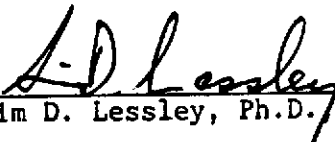
Project: SF027289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-594-1	DM-MW7S-589	19 MAY 89
PARAMETER	05-594-1	
TPH - Modified 8015		
Date Analyzed	05.19.89	
Dilution Factor, Times	1	
Total Fuel Hydrocarbons, mg/kg	<10	
Other TPH - Modified 8015	---	

Verbal results were reported to you on 05.23.89.  
TB 05.23.89

  
Sim D. Lessley, Ph.D. Laboratory Director

# CHM HILL CHAIN OF CUSTODY RECORD

PROJECT NUMBER: SFO27289.A00W PROJECT NAME: Plant 35 Groundwater

CLIENT NAME: Del Monte

REPORT TO: Sue Colman/SFO COPY TO: Jeff Heglie/SFO

REQUESTED COMPLETION DATE: See remarks. LABORATORY: BIC/Emeryville

ANALYSES REQUESTED

NUMBER OF CONTAINERS: 1

TPH-Gas - Solvent Extr. X

EPA8010=Hal.VOCs X

FOR LAB USE ONLY

LAB # \_\_\_\_\_

PROJ # \_\_\_\_\_

ACK \_\_\_\_\_ VERIFIED \_\_\_\_\_

DATE INVOICED \_\_\_\_\_

NO. OF SAMPLES \_\_\_\_\_ pg \_\_\_\_\_ of \_\_\_\_\_

DISPOSITION: D R \_\_\_\_\_ DATE \_\_\_\_\_

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	TPH-Gas - Solvent Extr.	EPA8010=Hal.VOCs
1	0519	13:00	X		DM-MW75-589 Soil	1	X	
2	0519	13:03	X		DM-MW85-589 Soil	1		X

REMARKS

Analyze ASAP-24-48hr Normal Turn-Around Time

NOTE Homogenize Samples Mix contents of each jar (separately) before extraction.

SAMPLED BY AND TITLE (SIGNATURE): <i>JM Heglie Hydrogeologist</i>	DATE/TIME: 051989 13:15	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY: (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY: (SIGNATURE):	DATE/TIME:	RECEIVED BY LAB: (SIGNATURE): <i>Wm Bellon</i>	DATE/TIME: 5/19/89 1354

REMARKS: LOG # 8905590 NORMAL 8905594 RUSH

SAMPLING PROGRAM: SDWA  NPDES  RCRA  OTHER (SPECIFY) \_\_\_\_\_

SAMPLE SHIPPED VIA:  UPS  BUS  FED-EX  HAND OTHER \_\_\_\_\_

AIR BUS BILL NUMBER: \_\_\_\_\_



**BROWN AND CALDWELL LABORATORIES**

**ANALYTICAL REPORT**

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: EB9-05-732

Received: 25 MAY 89

Reported: 31 MAY 89

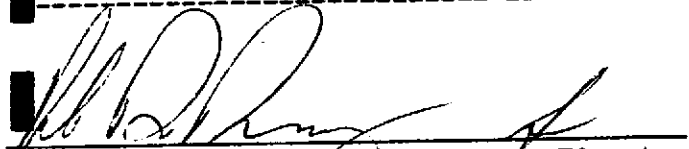
Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SFO27289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
05-732-1	AS-2	25 MAY 89	
05-732-2	S-2	25 MAY 89	
PARAMETER		05-732-1	05-732-2
Lead, mg/kg		140	36
Nitric Acid Digestion, Date		05.25.89	05.25.89

  
 \_\_\_\_\_  
 Sim D. Lessley, Ph.D., Laboratory Director

RECEIVED

JUN 14 1989



BROWN AND CALDWELL LABORATORIES

CH2M-HILL  
SAN FRANCISCO ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-06-004

Received: 25 MAY 89  
Reported: 08 JUN 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

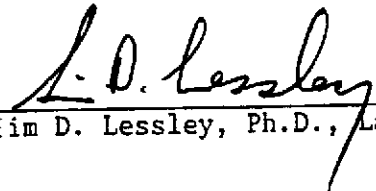
Project: SFO27289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, CALIF WASTE EXTRACT, WASTE SAMP	DATE SAMPLED
C6-004-1	AS-2	25 MAY 89
C6-004-2	S-2	25 MAY 89
PARAMETER	06-004-1	06-004-2
Lead, mg/L	3.8	0.5
CAM WET Extraction, Date	06.05.89	06.05.89

Results were transmitted by facsimile to you on 06.08.89.  
TB 06.08.89

  
\_\_\_\_\_  
Sim D. Lessley, Ph.D., Laboratory Director



Client name <b>CHAM HILL</b>			Project or PO# <b>SFO27289 AD. GW</b>		Analyses required Lead Hazardous sample Special handling required							
Address <b>6425 Christie Ave</b>			Phone # <b>652-2426</b>									
City, State, Zip <b>Emeryville CA 94608</b>		Report attention <b>Susan Colman</b>										
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Number of containers						Remarks	
				Sample description								
AS-2	5/25	11:47	SO	Aerated soil-gas excavation	1	X						Rush-24hr
S-2	5/25	11:49	SO	Aerated soil-gas well cutting	1	X						↓

Signature	Print Name	Company	Date	Time
Relinquished by <i>Susan Colman</i>	Susan Colman	CHAM HILL	5/25	12:01
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory <i>Ulysses Bellon</i>	Ulysses Bellon	BCAL	5/25	12:01

**BROWN AND CALDWELL LABORATORIES**

- 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300
- 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553
- 1200 Pacific Avenue, Anaheim, CA 92805

Note:

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

\*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil OT—Other PE—Petroleum



CH2M HILL ENVIRONMENTAL LABORATORY  
 221B RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SF027035.AD.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER-DMEMR  
 DATE OF SAMPLE: 12-20-88

REFERENCE NUMBER: 21905  
 PAGE 1 OF 9  
 DATE: 1-20-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-21-88

TEST	GW-1	GW-2	GW-3	GW-8	UNITS	DETECT LIMIT	DATE ANALYZED	METHOD NUMBER
CHLORINE	<0.1	<0.1	<0.1	<0.1	mg/l	0.1	12-21-88	330.5
CHLORIDE	24.8	30.3	29.5	27.6	mg/l	1	12-23-88	325.3
ELECTRICAL								
CONDUCTIVITY	1010	886	972	1010	umhos/cm	10	1-3-89	120.1
pH	6.79	6.76	6.88	6.92	units	-	12-21-88	150.1
TOTAL DISSOLVED SOLIDS	532	516	610	647	mg/l	3	12-22-88	160.1

COMMENTS: mg/l = milligrams per liter

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

ANALYST: RLW APPROVED BY: LJ Jacoby



CH2M HILL ENVIRONMENTAL LABORATORY  
 2218 RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.AO.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-21-88

REFERENCE NUMBER: 21925  
 PAGE 1 OF 7  
 DATE: 1-17-89  
 PHONE:  
 SAMPLED BY: ALEX COATE  
 DATE RECEIVED: 12-21-88

TEST	DMEMR GW-4	DMEMR GW-5	UNITS	DETECT LIMIT	DATE ANALYZED	METHOD NUMBER
CHLORIDE	34.5	27.7	mg/l	1	12-23-88	325.3
pH	6.91	7.1	units	-	12-22-88	150.1
TOTAL DISSOLVED SOLIDS	570	668	mg/l	3	12-28-88	160.1
ELECTRICAL CONDUCTIVITY	849	1100	umhos/cm	10	1-3-89	120.1
CHLORINE	<0.1	<0.1	mg/l	0.1	12-22-88	330.5

COMMENTS: mg/l = milligrams per liter  
 cc: A. Coate/sfo  
 S. Coleman/SFO

The information shown on this sheet is test data only and  
 no analysis or interpretation is intended or implied.

ANALYST: RLW

APPROVED BY: L. J. Jacoby



CH2M HILL ENVIRONMENTAL LABORATORY  
 2218 RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE--EMERYVILLE  
 CH2M HILL/SFO  
 SF027035.A0.FW  
 ATTENTION: SUSAN COLEMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-6-88

REFERENCE NUMBER: 21759  
 PAGE 1 OF 4  
 DATE: 1-17-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88

TEST	DMEMRGW-6	UNITS	DETECT LIMIT	DATE ANALYZED	METHOD NUMBER
TOTAL FUEL HYDROCARBONS(GAS)	<1	PPM	1	12-20-88	DHSLUFT
TOTAL FUEL HYDROCARBONS(DIESEL)	<200	ug/l	200	12-28-88	CALUFT
CHLORINE	<0.1	mg/l	0.1	12-8-88	330.5
CHLORIDE	20.6	mg/l	1	12-15-88	325.3
pH	7.04	units	-	12-8-88	150.1
ELECTRICAL CONDUCTIVITY	683	umhos/cm	10	12-19-88	120.1
TOTAL DISSOLVED SOLIDS	453	mg/l	3	12-9-88	160.1

COMMENTS: ug/l = micrograms per liter  
 mg/l = milligrams per liter

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

ANALYST: RLW

APPROVED BY: [Signature]

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.AD.FW  
 ATTENTION: SUSAN COLEMAN  
 SAMPLE DESCRIPTION: WATER-DMEMRGW-6  
 DATE OF SAMPLE: 12-6-88

REFERENCE NUMBER: 21759  
 PAGE 2 OF 4  
 DATE: 1-17-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88  
 DATE ANALYZED: 12-16-88

VOLATILE TOXIC  
 ORGANIC POLLUTANTS  
 EPA METHOD: 624

CONSTITUENT	RESULT	DETECT LIMIT	CONSTITUENT	RESULT	DETECT LIMIT
Chloromethane	ND	5.0	Hexane	10	5
Bromomethane	ND	5.0	Methyl-pentene	35	5
Vinyl chloride	ND	5.0	Cyclohexane	15	5
Chloroethane	ND	5.0	Methyl-cyclohexane	30	5
Methylene chloride	ND	2.0	2-Butanone	6.1	5
Trichlorofluoromethane	ND	2.0	2-Hexanone	5.3	5
1,1-Dichloroethene	ND	2.0			
1,1-Dichloroethane	ND	2.0			
1,2-Dichloroethene (total)	ND	1.0			
Chloroform	ND	1.0			
1,2-Dichloroethane	8.8	1.0			
1,1,1-Trichloroethane	ND	1.0			
Carbon tetrachloride	ND	1.0			
Bromodichloromethane	ND	1.0			
1,2-Dichloropropane	ND	2.0			
trans-1,3-Dichloropropene	ND	2.0			
Trichloroethene	1.6	1.0			
Dibromochloromethane	ND	1.0			
1,1,2-Trichloroethane	ND	1.0			
Benzene	ND	1.0			
cis-1,3-Dichloropropene	ND	2.0			
2-Chloroethylvinyl ether	ND	5.0			
Bromoform	ND	2.0			
Tetrachloroethene	ND	1.0			
1,1,2,2-Tetrachloroethane	ND	2.0			
Toluene	*	2.0			
Chlorobenzene	ND	1.0			
Ethyl benzene	ND	1.0			
Styrene	ND	1.0			
Xylenes(Total)	ND	3.0			
1,2-Dichlorobenzene	ND	1.0			
1,3-Dichlorobenzene	ND	1.0			
1,4-Dichlorobenzene	ND	1.0			

COMMENTS: Results are in micrograms per kilogram. ND = none detected.

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

APPROVED BY: Bernard J. Tyson



CH2M HILL ENVIRONMENTAL LABORATORY  
 2218 RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.BO.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-6-88

REFERENCE NUMBER: 21759  
 PAGE 3 OF 4  
 DATE: 1-20-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88  
 DATE EXTRACTED: 12-13-88

TEST METHODS: EPA-625/8270

BLANK DETECT  
 RB-12-13 DMEMRGW-6 LIMIT

ACID COMPOUNDS

	BLANK	DETECT	
	RB-12-13	DMEMRGW-6	LIMIT
Phenol	ND	ND	1
2-chlorophenol	ND	ND	1
2-methyl phenol	ND	ND	1
4-methyl phenol	ND	ND	1
2-nitrophenol	ND	ND	1
2,4-dimethylphenol	ND	ND	1
2,4-dichlorophenol	ND	ND	1
4-chloro-3-methylphenol	ND	ND	1
2,4,5-trichlorophenol	ND	ND	1
2,4,6-trichlorophenol	ND	ND	1
2,4-dinitrophenol	ND	ND	5
4-nitrophenol	ND	ND	5
2-methyl-4,6-dinitrophenol	ND	ND	1
pentachlorophenol	ND	ND	1
BASE/NEUTRAL COMPOUNDS			
N-Nitrosodimethylamine	ND	ND	5
bis(2-Chloroethyl)ether	ND	ND	1
1,3-Dichlorobenzene	ND	ND	1
1,4-Dichlorobenzene	ND	ND	1
1,2-Dichlorobenzene	ND	ND	1
bis(2-Chloroisopropyl)ether	ND	ND	1
N-Nitroso-di-n-propylamine	ND	ND	1
Hexachloroethane	ND	ND	1
Nitrobenzene	ND	ND	1
Isophorone	ND	ND	1
bis(2-Chloroethoxy)methane	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	1
Naphthalene	ND	ND	1
Hexachlorobutadiene	ND	ND	1
2-Chloronaphthalene	ND	ND	1
2-Methyl Napthalene	ND	ND	1

COMMENTS: Results are in micrograms per liter.  
 ND=Not detected at or above limit of detection.  
 The information shown on this sheet is test data only and  
 no analysis or interpretation is intended or implied.

APPROVED BY: *Deepest J. Tyson*



CH2M HILL ENVIRONMENTAL LABORATORY  
 2218 RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.AD.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-6-88

REFERENCE NUMBER: 21759  
 PAGE 4 OF 4  
 DATE: 1-20-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88  
 DATE EXTRACTED: 12-13-88

TEST METHODS: EPA-625/8270

BASE-NEUTRAL EXTRACTABLES CONT.	BLANK RB-12-13	DMEMR GW-6	DETECT LIMIT
4-chloroaniline	ND	ND	5
2-nitroaniline	ND	ND	5
3-nitroaniline	ND	ND	5
4-nitroaniline	ND	ND	5
hexachlorocyclopentadiene	ND	ND	1
dimethyl phthalate	ND	ND	10
acenaphthylene	ND	ND	1
acenaphthene	ND	ND	1
2,4-dinitrotoluene	ND	ND	1
2,6-dinitrotoluene	ND	ND	1
diethyl phthalate	ND	ND	1
4-chlorophenylphenylether	ND	ND	1
fluorene	ND	ND	1
N-nitrosodiphenylamine	ND	ND	1
4-bromophenylphenylether	ND	ND	1
hexachlorobenzene	ND	ND	1
Phenanthrene	ND	ND	1
Anthracene	ND	ND	1
Di-N-Butyl phthalate	ND	ND	1
Fluorethene	ND	ND	1
Benzidene	ND	ND	30
pyrene	ND	ND	1
benzylbutylphthalate	ND	ND	1
3,3-Dichlorobenzidine	ND	ND	40
Benz(a)anthracene	ND	ND	1
bis(2-Ethylhexyl)phthalate	ND	ND	10
chrysene	ND	ND	2
Di-n-octyl phthalate	ND	ND	1
Benzo(b)fluoranthene	ND	ND	2
Benzo(k)fluoranthene	ND	ND	1
Benzo(a)pyrene	ND	ND	1
Indeno(1,2,3-cd)pyrene	ND	ND	1
Dibenz(a,h)anthracene	ND	ND	1
Benzo(g,h,i)perylene	ND	ND	1
Dibenzofuran	ND	ND	1
Benzoic Acid	ND	ND	50
Benzyl Alcohol	ND	ND	1

DATE ANALYZED: 1-18-89 1-19-89

COMMENTS: Results are in micrograms per liter.

ND = Not detected at or above limit of detection.

The information shown on this sheet is test data only and  
 no analysis or interpretation is intended or implied.

APPROVED BY: Sandi J. Tyson



CH2M HILL ENVIRONMENTAL LABORATORY  
 2218 RAILROAD AVENUE  
 REDDING, CA 96001 916-243-5831

REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.B0.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-6-88

REFERENCE NUMBER: 21759  
 PAGE 3A OF 4  
 DATE: 1-20-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88  
 DATE EXTRACTED: 12-13-88

TEST METHODS: EPA-625/8270

A M E N D E D R E P O R T

CONCENTRATION\*

	DMEMRGW-6 (ug/l)	SPIKE* ADDED (ug/l)	ug/l SPIKE RECOVERED	% RECOVERY
ACID COMPOUNDS				
Phenol	ND	20	17	85
2-chlorophenol	ND	20	17	85
2-methyl phenol	ND	20	7	35
4-methyl phenol	ND	20	6	30
2-nitrophenol	ND	20	21	105
2,4-dimethylphenol	ND	20	3	15
2,4-dichlorophenol	ND	20	15	75
4-chloro-3-methylphenol	ND	20	11	55
2,4,5-trichlorophenol	ND	20	15	75
2,4,6-trichlorophenol	ND	20	16	80
2,4-dinitrophenol	ND	20	3	15
4-nitrophenol	ND	20	6	30
2-methyl-4,6-dinitrophenol	ND	20	10	50
pentachlorophenol	ND	20	8	40
BASE/NEUTRAL COMPOUNDS				
N-Nitrosodimethylamine	ND	20	14	70
bis(2-Chloroethyl)ether	ND	20	11	55
1,3-Dichlorobenzene	ND	20	18	90
1,4-Dichlorobenzene	ND	20	18	90
1,2-Dichlorobenzene	ND	20	19	95
bis(2-Chloroisopropyl)ether	ND	20	21	105
N-Nitroso-di-n-propylamine	ND	20	18	90
Hexachloroethane	ND	20	17	85
Nitrobenzene	ND	20	23	115
Isophorone	ND	20	26	130
bis(2-Chloroethoxy)methane	ND	20	26	130
1,2,4-Trichlorobenzene	ND	20	20	100
Naphthalene	ND	20	22	110
Hexachlorobutadiene	ND	20	20	100
2-Chloronaphthalene	ND	20	22	110
2-Methyl Naphthalene	ND	20	22	110

COMMENTS: Results are in micrograms per liter.

ND = Not detected

\* Incorrect headings on original report 1-24-89.

The information shown on this sheet is test data only and no analysis or interpretation is intended or implied.

APPROVED BY: Bernice J. Tyson



REPORT TO: DEL MONTE-EMERYVILLE  
 CH2M HILL/SFO  
 SFO27035.AO.FW  
 ATTENTION: SUSAN COLMAN  
 SAMPLE DESCRIPTION: WATER  
 DATE OF SAMPLE: 12-6-88  
 TEST METHODS: EPA-625/8270

REFERENCE NUMBER: 21759  
 PAGE 4A OF 4  
 DATE: 1-20-89  
 PHONE:  
 SAMPLED BY: SANDI MADSON  
 DATE RECEIVED: 12-7-88  
 DATE EXTRACTED: 12-13-88

A M E N D E D R E P O R T  
 CONCENTRATION\*

BASE-NEUTRAL EXTRACTABLES CONT.	DMEMRGW-6 (ug/l)	SPIKE* ADDED (ug/l)	ug/l SPIKE RECOVERED	% RECOVERY
4-chloroaniline	ND	20	12	60
2-nitroaniline	ND	20	16	80
3-nitroaniline	ND	20	10	50
4-nitroaniline	ND	20	6	30
hexachlorocyclopentadiene	ND	20	7	35
dimethyl phthalate	ND	20	6	30
acenaphthylene	ND	20	23	115
acenaphthene	ND	20	22	110
2,4-dinitrotoluene	ND	20	14	70
2,6-dinitrotoluene	ND	20	18	90
diethyl phthalate	ND	20	15	75
4-chlorophenylphenylether	ND	20	20	100
fluorene	ND	20	21	105
N-nitrosodiphenylamine	ND	20	18	90
4-bromophenylphenylether	ND	20	21	105
hexachlorobenzene	ND	20	24	120
Phenanthrene	ND	20	24	120
Anthracene	ND	20	22	110
Di-N-Butyl phthalate	ND	20	26	130
Fluorethene	ND	20	22	110
Benzidene	ND	20	40	-
pyrene	ND	20	25	125
benzylbutylphthalate	ND	20	23	115
3,3-Dichlorobenzidine	ND	20	10	50
Benz(a)anthracene	ND	20	22	110
bis(2-Ethylhexyl)phthalate	ND	20	30	150
chrysene	ND	20	22	110
Di-n-octyl phthalate	ND	20	15	75
Benzo(b)fluoranthene	ND	20	13	65
Benzo(k)fluoranthene	ND	20	17	85
Benzo(a)pyrene	ND	20	13	65
Indeno(1,2,3-cd)pyrene	ND	20	12	60
Dibenz(a,h)anthracene	ND	20	10	50
Benzo(g,h,i)perylene	ND	20	12	60
Dibenzofuran	ND	20	20	100
Benzoic Acid	ND	20	6	30
Benzyl Alcohol	ND	20	27	135

COMMENTS: Results are in micrograms per liter

ND = Not detected \*Incorrect headings on original report 1/24/89.

The information shown on this sheet is test data only and  
 no analysis or interpretation is intended or implied.

APPROVED BY: Sandra J. Tyson



# CHAIN OF CUSTODY RECORD

PROJECT NUMBER <b>PC27035A/W</b>			PROJECT NAME <b>DEL MONTE LNR</b>			ANALYSES REQUESTED						FOR LAB USE ONLY	
CLIENT NAME <b>DEL MONTE</b>						NUMBER OF CONTAINERS	624 (10m)	625 (2.5L)	TFH (9) (40m)	TFH (2) (2.5L)	CL2 (10m)	CL, EC, PH, TDS	LAB # _____
REPORT TO: <b>D. WALLACE / SFO</b>			COPY TO: <b>A. DATE &amp; SCHEMAN</b>										PROJ # _____
REQUESTED COMPLETION DATE <b>1/21/99</b>			LABORATORY <b>CH2MHILL</b>										ACK _____ VERIFIED _____
STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION							DISPOSITION: D R _____ DATE _____	
1	12/20	9-		X	DMENR 6W-1	103	2	2	1	1			
2	12/20	10-		X	DMENR 6W-2	103	2	2	1	1			
REMARKS													
SAMPLED BY AND TITLE (SIGNATURE) <i>[Signature]</i>			DATE/TIME <b>12/20/99</b>	RELINQUISHED BY (SIGNATURE) <b>2</b>			DATE/TIME	RECEIVED BY: (SIGNATURE) <b>3</b>			DATE/TIME		
RELINQUISHED BY: (SIGNATURE) <b>4</b>			DATE/TIME	RECEIVED BY: (SIGNATURE) <b>5</b>			DATE/TIME	RELINQUISHED BY: (SIGNATURE) <b>6</b>			DATE/TIME	RECEIVED BY LAB: (SIGNATURE) <b>7</b>	
REMARKS _____				SAMPLING PROGRAM SDWA <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ (SPECIFY)				SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input type="checkbox"/> HAND OTHER _____			AIR BUS BILL NUMBER <b>659 465 207 7</b>		

# CHAIN OF CUSTODY RECORD

**PROJECT NUMBER**  
SF027035A/w DEL MONTE EWR

**PROJECT NAME**  
DEL MONTE EWR

**CLIENT NAME**  
DEL MONTE

**REPORT TO:** D. WARRAGE / KFO  
**COPY TO:** A. COATE / KFO S. COLEMAN / KFO

**REQUESTED COMPLETION DATE**  
1/21/89

**LABORATORY**  
CH2M HILL

NUMBER OF CONTAINERS	ANALYSES REQUESTED						
	624 (40ml)	625 (2.5L)	TFH (g) (40ml)	TFH (Cd) (2.5L)	Cl <sub>2</sub> (500ml)	Cl, FC, TDS, PH	
10	3	2	2	1	1	1	
10	3	2	2	1	1	1	

**FOR LAB USE ONLY**

LAB # \_\_\_\_\_

PROJ # \_\_\_\_\_

ACK \_\_\_\_\_ VERIFIED \_\_\_\_\_

DATE INVOICED \_\_\_\_\_

NO. OF SAMPLES \_\_\_\_\_ pg \_\_\_\_\_ of \_\_\_\_\_

DISPOSITION: D R \_\_\_\_\_ DATE \_\_\_\_\_

REMARKS \_\_\_\_\_

STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION
3	12/20	11		X	DM EWR 6W-3
R	12/20	12		X	DM EWR 6W-8

<b>SAMPLED BY AND TITLE (SIGNATURE)</b> A. Coate	<b>DATE/TIME</b> 12/20/82	<b>RELINQUISHED BY (SIGNATURE)</b> 2	<b>DATE/TIME</b>	<b>RECEIVED BY: (SIGNATURE)</b> 3	<b>DATE/TIME</b>
<b>RELINQUISHED BY: (SIGNATURE)</b> 4	<b>DATE/TIME</b>	<b>RECEIVED BY: (SIGNATURE)</b> 5	<b>DATE/TIME</b>	<b>RELINQUISHED BY: (SIGNATURE)</b> 6	<b>DATE/TIME</b>
<b>RECEIVED BY LAB: (SIGNATURE)</b> 7	<b>DATE/TIME</b>				

**REMARKS** \_\_\_\_\_

**SAMPLING PROGRAM**  
 SDWA     NPDES     RCRA     OTHER \_\_\_\_\_ (SPECIFY)

**SAMPLE SHIPPED VIA**  
 UPS     BUS     FED-EX  
 HAND OTHER \_\_\_\_\_

**AIR BUS BILL NUMBER**  
657 415 207

OF CUSTODY RECORD

NUMBER SFO 27035. AC.FIN		PROJECT NAME DELMONTE - FAIRVIEWVILLE			ANALYSES REQUESTED							FOR LAB USE ONLY	
CLIENT NAME DELMONTE					NUMBER OF CONTAINERS	CHLORINE 5-umol	PH, TDS, EC, PL 5-umol	67d	675	2.5L	4umol	2.5L	LAB # _____
REPORT TO: D. WALLACE / SFO		COPY TO: A. COATE / SFO S. GILMAN / SFO											PROJ # _____
REQUESTED COMPLETION DATE 1/21/88		LABORATORY CHATHILL											ACK _____ VERIFIED _____
STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION							DATE INVOICED _____	
4	12/14	3 <sup>30</sup>		X	DNEMR EW-4							NO. OF SAMPLES _____ pg _____ of _____	
5	12/14	12 <sup>15</sup>		X	DNEMR EW-5							DISPOSITION: D R _____ DATE _____	
SAMPLED BY AND TITLE (SIGNATURE) [Signature]					DATE/TIME 12/21 3 <sup>30</sup>	RELINQUISHED BY (SIGNATURE) [Signature]			DATE/TIME 12/21 3 <sup>30</sup>	RECEIVED BY: (SIGNATURE) 3		DATE/TIME	
RELINQUISHED BY: (SIGNATURE) 4		DATE/TIME	RECEIVED BY: (SIGNATURE) 5		DATE/TIME	RELINQUISHED BY: (SIGNATURE) 6		DATE/TIME	RECEIVED BY LAB: (SIGNATURE) 7		DATE/TIME		
REMARKS _____					SAMPLING PROGRAM SDWA <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ (SPECIFY)			SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input type="checkbox"/> HAND OTHER _____		AIR BUS BILL NUMBER [Number]			



1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-05-416

Received: 12 MAY 89

Reported: 31 MAY 89

Ms. Susan Colman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Project: SF027289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED		
05-416-1	DM-MW6-589	12 MAY 89		
05-416-2	DM-MW7-589	12 MAY 89		
05-416-3	DM-MW8-589	12 MAY 89		
PARAMETER		05-416-1	05-416-2	05-416-3
TPH-Volatile Hydrocarbons/BTEX				
Date Analyzed		05.15.89	05.15.89	---
Dilution Factor, Times		1	1	---
Benzene, ug/L		<0.3	49	---
Ethylbenzene, ug/L		<0.3	4.5	---
Toluene, ug/L		<0.3	1.6	---
Total Xylene Isomers, ug/L		11	5.9	---
C4 to C12 Hydrocarbons, ug/L		910	1000	---
Other TPH-Volatile Hydrocarbons		---	---	---

# CH2MHILL CHAIN OF CUSTODY RECORD

LOG # 890416

PROJECT NUMBER		PROJECT NAME		ANALYSES REQUESTED										FOR LAB USE ONLY						
SFO27289.AQW		Del Monte Plant 35												LAB # _____						
CLIENT NAME														PROJ # _____						
Del Monte														ACK _____ VERIFIED _____						
REPORT TO		COPY TO:												DATE INVOICED _____						
Sue Colman		CH2MHILL												NO. OF SAMPLES _____ pg _____ of _____						
REQUESTED COMPLETION DATE		LABORATORY												DISPOSITION: D R _____ DATE _____						
STA NO	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	BTXE-EPA602	TPH-Gasoline	Halogenated VOCs-601	Phenol-EPA604										
MW-6	0512	13:58	X		DM-MW6-589	2	X	X			Standard Turn-Around									
MW-7	0512	15:20	X		DM-MW7-589	2	X	X			"									
MW-8	0512	16:00	X		DM-MW8-589	3			X	X	"									
						NOTE: HCl Preservative Added by Lab														
SAMPLED BY AND TITLE (SIGNATURE)			DATE/TIME		RELINQUISHED BY (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			DATE/TIME							
1 <i>[Signature]</i> Hydrogeologist			051289		1630					3										
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY LAB: (SIGNATURE)		DATE/TIME						
4				5				6 <i>[Signature]</i>		051289 1640		7 <i>[Signature]</i>		5/12/89 1640						
REMARKS					SAMPLING PROGRAM					SAMPLE SHIPPED VIA			AIR BUS BILL NUMBER							
					SDWA <input type="checkbox"/> NPDES <input type="checkbox"/> OTHER (SPECIFY) _____					<input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FED-EX <input checked="" type="checkbox"/> HAND OTHER _____										

RECEIVED

JUL 28 1989



BROWN AND CALDWELL LABORATORIES SAN FRANCISCO CH2M - HILL ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E89-07-137

Received: 11 JUL 89

Reported: 25 JUL 89

Ms. Susan Coleman  
CH2M HILL  
6425 Christie Street, Suite 500  
Emeryville, California 94608

Purchase Order: SFO 27289.A0.GW

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED	
07-137-1	MW-6	10 JUL 89	
07-137-2	MW-7	10 JUL 89	
PARAMETER		07-137-1	07-137-2
TPH-Volatile Hydrocarbons/BTEX		07.14.89	07.17.89
Date Analyzed		1	1
Dilution Factor, Times		<0.3	5.2
Benzene, ug/L		<0.3	<0.3
Ethylbenzene, ug/L		<0.3	0.6
Toluene, ug/L		6.0	5.6
Total Xylene Isomers, ug/L		210	500
C4 to C12 Hydrocarbons, ug/L		---	---
Other TPH-Volatile Hydrocarbons/BTEX		---	---

**CHAIN OF CUSTODY RECORD**

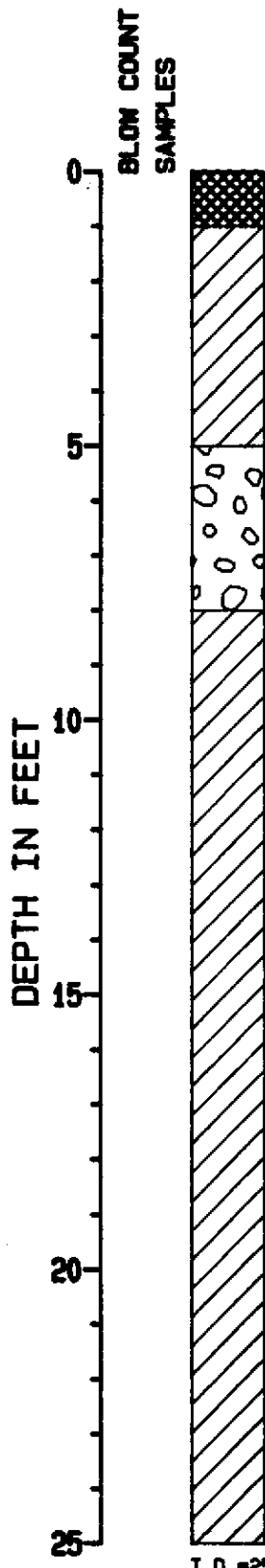
206 # 8907137

PROJECT NUMBER		PROJECT NAME				NUMBER OF CONTAINERS	BTX-E	TPH	Method Col-F	PH, Lead, SO <sub>4</sub> , TDS Nitrate (1032-0)	REMARKS
560 27289 AP CW		Del Monte									
LABORATORY											
Brown and Caldwell, Emeryville											
STA. NO.	DATE	TIME	COMP	GRAB	SAMPLE IDENTIFICATION						
1 MW-6	7/10/89	1220		X	MW-6 ✓	3	X	X		Didn't know if lab needed 2 VOAs, total or two for each analyte, so filled three VOAs (didn't have enough VOAs onsite for 6 or VOAs per sample for BTX-E and TPH)	
2 MW-7	7/10/89	1630		X	MW-7 ✓	3	X	X			
<del> </del>											
3 MW-8	7/10/89	1730		X	MW-8 ✓	2		X			
5 MW-9	7/10/89	1810		X	MW-9 ✓	4		X	X		
6 MW-10	7/10/89	1415		X	MW-10 ✓	4		X	X		
7 MW-11	7/10/89	1117		X	MW-11 ✓	4		X	X		
8 MW-13	7/10/89	1800		X	MW-13 ✓	2		X			

SAMPLED BY AND TITLE (SIGNATURE) Ken Z Hydrogeologist 05848		DATE/TIME 7/10/89 4:21 PM	RELINQUISHED BY: (SIGNATURE) Ken Z	DATE/TIME 7/10/89 7:49	RECEIVED BY: (SIGNATURE) D. H. ...
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME 7/11/89 7:50	RECEIVED BY LAB: (SIGNATURE) D. H. ...
REMARKS				SAMPLE SHIPPED VIA <input type="checkbox"/> UPS <input type="checkbox"/> BUS <input type="checkbox"/> FEDERAL EXPRESS	
				AIR BUS BILL NUMBER	



MONITORING WELL BORING LOG



**DESCRIPTION**

ASPHALT

LEAN CLAY, black, soft, possibly silty (bay mud) (CL)

WELL-GRADED GRAVEL WITH CLAY, 5-10 mm diameter, gray to brown, "pea gravel" backfill (GW-GC)

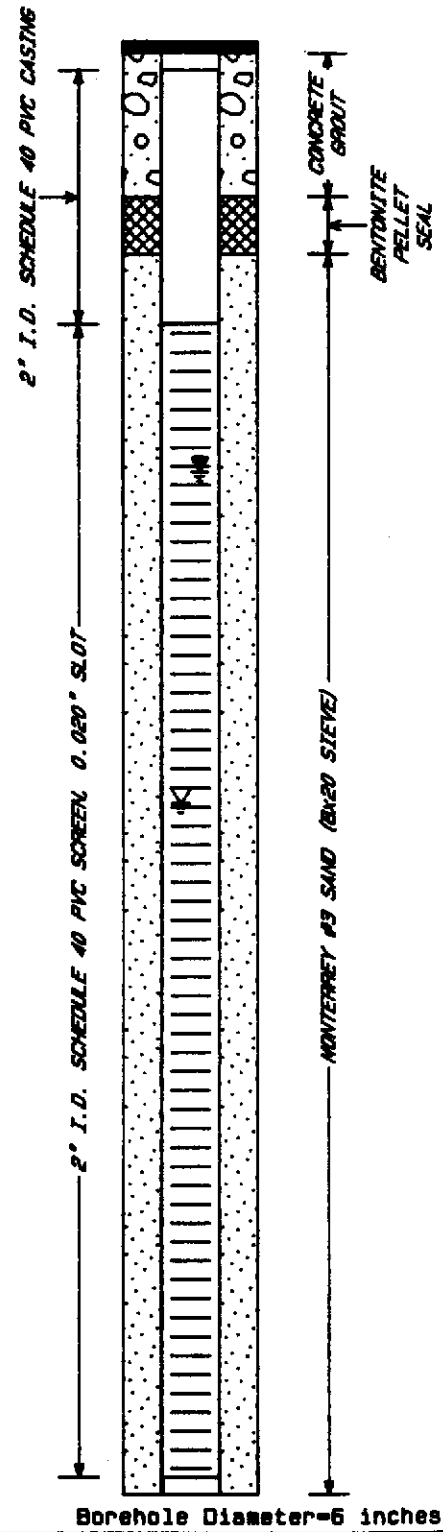
SILTY CLAY, green-gray, color may be from gasoline, gasoline odor evident (CL-ML)

Change to brown, moist

LEAN CLAY, brown and gray mottled, firm to stiff (CL)

T.D.=25.0'

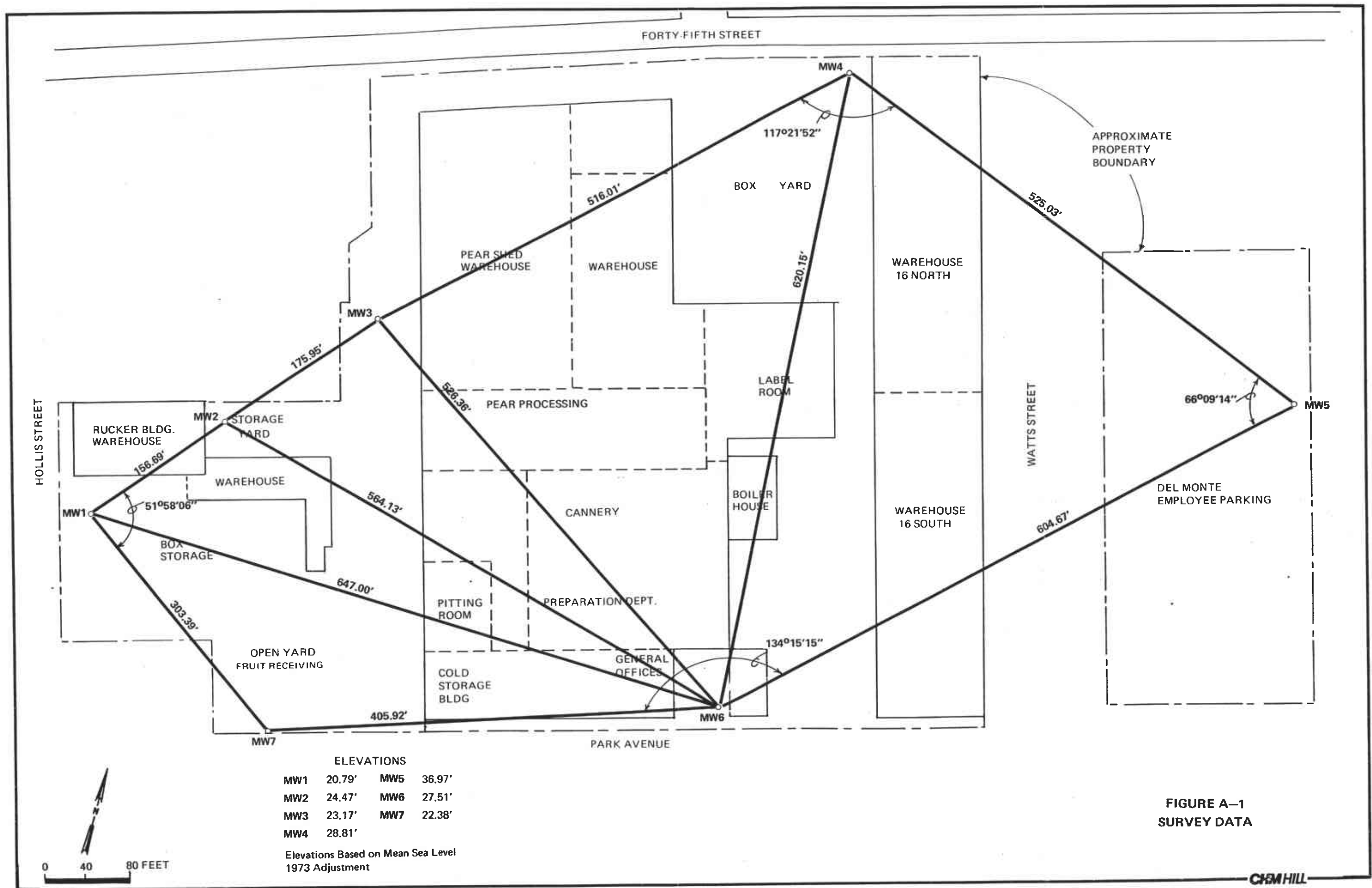
**WELL COMPLETION DETAIL**



▽ = Water level first encountered

▽ = Water level after development

**MW7**  
 Del Monte Emeryville Plant No. 35  
 Date Completed: 05/03/89  
 Top of casing elevation (MSL) = 22.38  
 SF027289.A0.6W



ELEVATIONS

MW1	20.79'	MW5	36.97'
MW2	24.47'	MW6	27.51'
MW3	23.17'	MW7	22.38'
MW4	28.81'		

Elevations Based on Mean Sea Level  
1973 Adjustment

FIGURE A-1  
SURVEY DATA



Please print or type. (Form designed for use on elite (12-pitch typewriter).)

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RELIEF CENTER 1-800-424-6802; WITHIN CALIFORNIA CALL 1-800-852-7650

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA1098113A11B8E00011	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address DEL MONTE CORP. 1250 PARK AVE EMERYVILLE CA 94608			A. State Manifest Document Number 88231251		B. State Generator's ID
4. Generator's Phone 415 420-7500			C. State Transporter's ID		D. Transporter's Phone
5. Transporter 1 Company Name H H SHIP SERVICE		8. US EPA ID Number CA1004771168		E. State Transporter's ID	
7. Transporter 2 Company Name <del>H H SHIP SERVICE</del>		9. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address H H SHIP SERVICE 220 CHINA BASIN SAN FRANCISCO, CA 94107			10. US EPA ID Number CA1004771168		G. State Facility's ID 543006
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. WASTE HAZARDOUS LIQUIDS OSM-E 001111/0006					
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 97% WATER 2% MUD 1% PETROLEUM PRODUCT (KINATE)			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information COLLECT					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name WALTER BERRIS		Signature 		Month Day Year 01 22 09	
Printed/Typed Name STEVE MESQUITE		Signature 		Month Day Year 01 22 09	
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 D  
To: P.O. Box 400, Sacramento, CA 95812-0400

Please print or type. (Form designed for use on *ette* (12-pitch typewriter).)

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

CA0001391V002171448

3. Generator's Name and Mailing Address

1250 PARK AVE FOLSOM CA 94608

A. State Manifest Document Number

88227448

B. State Generator's ID

4. Generator's Phone (415) 433-1100

5. Transporter 1 Company Name

6. US EPA ID Number

HIGH SHIP SERVICE CO CA00014721V168

C. State Transporter's ID

D. Transporter's Phone

(415) 543-4735

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

HIGH SHIP SERVICE CO  
 220 CHINA BASIN ST  
 SAN FRANCISCO CA 94107

G. State Facility's ID

H. Facility's Phone

(415) 543-4735

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

Waste No.

a. WASTE EMPTY GASOLINE TANK  
 FLAMMABLE LIQUID UN 1203

001 TP

100  
 16

State 5R  
 EPA/Other D001

b. WASTE EMPTY FUEL OIL TANKS  
 COMBUSTIBLE LIQUID NA 1993

004 TP

5  
 460

State 512  
 EPA/Other NA

J. Additional Descriptions for Materials Listed Above

EMPTY UNDERGROUND GASOLINE & FUEL OIL STORAGE TANKS WITH LESS THAN ONE GALLON RESIDUAL LIQUID IN EACH TANK

K. Handling Codes for Wastes Listed Above

a. b. c. d.

15. Special Handling Instructions and Additional Information

BOOTS & GLOVES

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: B. H. K. SHIH Signature: [Signature] Month Day Year: 1 13 12 19 89

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: KEVIN E. JOHNSON Signature: [Signature] Month Day Year: 03 22 89

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
 Printed/Typed Name: Signature: Month Day Year:

952-  
 ALL  
 INFORMATION  
 24-9  
 ER  
 JENSE  
 THE  
 ALL  
 EMERGENCY  
 CASE OF  
 TRANSPORTER  
 FACILITY

# KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388  
(805) 589-5220

No 15202

## NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

**GENERATOR** (Generator Must Complete)

1 Name Del Monte Plant No. 35  
 Field Address 1250 Park Ave  
 City, State, Zip Emeryville CA 94608  
 Phone 420-2517  
 Order Placed By \_\_\_\_\_  
 Signature of Authorized Agent [Signature]  
 Date 6/23/89  
 Title CONTROLLER

WASTE TO BE DISPOSED  
 Type NON-HAZARDOUS  
 2 Generating Location DEL MONTE 1250 PARK AVE, EMERYVILLE, CA.  
 Special Handling Instructions:  
 Gloves  Goggles  Other \_\_\_\_\_  
 Quantity 10 YARDS  
 3 DESIGNATED FACILITY  
 Name LIQUID WASTE MANAGEMENT, INC.  
 Address STAR ROUTE BOX 4  
 City, State, Zip MC KITTRICK, CA. 93251  
 Phone 805-762-7607

**TRANSPORTER** (Hauler Must Complete)

Name KERN BACKHOE SERVICE, INC.  
 Address P.O. BOX 5337  
 City, State, Zip BAKERSFIELD, CA. 93388  
 Phone 805-589-5220  
 Signature of Authorized Agent or Driver [Signature]  
MIKE ADAMS  
 Date 6-23-89

Ticket # 15103 Unit No. 196 1-  
 Pick Up Date 6-23-89 Time 8:00  AM  PM  
 NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only  
 REMARKS:  
paid by CH2M Hill  
Corporate Headquarters  
P.O. Box 428 Corvallis, OR 97331

**DISPOSAL FACILITY** (Facility Operator Must Complete)

Name LIQUID WASTE MANAGEMENT, INC.  
 Address STAR ROUTE BOX 4  
 City, State, Zip MC KITTRICK, CA. 93251  
 Phone 805-762-7607 / Disp. Ticket # 30073  
 Signature of Authorized Agent [Signature]  
 Date 6-23-89

Quantity Received \_\_\_\_\_ Date 6-23-89  
 AM  PM  
 Time \_\_\_\_\_  
 DISPOSAL METHOD:  Surface Impoundment  Injection  
 Landfill  Other \_\_\_\_\_  
 Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**  
 NOTE: It is not necessary to send copy to Dept. of Health Services. NO HAZARDOUS FEES SHOULD BE LEVIED