Report on Focused Soil Removal

East Parcel Del Monte Plant 35

Emeryville, California

Prepared for

Del Monte Foods

Prepared by

CH2M HILL

December 1994

BAE28830.P5

Engineers
Planners
Economists
Scientists

December 15, 1994

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Subject: Focused Soil Removal Report
East Parcel, Del Monte Plant 35, Emeryville, California

Enclosed is a copy of the Focused Soil Removal report for the East Parcel at Del Monte Plant 35 in Emeryville, California. The report documents the excavation and aeration of soil containing chlorinated hydrocarbons conducted in September 1994 and makes recommendations regarding future remediation at the property.

Please contact me if you have any questions about this submittal. I can be reached at (510) 251-2888, ext. 2189.

Sincerely,

CH2M HILL

Madeline Wall

Madeline Wall
Project Manager

cc: Dr. Ravi Arulanantham/ACDEH and RWQCB
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Section 1
Introduction

This report documents a focused soil removal action conducted on the East Parcel of Del Monte Plant 35 in Emeryville, California between September 6th and 9th, 1994. The work was conducted in accordance with the *Work Plan for Focused Soil Remediation, East Parcel, Del Monte Plant 35*, dated August 15, 1994 which was submitted to the Alameda County Department of Environmental Health (ACDEH) and the Regional Water Quality Control Board (RWQCB) (CH2M HILL, 1994d).

Between March and June 1994, Del Monte investigated the presence of chlorinated hydrocarbons in soil and groundwater on the East Parcel (see Figure 1-1). Results were reported in the *Supplemental Onsite Investigation Report for Del Monte Plant 35* (CH2M HILL, 1994b) and a technical memorandum from CH2M HILL to Del Monte dated August 12, 1994 (CH2M HILL, 1994c). (Both of these documents were submitted to the ACDEH and the RWQCB.) Results of the investigations indicated that groundwater beneath the main processing building and east of the boiler house and label room contained chlorinated hydrocarbons.

The purpose of the focused soil remediation was to remove a potential source of chlorinated hydrocarbons in groundwater. Del Monte had initially planned to conduct this activity along with other remediation activities after demolition of site buildings and other property improvements. To avoid delaying the potential source removal, Del Monte decided to excavate accessible soil containing chlorinated hydrocarbons before facility demolition.

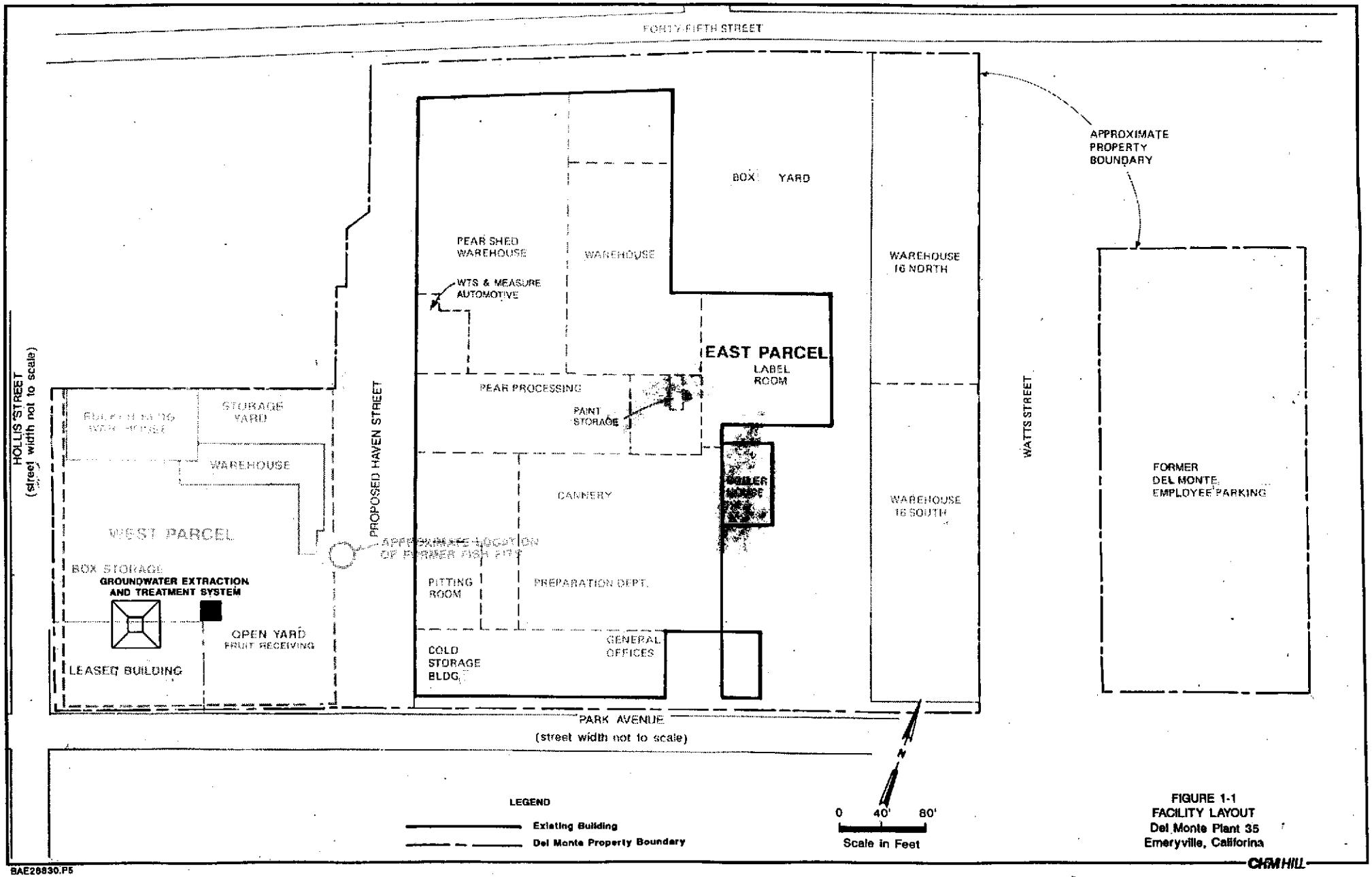

FIGURE 1-1
FACILITY LAYOUT
Del Monte Plant 35
Emeryville, California

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CH2M HILL

Section 2
Description of Activities

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Description of Activities

The focused soil removal involved excavating soil and spreading the excavated soil for aeration. The area targeted for soil removal is shown on Figure 2-1. Dimensions of the area are 60 feet by 30 feet. The target depth was approximately 10 feet below ground surface (bgs); however, a slope of about 1.5:1.0 (horizontal to vertical), maintained along the west side of the excavation to protect footings that support the label building, prevented excavation to the target depth in the western half of the pit.

Components of the removal action were as follows:

- Appropriate agencies were notified
- Surface pavement and railroad ties were removed in the excavation area and a soil aeration area was prepared
- Approximately 500 to 600 cubic yards of soil were excavated
- Soil samples were collected during excavation and compared against target cleanup levels presented in the work plan
- Excavated soil was transferred to the soil aeration area and spread to an average depth of 18 inches
- Aerating soil was sampled to determine initial chemical concentrations and re-sampled approximately 2 months later to assess effectiveness of aeration
- Samples of groundwater that entered the excavation pit were collected and analyzed to provide data for evaluating groundwater treatment alternatives
- Water was pumped from the pit to temporary storage tanks to allow assessment of the inflow rate of groundwater to the pit and collection of a sample of groundwater as it initially entered the pit
- Drums of soil generated during previous onsite and offsite investigations were emptied and added to aerating soil on the East Parcel or to stockpiled soil on the West Parcel

The excavation, soil stockpiling, and drum management were conducted by ICONCO. The pumping of water from the pit to temporary holding tanks was conducted by DECON Environmental. CH2M HILL provided field oversight, including sample collection. Sparger Technology, Inc. analyzed soil and groundwater samples onsite during the excavation. Chromalab, Inc. analyzed groundwater samples and stockpiled soil samples.

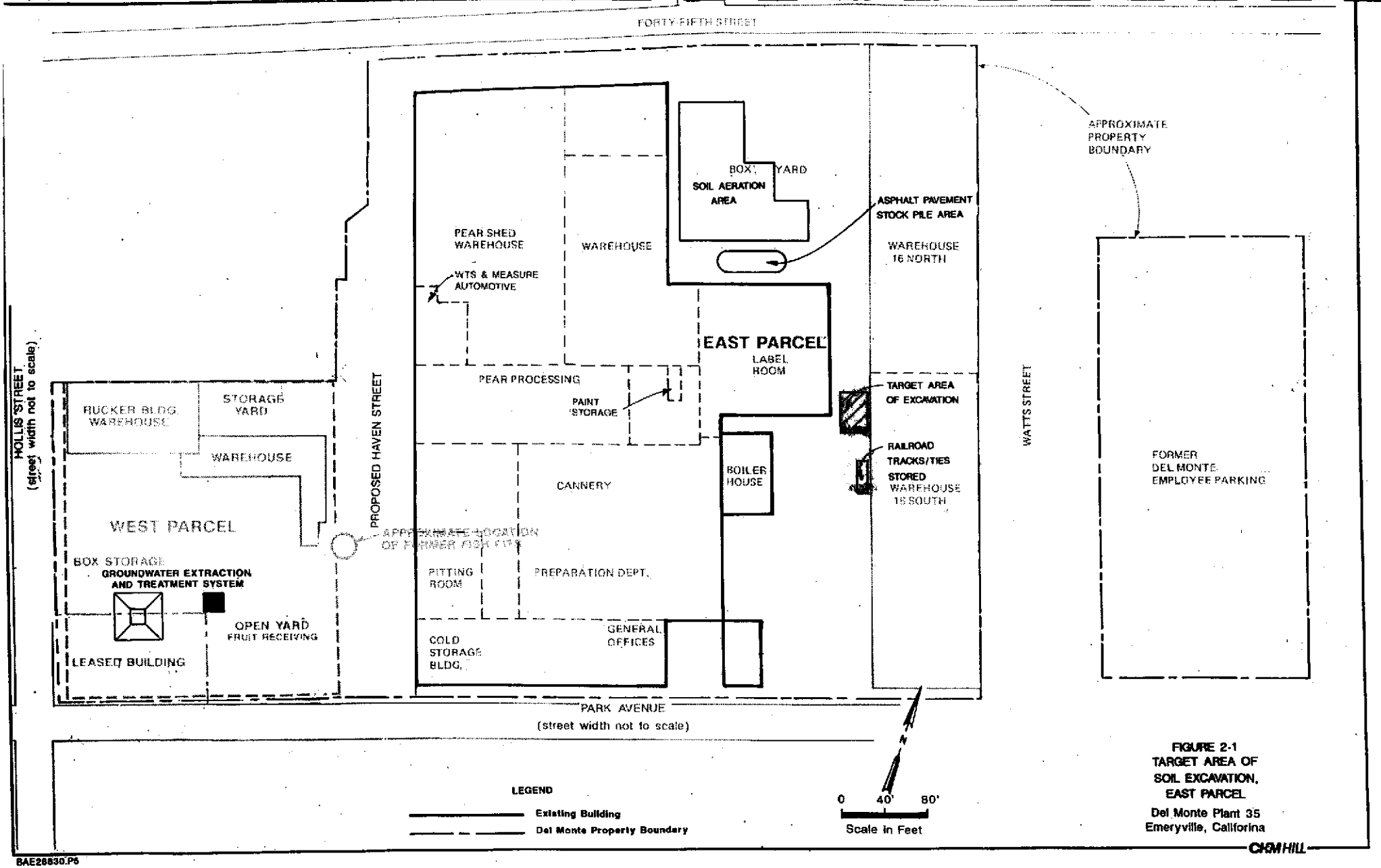

FIGURE 2-1
TARGET AREA OF SOIL EXCAVATION, EAST PARCEL
Del Monte Plant 35
Emeryville, California

CH2M HILL

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Details of the project activities, including analytical results and observations, are provided in the following subsections.

2.1 Agency Notification

As previously mentioned, a work plan for the focused soil removal was submitted to the ACDEH and RWQCB on August 15, 1994 for review and concurrence. Concurrence was obtained from representatives of both agencies. Telephone notification of the excavation schedule was made to both agencies the week before the work began.

The Bay Area Air Quality Management District (BAAQMD), Enforcement Division was also notified of the excavation and soil aeration plan. A copy of the notification letter and form are provided in Appendix A.

2.2 Surface Demolition and Aeration Area Preparation

On September 6 and 7, 1994, ICONCO removed asphalt pavement, railroad tracks and ties, and a portion of a utility trench that were within the targeted excavation area. Railroad tracks and ties and utility trench piping were placed on plastic south of the excavation area. Asphalt was placed on plastic in the former box yard area next to the soil aeration area. See Figure 2-1.

The soil aeration area was set up in the former box yard. Rolls of 10 mil plastic were placed on the pavement.

Soil Excavation

Soil was excavated with the goal of removing accessible soil containing chlorinated hydrocarbons at levels exceeding the following target action levels:

Table 2-1
Target Clean-Up Levels

Compound	Proposed Clean-Up Level (mg/kg)	EPA PRG for Residential at 10^{-6}* (mg/kg)
Bromodichloromethane	1	2.9
Chloromethane	1	3.7
1,1-dichloroethene	0.07	0.07
Cis-1,2-dichloroethene	1	210
Trans-1,2-dicholorethene	1	620
Methylene Chloride	1	22
Tetrachloroethene	1	22
Trichloroethene	1	14
Vinyl Chloride	0.0097	0.0097

*U.S. EPA Region IX Preliminary Remediation Goals (PRGs), First Half 1994.

Although the primary goal of soil excavation was to remove soil containing chlorinated hydrocarbons, petroleum hydrocarbons were also present in the soil. The target clean-up level for petroleum hydrocarbons, as presented in the Draft Remediation Plan for Del Monte Plant 35, is 100 mg/kg total petroleum hydrocarbons (CH2M HILL, 1994a). Confirmation samples collected were analyzed for total petroleum hydrocarbons as diesel, kerosene, and motor oil in addition to chlorinated hydrocarbons.

2.3.1 Excavation

On September 8th, ICONCO began excavating soil from the target area. Excavated soil was loaded into a dump truck and transported to the soil aeration area where it was stockpiled onto the plastic. Two samples (SA-1 and SB-1) were collected at an approximate depth of 5 feet bgs and delivered to Sparger Technology's onsite laboratory for analysis for chlorinated hydrocarbons by EPA Method 8010 and total extractable petroleum hydrocarbons (diesel, kerosene, and motor oil) by EPA Method 8015 Modififed.

As part of the worker health and safety plan for the project, air emissions from the excavation area were monitored for organic vapors with an Organic Vapor Meter (OVM). When the excavation reached depths between 5 and 9 feet bgs, odors were noted and OVM readings became elevated, exceeding action levels for work in Level D personnel protective equipment (PPE). As a result, work was stopped while SA-1 and SA-2 analyses were completed. Analytical results indicated the presence of chlorinated hydrocarbons (including vinyl chloride at 0.270 mg/kg), motor oil, and kerosene. Analytical results are shown on Table 2-1. Laboratory reports are provided in Appendix B.

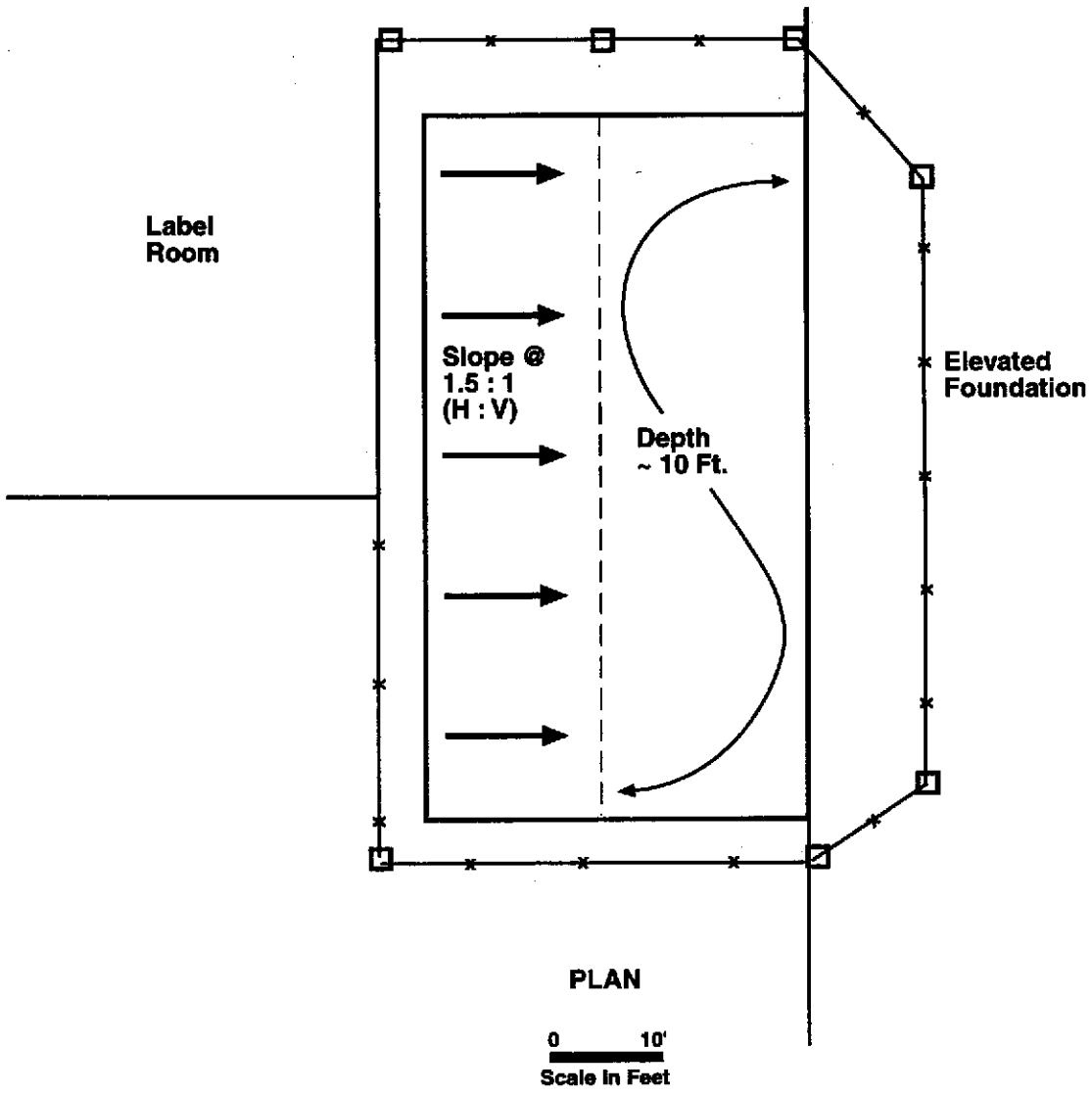
Based on the analytical results, further excavation was stopped while monitoring equipment for vinyl chloride and Level C PPE were brought to the work site.

Excavation resumed on September 9th with field personnel working in Level C PPE. Air emissions were monitored using an OVM for organic vapors and Draeger tubes for vinyl chloride. Soil was removed from the entire target area to a maximum depth of 10 to 11 feet bgs along the edge of the former warehouse foundation. Figure 2-2 shows the area and depth of the excavation. A total of approximately 525 cubic yards of soil were removed.

2.3.2 Confirmation Samples

Confirmation soil samples were collected during excavation and analyzed for chlorinated hydrocarbons and total extractable petroleum hydrocarbons. Results of sample analyses are provided in Table 2-2. Sample locations are indicated on Figure 2-3.

Samples labeled SS-1B and SS-1G were collected from the east sidewall of the excavation at the edge of the former warehouse foundation. Sample depths were about 8 feet bgs. Levels of chlorinated and petroleum hydrocarbons detected in these samples exceeded target cleanup levels.



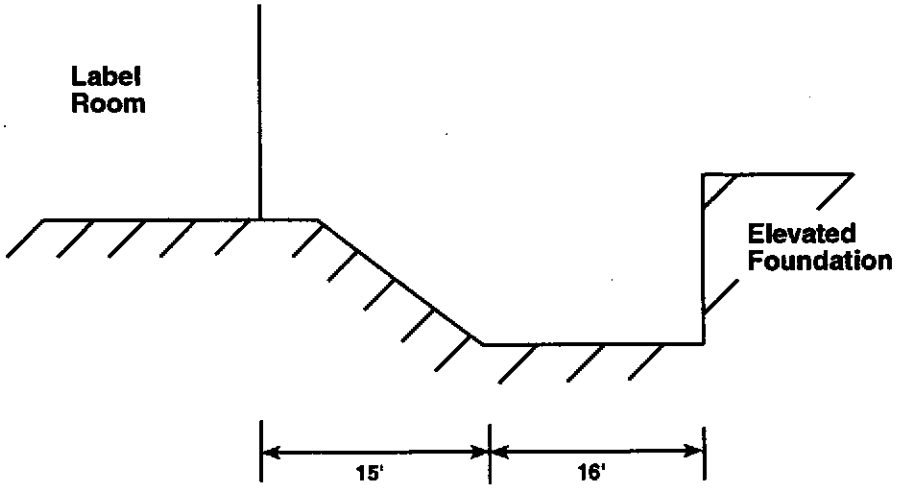


Figure 2-2
AREA AND DEPTH OF EXCAVATION
Del Monte Plant 35
Emeryville, California

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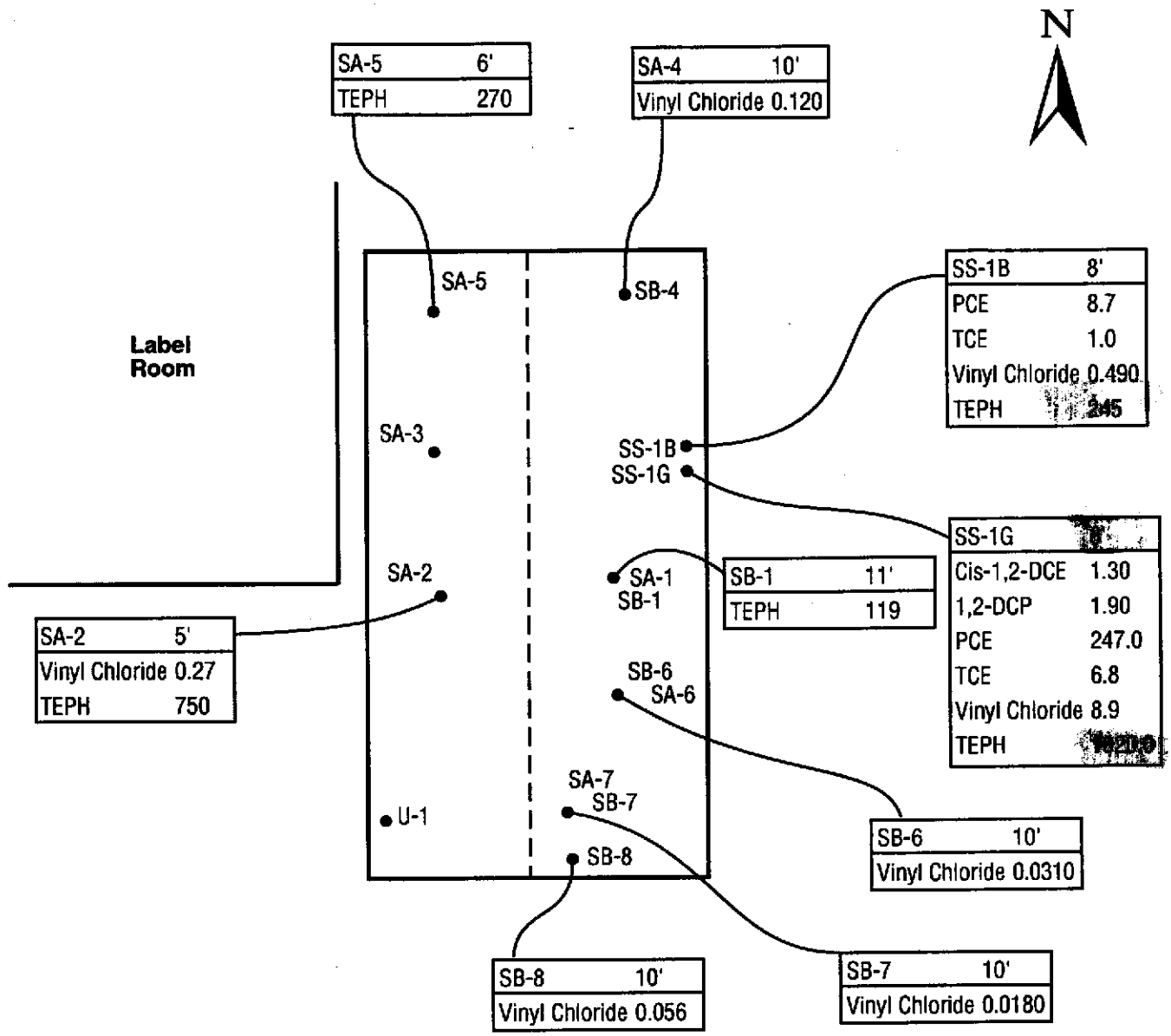
Table 2-2
Results of Soil Analyses During Soil Excavation on East Parcel
Date: September 8 and 9, 1994
Del Monte Plant 35, Emeryville, California

Sample Location	Depth Ft. Bgs	Analytes									
		Cis-1,2-Di-chloroethene (mg/kg)	Trans-1,2-Dichloroethene (mg/kg)	1,2-Dichloro-propane (mg/kg)	1,1,2,2-Tetra-chloroethane (mg/kg)	Tetrachloro-ethene (mg/kg)	1,1,2-Tri-chloroethane (mg/kg)	Trichloro-ethene (mg/kg)	Vinyl Chloride (mg/kg)	TPH Motor Oil (mg/kg)	TPH Kerosene (mg/kg)
SA-1	5	<0.001	<0.001	0.0011	0.0027	<0.001	0.0021	<0.001	<0.001	28 *	78 *
SB-1	11	0.0072	<0.001	0.0011	<0.001	0.0490	<0.001	0.0092	0.0040	100 *	19 *
SA-2	5	0.330	0.0450	<0.020	<0.020	<0.020	<0.020	<0.020	0.27 *	130 *	620 *
SA-3	7	0.0025	0.0020	<0.002	<0.002	0.030	<0.002	0.0084	0.0093	<1.0	<1.0
SB-4	10	0.110	0.0230	<0.005	<0.005	0.210	<0.005	0.0930	0.12 *	<1.0	<1.0
SA-5	6	<0.001	<0.001	<0.001	<0.001	0.0160	<0.001	<0.001	<0.001	140 *	130 *
SA-6	6	0.0660	0.0160	<0.010	<0.010	0.270	<0.010	0.10	0.029 *	92 *	33 *
SB-6	10	0.0090	0.0015	0.0013	<0.001	0.020	<0.001	0.0045	0.031 *	<1.0	<1.0
SA-7	8	0.0034	<0.001	0.0012	<0.001	0.0027	<0.001	0.0025	<0.001	<1.0	<1.0
SB-7	10	0.0078	0.0015	0.0016	<0.001	0.0058	<0.001	0.0061	0.018 *	<1.0	<1.0
SB-8	10	0.0240	0.0049	0.0018	<0.001	0.0230	<0.001	0.0180	0.056 *	<1.0	<1.0
SS-1B	8	0.160	<0.050	0.0790	<0.50	87 *	<0.050	1 *	0.49 *	65 *	180 *
SS-1G	8	1.3 *	<1.0	1.9 *	<1.0	247 *	<1.0	6.8 *	8.9 *	300 *	660 *
UT-1	3	<0.001	<0.001	<0.001	<0.001	0.0022	<0.001	<0.001	<0.001	58	27
Action Level		1	1	1	1	1	1	1	0.0097	100	

Note:
1. "<" indicates that the laboratory detection limit was not exceeded
2. TPH = total petroleum hydrocarbons
3. * indicates that result is above the action level

Dry cleaning agent



Note:

[redacted] in place.

Units are mg/kg

Figure 2-3
CONFIRMATION SAMPLE LOCATIONS AND RESULTS
Del Monte Plant 35
Emeryville, California

Sample UT-1 was collected from the west sidewall beneath the bottom of the utility trench at a depth of about 3 feet bgs. Soil appeared discolored (dark brown to black) at that location; however, results did not exceed action levels.

Figure 2-3 shows confirmation sample analytical results that exceed target clean-up levels. As previously stated, soil along the west side of the excavation was left in place to protect the label room foundation, therefore, confirmation samples in that area were only collected at depths of 5 feet bgs.

2.4 Soil Stockpiling and Sampling

Soil that was transported to the aeration area was stockpiled on top of plastic that was rolled out as soil was added. After the excavated soil was placed on the plastic, the soil was spread with a front end loader to an average depth of 18 inches. The area covered by aerating soil is approximately 20,000 square feet.

The edges of the aeration area were bermed by nailing two 4 by 4 wood boards together and placing them beneath the plastic. The edges of plastic were held down with rocks and asphalt chunks.

Initial Sampling

On September 16th, CH2M HILL collected samples of the aerating soil. The soil was divided into eleven areas of approximately 50 cubic yards each. Four individual samples were collected from each 50 cubic yard area. Samples were collected by driving a 6-inch-long brass sleeve into the soil beginning at a depth of 3 inches below the soil surface. The brass sleeves were sealed with Teflon sheets and plastic end caps, placed in plastic bags, and placed in a cooler with ice. Samples were picked up at the job site by Chromalab, Inc.

The laboratory composited the four individual samples for each area into one sample. Eleven samples were analyzed for chlorinated hydrocarbons by EPA Method 8010, TPH-gasoline/BTEX by EPA Methods 8015/602, and TPH-diesel, kerosene, and motor oil by EPA Method 8015 Modified. Table 2-3 is a summary of detected constituents in each area. Figure 2-4 shows the area locations within the stockpile.

Follow-Up Sampling

On November 22nd, CH2M HILL collected additional samples of aerating soil from three of the eleven areas: Areas 3, 5, and 9. The samples were collected and analyzed to assess the effectiveness of the passive aeration process on the stockpiled soil. The highest levels of chlorinated and petroleum hydrocarbons were detected in samples collected in September from Areas 3, 5, and 9. The samples were collected using the same procedures used during the initial sampling event. Samples were analyzed by Chromalab, Inc. for the same

Table 2-3
Stockpiled Soil Sample Results
Date: September 16 and November 22, 1994
Del Monte Plant 35, Emeryville, California

Sample Location	Analytes																	
	Cis-1,2-Di-chloroethene (mg/kg)		Tetrachloro-ethene (mg/kg)		Trichloro-ethene (mg/kg)		TPH Motor Oil (mg/kg)		TPH Kerosene (mg/kg)		TPH Gasoline (mg/kg)		TPH Diesel (mg/kg)		Total Xylenes (mg/kg)		Ethyl Benzene (mg/kg)	
	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov	Sept	Nov
Area 1	<0.005	NA	<0.005	NA	<0.005	NA	62	NA	3.8	NA	<1.0	NA	<1.0	NA	<0.005	NA	<0.005	NA
Area 2	<0.005	NA	0.059	NA	0.0071	NA	140	NA	10	NA	1.3	NA	<1.0	NA	0.0057	NA	<0.005	NA
Area 3	0.027	<0.005	0.64	0.01	0.059	<0.005	240	44	130	<1	17	<1	<1.0	6.5	0.028	<0.005	0.014	<0.005
Area 4	<0.005	NA	0.065	NA	0.0086	NA	150	NA	30	NA	<1.0	NA	<1.0	NA	<0.005	NA	<0.005	NA
Area 5	0.057	<0.005	0.22	0.01	0.02	<0.005	100	85	17	<1	3.5	<1	<1.0	1.6	0.083	<0.005	<0.005	<0.005
Area 6	<0.005	NA	0.0052	NA	<0.005	NA	160	NA	3	NA	<1.0	NA	<1.0	NA	0.0014	NA	<0.005	NA
Area 7	0.023	NA	0.3	NA	0.03	NA	58	NA	<1.0	NA	<1.0	NA	<1.0	NA	<0.005	NA	<0.005	NA
Area 8	<0.005	NA	0.063	NA	<0.005	NA	94	NA	14	NA	<1.0	NA	<1.0	NA	<0.005	NA	<0.005	NA
Area 9	<0.005	<0.005	13	0.015	<0.005	<0.005	250	160	200	<10	11	<1	<5.0	21	0.019	<0.005	0.0088	<0.005
Area 10	<0.005	NA	0.35	NA	0.0074	NA	170	NA	39	NA	8.6	NA	<1.0	NA	0.018	NA	0.0087	NA
Area 11	<0.005	NA	0.02	NA	<0.005	NA	50	NA	12	NA	2	NA	<1.0	NA	<0.005	NA	<0.005	NA

Notes:
1. "<" indicates that the laboratory detection limit was not exceeded
2. TPH = total petroleum hydrocarbons
3. NA = not analyzed

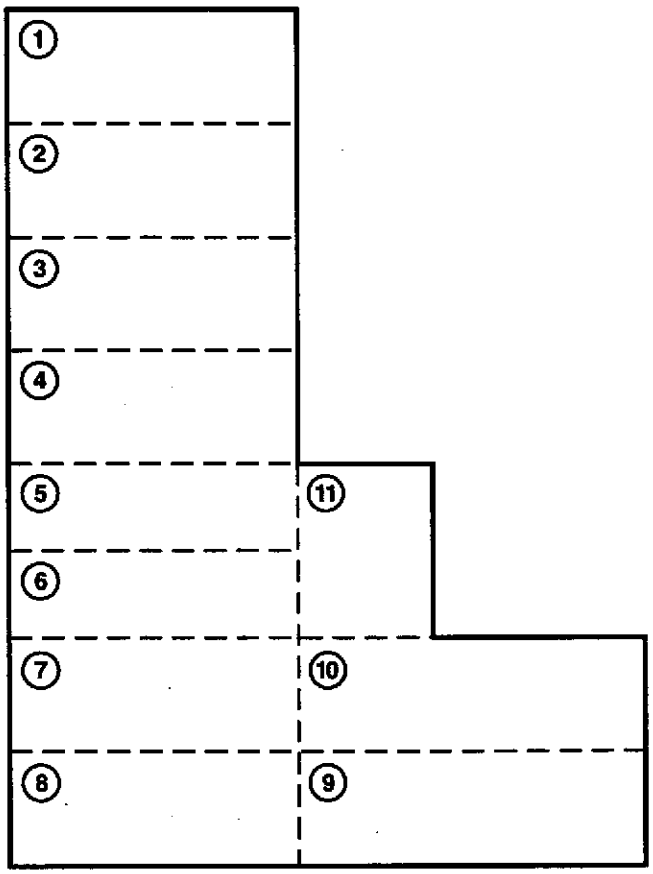


Figure 2-4
STOCKPILED SOIL AREAS
East Parcel, Del Monte Plant 35
Emeryville, California

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constituents and using the same methods used in the initial sampling event. Table 2-3 includes results of constituents detected during the second sampling of Areas 3, 5, and 9.

2.5 Groundwater Sampling/Analysis

During soil excavation on September 8, groundwater began entering the pit at a depth of 8.5 to 9 feet bgs. A sample of the groundwater entering the pit was collected and submitted to Sparger Technology's onsite laboratory for analysis. The sample was analyzed for chlorinated hydrocarbons and petroleum hydrocarbons. Analytical results for this sample (GW-1) are shown on Table 2-4. Chlorinated and petroleum hydrocarbons (kerosene and motor oil) were detected. When soil excavation had ceased for the day, the contractor filled the bottom 2 to 3 feet of the pit with clean soil to eliminate standing water in the pit.

A second groundwater sample (GW-2) was collected from the excavation pit the morning of September 9th and submitted to Chromalab, Inc. for chlorinated hydrocarbon analysis by EPA Method 8010. Before collecting the water sample, additional soil was removed from the pit allowing groundwater to enter. As shown on Table 2-4, lower levels of vinyl chloride but higher levels of tetrachloroethene (PCE) and trichloroethene (TCE) were detected in GW-2 than in GW-1.

After the excavation was completed, groundwater rose in the pit to a depth of about 5 feet bgs. A third groundwater sample (GW-3) was collected from the pit on September 16th. Three samples were collected between 2 and 3 feet below the water surface, at the north, middle, and south ends of the pit. The samples were composited into one sample by Chromalab, Inc. and analyzed for chlorinated hydrocarbons, TPH-gasoline/BTEX, and TPH-diesel, -kerosene, and -motor oil. Results are shown on Table 2-4. Levels of chlorinated hydrocarbons, particularly vinyl chloride, were much lower than those detected in GW-1 and GW-2. Trace amounts of xylenes were also detected in the sample.

A fourth water sample (GW-4) was collected on November 8, 1994, after the excavation was dewatered (see Section 2.6 below). A sample of water flowing into the pit was collected and analyzed by Chromalab for chlorinated hydrocarbons by EPA Method 8010. Levels of chlorinated hydrocarbons detected in GW-4 were significantly lower than those detected in any of the previous samples. Results are shown on Table 2-4.

The water removed from the excavation on November 8th was pumped into two temporary storage tanks. For purposes of disposal characterization, water samples were collected from both of the tanks and composited by Chromalab. The composited sample was analyzed for chlorinated hydrocarbons by EPA Method 8010, TPH-kerosene, -diesel, and -motor oil by EPA Method 8015 and for TDH-gasoline/BTEX by EPA Method 8015/602. Results are shown on Table 2-4.

Table 2-4
Results of Groundwater Sample Analyses During Excavation on East Parcel
September/November 1994
Del Monte Plant 35, Emeryville, California

Sample Location	Date Collected	Analytes												
		Cis-1,2-Di-chloroethene ug/l	Trans-1,2-Di-chloroethene ug/l	1,1-Di-Chloroethene ug/l	Tetrachloro-ethene ug/l	Trichloro-ethene ug/l	Vinyl Chloride ug/l	Benzene ug/l	Ethyl-benzene ug/l	Total Xylenes ug/l	TPH Gasoline mg/l	TPH Kerosene mg/l	TPH Diesel mg/l	TPH Motor Oil mg/l
GW-1	9/8/94	[illegible]	[illegible]	<130	770.0	[illegible]	[illegible]	NA	NA	NA	NA	1.4	<0.05	[illegible]
GW-2	9/9/94	290.0	[illegible]	9.90	[illegible]	150.0	[illegible]	NA	NA	NA	NA	NA	NA	NA
GW-3	9/16/94	[illegible]	[illegible]	1.10	[illegible]	100.0	[illegible]	<0.5	<0.5	0.80	<0.05	<1.0	<1.0	<0.001
GW-4	11/8/94	11.0	0.80	<0.5	[illegible]	12.0	<0.5	NA	NA	NA	NA	NA	NA	NA
BT-1/-2	11/8/94	8.70	<0.5	<0.5	51.0	10.0	<0.5	2.2	2.5	1.20	0.13	<0.05	0.18	<0.5

Note:
1. "<" indicates that the laboratory detection limit was not exceeded
2. TPH = total petroleum hydrocarbons

2.6 Flow Rate of Groundwater Into Excavation

To estimate the flow rate of groundwater into the excavation, groundwater was pumped from the pit and the recovery of water in the excavation was observed.

Water was pumped from the excavation on November 8, 1994. During pumping, water levels were continuously monitored by a water level transducer and data logger. After pumping, water levels in the excavation were allowed to recover for approximately 12 hours. At the end of 12 hours, the data logger was removed from the excavation.

Evaluation of the data indicated that flow rates of groundwater entering the excavation were in the range of 3.4 to 6 gallons per minute. Appendix C provides details of the methodology and flow rate calculations.

2.7 Drummed Soil

Approximately 130 drums of investigation-derived soil and water were present at various locations onsite. About 42 of the drums were generated during investigations conducted by CH2M HILL for Del Monte and about 88 were generated during a geotechnical investigation conducted by Woodward Clyde Consultants (WCC) for Kaiser. The drums were divided into three groups:

1. Drums of purge and decontamination water

2. Drums of soil from CH2M HILL investigations and from WCC borings in areas of the site where contaminants were potentially present

3. Drums of soil from WCC borings in areas of the site where no contaminants have been found or are suspected

The groups were managed in the following way:

1. The drums of water were moved to the paved area adjacent to the groundwater treatment system on the West Parcel. The water was pumped from the drums into the Baker tank and treated by the carbon adsorption system on October 14, 1994.

2. Drums of soil from group 2 were moved to the soil aeration area on the East Parcel, emptied onto plastic, and spread for aeration.

3. Drums of soil from group 3 were moved to the west parcel and emptied onto pavement lined with plastic

The empty drums will be recycled or disposed offsite at an appropriately permitted facility.

Section 3
Discussion of Results

Section 3

Discussion of Results

This section discusses the results of the activities described in Section 2: confirmation soil sampling and analyses associated with the excavation; stockpiled soil sample analyses; and groundwater sample analyses.

3.1 Soil Removal

Based on confirmation sampling results, chlorinated and petroleum hydrocarbons are present in soil beyond the excavation limits at levels above target clean-up criteria.

Chlorinated Hydrocarbons

Vinyl chloride is present above the target clean-up level of 0.0097 mg/kg at the pit bottom (about 10 feet bgs) along the east half of the pit (SB-4, SB-6, SB-7, and SB-8) and at one location (SA-2) about 5 feet bgs along the west side slope of the pit. The presence of chlorinated hydrocarbons at depths greater than 5 feet bgs on the west side of the pit is not known because soil is inaccessible in this area. Vinyl chloride, PCE, TCE, 1,2-dichloropropane, and cis-1,2-DCE are present above target clean-up levels along the east side wall at a depth of about 8 feet bgs (SS-1G and SS-1B).

Petroleum Hydrocarbons

TEPH is present above the target clean-up level of 100 mg/kg in the following areas: the pit bottom at about 11 feet bgs (sample SA-1 at 119 mg/kg); on the west side slope at about 5 feet bgs (SA-2 at 750 mg/kg); and on the east sidewall at about 8 feet bgs (SA-1 and SB-1 at 245 to 1,020 mg/kg). The presence of petroleum hydrocarbons at depths greater than 5 feet bgs along the west side slope is not known because soil is inaccessible in this area.

3.2 Soil Aeration

Analytical results of the initial soil samples collected from the aerating soil indicated that further aeration of soil was needed to reduce chlorinated hydrocarbons. The low gasoline concentrations measured (ranging from <1 to 17 mg/kg) could also be reduced through further aeration. Although kerosene (<1 to 200 mg/kg) and motor oil (<10 to 250 mg/kg) are less volatile than gasoline and chlorinated hydrocarbons, some reduction in concentrations may occur over time from aeration and natural biodegradation.

Results of follow-up soil samples collected on November 22nd indicate that the aeration process has been effective. The only chlorinated hydrocarbon detected in the second

sampling event, PCE, was reduced from concentrations ranging from 0.22 to 13 mg/kg to concentrations ranging from 0.005 to 0.015 mg/kg. The reduced levels of PCE are well below the proposed clean-up level for the soil excavation of 1 mg/kg and the EPA PRG for residential exposure to soil of 22 mg/kg.

No BTEX compounds or TPH as kerosene or gasoline were detected in the follow-up samples. BTEX compounds were detected in the initial samples at levels that were lower than those initially detected: 25 to 100 mg/kg in November versus 100 to 250 mg/kg in September. TPH as diesel was not detected in the initial samples but was detected in the follow-up samples at levels ranging from 1.6 to 21 mg/kg. These levels of TPH-diesel are well below the clean-up level for petroleum hydrocarbons of 100 mg/kg established for the property.

3.3 Groundwater

Results of the four groundwater samples collected from the excavation pit varied widely. GW-1 and GW-2 were collected while soil was being excavated. The differences in concentrations measured in GW-1 and GW-2 may be due to the fact that soil at different locations within the pit had been disturbed before the water samples were collected. Results, therefore, may reflect the variability in soil concentrations.

Sample GW-3 was collected after excavation of the "hot spot" was completed and the water level had stabilized. To obtain a sample of water that had lost [illegible] amount of chlorinated hydrocarbons to volatilization to the atmosphere, three samples were collected from a depth of 2 to 3 feet beneath the water surface. The three samples were composited by the laboratory before analysis. Results of GW-3 indicated lower levels of chlorinated hydrocarbons than those detected in GW-1 and GW-2. Some chlorinated hydrocarbons may have been lost to volatilization to the atmosphere before the sample was collected.

Sample GW-4 was collected from water flowing into the excavation immediately after the pit was dewatered. Chlorinated hydrocarbon levels were significantly lower in GW-4, with PCE detected at 120 μg/l and TCE at 12 μg/l. The relatively low levels of chlorinated hydrocarbons in GW-4 may be because the water sampled had not contacted soil containing chlorinated hydrocarbons at elevated levels. Samples GW-1 and GW-2 were from water in contact with soil containing chlorinated hydrocarbons at levels above the action levels established for the project. Although sample GW-3 was collected after the excavation was completed, the water had been standing in contact with the remaining soil that still contains chlorinated hydrocarbons at concentrations above the action levels. For these reasons, sample GW-4 is considered more representative of groundwater quality than samples GW-1, GW-2, or GW-3.

Section 4
Recommendations

Section 4

Recommendations

Recommendations for soil and groundwater remediation on the East Parcel and for management of aerating soil are discussed in this section.

4.1 Soil and Groundwater

Information from previous soil and groundwater investigations on the East Parcel, previously developed remediation plans, and the results of the recent soil removal action were reviewed in formulating the recommendations outlined in this section.

Features of this area of the property that need to be addressed in the remediation approach to the East Parcel are:

- Existence of a closed-in-place underground fuel oil storage tank next to the boiler house (about 80 feet downgradient of the excavation); soil around the tank contains fuel oil constituents; groundwater beneath the tank may contain fuel oil constituents. Remediation plans for Plant 35 include the removal of this tank (CH2M HILL, 1994d).

- The highest concentrations of chlorinated hydrocarbons detected in groundwater samples from the East Parcel are at the excavation and immediately downgradient.

- Chlorinated hydrocarbons have been detected in groundwater southwest of the boiler house extending to the west parcel.

- Soil containing chlorinated and petroleum hydrocarbons above target clean-up levels exists beyond the limits of the excavation. This soil was inaccessible due to the location of buildings and foundations or the soil was below the groundwater table.

In previous documents, Del Monte recommended extracting groundwater containing chlorinated hydrocarbons from an extraction pit constructed in the pit left after the tank is removed. For treatment of the extracted groundwater, the recommendation was to pump the water to the existing carbon adsorption system on the West Parcel. The information collected during the recent soil excavation and water sampling and analysis activities support this approach.

The pit that will be left after the tank is removed is about 80 feet downgradient from the area of recent soil excavation. Levels of chlorinated hydrocarbons detected in groundwater entering the excavation were lower than those previously detected in groundwater 40 feet

downgradient from the pit, that is, about halfway between the pit and the underground tank. Extracting water at the location of the underground tank (after it is removed) would address both the chlorinated hydrocarbons known to be present in groundwater and petroleum hydrocarbons if found to be present in groundwater after the tank is removed.

Before beginning groundwater extraction, presently inaccessible soil beyond the excavated area that may continue to release chlorinated hydrocarbons to the groundwater would be removed.

In summary, Del Monte recommends conducting the following remediation actions on the East Parcel after building structures on the property are demolished:

- Remove additional soil containing chlorinated hydrocarbons.
- Remove the underground tank and affected soil.
- Install monitoring well downgradient of the tank.
- Obtain amendment to the East Bay Municipal Utility District Wastewater Discharge Permit for the West Parcel treatment system.
- Construct groundwater extraction system at the former underground tank location.
- Install piping and pumps to transport extracted water to the West Parcel.
- Modify West Parcel treatment system to accommodate increased flow and potentially the addition of petroleum hydrocarbons.
- Extract and treat groundwater until asymptotic levels of contaminants are seen.

4.2 Soil Aeration

Based on the results of the follow-up sampling of stockpiled soil, the soil aeration has effectively reduced chlorinated hydrocarbon levels to well below the target clean-up levels shown on Table 2-1. TPH-gasoline and -kerosene have been reduced to levels below the detection limit. TPH-diesel is present at levels well below the clean-up level for petroleum hydrocarbons of 100 mg/kg. TPH-motor oil was significantly reduced but was detected in one sample at 160 mg/kg, a level above the 100 mg/kg clean-up level for the property.

Del Monte recommends that the soil be left stockpiled on the East Parcel until demolition activities begin (anticipated for 1995). Natural biodegradation processes are expected to further reduce the levels of TPH-motor oil during this time period. If, at the time of property demolition, the levels of chemical constituents present in the soil are acceptable

for fill material, the stockpiled soil will be used to backfill excavations left after demolition and remediation activities. Before property demolition begins, additional samples of the stockpiled soil will be collected and analyzed to determine acceptability for use as onsite fill.

If acceptable levels of chemical constituents are not attained, the soil will be disposed of at an appropriate offsite facility.

Section 5
References

Section 5
References

CH2M HILL. 1994a. Draft Remediation Plan, Del Monte Plant 35. April 1994.

CH2M HILL. 1994b. Supplemental Onsite Investigation Report for Del Monte Plant 35. May 1994.

CH2M HILL. 1994c. Technical Memorandum on Soil and Groundwater Investigation East of Boiler House on East Parcel. August 12, 1994.

CH2M HILL. 1994d. Work Plan for Focused Soil Remediation, East Parcel, Del Monte Plant 35. August 15, 1994.

Appendix A
Notification to BAAQMD

Engineers
Planners
Economists
Scientists

August 25, 1994

BAE28830.P5

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

Attention: Enforcement Division

Subject: Soil Excavation and Aeration at Del Monte Plant 35, 1250 Park Avenue Emeryville, California

This letter is notification to the Bay Area Air Quality Management District that on September 7, 1994 Del Monte will begin excavation and aeration of soil containing chlorinated and petroleum hydrocarbons at 1250 Park Avenue in Emeryville, California. The source of the soil contaminants is unknown.

An estimated 500 cubic yards of soil will be excavated by ICONCO as a remedial action to remove soil containing chlorinated hydrocarbons. Maximum concentrations of constituents detected during recent soil sampling in the vicinity of the planned excavation are as follows:

Tetrachloroethene	8.2 ppm
Trichloroethene	0.21 ppm
Other chlorinated hydrocarbons	< 1 ppm
Unknown hydrocarbons in gas/BTEX analysis	91 ppm

Exempt Non-Volatile Hydrocarbons:

TPH-motor oil	260 ppm
TPH-kerosene	170 ppm
Unknown extractable hydrocarbons	150 ppm

CH2M HILL 1111 Broadway, P.O. Box 12681, Oakland, CA 94604-2681 510 251-2426 Fax 510 893-8205

The attached table is a tabulation of analytical results of soil samples collected from the excavation area.

ICONCO will aerate the excavated soil by spreading it to a thickness of 1 foot on a plastic-lined aeration bed.

In addition, drummed soil cuttings from investigations conducted at Plant 35 will be spread on the aeration bed. The soil cuttings potentially contain low levels (<1 ppm) of chlorinated hydrocarbons. Approximately 40 drums of cuttings will be aerated.

Based on the assumption that the excavation and aeration will take 2 days to complete, less than 500 cubic yards per day of soil will be excavated and added to the aeration bed.

If you have any questions regarding this work, please call me at (510) 251-2888 ext. 2189.

Sincerely,

CH2M HILL

Madeline Wall

Madeline Wall
Project Manager

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40
Aeration of Contaminated Soil and Removal of Underground Storage Tanks

NOTIFICATION FORM
___ Removal or Replacement of Tanks
_X_ Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 1250 PARK AVENUE
CITY, STATE EMERYVILLE, CALIFORNIA ZIP 94608
OWNER NAME DEL MONTE
SPECIFIC LOCATION OF PROJECT EAST PORTION OF PROPERTY

TANK REMOVAL
SCHEDULED STARTUP DATE NA
VAPORS REMOVED BY:
[ ] WATER WASH
[ ] VAPOR FREEING (CO^2)
[ ] VENTILATION

CONTAMINATED SOIL EXCAVATION
SCHEDULED STARTUP DATE 9/7/94
STOCKPILES WILL BE COVERED? YES ___ NO X
ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):
AS DISCUSSED IN AUG. 25, 1994 LETTER,
(MAY REQUIRE PERMIT) ATTACHED

CONTRACTOR INFORMATION

NAME ~~ED~~ ICONCO CONTACT DICK DIVON
ADDRESS 303 DERBY AVE. PHONE (510) 261-1900
CITY, STATE, ZIP OAKLAND, CA 94601

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME CH2M HILL CONTACT MADALINE WALL
ADDRESS 1111 BROADWAY, SUITE 1200 PHONE (510) 251-2426
CITY, STATE, ZIP OAKLAND, CA 94604-2681

FOR OFFICE USE ONLY

DATE RECEIVED FAX ___ BY ___ (init.)
DATE POSTMARKED ___ BY ___ (init.)
CC: INSPECTOR NO. ___ DATE ___ BY ___ (init.)
UPDATE: CONTACT NAME ___ DATE ___ BY ___ (init.)
BAAQMD N # ___ DATA ENTRY ___

See reverse for instructions

Appendix B
Laboratory Reports

6.0.1

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

September 16, 1994

Ms. Madeline Wall
CH2M Hill
1111 Broadway, Suite 1200
Oakland, CA 94607

Dear Ms. Wall:

Enclosed is the report for the two (2) soil and one (1) water samples. The samples were received at Sparger Technology Analytical Mobile Lab on September 8, 1994.

The samples were received in two (2) VOAs, two (2) 1 L amber bottles, and two (2) 8 oz glass jars. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description
II. Analysis Request
III. Quality Control Report
IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,

R. L. James
Principal Chemist

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • ***(916) 362-8947 • FAX (916) 362-0947***

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

I Sample Description

See attached Samples Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested:

Lab ID	Your ID	Analysis Description
STM94-09-001A	SA-1	TPHdiesel/motor oil/kerosene
STM94-09-002A	SA-1	8010
STM94-09-003A	SA-2	TPHdiesel/motor oil/kerosene
STM94-09-004A	SA-2	8010
STM94-09-005A	GW-1	TPHdiesel/motor oil/kerosene
STM94-09-006A	GW-1	8010

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

III Quality Control

A. **Project Specific QC**. No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results**. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{\text{(measured concentration) x 100}}{\text{(actual concentration)}}$$

IV Analysis Results

Results are on the attached data sheets.

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	GW-1	LAB ID:	STM94-09-005A
Matrix:	Water	Dilution:	1:1

Name	Amount	Detection Limit	Units
TPHdiesel	ND	50	ug/L
TPHmotor oil	3100	50	ug/L
TPHkerosene	1400	50	ug/L

ppb = parts per billion = ug/L = micrograms per Liter
ppm= parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep. 8, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • (916) 362-8947 • FAX (916) 362-0947

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 8, 1994 Sep. 8, 1994 Sep. 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-1	LAB ID:	STM94-09-001A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Detection Limit	Units
TPHdiesel	ND	1.0	ug/g
TPHmotor oil	28	1.0	ug/g
TPHkerosene	78	1.0	ug/g

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep. 8, 1994
Date Reported

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Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 8, 1994 Sep. 8, 1994 Sep. 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-2	LAB ID:	STM94-09-003A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Detection Limit	Units
TPHdiesel	ND	1.0	ug/g
TPHmotor oil	130	1.0	ug/g
TPHkerosene	620	1.0	ug/g

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep. 8, 1994
Date Reported

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Mobile Laboratory Division
Scientific Division

8015 Modified Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) TPHdiesel Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project ID:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	LCS/LCSD	LAB ID:	STM94-09-008 LCS STM94-09-008 LCSD
Matrix:	Soil	Dilution:	

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
TPHdiesel	125 ppm	ND	128	127	ug/g	102%	102%	1%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep 8, 1994
Date Reported

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-1	LAB ID:	STM94-09-002A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	ND	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-1	LAB ID:	STM94-09-002A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.1	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	2.7	1.0	ug/kg
24. Tetrachloroethylene	ND	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	2.1	1.0	ug/kg
27. Trichloroethylene	ND	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	ND	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	107%
Surrogate % Recovery 2-Bromo-1-chloropropane =	97%
Surrogate % Recovery 1,4-Dichlorobutane =	100%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 8, 1994
Date Reported

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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-2	LAB ID:	STM94-09-004A
Matrix:	Soil	Dilution:	1 : 20

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	20	ug/kg
2. Bromoform	ND	40	ug/kg
3. Bromomethane	ND	40	ug/kg
4. Carbon tetrachloride	ND	20	ug/kg
5. Chlorobenzene	ND	20	ug/kg
6. Chloroethane	ND	20	ug/kg
7. Chloroform	ND	20	ug/kg
8. Chloromethane	ND	40	ug/kg
9. Dibromochloromethane	ND	20	ug/kg
10. 1,2-Dichlorobenzene	ND	20	ug/kg
11. 1,3-Dichlorobenzene	ND	20	ug/kg
12. 1,4-Dichlorobenzene	ND	20	ug/kg
13. Dichlorodifluoromethane	ND	40	ug/kg
14. 1,1-Dichloroethane	ND	20	ug/kg
15. 1,2-Dichloroethane	ND	20	ug/kg
16. 1,1-Dichloroethylene	ND	20	ug/kg
17. Cis-1,2 Dichloroethylene	330	20	ug/kg
18. Trans-1,2-Dichloroethylene	45	20	ug/kg
19. Dichloromethane	ND	100	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-2	LAB ID:	STM94-09-004A
Matrix:	Soil	Dilution:	1 : 20

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	2.2 *	20	ug/kg
21. Cis-1,3 Dichloropropylene	ND	20	ug/kg
22. Trans-1,3-Dichloropropylene	ND	20	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	20	ug/kg
24. Tetrachloroethylene	2.9 *	20	ug/kg
25. 1,1,1-Trichloroethane	ND	20	ug/kg
26. 1,1,2-Trichloroethane	ND	20	ug/kg
27. Trichloroethylene	4.1 *	20	ug/kg
28. Trichlorofluoromethane	ND	20	ug/kg
29. Vinyl Chloride	270	20	ug/kg

Surrogate % Recovery Bromochloromethane =	118%
Surrogate % Recovery 2-Bromo-1-chloropropane =	87%
Surrogate % Recovery 1,4-Dichlorobutane =	80%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

*** These compounds were detected below the reporting limit.**

R. L. James, Principal Chemist

Sep 8, 1994
Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 8, 1994 Sep. 8, 1994 Sep. 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	GW-1	LAB ID:	STM94-09-006A
Matrix:	Water	Dilution:	1 : 100

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	100	ug/L
2. Bromoform	ND	200	ug/L
3. Bromomethane	ND	80	ug/L
4. Carbon tetrachloride	ND	120	ug/L
5. Chlorobenzene	ND	250	ug/L
6. Chloroethane	ND	520	ug/L
7. Chloroform	ND	50	ug/L
8. Chloromethane	ND	80	ug/L
9. Dibromochloromethane	ND	90	ug/L
10. 1,2-Dichlorobenzene	ND	150	ug/L
11. 1,3-Dichlorobenzene	ND	320	ug/L
12. 1,4-Dichlorobenzene	ND	240	ug/L
13. Dichlorodifluoromethane	ND	200	ug/L
14. 1,1-Dichloroethane	ND	70	ug/L
15. 1,2-Dichloroethane	ND	30	ug/L
16. 1,1-Dichloroethylene	ND	130	ug/L
17. Cis 1,2-Dichloroethylene	2400	100	ug/L
18. Trans-1,2-Dichloroethylene	450	100	ug/L
19. Dichloromethane	ND	500	ug/L

ppb = parts per billion = ug/L = micrograms per Liter

ppm= parts per million = ug/mL= micrograms per milliliter

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 8, 1994 Sep. 8, 1994 Sep. 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	GW-1	LAB ID:	STM94-09-006A
Matrix:	Water	Dilution:	1 : 100

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	40	ug/L
21. Cis-1,3 Dichloropropylene	ND	340	ug/L
22. Trans-1,3-Dichloropropylene	ND	340	ug/L
23. 1,1,2,2-Tetrachloroethane	ND	30	ug/L
24. Tetrachloroethylene	770	30	ug/L
25. 1,1,1-Trichloroethane	ND	30	ug/L
26. 1,1,2-Trichloroethane	ND	20	ug/L
27. Trichloroethylene	800	120	ug/L
28. Trichlorofluoromethane	ND	300	ug/L
29. Vinyl Chloride	6700	180	ug/L

Surrogate % Recovery Bromochloromethane =	114%
Surrogate % Recovery 2-Bromo-1-chloropropane =	90%
Surrogate % Recovery 1,4-Dichlorobutane =	95%

ppb = parts per billion = ug/L = micrograms per Liter
ppm= parts per million = ug/mL= micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep. 8, 1994
Date Reported

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(Certification No. 1614)

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 GC Analysis Report
ıboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (LCSD)

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 8, 1994 Sep. 8, 1994 Sep. 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	LCS/LCSD	LAB ID:	STM94-09-008 LCS STM94-09-008 LCSD
Matrix:	Water	Dilution:	

UNITS = ug/L

Compound	Sample Conc	Spike (ppb) Added	Spike Result	Dup. Result	Spike % Rec	Dup. % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	ND	40	37	37	93%	93%	0%	22	59-172
Trichloroethene	ND	40	41	39	103%	98%	5%	21	60-133
Chlorobenzene	ND	40	41	40	103%	100%	2%	21	66-142

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep 8, 1994
Date Reported

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Mobile Laboratory Division
Scientific Division

8010 GC Analysis Report
Matrix Control Spike (MS) and Matrix Spike Duplicate (MSD)

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 8, 1994 Sep 8, 1994 Sep 8, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	GW-1 MS GW-1 MSD	LAB ID:	STM94-09-006A MS STM94-09-006A MSD
Matrix:	Water	Dilution:	1:100

UNITS = ug/L

Compound	Sample Conc	Spike (ppb) Added	Spike Result	Dup. Result	Spike % Rec	Dup. % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	ND	40	40	35	100%	88%	13%	22	59-172
Trichloroethene	800	40	46	38	115%	95%	19%	21	60-133
Chlorobenzene	ND	40	42	36	105%	90%	15%	21	66-142

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep 8, 1994
Date Reported

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SPARGER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112 Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

086M

Company: CH2M HILL
Phone: (510) 251-2426
Project Manager: MADELINE WALL
FAX: (510) 893-8205
STAL Invoice Number:

Report Address: 1111 BROADWAY, SUITE 1200, OAKLAND, CA 94607
Billing Name & Address:

ANALYSIS REQUEST

Project Name: DEL MONTE PLANT 35
Project/Job #: BAE28830.F4.ZZ
Project Location: EMERYVILLE, CA
P.O. #:

REMARKS: ONSITE LAB

WET (STLC)
TCLP

SAMPLE ID	Sampling: Date	Sampling: Time	Container: 40 mL VOA	Container: Brass Sleeve	Container: 1 L amber bottle	Container: 250 mL Plastic	Container: Other:	Preservative Used: HCl/HNO3/ICE	Preservative Used: None	Preservative Used: Other:	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	TCLP: BTEX (602/8020)/503.1	TCLP: BTEX/TPHgas (602/8020/8015)	TCLP: TPHdiesel/TPHmotor oil/kerosene(8015)	TCLP: EPA 601/8010/502.2/504 CHLORINATED HYDROCARBONS	TCLP: EPA 602/8020	TCLP: EPA 608/8080 (Pesticides)/505/508	TCLP: EPA 608/8080 (PCB's)	TCLP: EPA 624/8240/524.2	TCLP: EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI	Total: CAM-17 Metals	Total: CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Total: Lead	TAT: Standard	TAT: Rush Services (72hr / 48hr / 24hr / 12hr)	TAT: Holiday/Weekend Rush
SA-1	9/8/94	0845					1		X			X					X	X															
SA-2	9/8/94	0845					1		X			X					X	X															
GW-1	9/8/94	1400	2		2				X		X						X	X															

Relinquished by: Kath T. Gally
Date: 9/8/94 Time: 1400

Received by: [signature]
Date: 9/9/94 Time: 11:00

Relinquished by:
Date: Time:

Received by:
Date: Time:

6.8 1

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

September 16, 1994

Ms. Madeline Wall
CH2M Hill
1111 Broadway, Suite 1200
Oakland, CA 94607

Dear Ms. Wall:

Enclosed is the report for the fourteen (14) soil samples. The samples were received at Sparger Technology Analytical Mobile Lab on September 9, 1994.

The samples were received in eight (8) glass jars and six (6) plastic containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

I. Sample Description
II. Analysis Request
III. Quality Control Report
IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,

R. L. James
Principal Chemist

3050 Fite Circle, Suite 112 • Sacramento, California 95827 • ***(916) 362-8947 • FAX (916) 362-0947***

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I Sample Description

See attached Samples Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested:

Lab ID	Your ID	Analysis Description
STM94-09-007A	SS-1B	TPHdiesel/motor oil/kerosene
STM94-09-008A	SS-1B	8010
STM94-09-009A	SS-1G	TPHdiesel/motor oil/kerosene
STM94-09-010A	SS-1G	8010
STM94-09-011A	SB-1	TPHdiesel/motor oil/kerosene
STM94-09-012A	SB-1	8010
STM94-09-013A	SA-3	TPHdiesel/motor oil/kerosene
STM94-09-014A	SA-3	8010
STM94-09-015A	SB-4	TPHdiesel/motor oil/kerosene
STM94-09-016A	SB-4	8010
STM94-09-017A	SA-5	TPHdiesel/motor oil/kerosene
STM94-09-018A	SA-5	8010
STM94-09-019A	SA-6	TPHdiesel/motor oil/kerosene
STM94-09-020A	SA-6	8010
STM94-09-021A	SB-6	TPHdiesel/motor oil/kerosene
STM94-09-022A	SB-6	8010
STM94-09-023A	SA-7	TPHdiesel/motor oil/kerosene
STM94-09-024A	SA-7	8010
STM94-09-025A	UT-1	TPHdiesel/motor oil/kerosene
STM94-09-026A	UT-1	8010
STM94-09-027A	SB-7	TPHdiesel/motor oil/kerosene
STM94-09-028A	SB-7	8010
STM94-09-029A	SB-8	TPHdiesel/motor oil/kerosene
STM94-09-030A	SB-8	8010
STM94-09-031A	SP-N	TPHdiesel/motor oil/kerosene

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Lab ID	Your ID	Analysis Description
STM94-09-032A	SP-N	8010
STM94-09-033A	SP-S	TPHdiesel/motor oil/kerosene
STM94-09-034A	SP-S	8010

III Quality Control

A. **Project Specific QC**. No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results**. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{\text{(measured concentration) x 100}}{\text{(actual concentration)}}$$

IV Analysis Results

Results are on the attached data sheets.

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Mobile Laboratory Division
Scientific Division

8015 Modified Analysis Report
Project: Del Monte Plant 35 (BAE28830.P4.ZZ)

Attention: Ms. Madeline Wall
CH2M Hill
1111 Broadway, Suite 1200
Oakland, CA 94607

Date Sampled: Sep 9, 1994
Date Received : Sep 9, 1994
Date Analyzed: Sep 9, 1994
Invoice #: 087M

SOIL SAMPLES **Units: ug/g**

Lab ID	Client ID	TPH Diesel	Det. Limit	TPH Motor Oil	Det. Limit	TPH Kerosene	Det. Limit	Dilution 1:
STM94-09-007A	SS-1B	ND	1.0	65	1.0	180	1.0	1
STM94-09-009A	SS-1G	ND	1.0	360	1.0	660	1.0	1
STM94-09-011A	SB-1	ND	1.0	100	1.0	19	1.0	1
STM94-09-013A	SA-3	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-015A	SB-4	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-017A	SA-5	ND	1.0	140	1.0	130	1.0	1
ST94-09-019A	SA-6	ND	1.0	92	1.0	33	1.0	1
STM94-09-021A	SB-6	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-023A	SA-7	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-025A	UT-1	ND	1.0	58	1.0	27	1.0	1
STM94-09-027A	SB-7	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-029A	SB-8	ND	1.0	ND	1.0	ND	1.0	1
STM94-09-031A	SP-N	ND	1.0	94	1.0	33	1.0	1
STM94-09-033A	SP-S	ND	1.0	220	1.0	76	1.0	1

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

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Sparger Technology, Inc.
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Scientific Division

8015 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD) TPHdiesel Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project ID:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID: Matrix:	SB-8 MS SB-8 MSD Soil	LAB ID: Dilution:	STM94-09-029A MS STM94-09-029A MSD

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
TPHdiesel	125 ppm	ND *	157	146	ug/g	126%	117%	7%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

*** High percent recovery was due to matrix effect of sample.**

R. L. James, Principal Chemist

Sep. 9, 1994
Date Reported

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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SS-1B	LAB ID:	STM94-09-008A
Matrix:	Soil	Dilution:	1 : 50

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	50	ug/kg
2. Bromoform	ND	100	ug/kg
3. Bromomethane	ND	100	ug/kg
4. Carbon tetrachloride	ND	50	ug/kg
5. Chlorobenzene	ND	50	ug/kg
6. Chloroethane	ND	50	ug/kg
7. Chloroform	ND	50	ug/kg
8. Chloromethane	ND	100	ug/kg
9. Dibromochloromethane	ND	50	ug/kg
10. 1,2-Dichlorobenzene	ND	50	ug/kg
11. 1,3-Dichlorobenzene	ND	50	ug/kg
12. 1,4-Dichlorobenzene	ND	50	ug/kg
13. Dichlorodifluoromethane	ND	100	ug/kg
14. 1,1-Dichloroethane	ND	50	ug/kg
15. 1,2-Dichloroethane	ND	50	ug/kg
16. 1,1-Dichloroethylene	ND	50	ug/kg
17. Cis-1,2 Dichloroethylene	160	50	ug/kg
18. Trans-1,2-Dichloroethylene	ND	50	ug/kg
19. Dichloromethane	ND	250	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SS-1B	LAB ID:	STM94-09-008A
Matrix:	Soil	Dilution:	1 : 50

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	79	50	ug/kg
21. Cis-1,3 Dichloropropylene	ND	50	ug/kg
22. Trans-1,3-Dichloropropylene	ND	50	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	50	ug/kg
24. Tetrachloroethylene	8700	50	ug/kg
25. 1,1,1-Trichloroethane	ND	50	ug/kg
26. 1,1,2-Trichloroethane	ND	50	ug/kg
27. Trichloroethylene	1000	50	ug/kg
28. Trichlorofluoromethane	ND	50	ug/kg
29. Vinyl Chloride	490	50	ug/kg

Surrogate % Recovery Bromochloromethane =	98%
Surrogate % Recovery 2-Bromo-1-chloropropane =	88%
Surrogate % Recovery 1,4-Dichlorobutane =	92%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SS-1G	LAB ID:	STM94-09-010A
Matrix:	Soil	Dilution:	1 : 1000

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1000	ug/kg
2. Bromoform	ND	2000	ug/kg
3. Bromomethane	ND	2000	ug/kg
4. Carbon tetrachloride	ND	1000	ug/kg
5. Chlorobenzene	ND	1000	ug/kg
6. Chloroethane	ND	1000	ug/kg
7. Chloroform	ND	1000	ug/kg
8. Chloromethane	ND	2000	ug/kg
9. Dibromochloromethane	ND	1000	ug/kg
10. 1,2-Dichlorobenzene	ND	1000	ug/kg
11. 1,3-Dichlorobenzene	ND	1000	ug/kg
12. 1,4-Dichlorobenzene	ND	1000	ug/kg
13. Dichlorodifluoromethane	ND	2000	ug/kg
14. 1,1-Dichloroethane	ND	1000	ug/kg
15. 1,2-Dichloroethane	ND	1000	ug/kg
16. 1,1-Dichloroethylene	ND	1000	ug/kg
17. Cis-1,2 Dichloroethylene	1300	1000	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1000	ug/kg
19. Dichloromethane	ND	5000	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SS-1G	LAB ID:	STM94-09-010A
Matrix:	Soil	Dilution:	1 : 1000

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1900	1000	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1000	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1000	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1000	ug/kg
24. Tetrachloroethylene	247000 *	1000	ug/kg
25. 1,1,1-Trichloroethane	ND	1000	ug/kg
26. 1,1,2-Trichloroethane	ND	1000	ug/kg
27. Trichloroethylene	6800	1000	ug/kg
28. Trichlorofluoromethane	ND	1000	ug/kg
29. Vinyl Chloride	8900	1000	ug/kg

Surrogate % Recovery Bromochloromethane =	128% **
Surrogate % Recovery 2-Bromo-1-chloropropane =	116% **
Surrogate % Recovery 1,4-Dichlorobutane =	118% **

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

*** This compound was present above the linear range of the detector.**
**** High surrogate recoveries due to matrix effect.**

R. L. James, Principal Chemist

Sep 9, 1994
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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-1	LAB ID:	STM94-09-012A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	7.2	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit.

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8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-1	LAB ID:	STM94-09-012A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.1	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	49	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	9.2	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	4.0	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	123%
Surrogate % Recovery 2-Bromo-1-chloropropane =	105%
Surrogate % Recovery 1,4-Dichlorobutane =	110%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-3	LAB ID:	STM94-09-014A
Matrix:	Soil	Dilution:	1 : 2

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	2.0	ug/kg
2. Bromoform	ND	4.0	ug/kg
3. Bromomethane	ND	4.0	ug/kg
4. Carbon tetrachloride	ND	2.0	ug/kg
5. Chlorobenzene	ND	2.0	ug/kg
6. Chloroethane	ND	2.0	ug/kg
7. Chloroform	ND	2.0	ug/kg
8. Chloromethane	ND	4.0	ug/kg
9. Dibromochloromethane	ND	2.0	ug/kg
10. 1,2-Dichlorobenzene	ND	2.0	ug/kg
11. 1,3-Dichlorobenzene	ND	2.0	ug/kg
12. 1,4-Dichlorobenzene	ND	2.0	ug/kg
13. Dichlorodifluoromethane	ND	4.0	ug/kg
14. 1,1-Dichloroethane	ND	2.0	ug/kg
15. 1,2-Dichloroethane	ND	2.0	ug/kg
16. 1,1-Dichloroethylene	ND	2.0	ug/kg
17. Cis-1,2 Dichloroethylene	2.5	2.0	ug/kg
18. Trans-1,2-Dichloroethylene	2.0	2.0	ug/kg
19. Dichloromethane	ND	10.0	ug/kg

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Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-3	LAB ID:	STM94-09-014A
Matrix:	Soil	Dilution:	1 : 2

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	2.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	2.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	2.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg
24. Tetrachloroethylene	30	2.0	ug/kg
25. 1,1,1-Trichloroethane	ND	2.0	ug/kg
26. 1,1,2-Trichloroethane	ND	2.0	ug/kg
27. Trichloroethylene	8.4	2.0	ug/kg
28. Trichlorofluoromethane	ND	2.0	ug/kg
29. Vinyl Chloride	9.3	2.0	ug/kg

Surrogate % Recovery Bromochloromethane =	95%
Surrogate % Recovery 2-Bromo-1-chloropropane =	85%
Surrogate % Recovery 1,4-Dichlorobutane =	90%

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Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-4	LAB ID:	STM94-09-016A
Matrix:	Soil	Dilution:	1 : 5

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	5.0	ug/kg
2. Bromoform	ND	10.0	ug/kg
3. Bromomethane	ND	10.0	ug/kg
4. Carbon tetrachloride	ND	5.0	ug/kg
5. Chlorobenzene	ND	5.0	ug/kg
6. Chloroethane	ND	5.0	ug/kg
7. Chloroform	ND	5.0	ug/kg
8. Chloromethane	ND	10.0	ug/kg
9. Dibromochloromethane	ND	5.0	ug/kg
10. 1,2-Dichlorobenzene	ND	5.0	ug/kg
11. 1,3-Dichlorobenzene	ND	5.0	ug/kg
12. 1,4-Dichlorobenzene	ND	5.0	ug/kg
13. Dichlorodifluoromethane	ND	10.0	ug/kg
14. 1,1-Dichloroethane	ND	5.0	ug/kg
15. 1,2-Dichloroethane	ND	5.0	ug/kg
16. 1,1-Dichloroethylene	ND	5.0	ug/kg
17. Cis-1,2 Dichloroethylene	110	5.0	ug/kg
18. Trans-1,2-Dichloroethylene	23	5.0	ug/kg
19. Dichloromethane	ND	25.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-4	LAB ID:	STM94-09-016A
Matrix:	Soil	Dilution:	1 : 5

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	5.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	5.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	5.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
24. Tetrachloroethylene	210	5.0	ug/kg
25. 1,1,1-Trichloroethane	ND	5.0	ug/kg
26. 1,1,2-Trichloroethane	ND	5.0	ug/kg
27. Trichloroethylene	93	5.0	ug/kg
28. Trichlorofluoromethane	ND	5.0	ug/kg
29. Vinyl Chloride	120	5.0	ug/kg

Surrogate % Recovery Bromochloromethane =	125%
Surrogate % Recovery 2-Bromo-1-chloropropane =	108%
Surrogate % Recovery 1,4-Dichlorobutane =	108%

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Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-5	LAB ID:	STM94-09-018A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	ND	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-5	LAB ID:	STM94-09-018A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	16	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	ND	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	ND	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	109%
Surrogate % Recovery 2-Bromo-1-chloropropane =	94%
Surrogate % Recovery 1,4-Dichlorobutane =	100%

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-6	LAB ID:	STM94-09-020A
Matrix:	Soil	Dilution:	1 : 10

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	10.0	ug/kg
2. Bromoform	ND	20.0	ug/kg
3. Bromomethane	ND	20.0	ug/kg
4. Carbon tetrachloride	ND	10.0	ug/kg
5. Chlorobenzene	ND	10.0	ug/kg
6. Chloroethane	ND	10.0	ug/kg
7. Chloroform	ND	10.0	ug/kg
8. Chloromethane	ND	20.0	ug/kg
9. Dibromochloromethane	ND	10.0	ug/kg
10. 1,2-Dichlorobenzene	ND	10.0	ug/kg
11. 1,3-Dichlorobenzene	ND	10.0	ug/kg
12. 1,4-Dichlorobenzene	ND	10.0	ug/kg
13. Dichlorodifluoromethane	ND	20.0	ug/kg
14. 1,1-Dichloroethane	ND	10.0	ug/kg
15. 1,2-Dichloroethane	ND	10.0	ug/kg
16. 1,1-Dichloroethylene	ND	10.0	ug/kg
17. Cis-1,2 Dichloroethylene	66	10.0	ug/kg
18. Trans-1,2-Dichloroethylene	16	10.0	ug/kg
19. Dichloromethane	ND	50.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-6	LAB ID:	STM94-09-020A
Matrix:	Soil	Dilution:	1 : 10

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	10.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	10.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	10.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	10.0	ug/kg
24. Tetrachloroethylene	270	10.0	ug/kg
25. 1,1,1-Trichloroethane	ND	10.0	ug/kg
26. 1,1,2-Trichloroethane	ND	10.0	ug/kg
27. Trichloroethylene	100	10.0	ug/kg
28. Trichlorofluoromethane	ND	10.0	ug/kg
29. Vinyl Chloride	29	10.0	ug/kg

Surrogate % Recovery Bromochloromethane =	131% *
Surrogate % Recovery 2-Bromo-1-chloropropane =	111% *
Surrogate % Recovery 1,4-Dichlorobutane =	111% *

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*** High surrogate recoveries due to matrix effect.**

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-6	LAB ID:	STM94-09-022A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	9.0	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	1.5	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-6	LAB ID:	STM94-09-022A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.3	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	20	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	4.5	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	31	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	120%
Surrogate % Recovery 2-Bromo-1-chloropropane =	108%
Surrogate % Recovery 1,4-Dichlorobutane =	110%

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-7	LAB ID:	STM94-09-024A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	3.4	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SA-7	LAB ID:	STM94-09-024A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.2	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	2.7	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	2.5	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	ND	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	110%
Surrogate % Recovery 2-Bromo-1-chloropropane =	98%
Surrogate % Recovery 1,4-Dichlorobutane =	98%

ppb = parts per billion = ug/kg = micrograms per kilogram
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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	UT-1	LAB ID:	STM94-09-026A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	ND	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

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Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	UT-1	LAB ID:	STM94-09-026A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	2.2	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	ND	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	ND	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	126%
Surrogate % Recovery 2-Bromo-1-chloropropane =	110%
Surrogate % Recovery 1,4-Dichlorobutane =	102%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-7	LAB ID:	STM94-09-028A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	7.8	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	1.5	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-7	LAB ID:	STM94-09-028A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.6	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	5.8	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	6.1	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	18	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	123%
Surrogate % Recovery 2-Bromo-1-chloropropane =	110%
Surrogate % Recovery 1,4-Dichlorobutane =	108%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-8	LAB ID:	STM94-09-030A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	1.0	ug/kg
2. Bromoform	ND	2.0	ug/kg
3. Bromomethane	ND	2.0	ug/kg
4. Carbon tetrachloride	ND	1.0	ug/kg
5. Chlorobenzene	ND	1.0	ug/kg
6. Chloroethane	ND	1.0	ug/kg
7. Chloroform	ND	1.0	ug/kg
8. Chloromethane	ND	2.0	ug/kg
9. Dibromochloromethane	ND	1.0	ug/kg
10. 1,2-Dichlorobenzene	ND	1.0	ug/kg
11. 1,3-Dichlorobenzene	ND	1.0	ug/kg
12. 1,4-Dichlorobenzene	ND	1.0	ug/kg
13. Dichlorodifluoromethane	ND	2.0	ug/kg
14. 1,1-Dichloroethane	ND	1.0	ug/kg
15. 1,2-Dichloroethane	ND	1.0	ug/kg
16. 1,1-Dichloroethylene	ND	1.0	ug/kg
17. Cis-1,2 Dichloroethylene	24	1.0	ug/kg
18. Trans-1,2-Dichloroethylene	4.9	1.0	ug/kg
19. Dichloromethane	ND	5.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-8	LAB ID:	STM94-09-030A
Matrix:	Soil	Dilution:	1 : 1

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	1.8	1.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	1.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	1.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg
24. Tetrachloroethylene	23	1.0	ug/kg
25. 1,1,1-Trichloroethane	ND	1.0	ug/kg
26. 1,1,2-Trichloroethane	ND	1.0	ug/kg
27. Trichloroethylene	18	1.0	ug/kg
28. Trichlorofluoromethane	ND	1.0	ug/kg
29. Vinyl Chloride	56	1.0	ug/kg

Surrogate % Recovery Bromochloromethane =	130%
Surrogate % Recovery 2-Bromo-1-chloropropane =	113%
Surrogate % Recovery 1,4-Dichlorobutane =	115%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
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Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SP-N	LAB ID:	STM94-09-032A
Matrix:	Soil	Dilution:	1 : 2

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	2.0	ug/kg
2. Bromoform	ND	4.0	ug/kg
3. Bromomethane	ND	4.0	ug/kg
4. Carbon tetrachloride	ND	2.0	ug/kg
5. Chlorobenzene	ND	2.0	ug/kg
6. Chloroethane	ND	2.0	ug/kg
7. Chloroform	ND	2.0	ug/kg
8. Chloromethane	ND	4.0	ug/kg
9. Dibromochloromethane	ND	2.0	ug/kg
10. 1,2-Dichlorobenzene	ND	2.0	ug/kg
11. 1,3-Dichlorobenzene	ND	2.0	ug/kg
12. 1,4-Dichlorobenzene	ND	2.0	ug/kg
13. Dichlorodifluoromethane	ND	4.0	ug/kg
14. 1,1-Dichloroethane	ND	2.0	ug/kg
15. 1,2-Dichloroethane	ND	2.0	ug/kg
16. 1,1-Dichloroethylene	ND	2.0	ug/kg
17. Cis-1,2 Dichloroethylene	2.0	2.0	ug/kg
18. Trans-1,2-Dichloroethylene	ND	2.0	ug/kg
19. Dichloromethane	ND	10.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SP-N	LAB ID:	STM94-09-032A
Matrix:	Soil	Dilution:	1 : 2

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	3.8	2.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	2.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	2.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	3.0	2.0	ug/kg
24. Tetrachloroethylene	190	2.0	ug/kg
25. 1,1,1-Trichloroethane	ND	2.0	ug/kg
26. 1,1,2-Trichloroethane	ND	2.0	ug/kg
27. Trichloroethylene	16	2.0	ug/kg
28. Trichlorofluoromethane	ND	2.0	ug/kg
29. Vinyl Chloride	ND	2.0	ug/kg

Surrogate % Recovery Bromochloromethane =	129%
Surrogate % Recovery 2-Bromo-1-chloropropane =	108%
Surrogate % Recovery 1,4-Dichlorobutane =	104%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

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Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SP-S	LAB ID:	STM94-09-034A
Matrix:	Soil	Dilution:	1 : 10

Name	Amount	Reporting Limit	Units
1. Bromodichloromethane	ND	10.0	ug/kg
2. Bromoform	ND	20.0	ug/kg
3. Bromomethane	ND	20.0	ug/kg
4. Carbon tetrachloride	ND	10.0	ug/kg
5. Chlorobenzene	ND	10.0	ug/kg
6. Chloroethane	ND	10.0	ug/kg
7. Chloroform	ND	10.0	ug/kg
8. Chloromethane	ND	20.0	ug/kg
9. Dibromochloromethane	ND	10.0	ug/kg
10. 1,2-Dichlorobenzene	ND	10.0	ug/kg
11. 1,3-Dichlorobenzene	ND	10.0	ug/kg
12. 1,4-Dichlorobenzene	ND	10.0	ug/kg
13. Dichlorodifluoromethane	ND	20.0	ug/kg
14. 1,1-Dichloroethane	ND	10.0	ug/kg
15. 1,2-Dichloroethane	ND	10.0	ug/kg
16. 1,1-Dichloroethylene	ND	10.0	ug/kg
17. Cis-1,2 Dichloroethylene	71	10.0	ug/kg
18. Trans-1,2-Dichloroethylene	12	10.0	ug/kg
19. Dichloromethane	ND	50.0	ug/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm= parts per million = ug/g= micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 Halogenated Volatile Organics Analysis Report

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep 9, 1994 Sep 9, 1994 Sep 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SP-S	LAB ID:	STM94-09-034A
Matrix:	Soil	Dilution:	1 : 10

Name	Amount	Reporting Limit	Units
20. 1,2-Dichloropropane	ND	10.0	ug/kg
21. Cis-1,3 Dichloropropylene	ND	10.0	ug/kg
22. Trans-1,3-Dichloropropylene	ND	10.0	ug/kg
23. 1,1,2,2-Tetrachloroethane	ND	10.0	ug/kg
24. Tetrachloroethylene	330	10.0	ug/kg
25. 1,1,1-Trichloroethane	ND	10.0	ug/kg
26. 1,1,2-Trichloroethane	ND	10.0	ug/kg
27. Trichloroethylene	97	10.0	ug/kg
28. Trichlorofluoromethane	ND	10.0	ug/kg
29. Vinyl Chloride	30	10.0	ug/kg

Surrogate % Recovery Bromochloromethane =	128%
Surrogate % Recovery 2-Bromo-1-chloropropane =	108%
Surrogate % Recovery 1,4-Dichlorobutane =	111%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g= micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Sparger Technology, Inc.
With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8010 GC Analysis Report
Matrix Control Spike (MS) and Matrix Spike Duplicate (MSD)

Attention:	Ms. Madeline Wall CH2M Hill 1111 Broadway, Suite 1200 Oakland, CA 94607	Date Sampled: Date Received: Date Analyzed:	Sep. 9, 1994 Sep. 9, 1994 Sep. 9, 1994
Project #:	BAE28830.P4.ZZ	Project Name:	Del Monte Plant 35
Client ID:	SB-8 MS SB-8 MSD	LAB ID:	STM94-09-030A MS STM94-09-030A MSD
Matrix:	Soil	Dilution:	

UNITS = ug/kg

Compound	Sample Conc	Spike (ppb) Added	Spike Result	Dup. Result	Spike % Rec	Dup. % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	ND	40	39	40	98%	100%	3%	22	59-172
Trichloroethene	18	40	50	50	80%	80%	0%	21	60-133
Chlorobenzene	ND	40	45	42	113%	105%	7%	21	66-142

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm= parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

R. L. James, Principal Chemist

Sep 9, 1994
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

SPARGER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112 Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD Pg 1 of 2

SPARGER TECHNOLOGY ANALYTICAL MOBILE LABORATORY
3100 Fite Circle - Suite 108
Sacramento, CA 95827

087M

STAL Invoice Number:

Company: CH2M HILL
Phone: (510) 251-2888 x2189
Project Manager: M. Wall
FAX:

Report Address:
Billing Name & Address:

ANALYSIS REQUEST

Project Name: Del Monte Plant 35
Project/Job #: BAE28830.P5
Project Location: Emeryville
P.O. #:

REMARKS:

WET (STLC)
TCLP
Total

SAMPLE ID	Sampling: Date	Sampling: Time	Container: 40 mL VOA	Container: Brass Sleeve	Container: 1 L amber bottle	Container: 250 mL Plastic	Container: Other 8oz glass jar (5) Plastic containers	Preservative Used: HCl/HNO3/ICE	Preservative Used: None	Preservative Used: Other:	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	TCLP: BTEX (602/8020)/503.1	TCLP: BTEX/TPHgas (602/8020/8015)	TCLP: TPHdiesel/TPHmotor oil/kerosene(8015)	TCLP: EPA 601/8010/502.2/504	TCLP: EPA 602/8020	TCLP: EPA 608/8080 (Pesticides)/505/508	TCLP: EPA 608/8080 (PCB's)	TCLP: EPA 624/8240/524.2	TCLP: EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI	Total: CAM-17 Metals	Total: CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Total: Lead	TAT: Standard	TAT: Rush Services (72hr / 48hr / 24hr / 12hr)	TAT: Holiday/Weekend Rush
SS-1B	9/9/94	9:30					X		X			X					X	X															
SS-1G	9/9/94	9:30					X		X			X					X	X															
SB-1	9/9/94	9:40					X		X			X					X	X															
SA-3	9/9/94	10:20					✓		X			X					X	X															
SB-4	9/9/94	1050					✓		X			X					X	X															
SA-5	9/9/94	1100					✓		X			X					X	X															
SA-6 19	9/9/94	1117					✓		X			X					X	X															
SB-6 21	9/9/94	1200					✓		X			X					X	✓															
SA-7 23	9/9/94	1315					✓		X			X					X	X															
QT-1 25	9/9/94	1320					X		X			X					X	X															

Relinquished by:	Received by:	Relinquished by:	Received by:
M Wall			
Date: 9/9/94 Time: 9:42	Date: 9/9/94 Time: 15:30	Date: Time:	Date: Time:

SPARGER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112 Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

pg 2 of 2

SPARGER TECHNOLOGY ANALYTICAL MOBILE LABORATORY
3100 Fite Circle - Suite 108
Sacramento, CA 95827
087M

STAL Invoice Number:

Company: CH2M HILL Phone: (510) 251-2426

Project Manager: MADELINE WALL FAX:

Report Address: 1111 BROADWAY, SUITE 1200 OAKLAND, CA

Billing Name & Address:

Project Name: DEL MONTE PLANT 35

Project/Job #: BAE 288 30. PA. 22

Project Location: EMERYVILLE, CA

P.O. #:

REMARKS:

ANALYSIS REQUEST

WET (STLC)

TCLP

SAMPLE ID	Sampling: Date	Sampling: Time	Container: 40 mL VOA	Container: Brass Sleeve	Container: 1 L amber bottle	Container: 250 mL Plastic	Container: Other:	Preservative Used: HCl/HNO3/ICE	Preservative Used: None	Preservative Used: Other:	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	TCLP: BTEX (602/8020)/503.1	TCLP: BTEX/TPHgas (602/8020/8015)	TCLP: TPHdiesel/TPHmotor oil/kerosene(8015)	TCLP: EPA 601/8010/502.2/504	TCLP: EPA 602/8020	TCLP: EPA 608/8080 (Pesticides)/505/508	TCLP: EPA 608/8080 (PCB's)	TCLP: EPA 624/8240/524.2	TCLP: EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI	Total: CAM-17 Metals	Total: CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Total: Lead	TAT: Standard	TAT: Rush Services (72hr / 48hr / 24hr / 12hr)	TAT: Holiday/Weekend Rush
SB-7 27	9/9/94	1345					X Plastic		X			X					X	X															
SB-8 29	9/9/94	1400					X		X			X					X	X															
SP-N 31	9/9/94	1520					X		X			X					X	X															
SP-S 33	9/9/94	1525					X		X			X					X	X															

Relinquished by: Keith F. Gally
Date: 9/9/94 Time: 1610

Received by: Raymond Lanier
Date: 9/9/94 Time: 1611

Relinquished by:
Date: Time:

Received by:
Date: Time:

6.8.1

CHROMALAB, INC.

Environmental Services (SDB)

September 22, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: 11 samples for Gasoline and BTEX analysis.

Matrix: SOIL
Sampled: September 16, 1994 *Run#:* 3925 *Analyzed:* September 21, 1994
Method: EPA 5030/8015M/8020

Spl #	CLIENT SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
63052	ST-1-1/2/3/4	N.D.	N.D.	N.D.	N.D.	N.D.
63053	ST-2-1/2/3/4	1.3	N.D.	N.D.	N.D.	5.7
63054	ST-3-1/2/3/4	17	N.D.	N.D.	14	28
63055	ST-4-1/2/3/4	N.D.	N.D.	N.D.	N.D.	N.D.
63056	ST-5-1/2/3/4	3.5	N.D.	N.D.	N.D.	8.3
63057	ST-6-1/2/3/4	N.D.	N.D.	N.D.	N.D.	N.D.
63058	ST-7-1/2/3/4	1.4	N.D.	N.D.	N.D.	N.D.
63059	ST-8-1/2/3/4	N.D.	N.D.	N.D.	N.D.	N.D.
63060	ST-9-1/2/3/4	11	N.D.	N.D.	8.8	19
63061	ST-10-1/2/3/4	8.6	N.D.	N.D.	8.7	18
63062	ST-11-1/2/3/4	2.0	N.D.	N.D.	N.D.	N.D.
Reporting Limits		1.0	5.0	5.0	5.0	5.0
Blank Result		N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		107	95	97	94	95

Billy Thach
Chemist

Ali Kharrazi
Organic Manager

GC1

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Federal ID #68-0140157

QC BILLY 20:40:53

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: Eleven samples for TEPH analysis

Matrix: SOIL *Extracted:* September 20, 1994
Sampled: September 16, 1994 *Analyzed:* September 20-21, 1994
Method: 3550/8015

Sample #	Client Sample ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
63052	ST-1-1,2,3,4	3.8	N.D.	62
63053	ST-2-1,2,3,4	10	N.D.	140
63054	ST-3-1,2,3,4	130	N.D.	240
63055	ST-4-1,2,3,4	30	N.D.	150
63056	ST-5-1,2,3,4	17	N.D.	100
63057	ST-6-1,2,3,4	3.0	N.D.	160
63058	ST-7-1,2,3,4	N.D.	N.D.	58
63059	ST-8-1,2,3,4	14	N.D.	94
63060	ST-9-1,2,3,4	200	N.D.[a]	250
63061	ST-10-1,2,3,4	39	N.D.	170
63062	ST-11-1,2,3,4	12	N.D.	50

a - Reporting limit equals 5.0 mg/Kg due to dilution.

Blank	N.D.	N.D.	N.D.
Spike Recovery	----	106%	----
Dup Spike Recovery	----	82%	----
Reporting Limit	1.0	1.0	10

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Ali Kharrazi
Organic Manager

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CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-11-1/2/3/4**
Spl#: 63062 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	20	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-1-1/2/3/4**
Spl#: 63052 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

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CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-2-1/2/3/4**
Spl#: 63053 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	7.1	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	59	40	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

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Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-3-1/2/3/4**
Spl#: 63054 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	27	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	59	45	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	640	45	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-4-1/2/3/4**
Spl#: 63055 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	8.6	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	65	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-5-1/2/3/4**
Spl#: 63056 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	5.7	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	20	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	220	45	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-6-1/2/3/4**
Spl#: 63057 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	5.2	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-7-1/2/3/4**
Spl#: 63058 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	23	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	30	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	300	45	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-8-1/2/3/4**
Spl#: 63059 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	6.3	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-9-1/2/3/4**
Spl#: 63060 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	13	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Khafrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 23, 1994 *Submission #:* 9409242

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-10-1/2/3/4**
Spl#: 63061 *Matrix:* SOIL
Sampled: September 16, 1994 *Run#:* 3964 *Analyzed:* September 21, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	89
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	7.4	5.0	N.D.	109
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	350	47	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	110
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

SUBM #: 9409242
CLIENT: CH2
DUE: 09/23/94
REF #:18437

77
63062

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # BAE28830.05.22
Purchase Order #
Project Name: Del Monte 35
Company Name
Project Manager & Phone #: Mr. [ ] Ms. [X] Wall 251-2888
Report Copy to: X2189
Requested Completion Date: Standard 5 day
Sampling Requirements: NOWA NPDES RCRA OTHER
Sample Disposal: Dispose Return

LAB TEST CODES
SHADED AREA - FOR LAB USE ONLY
Lab 1 # Lab 2 #
Quote # Kit Request #
Project #
No. of Samples Page of
COC Rec Login LIMS Ver Ack Sent

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH Gas/BTEX	TPH Diesel/Kerosene/MO.	REMARKS	LAB 1 ID	LAB 2 ID
9/16	12:50				X	ST-1-1	1	X	X	X	Composite in lab		
	12:54					ST-1-2	1						
	12:57					ST-1-3	1						
	1:08					ST-1-4	1						
	1:05					ST-2-1	1				composite in lab		
	1:08					ST-2-2	1	X	X	X			
	1:10					ST-2-3	1						
	1:12					ST-2-4	1						
	1:15					ST-3-1					composite in lab		
	1:18					ST-3-2		X	X	X			
	1:20					ST-3-3							

Sampled By & Title (Please sign and print name): M Wall Proj Mngr — Date/Time: 9/16/94 3:40
Received By (Please sign and print name): P. Marcou — Date/Time: 9/16/94 1655
Received By (Please sign and print name) — Date/Time
Received By (Please sign and print name) — Date/Time
Work Authorized By (Please sign and print name)

Relinquished By (Please sign and print name): M Wall — Date/Time: 9/16/94 9:52
Relinquished By (Please sign and print name) — Date/Time
Relinquished By (Please sign and print name) — Date/Time
Shipped Via: UPS BUS Fed-Ex Hand Other
Shipping #

HAZWRAP/NEESA: Y N
QC Level: 1 2 3 Other:
COC Rec ICE
Ana Req TEMP
Cust Seal Ph

Remarks: Samples received good cond cold 9-16-94 BM

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client

9409242 CR # 18437
pg 2/5

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # BAE 28830.P5.ZZ | Purchase Order #

Project Name: Del Monte 35

Company Name:

Project Manager & Phone #: Mr. [ ] Ms. [ ] Dr. [ ] Wall 251-2888 X2189

Report Copy to:

Requested Completion Date: Standard 5 day

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☐ Return ☐

LAB TEST CODES

SHADED AREA - FOR LAB USE ONLY: Lab 1 # | Lab 2 # | Quote # | Kit Request # | Project | No. of Samples | Page | of | COC Rec | Login | UMS Ver | Acct Code

ANALYSES REQUESTED: 8010 | TPH Gas/BTEX | TPH Diesel/Kinosorb/M.O

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH Gas/BTEX	TPH Diesel/Kinosorb/M.O	REMARKS	LAB 1 ID	LAB 2 ID
9/16	1:24				X	ST-3-4	1				composite with ST Bs on page 1		
	1:30					ST-4-1	1						
	1:33					ST-4-2	1	X	X	X	composite to lab		
	1:36					ST-4-3	1						
	1:40					ST-4-4	1						
	1:47					ST-5-1	1						
	1:50					ST-5-2	1	X	X	X	composite to lab		
	1:53					ST-5-3	1						
	1:58					ST-5-4	1						
	2:01					ST-6-1	1						
↓	2:05				↓	ST-6-3	1	X	X	X	composite see pg 3		

Sampled By & Title (Please sign and print name): M Wall Proj Mngr	Date/Time: 9/16/94 3:40	Relinquished By (Please sign and print name): M Wall	Date/Time: 9/16/94 4:50
Received By (Please sign and print name): E Ward / D Morrow	Date/Time: 9/16/94 1656	Relinquished By (Please sign and print name):	Date/Time:
Received By (Please sign and print name):	Date/Time:	Relinquished By (Please sign and print name):	Date/Time:
Received By (Please sign and print name):	Date/Time:	Shipped Via: UPS BUS Fed-Ex Hand Other ____	Shipping #:
Work Authorized By (Please sign and print name):	Remarks: [redacted]		

HAZWRAP NEESA: Y N | QC Level: 1 2 3 Other: ____ | COC Rec | ICE | Ana Req | TEMP | Cust Seal | Ph

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: [illegible] LAB Yellow - LAB Pink - Client

9409242 EP #18951

Pg 3/5

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project #: BAE 28830 P5.ZZ

Purchase Order #:

Project Name: Del Monte 35

Company Name:

Project Manager & Phone #: Mr. [ ] Ms [X] Dr. [ ] Wall 251-2855

Report Copy to: X2159

Requested Completion Date: Standard 5-day

Sampling Requirements: SDWA [ ] NPDES [ ] RCRA [ ] OTHER ____

Sample Disposal: Dispose [ ] Return [ ]

LAB TEST CODES

SHADED AREA - FOR LAB USE ONLY: Lab 1 # / Lab 2 # / Quote # / Kit Request # / Project # / No. of Samples / Page of / COC Rev / Login / LIMS Ver / Ack Gen

ANALYSES REQUESTED: 8010 | TPH Gas/BTEX | TPH Diesel/Kerosene/MO

Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH Gas/BTEX	TPH Diesel/Kerosene/MO	REMARKS	LAB 1 ID	LAB 2 ID
9/16	2:08				X	ST-6-3	1	see pg 2			Composite with ST-6 pg 2		
	2:12				X	ST-6-4	1						
	2:18				X	ST-7-1	1				Composite in lab		
	2:23				X	ST-7-2	1	X	X	X			
	2:26				X	ST-7-3	1						
	2:29				X	ST-7-4	1						
	2:36				X	ST-8-1	1				Composite in lab		
	2:40				X	ST-8-2	1	X	X	X			
	2:42				X	ST-8-3	1						
	2:47				X	ST-8-4	1						

Sampled By & Title (Please sign and print name): M Wall Proj Mgr — Date/Time: 9/16/94 3:40

Relinquished By (Please sign and print name): M Wall — Date/Time: 9/16/94 4:50

Received By (Please sign and print name): [signature] R. Horman — Date/Time: 9-16-94 1655

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

HAZWRAP/NESSA: Y N — QC Level: 1 2 3 Other: — COC Rec — ICE — Ana Req — TEMP — Cust Seal — Ph

Shipped Via: UPS BUS Fed-Ex Hand Other ____ — Shipping #

Work Authorized By (Please sign and print name):

Remarks: Samples received good cond cold 9-16-94 [initials]

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client

940924 Σ CF #18437
pg 4/5

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # BOE28830.P5.ZZ
Purchase Order #

Project Name Del Monte 35

Company Name

Project Manager & Phone # Mr. [ ] Ms. [X] Dr. [ ] Wall 251-2888 X2189
Report Copy to:

Requested Completion Date: Standard 5 day
Sampling Requirements: SDWA [ ] NPDES [ ] RCRA [ ] OTHER ____
Sample Disposal: Dispose [ ] Return [ ]

LAB TEST CODES

SHADED AREA - FOR LAB USE ONLY: Lab 1 # | Lab 2 # | Quote # | Kit Request # | Project | No. of Samples | Page of | COC Rev | Login | LIMS Ver | Ack Gen

ANALYSES REQUESTED: 8010 | TPH Gas/BTEX | TPH Diesel/Kerosene/MO

Date	Time	COMP	GARB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH Gas/BTEX	TPH Diesel/Kerosene/MO	REMARKS	LAB 1 ID	LAB 2 ID
9/16	2:55				X	ST-9-1	1	X	X	X	Composite in lab		
	3:00				X	ST-9-2	1						
	3:03				X	ST-9-3	1						
	3:06				X	ST-9-4	1						
	3:10				X	ST-10-1	1	X	X	X	composite in lab		
	3:13				X	ST-10-2	1						
	3:16				X	ST-10-3	1						
	3:18				X	ST-10-4	1						
	3:26				X	ST-11-1	1	X	X	X	Composite in lab see P5		
	3:29				X	ST-11-2	1						
	3:32				X	ST-11-3	1						

Sampled By & Title (Please sign and print name) M Wall Proj Mngr — **Date/Time** 9/16/94 3:40
Relinquished By (Please sign and print name) M Wall — **Date/Time** 9/16/94 4:50
Received By (Please sign and print name) [illegible signature] — **Date/Time** 9-16-94 1655
Relinquished By (Please sign and print name) — **Date/Time**
Received By (Please sign and print name) — **Date/Time**
Relinquished By (Please sign and print name) — **Date/Time**
Received By (Please sign and print name) — **Date/Time**
Shipped Via UPS BUS Fed-Ex Hand Other ______ **Shipping #**
Work Authorized By (Please sign and print name)
Remarks Samples [illegible] comp [illegible] until all [illegible]

HAZWRAP/NESSA: Y N | QC Level: 1 2 3 Other | COC Rec | ICE | Ana Req | TEMP | Cust Seal | Ph

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB Yellow - LAB Pink - Client

rel+ 18457

940924 pg 5/5

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project #: BAE28830P5.ZZ

Purchase Order #:

Project Name: Del Monte

Company Name:

Project Manager & Phone #: Mr. [ ] Ms. [x] Dr. [ ] Wall 251-2888

Report Copy to: X2189

Requested Completion Date: Standard 5-day

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☐ Return ☐

LAB TEST CODES

ANALYSES REQUESTED

SHADED AREA - FOR LAB USE ONLY

Lab 1 # | Lab 2 # | Quote # | Kit Request # | Project # | No. of Samples | Page | of | COC Rev | Login | LIMS Ver | Ack Gen

Sampling Date	Sampling Time	Type COMP	Type GARB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	ANALYSES REQUESTED	REMARKS	LAB 1 ID	LAB 2 ID
9/16	3:35				X	ST-11-4	1	composite with ST-11s on pg 4			

Sampled By & Title (Please sign and print name): M Wall Proj Manag — Date/Time: 9/16/94 3:40

Relinquished By (Please sign and print name): M Wall — Date/Time: 9/16/94 4:50

Received By (Please sign and print name): [signature] — Date/Time: 9-16-94 4:55

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other: ____

COC Rec | ICE

Ana Req | TEMP

Cust Seal | Ph

Shipped Via: UPS BUS Fed-Ex Hand Other ____

Shipping #

Work Authorized By (Please sign and print name):

Remarks: Samples received good cond cold 9-16-94 BM

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client

6.8J

CHROMALAB, INC.

Environmental Services (SDB)

September 9, 1994 *Submission #:* 9409112

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 *Project#:* BAE 28830.P4.ZZ
Received: September 9, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **GW-2** *Matrix:* WATER
Sampled: September 9, 1994 *Spl #:* 62205 *Run:* 3806 *Analyzed:* September 9, 1994
Method: EPA 8010 by 8260

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.50	N.D.	--
VINYL CHLORIDE	120	1.0	N.D.	--
BROMOMETHANE	N.D.	0.50	N.D.	--
CHLOROETHANE	N.D.	0.50	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--
1,1-DICHLOROETHENE	9.9	0.50	N.D.	106
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	32	0.50	N.D.	--
CIS-1,2-DICHLOROETHENE	290	1.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	150	1.0	N.D.	102
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	2200	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	101
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

M #[redacted]091
CLIENT: CH2
DUE: 09/09/94
REF #:18307

62205 ref # 18307

CH2M HILL QUALITY ANALYTIC

PUSH

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
888230.P4.ZZ	DEL MONTE PLANT 35

CLIENT NAME: DEL MONTE

PROJECT MANAGER: MADELINE WALL

COPY TO: KEITH GALLY

REQUESTED COMP. DATE: 24 HR. TAT

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

CLIENT ADDRESS AND PHONE NUMBER

FOR LAB USE ONLY
LAB#
LAB#
PROJECT NO.
ACK | VERIFIED
QUOTE# | BS
NO. OF SAMP | PG | OF

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	ANALYSES REQUESTED: CHLORINATED HYDROCARBONS 8010	LAB ID	REMARKS
	9/9/94	1030		X		GW-2	4	X		

SAMPLED BY AND TITLE: Keith Gally	DATE/TIME: 9/9/94 10:30	RELINQUISHED BY: Keith Gally	DATE/TIME: 9/9/94 10:40
RECEIVED BY:	DATE/TIME: 9-9-94 1030	RELINQUISHED BY:	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB:	DATE/TIME	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____	AIR BILL#

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC | ICE
ANA REQ | TEMP
CUST SEAL | Ph
SAMPLE COND.

REMARKS

ENTERED INTO LIMS ____ COC REVIEWED ____

6.8.1

CHROMALAB, INC.

Environmental Services (SDB)

September 19, 1994 *Submission #:* 9409230

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: 1 sample for Gasoline and BTEX analysis.

Matrix: WATER
Sampled: September 16, 1994 *Lab Run#:* 3876 *Analyzed:* September 16, 1994
Method: EPA 5030/8015M/602

Spl # CLIENT SMPL ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
63013 GW-3-N/M/S	N.D.	N.D.	N.D.	N.D.	0.80
Reporting Limits	0.05	0.5	0.5	0.5	0.5
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	117	97	97	96	97

ChromaLab, Inc.

Billy Thach
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 19, 1994 *Submission #:* 9409230

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: GW-3-N/M/S *Matrix:* WATER
Sampled: September 16, 1994 *Spl#:* 63013 *Run:* 3882 *Analyzed:* September 16, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	42	13	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	1.1	0.5	N.D.	107
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	14	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	140	13	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	100	13	N.D.	108
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	460	25	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	115
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	0.5	N.D.	--

ChromaLab, Inc.

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

September 20, 1994 *Submission #:* 9409230

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE 35 *Project#:* BAE28830.P5.ZZ
Received: September 16, 1994

re: One sample for TEPH analysis

Matrix: ~~SOIL~~ WATER *Extracted:* September 19, 1994
Sampled: September 16, 1994 *Analyzed:* September 19, 1994
Method: 3550/8015

Sample #	Client Sample ID	Kerosene (mg/~~Kg~~)L	Diesel (mg/~~Kg~~)L	Motor Oil (mg/~~Kg~~)L
63013	GW-3-N/M/S	N.D.	N.D.	N.D.
Blank		N.D.	N.D.	N.D.
Spike Recovery		----	70%	----
Dup Spike Recovery		----	80%	----
Reporting Limit		1.0	1.0	10

ChromaLab, Inc.

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi
Organic Manager

sc

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CH2M Hill

QAL QUALITY ANALYTICAL LABORATORIES, INC.

RUSH

SUBM #: 9409230
CLIENT: CH2
DUE: 09/23/94
REF #:18425

13

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PE

Project #: BAE28830.P5.ZZ
Purchase Order #:

Project Name: Del Monte 35

Company Name:

Project Manager & Phone #: Mr. [ ] Ms. [X] Dr. [ ] Wall 251-2888 X2189

Report Copy to:

Requested Completion Date: 24 hr TAT (9/19/94)

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☐ Return ☐

LAB TEST CODES

SHADED AREA - FOR LAB USE ONLY

ANALYSES REQUESTED

Date	Time	COMP	GARB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH Gas/BTEX	TPH Diesel/Kerosene/M.O.	REMARKS	LAB 1 ID	LAB 2 ID
9/16	4:05		X	X		GW-3-N	4	X	X	X	Composite		
9/16	4:15		X	X		GW-3-M	4						
9/16			X	X		GW-3-S	4						

Sampled By & Title (Please sign and print name): MWall Proj Mngr — Date/Time: 9/16/94 4:40

Relinquished By (Please sign and print name): MG Wall — Date/Time: 9/16/94 4:4

Received By (Please sign and print name): B. Moccou — Date/Time: 9-16-94 1644

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

Relinquished By (Please sign and print name): — Date/Time:

Received By (Please sign and print name): — Date/Time:

Shipped Via: UPS BUS Fed-Ex Hand Other ____ Shipping #

Work Authorized By (Please sign and print name):

Remarks:

HAZWRAP/NESSA: Y N; QC Level; COC Rec; Ice; Ana Req; Temp; Cust Seal; Ph

Instructions and Agreement Provisions on Reverse Side — samples received cold and (...) DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client

CHROMALAB, INC.

Environmental Services (SDB)

November 15, 1994 *Submission #:* 9411106

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 *Project#:* BAE-28830.P5.ZZ
Received: November 9, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: P-1 (GW-4)
Spl#: 69330 *Matrix:* WATER
Sampled: November 8, 1994 *Run#:* 4559 *Analyzed:* November 10, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	91
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	0.8	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	11	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	12	0.5	N.D.	114
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	120	10	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	118
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	0.5	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 15, 1994 *Submission #:* 9411106

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 *Project#:* BAE-28830.P5.ZZ
Received: November 9, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **BT-1,BT-2**
Spl#: 69329 *Matrix:* WATER
Sampled: November 8, 1994 *Run#:* 4559 *Analyzed:* November 10, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	91
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	8.7	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROETHENE	10	0.5	N.D.	114
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	51	2.5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	118
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	0.5	N.D.	--

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 16, 1994 *Submission #:* 9411106

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 *Project#:* BAE-28830.P5.ZZ
Received: November 9, 1994

re: One composite sample for TEPH analysis

Matrix: WATER *Extracted:* November 10, 1994
Sampled: November 8, 1994 *Analyzed:* November 15, 1994
Method: 3510/8015

Sample #	Client Sample ID	Kerosene (µg/L)	Diesel (µg/L)	Motor Oil (mg/L)
69329	BT-1,BT-2	N.D.	180	N.D.
Blank		N.D.	N.D.	N.D.
Spike Recovery		----	111%	----
Dup Spike Recovery		----	108%	----
Reporting Limit		50	50	0.5

ChromaLab, Inc.

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi
Organic Manager

cc

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 16, 1994 *Submission #:* 9411106

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 *Project#:* BAE-28830.P5.ZZ
Received: November 9, 1994

re: One sample for BTEX analysis

Matrix: WATER
Sampled: November 8, 1994 *Analyzed:* November 14, 1994
Method: EPA 5030/M.8015/602

RESULTS:

Sample #	Client Sample I.D.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
66329	BT-1/BT-2	2.2	N.D.	2.5	1.2
Blank		N.D.	N.D.	N.D.	N.D.
Blank Spike Recovery		103%	101%	101%	110%
Reporting Limit		0.5	0.5	0.5	0.5

ChromaLab, Inc.

Jack Kelly
Analytical Chemist

Ali Kharrazi
Organic Manager

at

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 28, 1994 ChromaLab File No.: 9411106

CH2M HILL OAKLAND

Attn: Madeline Wall

RE: One water samples for Gasoline analysis

Project Name: DEL MONTE PLANT 35
Project Number: BAE-28830.P5.ZZ
Date Sampled: November 8, 1994 Date Submitted: November 9, 1994
Date Analyzed: November 14, 1994

RESULTS:

Sample #	Client Sample I.D.	Gasoline (mg/L)
66329	BT-1/BT-2	0.13
BLANK		N.D.
SPIKE RECOVERY		
DETECTION LIMIT		0.5
METHOD OF ANALYSIS		5030/8015

ChromaLab, Inc.

Jack Kelly
Analytical Chemist

Ali Kharrazi
Organic Manager

kv

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

SDG# 2411106
CLIENT: CH2
DUE: 11/16/94
REF #:19261

106/69329-69330

19261

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # BAE28830 PO 77

Purchase Order #

Project Name Del Monte Plant 35

Company Name

Project Manager or Contact & Phone # Madeline Wall (510) 251-2888 x 2189

Report Copy to:

Requested Completion Date: Std 5-day TAT

Site ID

Sample Disposal: Dispose ☐ Return ☐

☐ LGN
One Innovation Drive, Suite C
Alachua, FL 32615-9586
(904) 462-3050 FAX (904) 462-1670

☐ LRD
5090 Caterpillar Road
Redding, CA 96003-1412
(916) 244-5227 FAX (916) 244-4109

☐ LMG
2567 Fairlane Drive
Montgomery, AL 36116-1622
(205) 271-2440 FAX (205) 271-3428

☐ LKW
Canviro Analytical Laboratories, Inc.
50 Bathurst, Unit 12
Waterloo, Ontario, Canada N2V 2C5
(519) 747-2575 FAX (519) 747-3806

THIS AREA FOR LAB USE ONLY

Lab #	Page	of
Client Service	Price Source A P Q S	
Acct Code	Test Group	
Project Code	Ack. Gen.	
LIMS Ver	Login	Mult.
COC Review		

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	QC ID (3 CHAR)	# OF CONTAINERS	8010	TPH gas/BTEX	TEPH	SAMPLE REMARKS	LAB 1 ID	LAB 2 ID
11/8	4:15		X			BT-1		8	X	X	X	Composite BT-1 & BT-2 into one sample for analysis		
11/8	4:25		X			BT-2		8	X	X	X			
11/8	4:35		X			P-1		3	X					

Sampled By & Title (Please sign and print name) Ana C Demorest Ana Demorest — **Date/Time** 11/8 4:45

Received By (Please sign and print name) Madeline Wall Madeline Wall — **Date/Time** 11/9 9:05

Received By (Please sign and print name) — **Date/Time**

Received By (Please sign and print name) — **Date/Time**

Relinquished By (Please sign and print name) Ana C Demorest Ana Demorest — **Date/Time** 11/9 9:05

Relinquished By (Please sign and print name) Madeline Wall — **Date/Time** 11/9 4:05

Relinquished By (Please sign and print name) — **Date/Time**

Shipped Via UPS Fed-Ex Other _____ — **Shipping #**

HAZWRAP/NESSA: Y N

EDATA: Y N

QC LEVEL 1 2 3 OTHER _____

pH **Ice**

Custody Seal **Temp**

Batch Remarks:

Samples received good cond cold 11-9-94 sn

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB. Yellow - LAB. Pink - Client

CHROMALAB, INC.

Environmental Services (SDB)

December 1, 1994 *Submission #:* 9411295

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DELMONTE 35 *Project#:* BAE28830.P5.ZZ
Received: November 23, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-3-1,2,3,4**
Spl#: 70704 *Matrix:* SOIL
Sampled: November 22, 1994 *Run#:* 4700 *Analyzed:* December 1, 1994
Method: EPA 8010 by 8260

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	10	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	94
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Oleg Nemtsov
Chemist

Ali Kharrazi
Organic Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 1, 1994 *Submission #:* 9411295

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DELMONTE 35 *Project#:* BAE28830.P5.ZZ
Received: November 23, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-5-1,2,3,4**
Spl#: 70705 *Matrix:* SOIL
Sampled: November 22, 1994 *Run#:* 4700 *Analyzed:* December 1, 1994
Method: EPA 8010 by 8260

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	5.0	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	94
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Oleg Nemtsov
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 1, 1994 *Submission #:* 9411295

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DELMONTE 35 *Project#:* BAE28830.P5.ZZ
Received: November 23, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample ID: **ST-9-1,2,3,4**
Spl#: 70706 *Matrix:* SOIL
Sampled: November 22, 1994 *Run#:* 4700 *Analyzed:* December 1, 1994
Method: EPA 8010 by 8260

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107
METHYLENE CHLORIDE	N.D.	25	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	15	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	94
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Oleg Nemtsov
Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 1, 1994 *Submission #:* 9411295

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DELMONTE 35 *Project#:* BAE28830.P5.ZZ
Received: November 23, 1994

re: Three samples for TEPH analysis

Matrix: SOIL *Extracted:* November 30, 1994
Sampled: November 22, 1994 *Analyzed:* December 1, 1994
Method: 3550/8015

Sample #	Client Sample ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
70704	ST-3-1,2,3,4	N.D.	6.5	44
70705	ST-5-1,2,3,4	N.D.	1.6	25
70706	ST-9-1,2,3,4	N.D.[a]	21	160

(a) Reporting limit raised to 10 mg/Kg due to dilution.

Blank	N.D.	N.D.	N.D.
Spike Recovery	----	116%	----
Dup Spike Recovery	----	102%	----
Reporting Limit	1.0	1.0	10

ChromaLab, Inc.

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi
Organic Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 1, 1994 *Submission #:* 9411295

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DELMONTE 35 *Project#:* BAE28830.P5.ZZ
Received: November 23, 1994

re: 3 samples for Gasoline and BTEX analysis.

Matrix: SOIL
Sampled: November 22, 1994 *Run#:* 4705 *Analyzed:* December 1, 1994
Method: EPA 5030/8015M/8020

Spl # CLIENT SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
70704 ST-3-1,2,3,4	N.D.	N.D.	N.D.	N.D.	N.D.
70705 ST-5-1,2,3,4	N.D.	N.D.	N.D.	N.D.	N.D.
70706 ST-9-1,2,3,4	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits	1.0	5.0	5.0	5.0	5.0
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	85	92	102	106	108

Jack Kelly
Chemist

Ali Kharrazi
Organic Manager

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

295/70704-70706

SUBM #: 9411295
CLIENT: CH2
DUE: 12/02/94
REF #:19465

QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES 19465

Project # BAE28830.P5.ZZ.00.00.00
Purchase Order #
Project Name: DEL MONTE 35
Company Name: CH2M HILL / SFO
Project Manager & Phone # Mr. [] Ms. [X] Dr. []: MADALINE WALL 510-251-2888 x289
Report Copy to:
Requested Completion Date: STANDARD 5 DAY
Sampling Requirements: SDWA [] NPDES [] RCRA [] OTHER []
Sample Disposal: Dispose [] Return []

LAB TEST CODES
SHADED AREA - FOR LAB USE ONLY: Lab 1 # / Lab 2 # / Quote # / Kit Request # / Project # / No. of Samples / Page / of / COC Rec / Login / LIMS Ver / Ack Sent

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH GAS/BTEX	TPH DIESEL (EXTRACTABLE)	REMARKS	LAB 1 ID	LAB 2 ID
11/22/94	1010				X	ST-3-1	1	X	X	X	composite in lab		
	1005					ST-3-2	1						
	0959					ST-3-3	1						
	0945					ST-3-4	1						
	1095					ST-5-1	1	X	X	X	composite in lab		
	1037					ST-5-2	1						
	1030					ST-5-3	1						
	1022					ST-5-4	1						
	1135					ST-9-1	1	X	X	X	composite in lab Include ST-9-1		
	1122					ST-9-2	1						
	1115					ST-9-3	1						

continued

Sampled By & Title (Please sign and print name): MARTY MEDINA — Date/Time: 11/22/94 11:30
Relinquished By (Please sign and print name): MARTY MEDINA — Date/Time: 11/22/94
Received By (Please sign and print name): — Date/Time: 11-25-94 1203
Relinquished By (Please sign and print name): — Date/Time:
Received By (Please sign and print name): — Date/Time:
Relinquished By (Please sign and print name): — Date/Time:
Received By (Please sign and print name): — Date/Time:
Shipped Via: UPS BUS Fed-Ex Hand Other _____ — Shipping #:
Work Authorized By (Please sign and print name):
Remarks:

HAZWRAP/NEESA: Y N
QC Level: 1 2 3 Other: _____
COC Rec: ICE:
Ana Req: TEMP:
Cust Seal: Ph:

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB Yellow - LAB Pink - Client

9411295

19465

CH2MHILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project # BAE288330.PS.ZZ	Purchase Order #
Project Name: DEL MONTE 35	
Company Name/CH2M HILL Office: CH2M HILL/SFO	
Project Manager & Phone # Mr. [ ] Ms. [X] MADALINE WALL Dr. [ ]	Report Copy to:
Requested Completion Date: STANDARD 5 DAY	Sampling Requirements: SDWA NPDES RCRA OTHER [ ] [ ] [ ] ___
Sample Disposal: Dispose [ ] Return [ ]	

LAB TEST CODES

SHADED AREA – FOR LAB USE ONLY

Lab 1 # | Lab 2 #

Quote # | Kit Request #

Project #

No. of Samples | Page | of

COC Rev | Login | LIMS Ver | Acct Gen

ANALYSES REQUESTED

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	8010	TPH GAS/BTEX	TPH DIESEL/KEROSENE/JP4	REMARKS	LAB 1 ID	LAB 2 ID
11/22/94	1107		✓		X	ST-9-4	X	J	see previous page		see previous page		

Sampled By & Title (Please sign and print name): MARTY MEDINA 11/22/94	Date/Time: 11:30	Relinquished By (Please sign and print name): MARTY MEDINA	Date/Time: 11/22/94	RAZWRAP/HESSA: Y N
Received By (Please sign and print name):	Date/Time: 11-23-94/1500	Relinquished By (Please sign and print name):	Date/Time:	QC Level: 1 2 3 Other: ___
Received By (Please sign and print name):	Date/Time:	Relinquished By (Please sign and print name):	Date/Time:	COC Rec: ICE; Arrs Req: TEMP; Cust Seal: Ph
Received By (Please sign and print name):	Date/Time:	Shipped Via: UPS BUS Fed-Ex (Hand) Other ___	Shipping #:	
Work Authorized By (Please sign and print name):	Remarks:			

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: ORIGINAL - LAB Yellow - LAB Pink - Client

RE[redacted] FOR[redacted]

Appendix C
Groundwater Flow Rate Calculations

MEMORANDUM CH2MHILL

TO: Madeline Wall

COPIES: Ana Demorest

FROM: Derrik Williams

DATE: November 18, 1994

SUBJECT: Del Monte Plant 35 Excavation Flow Rates

PROJECT: BAE28830.P5.ZZ

Pumping groundwater from an excavation on the east parcel of Del Monte Plant 35 has been proposed as a remedial measure for existing groundwater contamination. Potential pumping rates from the excavation were estimated by observing the recovery of water in the excavation after dewatering. The methodology and results are presented below.

Methodology

Water was pumped from the excavation on November 8, 1994. A constant pumping rate of approximately 100 gallons per minute (gpm) was maintained for approximately 4.5 hours, at which point the pump failed. The pump was replaced, and pumping began approximately 1 hour and 20 minutes after the pump broke. Pumping continued until the water level fell to the pump intakes. Water pumped from the excavation was piped to a baker tank, where it was sampled for organic compounds prior to treatment.

During pumping, water levels in the excavation were continuously monitored by a water level transducer and data logger. The total water level drop in the excavation due to pumping was approximately 4.22 feet. After pumping, water levels in the excavation were allowed to recover for approximately 12 hours. At the end of 12 hours, the data logger was removed from the excavation.

Results

Water levels in the excavation after pumping ceased are plotted on Figure 1. The water level rise follows an expected gradual curve.

Potential flow rates from the excavation were estimated by estimating the amount of water flowing into the excavation over discreet time periods. Flow rates were estimated by the following general method:

- A relationship between water elevation and water surface area in the excavation was estimated
- A relationship between the change in water elevation, the two calculated surface areas and the volume of water entering the excavation was estimated.
- The two relationships were applied to data collected from the recovery of water levels in the excavation following pumping. A volume of water entering the excavation over a known time period resulted from the two relationships
- The change in the volume of water was divided by the approporiate time period to calculate an average flow rate.

Relationship between elevation, surface area, and volume

The excavation is rectangular at the surface with sloping sides. The general excavation shape is one of an inverted pyramid. The water surface in the excavation covered approximately 1452 square feet before pumping (elevation -0.18). After pumping, the water surface covered approximately 813 square feet (water elevation -4.4).

Assuming the excavation sides follow a constant, linear slope, there is some linear relationship between the water elevation and the water surface area. Using the elevations and areas above, the following relationship was established:

$$A=(150)(e)+1479 \quad (1)$$

Where:
A = the water surface area
e = the water elevation as measured by the transducer

The volume of water between any two water elevations can be calculated with the following equation:

$$Volume=(\tfrac{1}{2})(\Delta e)(A_1+A_2) \quad (2)$$

Where:
Δe = elevation change in the water surface
A_1 = the initial water surface area
A_2 = the final water surface area

Flow rate calculations

Flow rates are calculated for two time periods. Data for the flow rate calculations are extracted from Figure 1.

The flow rate between 500 and 1000 minutes after pumping ceased was estimated from the data collected by the data logger. The water level after 500 minutes was -3.84 feet, and the water level after 1000 minutes was -3.41 feet. Applying equation one, these water levels correspond to water surface areas of 903 and 967 square feet, respectively. Applying equation two yields a total volume of 402 cubic feet (approximately 3000 gallons) of water entering the excavation between 500 and 1000 minutes after pumping ceased. Dividing the 3000 gallons by 500 minutes yields a flow rate of 6 gallons per minute.

The flow rate between 3000 and 3500 minutes was estimated from the extension of the recovery data shown on Figure 1. The estimated water level after 3000 minutes is -2.2 feet, and the estimated water level after 3500 minutes is -2.0 feet. Applying equation one, these water levels correspond to water surface areas of 1150.5 and 1179 square feet, respectively. Applying equation two yields a total volume of 226.5 cubic feet (approximately 1700 gallons) of water entering the excavation between 3000 and 3500 minutes after pumping ceased. Dividing the 1700 gallons by 500 minutes yields a flow rate of 3.4 gallons per minute.

Both of these flow rates are reasonable based on previous and ongoing pumping rates observed at the site. The obtainable pumping rate may fluctuate based on recharge from rainfall or the operation of other nearby extraction systems.

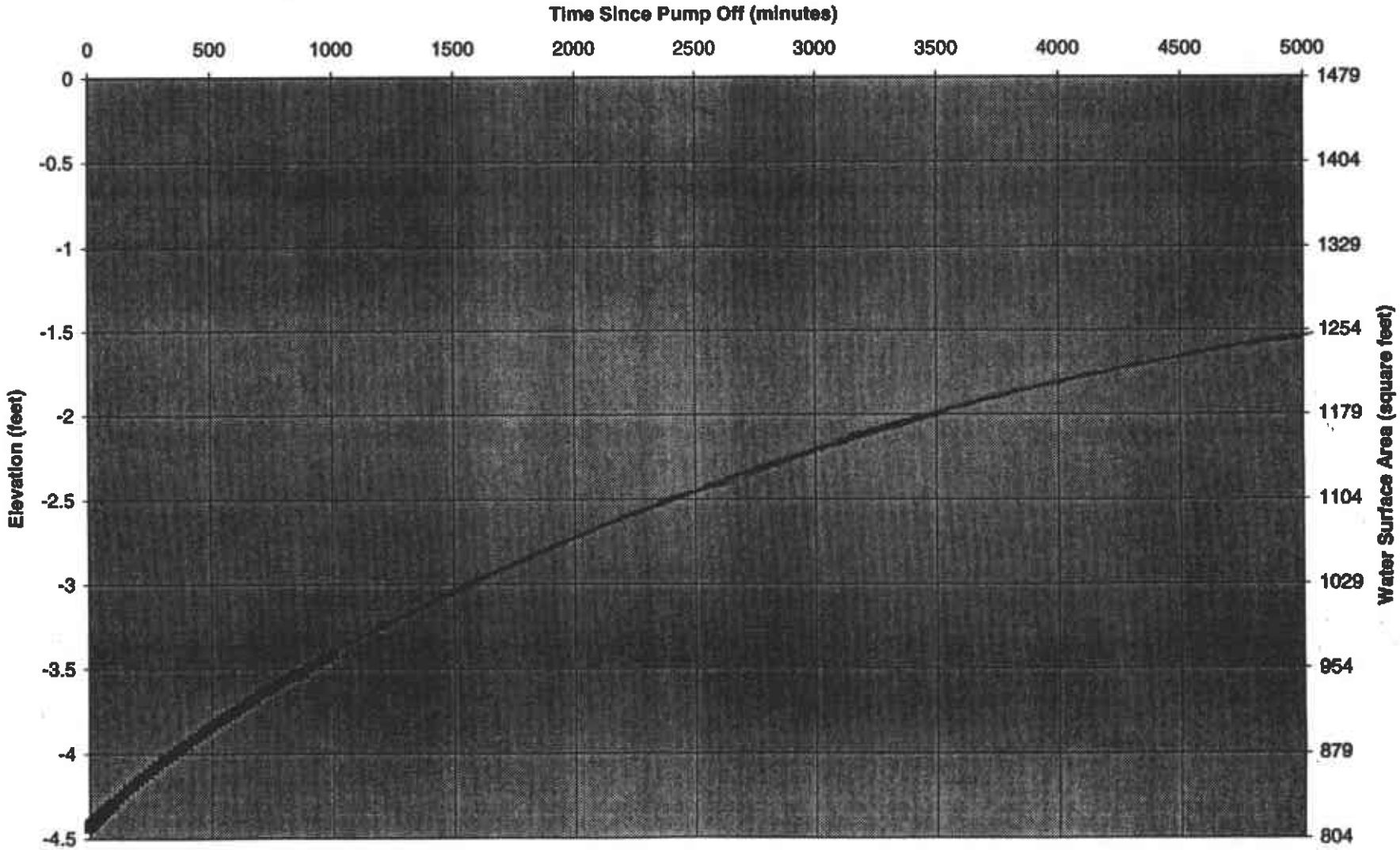

Figure 1
Water Level Recovery