## Supplemental Onsite Investigation Report for Del Monte Plant 35 4204 Hollis Street and 1250 Park Avenue Emeryville, California

Prepared for

**Del Monte Foods USA** 

Prepared by

**CH2M HILL** 

May 1994

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Section 1 Introduction



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May 9, 1994

BAE28830.P2.03

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Subject:

Supplemental Onsite Investigation Report, Del Monte Plant 35, Emeryville,

California

Enclosed for your review is a copy of the Supplemental Onsite Investigation Report for the Del Monte Plant 35 property located 4204 Hollis Street and 1250 Park Avenue. We look forward to discussing this report and the planned remediation activities for Plant 35 at the upcoming meeting this week.

If you have any questions or comments, please call us at (510) 251-2888, ext. 2118 (Bern) or ext. 2189 (Madeline).

Sincerely,

CH2M HILL

Bern Baumgartner Project Manager Madeline Wall Project Engineer

Madeling Wall

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## /beb

cc:

Mr. Steven Ronzone/Del Monte Mr. Thomas Bender/Del Monte

Mr. Soon Kim/Del Monte Mr. Mark Zemelman/Kaiser Mr. David Harnish/ENVIRON

## Section 1 Introduction

This report presents the results of the additional onsite soil and groundwater investigations conducted between February 23 and March 2, 1994 and on April 11 and 12, 1994, at Del Monte Plant 35 (Plant 35) located at 4204 Hollis Street and 1250 Park Avenue in Emeryville, California. The investigation was conducted according to the workplan submitted to the Alameda County Department of Environmental Health (ACDEH) and the Regional Water Quality Control Board (RWQCB) on February 16, 1994. This investigation consisted of collecting soil and/or groundwater samples from twenty-three locations on the Plant 35 property.

#### Purpose

The purpose of the investigation discussed in this report was to access the quality of the groundwater upgradient of sample location A-20-DM-06 where chlorinated hydrocarbons were detected in November 1993, to better determine the local subsurface stratigraphy, and to evaluate the quality of the soil in the vicinity of the groundwater collection pit.

### **Background**

Del Monte Plant 35 is located in an industrial area and was a food processing plant from the late 1920s through 1989. Plant 35 is located on approximately 13 acres in Emeryville, California.

Plant 35 is underlain by approximately 5 to 8 feet of fill which is composed primarily of clay containing gravel. Native silty clay extends from beneath the fill to a depth of approximately 15 to 20 feet below ground surface. Discontinuous lenses of sands and gravels have been encountered within the native silty clay. This silty clay zone is underlain with silty sand. Shallow groundwater exists beneath the property at a depth of approximately 7 to 11 feet below ground surface. Shallow groundwater generally flows in a southwesterly direction beneath Plant 35 as shown on the groundwater surface elevation map provided as Appendix A.

The shallow groundwater beneath the southwest corner of the Plant 35 property contains chlorinated hydrocarbons which originated from four 50-gallon underground tanks. The tanks and accessible soil were removed in 1989. During December 1992, Del Monte demolished a building that provided access to soil that could not be removed during the removal of the four 50-gallon tanks in 1989. During January 1993, Del Monte excavated approximately 750 cubic yards of soil from the former tank area and constructed a groundwater extraction and treatment (GET) system. The GET system was operated continuously from January to December 1993, and then restarted on March 8, 1994. Monitoring results

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indicate that the GET system has significantly reduced the levels of chlorinated hydrocarbons in the groundwater in the vicinity of the former tanks.

### Areas of Investigation

In October and November 1993, soil and groundwater was sampled and analyzed from many locations on the Plant 35 property. The results of that investigation are presented in the *Investigation Report for Del Monte Plant 35* (prepared by CH2M HILL, dated December, 1993). The results of the 1993 investigation led to recommendations for the additional site investigation activities that were addressed in this recent investigation. The onsite areas of interest for the supplemental investigation are summarized in Table 1 and shown on Figure 1. (Figures are located at the end of this report.)

Table 1 Onsite Areas of Interest Del Monte Plant 35, Emeryville, California						
Area	Activity					
Soil around existing groundwater collection pit	Investigate shallow soil for chlorinated hydrocarbons					
Soil at proposed groundwater extraction trench location, along western property boundary	Investigate subsurface soil for chlorinated hydrocarbons and collect additional information about subsurface soil stratigraphy					
Groundwater upgradient of sample location A20-DM-06 (beneath and just east and west of the Plant 35 Building)	Evaluate the groundwater quality upgradient of A20-DM-06 to assess the eastern edge of the groundwater containing chlorinated hydrocarbons and to locate a potential upgradient source of the chlorinated hydrocarbons					

## Soil Around Existing Groundwater Collection Pit

The ACDEH requested the collection and analysis of additional samples of in-place soil in the vicinity of the groundwater collection system. In accordance with this request, the February/March investigation included the collection and analysis of soil samples from six locations in the existing groundwater collection pit (see Figure 2).

## Soil at Proposed Groundwater Extraction Trench Location

To collect additional information about onsite subsurface soil stratigraphy, the February/March investigation included drilling three soil borings, B-1, B-2, and B-3, near the property edge along Hollis Street, as shown in Figure 2. Unsaturated soil samples

were collected from two of the borings and analyzed for chlorinated hydrocarbons to assess soil characteristics in the area of the proposed groundwater extraction trench.

## Groundwater Upgradient of A20-DM-06

The groundwater sample collected in November 1993 from borehole A20-DM-06 contained chlorinated hydrocarbon concentrations of 41  $\mu$ g/L of tetrachloroethene (PCE) and 21  $\mu$ g/L of trichloroethylene (TCE). To assess the eastern edge of the groundwater containing chlorinated hydrocarbons, the supplemental investigation conducted in February and March 1994 included collection of three groundwater grab samples, WH-1, WH-2, and WH-3, upgradient of A20-DM-06 (see Figure 1).

Based on analytical results obtained from groundwater samples WH-1, WH-2, and WH-3, groundwater samples were collected from 11 additional locations to further evaluate the extent of chlorinated hydrocarbons on the eastern parcel.

Section 2 Procedures

## Section 2 Procedures

This section describes the general field investigation procedures.

## **Selection of Sampling Locations**

The soil and groundwater sample locations for the February/March supplemental investigation at Plant 35 were selected based upon the results of the 1993 investigation. The groundwater sample locations for the April investigation were determined in the field based on the analytical results obtained from the February/March investigation and the preliminary results generated by the onsite laboratory during the April investigation. Sample locations are shown in Figures 1 and 2.

## Soil Borings

The soil borings were drilled by Gregg Drilling & Testing, Inc. (Gregg) using a Simco 2400 with 5.5-inch outer diameter hollow stem augers. Soils recovered during the drilling program were visually classified by CH2M HILL's field personnel in general accordance with ASTM Standard D 2488. The boring logs are included in Appendix B.

## Soil Sampling Methodology

Soil borings B-1, B-2, B-3, WH-6, and WH-9 were sampled continuously to collect additional information about the local subsurface stratigraphy. The soil samples were collected by driving a split-spoon sampler into the soil below the augers. Immediately after collecting a soil sample, the brass sleeve containing the sample was sealed with Teflon sheets and polyethylene end caps, labeled and placed in an ice-filled cooler. If no groundwater samples were collected, the borings were grouted with portland neat cement after soil sampling was completed.

## **Groundwater Sampling Methodology**

Soil borings intended for groundwater sampling were drilled to a depth of approximately 5 to 10 feet below the first indication of moisture on the center rod inside the hollow stem auger. The augers were removed and a temporary 2-inch diameter PVC well casing with 10 feet of 0.01-inch slotted well screen was installed. Approximately 3 borehole volumes of groundwater were purged from each temporary well where possible. Some temporary wells were bailed dry and recharged very slowly. In these cases, the wells were bailed dry twice before sampling. The purged groundwater was measured for pH, conductivity and temperature. Purging was continued until the conductivity stabilized within 10 percent and

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the pH within 0.20. Groundwater samples were collected using a teflon bailer with a low flow attachment.

Samples collected in February and March, intended for analysis of chlorinated hydrocarbons (by EPA Method 601) were placed in 40 ml VOAs prepared by the laboratory with preservative (HCl). These samples were labeled and immediately placed in an ice-filled cooler for storage until the end of the day. Samples collected in April were placed in 40 ml VOAs and immediately presented to the onsite laboratory for analysis. The analytical turnaround time for the onsite laboratory was approximately 1 hour. Based upon the analytical results from the laboratory, subsequent sampling locations were determined in the field in an effort to locate potential chlorinated hydrocarbon sources and evaluate the eastern extent of chlorinated hydrocarbons in groundwater. Upon completion of sample collection, the well casing was removed from the borehole and the borehole was sealed with portland neat cement.

## Hand Auger Boring/Soil Sampling

All of the shallow soil samples collected from the groundwater collection pit HA-1 through HA-6 were collected by hand auguring to a depth of about 1 foot below the surface and driving a sampling device into the soil beneath the augered hole. The brass sampling sleeve containing the sample was immediately sealed with teflon sheets and polyethylene endcaps, labeled, and placed in an ice-filled coller.

## Laboratory Analysis

In February and March, all of the samples were picked up at Plant 35 and analyzed by Chromalab, Inc., in San Ramon, California. The soil and groundwater samples collected in April, 1994 were analyzed immediately onsite by Onsite Environmental Laboratories, Inc., of Fremont, California. The soil and groundwater samples were analyzed for chlorinated hydrocarbons by EPA Methods 8010 and 601.

# Section 3 Analytical Results

This section describes the field activities and analytical results for the soil and groundwater investigations conducted onsite.

## Soil at Proposed Groundwater Extraction Trench Location and at Existing Extraction Pit

Soil samples collected from borings B-1 and B-2 (Figure 2) along the western property boundary did not contain detectable levels of chlorinated hydrocarbons. In addition, chlorinated hydrocarbons were not detected in any of the six soil samples collected from the groundwater collection pit. The laboratory analytical reports are included in Appendix C.

Soil borings B-1, B-2, B-3, WH-6, and WH-9 were sampled continuously in order to evaluate the subsurface stratigraphy. Figure 3, based on samples from B1, B2, and B3, details the approximate subsurface geology beneath the western property edge. The boring logs are located in Appendix B.

The water bearing zone appears to be the gravelly silt with sand to silty sand with gravel layer beneath the western property edge, and the sandy clay with gravel layer beneath the eastern edge of the Plant 35 building. These layers are approximately 13 to 17 feet below ground surface (bgs). Groundwater was generally first encountered in these layers during drilling, but the groundwater elevation generally rose to approximately 7 to 9 feet bgs.

## Groundwater Upgradient of A20-DM-06

In February/March 1994, grab groundwater samples were collected upgradient of A20-DM-06 to assess the eastern edge of the groundwater containing chlorinated hydrocarbons. The groundwater samples from WH-1, WH-2, and WH-3 contained concentrations of TCE, PCE, trans-1,2 dichloroethene, and cis-1,2-dichloroethene. The TCE concentrations ranged from 20 to 29  $\mu$ g/L and the PCE concentrations ranged from 17 to 59  $\mu$ g/L. Chloroform was also detected in WH-3. Results of these analyses are presented in Table 2 and in Figure 4. The laboratory reports are included in Appendix C.

In April 1994, groundwater samples were collected upgradient of WH-1, WH-2, and WH-3 in order to locate a potential source(s) of the chlorinated hydrocarbons in the groundwater and to further evaluate the extent of chlorinated hydrocarbons in groundwater on the east parcel. The samples from WH-5, WH-7, WH-10, WH-11, and WH-14 contained detectable concentrations of TCE, PCE, vinyl chloride, 1,1-dichloroethene, trans-1,2-dichloroethene, and methylene chloride. The TCE concentrations ranged from 0.9 to 110  $\mu$ g/L; the PCE concentrations ranged from non-detect to 520  $\mu$ g/L; and the vinyl chloride concentrations ranged from non-detect to 120  $\mu$ g/L. The sample with the highest concen-

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trations, WH-10, was collected approximately 10 feet west of a railroad spur and adjacent to a below-grade utility trench that runs between the boiler house and Warehouse 16 south. Samples WH-12 and WH-13 collected upgradient of WH-10, from within the former location of Warehouse 16 South building, did not contain detectable concentrations for chlorinated hydrocarbons. Groundwater samples from WH-4, WH-6, WH-8, WH-9, WH-12, and WH-13 did not contain detectable amounts of chlorinated hydrocarbons. Results of these analyses are presented in Table 2 and in Figure 4. The laboratory reports are included in Appendix C.

Generally, concentrations of TCE, PCE, and vinyl chloride in groundwater increase in a northeasterly direction from WH-3 to WH-10 where the highest concentrations of chlorinated hydrocarbons were detected. The area beneath and east of the building where elevated levels of chlorinated hydrocarbons were detected in groundwater is bounded by sample locations where no chlorinated hydrocarbons were detected (WH-8, WH-9, WH-4, WH-12, WH-13, and WH-6) or where they were detected in very small quantities (WH-11).

Table 2
Results of Onsite Groundwater Analyses
February/March and April, 1994
Del Monte Plant 35, Emeryville, California

			Analytes									
	Date of	1,1-	Trans-1,2-	Cis-1,2-		Methylene						
Sample	Sample	Dichioroethene	Dichloroethene	Dichloroethene	Chloroform	Chloride	Trichloroethene	Tetrachloroethene	Vinyl Chioride			
Location	Collection	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
WH-1	3/1/94	<0.5	2.5	42	<0.5	<5.0	25	59	<0.5			
WH-2	3/1/94	<0.5	3.2	36	<0.5	<5.0	29	25	<0.5			
WH-3	3/1/94	<0.5	3	32	2.6	<5.0	20	17	<0.5			
WH-4	4/11/94	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<1.0			
WH-5	4/11/94	0.7	16	NA	<0.5	<0.5	50	120	84			
WH-6	4/11/94	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<1.0			
WH-7	4/11/94	<0.5	12	NA	<0.5	<0.5	81	97	11			
WH-8	4/11/94	<0.5/<0.5	<0.5/<0.5	NA/NA	<0.5/<0.5	<b>&lt;0.5/&lt;</b> 0.5	<0.5/<0.5	<0.5/<0.5	<1.0/<1.0			
W11-9	4/11/94	<0.5	<0.5	NA.	<0.5	<0.5	<0.5	<0.5	<1.0			
WH-10	4/12/94	<0.5	28	NA	<0.5	100	110	520	120			
WH-11	4/12/94	<0,5	<0.5	NA	<0.5	<0.5	0.9	2.9	<1.0			
WH-12	4/12/94	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<1.0			
WH-13	4/12/94	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<1.0			
WH-14	4/12/94	<0.5	15	NA	<0.5	<0.5	4.4	<0.5	19			

#### Note:

<sup>1.</sup> All samples were analyzed for Chlorinated Hydrocarbons, EPA method 601 or EPA method 8010.

<sup>2.</sup> NA indicates that this compound was not analyzed for by EPA method 8010.

<sup>3. &</sup>lt;0.5 indicates that the laboratory detection limit was not exceeded.

# Section 4 Conclusions and Recommendations

#### Soil-West Parcel

#### **Conclusions**

The soil samples collected from the boreholes along the western property edge, B-1, B-2, and B-3, and the six soil samples collected from the groundwater collection pit did not contain detectable concentrations of chlorinated hydrocarbons. Based on these results, it appears that soil containing chlorinated hydrocarbons has been adequately removed from the west parcel.

#### Recommendations

No further remediation for chlorinated hydrocarbons in soil on the west parcel is recommended.

## Groundwater Upgradient of A20-DM-06

#### **Conclusions**

The groundwater samples collected from the boreholes drilled upgradient of sample location A20-DM-06 (WH-1, WH-2, WH-3) contained concentrations of TCE, PCE, trans-1,2 dichloroethene, and cis-1,2 dichloroethene. The source of the chlorinated hydrocarbons in A20-DM-06 was originally thought to be the former fuel oil tank area west (downgradient) of A20-DM-06. The detection of chlorinated hydrocarbons in the WH-1, WH-2, and WH-3 groundwater samples at levels slightly higher than those encountered at location A20-DM-06 suggested that another source area may have existed beneath or east of the building. To further evaluate the extent and source of the chlorinated hydrocarbons, 11 additional groundwater samples were collected upgradient of WH-1, -2, and -3.

The highest concentration of chlorinated hydrocarbons detected in groundwater was located at WH-10, between the boiler house and the foundation of Warehouse 16 South. This suggests that the source is also in this general area. Chlorinated hydrocarbons are not known to have been used or stored in this area, however, historical maps of the facility show the area between the boiler house and Warehouse 16 to have been used for storage. Although "non-detect" sample locations ring the area where chlorinated hydrocarbons were detected, the compounds could originate at a point away from the points of detection (even offsite) and migrate to the area around WH-10.

The levels of chlorinated hydrocarbons detected beneath and east of building indicate the need for local groundwater remediation.

#### Recommendations

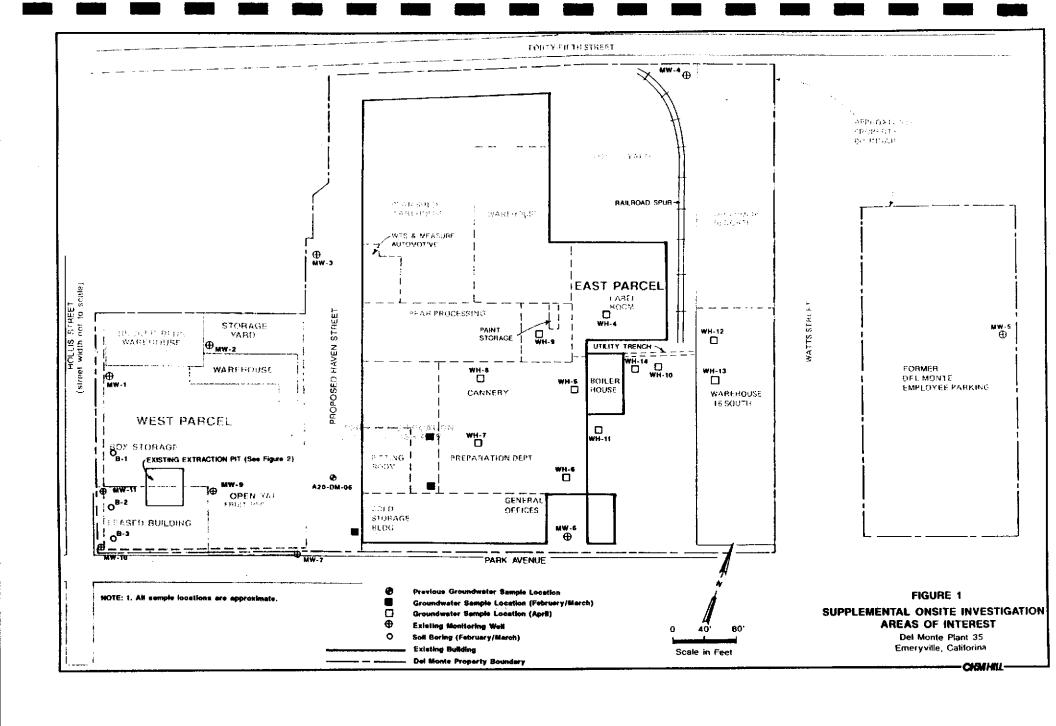
Additional investigation is recommended to confirm that the source of the chlorinated hydrocarbons detected beneath and east of the building on the East Parcel is in the vicinity of WH-10. A soil gas survey is proposed to confirm the location of the source area. A soil gas survey is an effective method for identifying a shallow source area of chlorinated hydrocarbons due to the volatility of these compounds. However, if fine-grained soils limit the applicability of a soil gas investigation, the alternate approach is to continue collecting groundwater samples in the vicinity of WH-10.

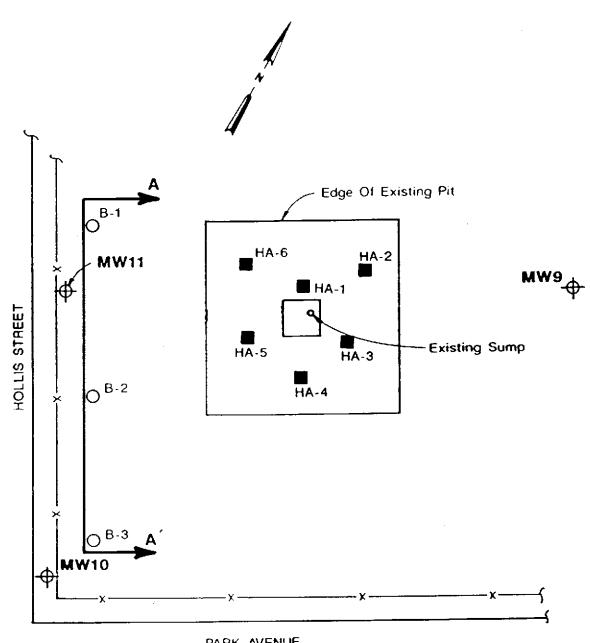
The soil gas survey will be conducted in an approximate 100 foot by 100 foot area in the vicinity of groundwater sample WH-10. Approximately 10 to 15 soil gas samples will be collected from depths of 2 to 5 feet below the ground surface. Soil gas samples will be analyzed onsite with a gas chromatograph for chlorinated hydrocarbons.

If fine-grained soils limit the applicability of the soil gas survey, additional groundwater investigation is recommended to confirm the chlorinated hydrocarbon source area. This consists of collecting groundwater samples at five additional locations in the vicinity of WH-10. Soil samples would also be collected from the borings and analyzed if elevated levels of chlorinated hydrocarbons are present in the groundwater sample collected from the boring.

After confirming the location of the chlorinated hydrocarbon source area, we recommend remediating the chlorinated hydrocarbons in the soil and groundwater. This remediation effort would be performed in conjunction with remediation of petroleum hydrocarbons from the 20,000-gallon underground fuel oil tank located adjacent to the boiler house. Remediation would involve groundwater extraction from a pit excavated at or near the location of the 20,000-gallon tank (after its removal) and the chlorinated hydrocarbon source area (assumed to be in the vicinity of WH-10). The pit would be constructed similarly to the existing groundwater extraction pit on the West Parcel. The extracted groundwater would be treated by carbon adsorption and discharged in the sanitary sewer. If feasible, the extracted groundwater could be pumped to the treatment system currently located on the West Parcel.

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PARK AVENUE

#### Legend:

Existing monitoring well

PLAN

Scale 1' = 25'

Soil boring location

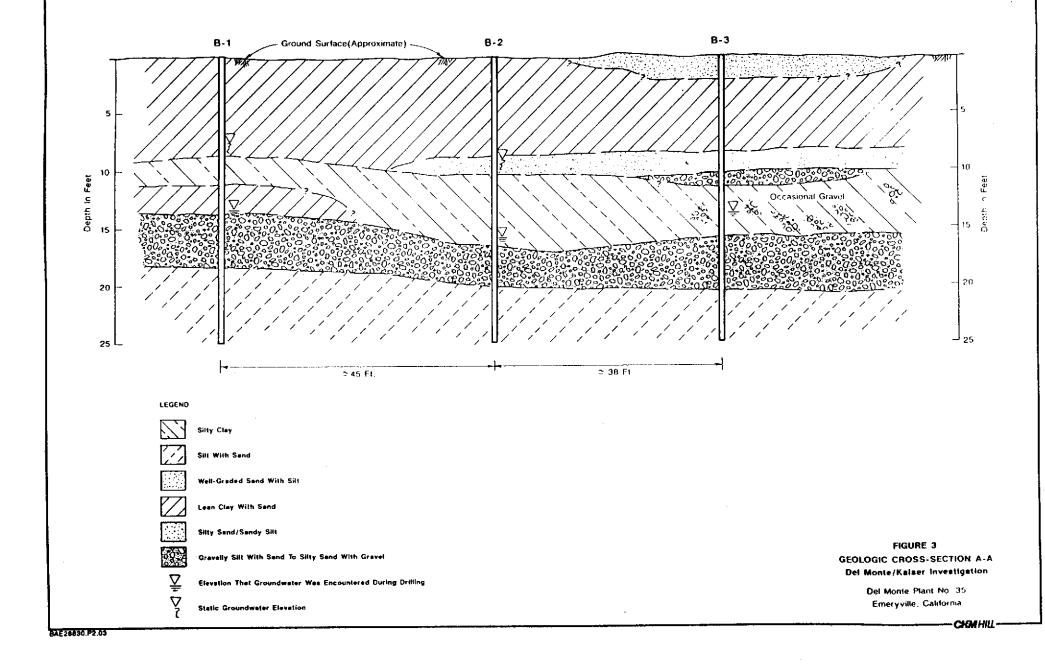
NOTE: 1. No chlorinated hydrocarbons were detected in the soil samples.

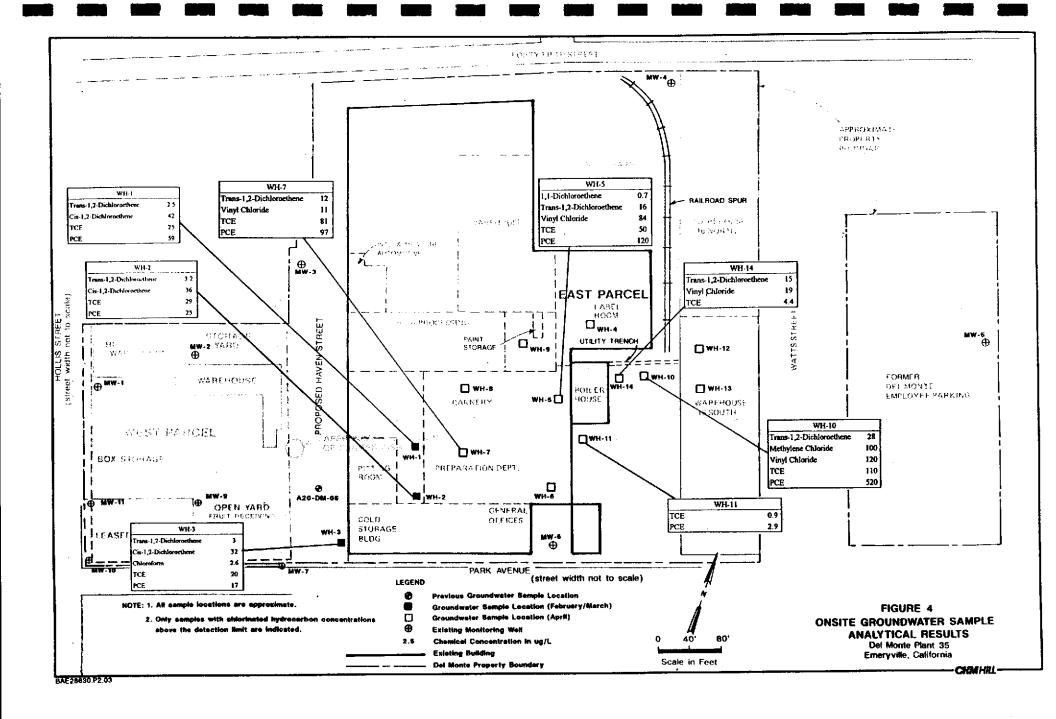
Hand angered soil sample location

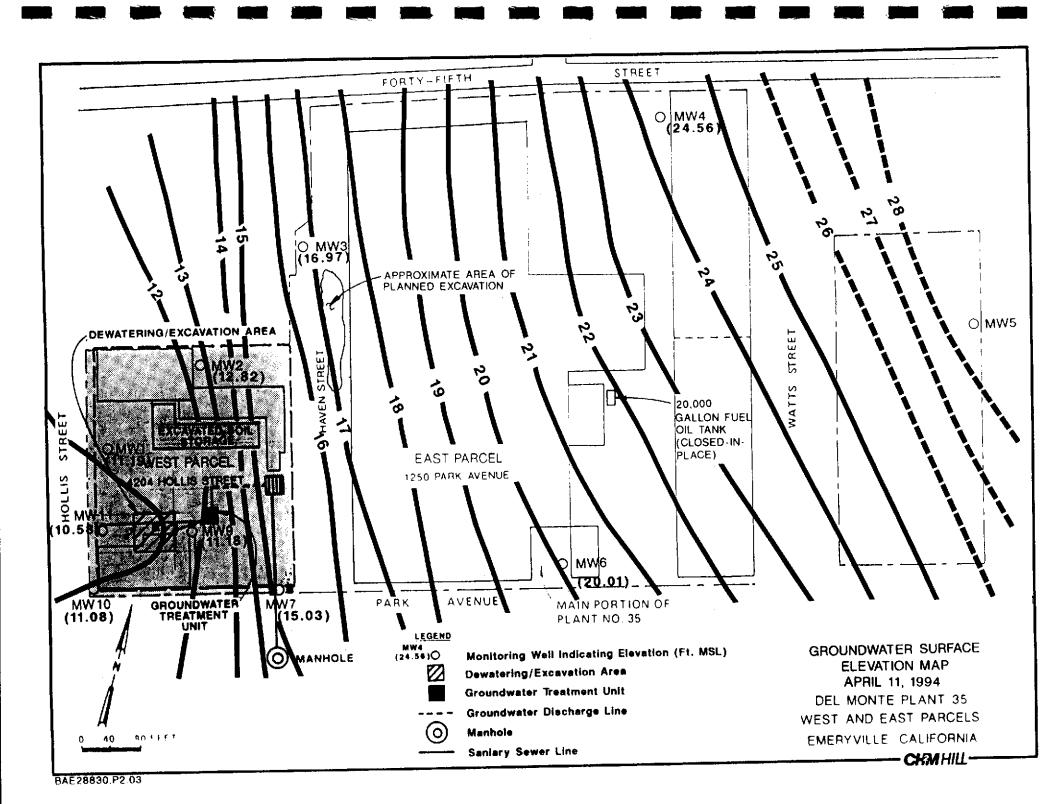
2. All sample locations are approximate.

## FIGURE 2 SOIL SAMPLE LOCATIONS

Dei Monte Plant 35 Emeryville, Califorina







Appendix B Soil Boring Logs



PROJECT NUMBER	 BORING NUMBER
BAE28830.P2.03	B-1

SHEET 1 OF 2

### SOIL BORING LOG

DDA IECT	Đei	Monte	Plant	#35

LOCATION Emeryville, CA

ELEVATION .

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

MATERIEVE 6 7.1 ft 86S 2/23/94

CTADT 2/23/94

ETMTCH 2/23/94

LOCCED Keith Gally

WATER	LEVEL	s <u>7.1 f1</u>	BGS 2/	23/94	START 2/23/94 FINISH 2/2	3/94 LOGGER Keith Gally
	SAMPLE STANDARD				SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	PENETRATION TEST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	1.0				LEAN CLAY, (CL), dark gray to brown,	
-		5-1	1.4		moist, firm to stiff, trace fine sand, pieces of brick	-
_	2.5				LEAN CLAY. (CL), similar to above, roots, firm	-
	4.0	S-2	1.5		LEAN CLAY. (CL), similar to above, orange	
6.0		S-3	1.4		staining, some sand	
-	5.5	S-4	1.5		L <u>FAN CLAY with SAND</u> . (CL), medium brown to gray, firm, line grained sand, trace of fine rounded gravel	
-	7.0	S-5	1.5		LEAN CLAY with SAND. (CL), light to dark gray, trace of fine rounded gravel	t inch layer of coarse sand at 8 ft
-	8.5	S-6	1.5		SILTY CLAY with SAND. (CL), light brown with white mottling, moist, stiff, fine to coarse sand, trace of fine rounded gravel, calcium carbonate staining toward bottom of sample	interbedded silty sandy clay layers toward bottom of sample
10.0 -	10.0				Top 12 in.:SILTY CLAY with SAND. (CL), similar to above, black streaking, moist to	-
_	11.5	S-7	1.5		wet Bottom 6 in.: <u>LEAN CLAY with SAND and SILT</u> (CL), medium gray, moist to wet, stiff, fine to medium grained sand	
_	11.0	5-8	1.5		LEAN CLAY with SAND and SILT. (CL), similar to above, medium brown with orange staining and black specks, moist, grades to olive gray towards base	
	13.0	S-9	1.5		SANDY SILT with CLAY. (ML), medium brown with orange staining to gray brown, wet, stiff, fine to medium grained sand	
	14.5					some organics present (roots)



PROJECT NUMBER BAE28830.P2.03

BORING NUMBER

B-1

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA	
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA	

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER	R LEVEL	s <u>7.1 ft</u>	BGS 2/	23/94	START 2/23/94 FINISH 2/23/	94 LOGGER Keith Gally
<b>≖</b> F		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	PENETRATION TEST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
507	16.0	S-10	1.5		SANDY SILT with CLAY. (ML), similar to above, some fine gravel toward bottom of sample	
-		S-11	1.5		GRAVELLY SILT. (ML), medium brown with gray streaking, wet, firm, fine gravel up to 1/2 inch, grades to clayey fine to medium grained sand toward base	-
-	17.5	S-12	1.5		Top 6 in.:SANDY SILT and CLAY (ML-CL), medium brown with orange staining, wet, fine grained sand Bottom 12 in.:SILT with SAND, (ML), olive gray with dark streaks, wet to moist, stiff,	decreasing sand content
-	19.0	S-13	1.5		fine grained sand <u>SILT with SAND</u> (ML), similar to above, trace of fine rounded gravel	-
20.D —	20.5				SANDY SILT, (ML), olive gray, moist to wet, stiff, fine to medium sand, decrease in sand content with depth	decreasing stiffness with depth, from stiff to soft
_	22.0	S-14	1.5		SILT with SAND. (ML), olive gray with	
		S-15	1.5		orange staining, moist, stiff to very stiff, fine to medium grained sand	
1	23.5	S-16	1.5		SILT with SAND. (CL), similar to above	<u> </u>
	25.0				·	
<b>25.0</b> –					Total Depth = 25.0 ft	
					·	



BORING NUMBER

BAE28830.P2.03

B-2

SHEET 1 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch 0.0.

_		<b>s</b> 8.8 ft		/23/94		94 1:30 pm LOGGER Keith Gally
	SAMPLE STAN			STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	RESULTS  6" -6" -6"  (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
-	1.0				LEAN CLAY with SAND. (CL), dark gray to	
-	2.5	S-1	1.3		brown, moist, firm, fine to medium sand, trace of fine gravel	brick in bottom 6 inches of sampler
-	2.5_	S-2	1.3		LEAN CLAY with SAND, (CL), dark gray, moist, stiff, fine grained sand, trace of fine gravel	· <u>-</u>
_	4.0	S-3	1,2		LEAN CLAY with SAND. (CL), similar to above	
6.0 —	5.5				L <u>EAN CLAY with SAND</u> . (CL), similar to above	
-	7.0	S-4	1.2		LEAN CLAY with SAND and GRAVEL. (CL),	-
_	8.5	S-5	1.5		medium gray with brown specks, stiff, fine grained sand, fine rounded gravel	tip of sampler showed white silty sand to sandy silt
_	10.0	S-6	1.5		SANDY SILT. (ML), white to light gray, moist, firm, medium grained sand	increased sand layer at 9 to 9.5 ft (SM/ML)
10.0 —	10.0	S-7	1.5		Top 3 in.:SANDY STLT. (ML), white to gray. moist, stiff Bottom 9 in.:SILTY LEAN CLAY with SAND. (CL), light brown to gray with dark brown specks, stiff, trace of fine gravel	
-	11.5	S-8	1.5		SILTY LEAN CLAY with SAND, (CL), similar to above	
	13.0	S-9	1.5		SILTY LEAN CLAY with SAND. (CL), similar to above, light brown to gray with orange staining towards bottom, moist, fine to medium sand, 2 inch piece of gravel	
-	14.5				SILTY LEAN CLAY with SAND, (CL), similar to above, dark brown with fight mottling	increased orange mottling with depth



BAE28830.P2.03

BORING NUMBER

B-2

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
DRILLING METHOD AND EQUIPMENT	Simco 2400, Hollow Stem Auger, 5-1/4 inch 0.D.

WATER		S 8.8 ft		/23/94	START 2/23/94 12:15 pm FINISH 2/23/	94 1:30 pm LOGGER Keith Gally
	SAMPLE STANDARD PENETRATIO			STANDARD	SOIL DESCRIPTION	COMMENTS
HELO F	TEST TEST TEST TEST TEST TEST TEST TEST		TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY	DEPTH OF CASING, DRILLING RATE	
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	66e.	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	16.0	S-10	1.5		grading to medium brown with orange mottling toward bottom, moist to wet, fine rounded gravel present throughout	
-		S-11	1.5		SILTY LEAN CLAY with SAND and GRAVEL. (CL), medium brown with gray mottling, wet, medium to coarse sand, fine rounded gravel present throughout	
    -	17.5		-		SANDY SILT with GRAVEL (ML), medium brown with dark specks and orange mottling, wet to moist, fine to coarse	
	19.0	S-12	1.5		grained sand, some fine rounded gravel	decreasing coarse material with depth
20.0 —		S-13	1.5		GRAVELLY SILT with SAND. (ML), medium brown with dark specks and orange mottling, tight formation, fine to medium grained sand, up to 1/2 inch gravel	_
	20.5	S-14	1.4		SANDY SILT with GRAVEL. (ML), medium brown to gray, moist to wet, stiff to firm, coarse sand to fine gravel towards top of sample grading to fine to medium sand at bottom	
-	22.0	S-15	1.5		SANDY SILT. (MH), light gray and brown, moist to wet, firm, fine grained sand	less dense than above and below
_	23.5					
		S-16	1.5		SANDY SILT with CLAY. (ML), medium brown and gray with increasing orange mottling with depth, moist, fine grained sand	•
25.0 -	25.0				Total Depth = 25.0 ft	_
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BORING NUMBER

BAE28830.P2.03

B-3 SHEET 1 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch 0.D.

MATER LEVELS Encountered at approx 13' bos exact 2/23/94 2:00 pm six

WATER	RLEVEL	ELS Encountered at approx 13' bgs START 2/23/94 2:00 pm FINISH 2/23/94 3:30 pm LOGGER Keith Gally					
s ₽	SAMPLE STANDARD PENETRATION			PLE STANDARD SOIL DESCRIPTION		COMMENTS	
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS 6'-6'-6'	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
-	1.0	S-1	1.0		Top 12 in.: WELL GRADED SAND with SILT. (SW), medium brown, trace of fine rounded gravel, pieces of brick Bottom 6 in.: LEAN CLAY. (CL), dark brown, moist, intermixed with broken glass		
_	2.5	S-2	1.3		LEAN CLAY with SILT and SAND, (CL), dark brown, moist, firm, fine grained sand	organic material (roots)	
	4.0	3-2	1.3				
ຜ –		S-3	1.4		SILTY LEAN CLAY, (CL), dark brown with orange staining, moist, stiff, fine grained sand and fine rounded gravel	increase in gravel with depth —	
	5.5				LEAN CLAY with SILT and SAND. (CL), medium dark gray, moist, very stiff, very fine grained sand	·	
	7.0	S-4	1.4			tight formation	
-	5.5	S-5	1.4		SILTY LEAN CLAY with SAND. (CL), medium dark gray, moist, very stiff, very fine grained sand	tip of sampler showed white sandy silt, "with coarse sand	
	8.5	S-6	1.3		Top 6 in.:SANDY SILT (ML), white to light gray, moist, firm, coarse grained sand Bottom 12 in.:SILTY SAND. (SM), white to light gray, moist, medium dense, well graded sand	varying interbedded zones of sand and silt	
10.0	10.0	S-7	1.4		Top 6 in.:SILT with SAND and CLAY. (ML), medium gray, moist, stiff, fine sand Bottom 12 in.:GRAVELLY SILT with SAND. (ML), medium gray to brown, moist, stiff, fine to coarse sand, fine rounded gravel		
-	11.5	S-8	1.5		SILTY LEAN CLAY with SAND. (CL), medium gray to brown with increasing orange staining with depth, moist, stiff, fine grained sand	<u>-</u>	
	13.0	S-9	1.3		Top 6 in.:GRAVELLY CLAY with SAND. (CL), brown, wet, medium dense, fine to medium grained sand, fine rounded gravel Bottom 12 in.:SILTY LEAN CLAY. (CL), medium brown and gray with orange mottling, wet to moist, stiff	- -	
-	14.5				SILTY LEAN CLAY, (CL), similar to above		



PROJECT NUMBER BAE28830.F2.03

BORING NUMBER

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT	Del	Monte	Plant	#35
		110111		

LOCATION Emeryville, CA

ELEVATION \_

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

	WATER LEVELS Encountered at approx 13' bgs START 2/23/94 2:00 pm FINISH 2/23/94 3:30 pm LOGGER Keith Gally								
	<u> </u>	SAMPLE				COMMENTS			
		111		STANDARD PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR,	CONTROL OF CACING POLICY PATE			
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	6' -6' -6' (N)	MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION			
		5-10	1.3						
	16.0								
_	17.5	S-11	1.5		Top 12 in::SILT with GRAVEL. (ML), medium brown with orange staining, moist, medium stiff, fine grained sand, fine gravel Bottom 6 in::SANDY SILT. (ML), medium brown with orange and dark mottling, moist, soft to medium stiff, fine grained sand				
	17.5				SANDY SILT (ML), similar to above				
-		S-12	1.4						
-	19.0				SILTY SAND and GRAVEL (SM-GM),	-			
20.0 —		S-13	1.3		medium brown with orange mottling, wet, loose, fine grained sand, fine gravel	_			
	20.5		_		SANDY SILT, (MH), medium brown with				
-		S-14	1.3		orange mottling, wet, soft, fine grained sand				
_	22.0				SILT with SANO. (MH), medium brown with	+			
-		S-15	1.5		orange and white deposits, stiff, fine grained sand	-			
	23.5				SILT with SAND, (MH), similar to above				
_	25.0	S-16	1.5						
25.0	25.0				Total Depth = 25.0	7			
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**BORING NUMBER** 

BAE28830.P2.03

WH-1

SHEET 1 OF 2

#### SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
DRILLING METHOD AND FOUTPMENT Simco	

FINISH 3/1/94 11:50 am WATER LEVELS 10.34 ft bgs 3/1/94 START 3/1/94 10:30 am LOGGER Keith Gally STANDARD PENETRATION TEST RESULTS COMMENTS SAMPLE SOIL DESCRIPTION 된다 DEPTH BEL SOIL NAME, USCS GROUP SYMBOL, COLOR, NUMBER AND TYPE RECOVERY DEPTH OF CASING, DRILLING RATE INTERVAL MOISTURE CONTENT, RELATIVE DENSITY DRILLING FLUID LOSS 6" -6" -6" OR CONSISTENCY, SOIL STRUCTURE, TESTS AND INSTRUMENTATION (N) MINERALOGY 6-inches concrete 1.0 POORLY GRADED SAND, (SP), red, dry, possibly crushed brick material dense, fine to medium grained sand, S-1 1.2 2.5 ORGANIC SILT and CLAY with SAND, (OL), dark gray, moist, soft, fine to medium grained sand S-2 1.0 4.0 LEAN CLAY with SILT and SAND, (CL), dark gray, moist, stiff, fine grained sand S-3 1.1 5.0 organics present (roots) slight odor present (believed to be 5.5 caused by isopropanol used during LEAN CLAY with SILT and SAND. (CL), sampler decon procedure) similar to above 5-4 1.3 7.0 LEAN CLAY with SILT and SAND. (CL). similar to above S-5 1.1 8.5 LEAN CLAY with SILT and SAND. (CL), similar to above, medium gray slight odor present (believed to be caused by isopropanol used during sampler decon procedure) S-6 1.3 10.0 Top 8 in.:LEAN CLAY with SILT and SAND. (CL), similar to above
Bottom 9 in.:SILTY CLAY with SAND. (CL),
medium light brown to gray, moist, stiff,
fine to medium grained sand 10.0 5-7 1.4 11.5 slight odor present (believed to be SILTY CLAY with SAND and GRAVEL. (CL), medium brown to gray with white mineral deposits, black specks, orange staining, caused by isopropanol used during sampler decon procedure) S-8 moist, stiff, fine sand and fine rounded gravel 13.0 SILTY CLAY with SAND. (CL), olive brown with black specks, moist, stiff, fine grained sand S-9 1.2 14.5 SILTY CLAY with SAND. (CL), similar to above



25.0 -

PROJECT NUMBER

BAE28830.P2.03

BORING NUMBER

WH-1

SHEET 2 OF 2

## SOIL BORING LOG

PROJEC	T <u>Del</u>	Monte Pi	ant #3	5	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA			
	TION	-						
		HOD AN			100, Hollow Stem Auger, 5-1/4 inch O.D.  START 3/1/94 10:30 am FINISH 3/1/9	94 11:50 am LOGGER Keith Gally		
		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS		
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	PENETRATION TEST RESULTS 6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE,	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION		
	N.	ANO	REC	(N)	MINERALOGY	TESTS AND INSTRUMENTATION		
		S-10	1.4		SILTY CLAY with SAND, (CL), similar to above			
	16.0							
					<u>SILTY CLAY with SAND</u> , (CL), similar to above			
_		S-11	1.3					
	17.5				CTLTV CLAV CAND (CL) similar to			
					SILTY CLAY with SAND, (CL), similar to above except increased orange staining, soft to firm, increase in sand content			
		S-12	1.3		Service IIIII, IIIelesse III salid sontein			
-	19.0				SILTY CLAY with SAND. (CL), similar to			
					above			
- ao		5-13	1.2		<u>-</u>	1/2-inch gravel present from 20 to		
	20.5				SILTY SAND/SANDY SILT. (SM-ML).	20.5 ft		
-					medium brown to gray with some orange staining, wet, fine to medium grained sand,	groundwater encountered at approx 20.5 ft		
		S-14	1.3		fine gravel			
-	22.0				SANDY SILT. (ML), medium brown to gray,			
					wet, soft, fine sand			
_	-	S-15	1.3			4		
	23.5				SILT with SAND. (ML), medium gray to			
_	-				brown, moist, stiff, very fine sand, some clay	4		
		S-16	1.1					

Total Depth = 25.0 ft



BAE28830.P2.03

BORING NUMBER

WH-2 SHEET 1 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch 0.D.

WATER	LEVELS 11.8 ft bgs 3/1/94			1/94	START 3/1/94 12:50 am FINISH 3/1/94	4 1:55 am LOGGER Keith Gally
≠F		SAMPLE	•••	STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARO PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
_	1.0				ORGANIC CLAYEY SAND WITH GRAVEL.	6-inches concrete
_	2.5	5~1	0.6		(SC), dark gray, moist, firm, fine to medium grained sand	_
-	2.0	S-2	0.6		ORGANIC CLAYEY SAND with GRAVEL. (SC), similar to above	gravel up to 3/4 in.
5.0 —	4.0	S-3	0.8		LEAN CLAY with SAND, (CL), dark gray, moist, stiff, fine grained sand	odor present (believed to be caused by
-	5.5	S-4	0.8		LEAN CLAY with SAND, (CL), similar to above	isopropanol used during sampler decon procedure)
-   	7.0	S-5	1,3		LEAN CLAY with SAND. (CL), similar to above	
-	8.5	S-6	1.2		<u>LEAN CLAY with SAND</u> . (CL), similar to above	_
10.0 —	10.0	S7	1.1		Top 6 in::LEAN CLAY with SAND. (CL), similar to above Bottom 8 in::SILTY CLAY with SAND. (CL), medium brownish gray to olive, moist, stiff, very fine grained sand	_
-	11.5	S-8	1.3		Top 6 in.:SILTY CLAY with SAND, (CL), similar to above Bottom 10 in.:SANDY SILT with GRAVEL, (ML), olive with orange staining, moist, firm, fine to medium grained sand, up to 1/2 in. gravel	odor present (believed to be caused by isopropanol used during sampler decon procedure)
		5-9	1.4		Top 6 in.:SANDY SILT with GRAYEL, (ML), similar to above Bottom 11 in.:SILTY CLAY with SAND, (CL), medium olive brown, moist, very stiff, very fine grained sand	odor present (believed to be caused by isopropanol used during sampler decon
	14.5				<u>SILTY CLAY with SAND</u> , (CL), similar to above, black specks	procedure)



BAE28830.P2.03

BORING NUMBER

WH-2

SHEET 2 OF 2

## SOIL BORING LOG

PROJEC	T Det i	Monte Pl	ant #35	5	LOCATION Emeryville, CA			
ELEVAT				A	DRILLING CONTRACTOR Gregg Drilling, Pa	checo, CA		
					400, Hollow Stem Auger, 5-1/4 inch O.D.  START 3/1/94 12:50 am FINISH 3/1/9	24 1:55 am LOGGER Keith Gally		
	MATER LEVELS 11.8 ft bgs 3/1/94  SAMPLE STANDARD		· · · · · · · · · · · · · · · · · · ·		COMMENTS			
ᇍ				STANDARD PENETRATION TEST		COMPLETO		
Wy	۲AL	7 P. S.	ĒŘ	TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS		
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	(N) 666.	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	TESTS AND INSTRUMENTATION		
		S-10	1.3		SILTY CLAY with SAND. (CL), similar to above			
	16.0				SILTY CLAY with SAND. (CL), similar to above	1		
		S-11	1.5			odor present (believed to be caused by		
	17.5				SILTY CLAY with SAND. (CL), similar to above except, brown to gray mottling, firm,	isopropanol used during sampler decon procedure)		
		S-12	1.3		moist	groundwater encountered at approx 17.5 ft		
	19.0				SANDY SILT with GRAVEL, (ML), medium	4		
20.0 —		S-13	1.4		brown with orange and gray mottling, wet to moist, soft to firm, fine to medium grained sand			
	20.5							
-		S-14	1.5		SILT with SAND and CLAY, (ML), medium brown to gray with some orange staining, moist, stiff, very fine grained sand	-		
	22.0					j		
		S-15	1.3		<u>S1LT with SAND and CLAY</u> , (ML), similar to above			
-						1 -		
	23.5				SILT with SAND and CLAY, (ML), similar to above, very stiff			
	25.0	S-16	1.4					
25.0 -	25.0				Total Depth = 25.0	<b>-</b>		
-						1		
				•		-		
-						-		
		,				-		



BAE28830.P2.03

BORING NUMBER

E-HW

SHEET 1 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
	Simon 2400 Hallow Stem Auger 5-1/4 inch 0.D

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

START 3/1/94 2:30 am Emiteu 3/1/94 3:15 am Incomp Keith Gally

WATER	LEVELS 9.86 ft bgs 3/1/94			/1/94	4 3:15 am LOGGER Keith Gally	
		SAMPLE		<del>,</del>	SOIL DESCRIPTION	COMMENTS
SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6' -6' -6' (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	1.0					8-inches concrete
-		S-1	1,0		SANDY CLAY with GRAVEL, (CL), dark brown, wet, stiff, medium grained sand, fine rounded gravel	_
_	2.5				LEAN CLAY with SAND. (CL), dark gray, moist, stiff, very fine grained sand	organics present
	4.0	<b>\$-</b> 2	1.4			
eo	i	5-3	1.3		LEAN CLAY with SAND. (CL), similar to above, occasional fine rounded gravel	
-	5.5	S-4	1.4		LEAN CLAY. (CL), dark medium gray, moist, very stiff	organics
_	7.0	S-5	1.5		LEAN CLAY with SAND. (CL), similar to above, medium gray	increased sand from 8 to 8.5 ft
_	8.5	S-6	1.5		LEAN CLAY with SAND. (CL), olive with light brown mottle, orange staining and black streaking, moist, very stiff, very fine grained sand	
10.0 —	10.0	S-7	1.3		Top 4 in.:GRAVELLY CLAY, (CL), wet Bottom 12 in.:SANDY CLAY and SILT. (CL), medium gray with brown mottling, moist, firm, very fine grained sand	groundwater encountered at approx
_	11.5	S-8	1.4		SANDY SILT with CLAY. (ML), medium brown to gray, white mineral deposits in bottom of sample, wet, soft, firm to stiff, fine to medium grained sand, fine rounded gravel towards base	il ft increase in sand content
-	13.0_	S-9	1.4		Top 8 in.: WELL GRADED SAND with SILT. (SW), medium brown, wet, dense, trace gravel Bottom 8 in.: SILTY CLAY with SAND. (CL), light brown, wet, stiff, very fine grained sand	
	14.5			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		



BAE28830.P2.03

BORING NUMBER

WH-3

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA	
	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA	_
DRILLING METHOD AND EQUIPMENT	Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.	_
WATER LEWELS 9.86 ft has 3/1/94	27.02 3/1/94 2:30 am	

WATER	LEVELS	TLS 9.86 ft bgs 3/1/94 START 3/1/94 2.30 am FINISH				4 3:15 am LOGGER Keith Gally
		SAMPLE			SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6° -6° -6° (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
-	16.0	S-10	1.2		SILTY CLAY with SAND, (CL), similar to above  Total Depth = 16.0 ft	
_					10ta 0eptii - 10.0 tt	
_					•	_
20.0 —						
•						
						<b>-</b>
25.0 —					- -	
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-					<u>-</u>	-



PROJECT NUMBER BORING NUMBER

BAE28830.P2.03

WH-6

SHEET 1 OF 2

## SOIL BORING LOG

PPOLECT	Del	Monte	Plant	#35
		11011(	1 10	" "

LOCATION Emeryville, CA

ELEVATION -28 ft MSL

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch 0.D.

WATER LEVELS encountered at ~13.5 ft bgs START 4/11/94 3:30 pm FINISH 4/11/94 4:10 pm LOGGER Keith Gally

WATER	R LEVELS encountered at ~13.5 ft bgs				START 4/11/94 3:30 pm FINISH 4/11/9	
∌ F	SAMPLE STANDARD PENETRATION		STANDARD	SOIL DESCRIPTION	COMMENTS	
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6° -6° -6° (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
DEPTH BI	1.5 3.0 4.5 6.0 9.0	2-1 S-2 S-3 S-4 S-5 S-6 S-6	1.3 1.5 1.5	666.	DR CONSISTENCY, SOIL STRUCTURE, MINERALOGY  LEAN CLAY with SAND. (CL), dark brown, moist, stiff, fine grained sand  LEAN CLAY with SAND. (CL), dark medium gray, moist, stiff, fine grained sand  LEAN CLAY with SAND. (CL), similar to above  LEAN CLAY with SAND. (CL), medium gray with white mineral deposits, moist, occasional gravel, some silt  LEAN CLAY with SAND. (CL), similar to above, light brown gray with white mineral deposits  SANDY SILT. (ML), medium gray brown, moist, stiff  Top 3 in::SILTY SAND. (SM), Rottom 9 in 1 EAN CLAY with SAND. (CL).	DRILLING FLUID LOSS
	12.0	S-7	1.2		medium brown gray, moist, stiff, fine to medium grained sand  LEAN CLAY with SAND, (CL), similar to above	-
	13.5	5-9	1.0		SANDY CLAY with GRAVEL. (CL), medium brown gray, wet, firm, fine to medium sand, fine gravel	groundwater encountered at approx. 13,5 ft bgs
	15.0					



PROJECT NUMBER

BAE28830.P2.03

BORING NUMBER

WH-6

SHEET 2 OF 2

## SOIL BORING LOG

	Dal	Monto	Plant	#35
PROJECT	De:	MOLITE	riaili	#30

\_LOCATION Emeryville, CA

ELEVATION -28 ft MSL

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER LEVELS encountered at ~13.5 ft bgs START 4/11/94 3:30 pm FINISH 4/11/94 4:10 pm LOGGER Keith Gally

×F	SAMPLE STANDARD		STANDARD	SOIL DESCRIPTION	COMMENTS	
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6' -6' -6' (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
-	15.0	S-10	1.3		LEAN CLAY with SAND and SILT. (CL), medium brown gray with orange mottling, wet, stiff, fine to medium sand, occasional fine gravel	
J	16.5				Total Depth = 16.5 ft	
-						
- 0.0					_	
-					-	
			:			
					· · · · · · · · · · · · · · · · · · ·	
5.0 —	,				·	
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					-	
-					-	
					-	
		ļ				



PROJECT NUMBER

BAE28830.P2.03

BORING NUMBER

WH-9

SHEET 1 OF 2

### SOIL BORING LOG

PROJECT Del Monte Plant #35

- LOCATION Emeryville, CA

ELEVATION -28 ft MSL

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER LEVELS encountered at -9 ft bgs START 4/11/94 1:00 pm FINISH 4/11/94 2:30 pm LOGGER Keith Gally

MATER	R LEVELS encountered at -9 ft bgs				START 4/11/94 1:00 pm FINISH 4/11/	94 2:30 pm LOGGER Keith Gally
≱£		SAMPLE STANDARI PENETRATI		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6'-6'-6'	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	0.5			,		· ·
_	20	S-1	1.2		LEAN CLAY with SAND. (CL), dark brown, moist, soft to firm (top) and firm to stiff (bottom), fine sand, occasional gravel in top 6 inches	
-	2.0	S-2	t.5		LEAN CLAY with SAND. (CL), similar to above, medium brown with orange mottling	-
_		3-2	1.3			trace of organics present
	3.5				SANDY CLAY, (CL), medium brown with	
_		S-3	1.5		dark specks and trace orange staining, moist, soft, fine sand	<u>-</u>
E0 -	5.0				SANDY CLAY, (CL), similar to above, firm,	-
		S-4	1.5		trace of 1/2 inch gravel	
	6.5					
_		<b>S-</b> 5	1.5		LEAN CLAY with SAND. (CL), medium gray with black streaks, moist, stiff, very fine sand, white mineral deposits toward base -	_
	8.0	S-6	0.3		SILT with SAND. (MH), light brown gray with white mineral deposits, trace of clay, wet, soft	-
]	9.5				•	groundwater encountered at approx. 9 <sup>-</sup> ft bgs
10.0		S-7	1.5		SILT with SAND. (MH), similar to above, wet, no white mineral deposits, black streaks—	_
			"	-		
4	11.0				SILT with SAND, (ML), light gray with	-
1		S-8	1.5		orange staining, moist, fine sand	
	12.5				20.7	
		S-9	1.5		SILT with SAND. (ML), similar to above, light brown with trace orange, trace 1/2 inch gravel	_
1	14.0				SILT with SAND, (ML), similar to above	
		5-10	1.5		SIL! WILD SAND, (ML/, SIMHAY (0 above	



PROJECT	NUMBER
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BAE28830.P2.03

BORING NUMBER

₩H-9

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT	Del	Monte	Plant	#35

LOCATION Emeryville, CA

ELEVATION -28 ft MSL

\_\_ DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING NETHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

4/11/94 1:00 pm 4/11/94 2:30 pm Keith Gally

MATER	R LEVELS encountered at ~9 ft bgs			at ~9 ft bgs	START 4/11/94 1:00 pm FINISH 4/11/9	24 2:30 pm LOGGER Keith Gally
<b>∌</b> F	SAMPLE STANDARD			STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6°-6°-6° (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	15.5					
_		S-11	1.1		SANDY SILT/SILTY SAND, (ML/SM), medium gray brown, moist, stiff to dense, medium grained sand –	-
	17.0	5-12	1.4		WELL GRADED SAND with GRAVEL and CLAY. (SW), medium brown, wet, dense, fine gravel	-
_	18.5	S-13	1,0		WELL GRADED SAND with GRAVEL and CLAY. (SW), similar to above	-
20.0 —	20.0				Total Depth = 20.0 ft	<u>-</u>
-					-	-
_					<del>.</del>	
_					•	-
-						-
25.0		i			-	
	a 1					



ROJECT NUMBER	BORING NUMBER

BAE28830.P2.03 WH-10

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SHEET 1 OF 1

## SOIL BORING LOG

PROJECT Del Monte Plant #35

LOCATION Emeryville, CA

ELEVATION -19 !t MSL

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER	LEVEL	s encou	untered	at ~16.0 ft bgs	START 4/12/94 8:45 am FINISH 4/12/	94 9:40 am LOGGER Keith Gally
≢ F		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6°-6'-6' (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
					Cuttings:SANDY CLAY with GRAVEL. (CL). medium to dark brown, moist	
5.0 -	5.0	S-1	1.4		Top 12 in:LEAN CLAY with SAND, (CL), dark brown with white mineral deposits,	_
-	6.5				moist, stiff, fine to occasional coarse sand Bottom 6 in:LEAN CLAY with SAND, (CL), similar to above, olive/brown mottled, with occasional coarse sand and fine gravel	color change to medium gray
10.0 -	10.0				LEAN CLAY HIS CAND (CL) CHIEF A	_
-	11.5	S-2	1.3		LEAN CLAY with SAND, (CL), similar to above, olive, some silt	-
16.0 —	15.0		·-		SANDY CLAY, (CL), medium brown to	- -
-	16.5	S-3	1.2		orange with gray mottling, moist, firm, fine to medium sand	groundwater encountered at approx. 16 °C ft bgs
20.0 —					Total Depth = 19.0 ft	- 
-					<u>-</u>	-
					- -	•
26.0 —					-	_
					_	·
_					-	-
					· ·	-



#### PROJECT NUMBER

BAE28830.P2.03

BORING NUMBER

WH-11

SHEET 1 OF 1

### SOIL BORING LOG

PROJECT Del Monte Plant #35

\_\_LOCATION\_Emeryville, CA

ELEVATION ~28.5 ft MSL

\_\_ DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING METHOD AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER LEVELS START 4/12/94 10:30 am FINISH 4/12/94 11:00 am LOGGER Keith Gally

WATER	LEVEL	S			START 4/12/94 10:30 am FINISH 4/12/9	t 11:00 am LOGGER Keith Gally				
<b>æ</b> Ĥ		SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS				
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION				
					Cuttings: <u>SANDY CLAY</u> , (CL), dark brown, moist, firm, fine to coarse sand, fine gravel	- - -				
5.0 -	5.0 6.5	S-1	1.5		EAT CLAY with SAND. (CH), medium to dark gray, moist, stiff, fine to medium sand	 - -				
10.0 -	10.0	5-2	1.5		EAT CLAY with SAND. (CH), medium brown gray with black specks, trace of orange staining, moist, firm, fine to medium sand	color changes to brown gray -				
15.0 —	15.0 16.5	S-3	1.5		SANDY CLAY with SILT. (CL), gray brown with olive mottling and orange staining, moist, stiff, fine to medium sand, fine gravel	- - - - -				
20.0 -					Total Depth = 20.0 ft	- - - -				
25.0					-	-				
						- - - -				



PROJECT NUMBER

BAE28830.P2.03

BORING NUMBER

WH-12

SHEET 1 OF 1

## SOIL BORING LOG

DOO ICCT	Del Monte	Plant	#35

LOCATION Emeryville, CA

ELEVATION ~33 ft MSL DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

DRILLING NETHOO AND EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

		SAMPLE		STANDARD	START 4/12/94 11:40 am FINISH 4/12/	/94 t:00 pm LOGGER Keith Gally  COMMENTS
BELON XF (FT)		T	T	PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR.	DEPTH OF CASING, DRILLING RATE
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	6" -6" -6"	MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	ÖRILLING FLUID LÖSS TESTS AND INSTRUMENTATION
- - 5.0 —	5.0	S-1	1.4		Top 6 in.:CLAYEY SAND with GRAVEL, (SC), medium brown, dry, well graded sand, up to 1/2 inch gravel Bottom 12 in.:LEAN CLAY with FINE GRAVEL (CL), dark gray with brown and orange streaks, moist to dry	approx. elevation of Plant ≢35 building floor broken glass in drill cuttings
 0.0 — -	10.0	S-2	1.5		LEAN CLAY with SAND and SILT. (CL), olive with orange staining, dry to moist, stiff, fine to medium sand, fine rounded gravel, some white mineral deposits	- - - -
- - 5.0	15.0	S-3	1.5		Top 8 in.:SILTY SAND and GRAVEL (SM), medium brown gray, wet, loose, medium sand, fine gravel Bottom 10 in.:SANDY SILT, (ML), medium brown, moist, firm, fine to medium sand	encountered groundwater at approx. 1 ft bgs
— <b>0.0</b>					Total Depth = 16.5 ft	
i.o —					- - -	
-			, ;		•	

Appendix C Analytical Laboratory Reports

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 18, 1994

ChromaLab File #: 9402290

CH2M HILL OAKLAND 1111 Broadway, Suite 1200 Oakland, CA 94607-4046

Attn: B. Baumgartner/K. Gally

RE: Analysis for project DEL MONTE PLANT 35, number BAE28830.P2.03.

REPORTING INFORMATION

Samples were received cold and in good condition on February 23, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all analysis reported.

No discrepancies were observed or difficulties encountered with the analysis.

SAMPLES TESTED IN THIS REPORT

Sample ID	Matrix	Date collected	Lab sample #
DM35SB154	SOIL	February 23, 1994	44492
DM35SB253	SOIL	February 23, 1994	44493
DM35SB254	SOIL	February 23, 1994	44494

Jill Thomas

Quality Assurance Manager

Eric Tam

March 2, 1994

ChromaLab File#: 9402290

CH2M HILL OAKLAND

Atten: B. Baumgartner/K. Gally

Project: DEL MONTE PLANT 35 Project#: BAE28830.P2.03

Submitted: February 23, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample: DM35SB154 Matrix: SOIL

Lab #: 44492-2368 Sampled: February 23, 1994 Analyzed: March 1, 1994

Method: EPA 8010

Method: EPA 8010				
		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
CHLOROMETHANE	N.D.		N.D.	
VINYL CHLORIDE	N.D.	5	N.D.	
BROMOCHLOROMETHANE	N.D.	5 5 5 5 5 5 25	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	<del></del>
1,1-DICHLOROETHENE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.		N.D.	<del></del>
"RANS-1,2-DICHLOROETHENE	N.D.	5	N.D.	<del>-</del> -
IS-1,2-DICHLOROETHENE	N.D.	5	N.D.	90
1,1-DICHLOROETHANE	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	Ŋ.D.	
1,2-DICHLOROETHANE	N.D.	5	N.D.	
TRICHLOROETHENE	N.D.	5	N.D.	76
1,2-DICHLOROPROPANE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
2-CHLOROETHYL VINYL ETHER	N.D.	5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	5	N.D.	
1,1,2-TRICHLOROETHANE	Ŋ.D.	5	N.D.	
TETRACHLOROETHENE	N.D.	5	N.D.	
DIBROMOCHLOROMETHANE	Ŋ.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	Ŋ.D.	78
BROMOFORM	N.D.	5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5	Ŋ.D.	79
1,3-DICHLOROBENZENE	N.D.	ឆមាមមានមានមានមានមានមានមានមានមានមានមានមានម	N.D.	
1,4-DICHLOROBENZENE	N.D.	5	Ŋ.D.	
1,2-DICHLOROBENZENE	N.D.	5	Ŋ.D.	
FREON 113	N.D.	5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Crue Jam / 1/19
Eric Tam

March 2, 1994

ChromaLab File#: 9402290

CH2M HILL OAKLAND

Atten: B. Baumgartner/K. Gally

Project: DEL MONTE PLANT 35 Project#: BAE28830.P2.03

Submitted: February 23, 1994

re: One sample for Volatile Halogenated Organics analysis.

Sample: DM35SB253 Matrix: SOIL

Lab #: 44493-2368 Sampled: February 23, 1994 Analyzed: March 1, 1994

Method: EPA 8010

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
CHLOROMETHANE	N.D.		Ñ.D.	
VINYL CHLORIDE	N.D.	5	N.D.	
BROMOCHLOROMETHANE	N.D.	5	N.D.	<del></del>
CHLOROETHANE	N.D.	5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	5	N.D.	
IS-1,2-DICHLOROETHENE	N.D.	5	N.D.	90
1,1-DICHLOROETHANE	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
1,2-DICHLOROETHANE	N.D.	5	N.D.	===
TRICHLOROETHENE	N.D.	5	N.D.	76
1,2-DICHLOROPROPANE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
2-CHLOROETHYL VINYL ETHER	N.D.	5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	5	Ŋ.D.	
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	
TETRACHLOROETHENE	N.D.	5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5	N.D.	==
CHLOROBENZENE	N.D.	5	N.D.	78
BROMOFORM	N.D.	5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	79
1,3-DICHLOROBENZENE	N.D.	5	N.D.	
1,4-DICHLOROBENZENE	N.D.	. 5	N.D.	
1,2-DICHLOROBENZENE	N.D.	សភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	<del>-</del> -
FREON 113	N.D.	5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Cric Jam/9/7

March 2, 1994

ChromaLab File#: 9402290

CH2M HILL OAKLAND

Atten: B. Baumgartner/K. Gally

Project: DEL MONTE PLANT 35

Submitted: February 23, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Organics analysis.

Sample: DM35SB254 Matrix: SOIL

Lab #: 44494-2368 Sampled: February 23, 1994 Analyzed: March 1, 1994

Method: EPA 8010

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
CHLOROMETHANE	N.D.	5	N.D.	
VINYL CHLORIDE	N.D.	5	N.D.	
BROMOCHLOROMETHANE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	5	N.D.	<del></del>
IS-1,2-DICHLOROETHENE	N.D.	5	N.D.	90
1,1-DICHLOROETHANE	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	Ŋ.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
1,2-DICHLOROETHANE	N.D.	5	Ŋ.D.	
TRICHLOROETHENE	N.D.	5	Ŋ.D.	76
1,2-DICHLOROPROPANE	N.D.	5	Ŋ.D.	
BROMODICHLOROMETHANE	Ŋ.D.	ž	N.D.	
2-CHLOROETHYL VINYL ETHER	N.D.	5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	þ	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	
TETRACHLOROETHENE	N.D.	. 5	N.D. N.D.	
DIBROMOCHLOROMETHANE	N.D.	5 E	N.D.	78
CHLOROBENZENE	N.D.	5	N.D.	70
BROMOFORM	N.D.	5 E	N.D.	79
1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE	N.D. N.D.	5 E	N.D.	79
		5	N.D.	
1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE	N.D. N.D.	ភ ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
FREON 113	N.D.	2	N.D.	= -
LVEON TIE	N.D.	J	*****	· <del>-</del>

ChromaLab, Inc.

David Wintergrass

Chemist

Ene Jam 1911

Environmental Services (SDB)

### HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: March 21, 1994

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35 Method number: EPA 8010

Date Analyzed: Feb. 23, 1994

File number: 9402290

Method: Halogenated Volatiles

Matrix: Soil

#### BLANK RESULT

Compound Name	Result ug/Kg	Reporting Limits
CHLOROMETHANE	N.D.	5.0
VINYL CHLORIDE	N.D.	5.0
BROMOMETHANE	N.D.	5.0
CHLOROETHANE	N.D.	5.0
TRICHLOROFLUOROMETHANE	N.D.	5.0
1,1-DICHLOROETHENE	N.D.	5.0
METHYLENE CHLORIDE	N.D.	25.0
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0
1,2-DICHLOROETHENE (CIS)	N.D.	5.0
1,1-DICHLOROETHANE	N.D.	5.0
CHLOROFORM	N.D.	5.0
1,1,1-TRICHLOROETHANE	N.D.	5.0
CARBON TETRACHLORIDE	N.D.	5.0
1,2-DICHLOROETHANE	N.D.	5.0
TRICHLOROETHENE	N.D.	5.0
1,2-DICHLOROPROPANE	N.D.	5.0
BROMODICHLOROMETHANE	N.D.	5.0
2-CHLOROETHYLVINYLETHER	N.D.	5.0
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0
CIS-1,3-DICHLOROPROPENE	N.D.	5.0
1,1,2-TRICHLOROETHANE	N.D.	5.0
TETRACHLOROETHENE	N.D.	5.0
DIBROMOCHLOROMETHANE	N.D.	5.0
CHLOROBENZENE	N.D.	5.0
BROMOFORM	N.D.	5.0
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0
1,3-DICHLOROBENZENE	N.D.	5.0
1,4-DICHLOROBENZENE	N.D.	5.0
1,2-DICHLOROBENZENE	N.D.	5.0
FREON 113	N.D.	5.0

### HALOGENATED VOLATILES REPORT-QUALITY CONTROL

PAGE 2

Date: March 21, 1994

1,1,2,2

Tetrachloroethane

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35

Date Analyzed: February 23, 1994

File number: 9402290

Method: Halogenated Volatiles

99

60/136

3.0

20

Method number: EPA 8010

Matrix: Soil

MS/MSD SAMPLE SPIKED: BLANK PARAMETER UNITS SAMPLE SPIKE SPIKED DUP DUP CONTROL RPD RPD RESULT CONC SAMPLE REC SPIKE % REC LIMITS LIMIT æ RESULT RESULT 1,1 Dichloroethene μα/Kα N.D. 50 49.5 99 47.0 94 56/118 5.2 20 Trichloroethene µg/Kg N.D. 50 44.0 88 46.0 92 60/129 4.4 20 Tetrachloroethene μg/Kg N.D. 50 48.0 2.1 96 47.0 94 60/127 20

51.0

102

49.5

50

N.D.

μg/Kg

<sup>%</sup> Recovery = (Spike Sample Result-Sample Result)\*100/Spike Concentration RPD (Relative & Difference) = (Spike Result-Duplicate Result)\*100/Average Result

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

PAGE 3

Date: March 21, 1994

Client: CH2M HILL OAKLAND

File number: 9402290

Method: Halogenated Volatiles

Project Name: DEL MONTE PLANT 35

Date Analyzed: Feb. 23, 1994 Method number: EPA 8010

Matrix: Soil

SURROGATE RECOVERIES

Sample	1,4-DICHLOROBUTANE							
BLANK BLANK SPIKE BLANK SPIKE DUPLICATE	99 116 106							
B1S4 B2S3 B2S4	108 110 129							

**CHM** HI.

290/44492 -44419

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

April 1, 1994

ChromaLab File #: 9403025

CH2M HILL OAKLAND 1111 Broadway, Suite 1200 Oakland, CA 94607-4046

Attn: Madeline Wall

RE: Analysis for project DEL MONTE PLANT 35, number BAE28830.P2.03.

REPORTING INFORMATION

Samples were received cold and in good condition on March 1, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all analysis reported.

No discrepancies were observed or difficulties encountered with the analysis.

SAMPLES TESTED IN THIS REPORT

Sample ID	Matrix	Date collected	Lab sample #
DM35GWPK4	WATER	March 1, 1994	45060
DM35GWPK2	WATER	March 1, 1994	45061
DM35GWWH1	WATER	March 1, 1994	45062
DM35GWWH2	WATER	March 1, 1994	45063
DM35GWWH3	WATER	March 1, 1994	45064
DM35GWWHD	WATER	March 1, 1994	45065
TRIP BLANK	WATER	March 1, 1994	45066

Jill Thomas

Quality Assurance Manager

Eric Tam

Environmental Laboratory (1094)

**5 DAYS TURNAROUND** 

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK4

Matrix: WATER

Lab #: 45060-2366 Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

MCCHOC. DIM OUL				
		REPORTING	BLANK	
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L )	(ug/L )	(ug/L )	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	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.	
MÉTHYLENE CHLORIDE	N.D.	5	N.D.	
"RANS-1,2-DICHLOROETHENE	N.D.	5	N.D.	
IS-1,2-DICHLOROETHENE	3.0	0.5	N.D.	90
1,1-DICHLOROETHANE	0.60	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	7.4	0.5	N.D.	76
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		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	N.D.	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	<del></del>
CHLOROBENZENE	N.D.	0.5	N.D.	78
BROMOFORM	N.D.	0.5	N.D.	<b></b>
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	79
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.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc

David Wintergrass

Chemist

Cur Jam / g J J
Eric Tam

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK2 Matrix: WATER

Lab #: 45061-2366 Sampled: March 1, 1994 Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L )	(ug/L )	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	1.07
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	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.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
"RANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	90
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	2.8	0.5	N.D.	76
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	<del></del>
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	N.D.	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROBENZENE	N.D.	0.5	N.D.	78
BROMOFORM	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	Ŋ.D.	79
1,3-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	<del></del>
1,4-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	<del>-</del> -
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Em Jam 1997

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: BAE28830.P2.03

Submitted: March 1, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH1 Matrix: WATER

Lab #: 45062-2366 Sampled: March 1, 1994 Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L )	(ug/L)	(%)
CHLOROMETHANE	Ñ.D.	0.5	Ñ.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	<del></del> ,
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	2.5	0.5	N.D.	<b></b>
IS-1,2-DICHLOROETHENE	42	0.5	N.D.	90
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	25	0.5	N.D.	76
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	Ŋ.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	Ŋ.D.	
1,1,2-TRICHLOROETHANE	Ŋ.D.	0.5	Ŋ.D.	
TETRACHLOROETHENE	59	0.5	Ŋ.D.	<del>-</del> -
DIBROMOCHLOROMETHANE	N.D.	0.5	Ŋ.D.	
CHLOROBENZENE	N.D.	0.5	Ŋ.D.	78
BROMOFORM	N.D.	0.5	Ŋ.D.	70
1,1,2,2-TETRACHLOROETHANE	N.D. N.D.	0.5	N.D.	79
1,3-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	***
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	<del></del> .
FREON 113	N.D.	0.5	N.D.	<del>-</del> - '

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: BAE28830.P2.03

Submitted: March 1, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH2

*Matrix:* WATER

Lab #: 45063-2366 Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L )	(ug/L )	(ug/L )	(%)
CHLOROMETHANE	Ñ.D.	0.5	Ñ.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	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.	<b>←</b> ←
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	3.2	0.5	N.D.	
IS-1,2-DICHLOROETHENE	36	0.5	N.D.	90
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.	<b></b>
TRICHLOROETHENE	29	0.5	N.D.	76
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	<b></b>
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE		0.5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	<del>-</del> -
TETRACHLOROETHENE	25_	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROBENZENE	N.D.	0.5	N.D.	78
BROMOFORM	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	<b>7</b> 9
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,3-DİCHLOROBENZENE 1,4-DİCHLOROBENZENE 1,2-DİCHLOROBENZENE	N.D.	0.5	N.D.	
-,	21.2.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

Chromalab, Inc.

David Wintergrass

Chemist

Enw Jam ) 997

Eric Tam

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH3 Matrix: WATER

Lab #: 45064-2366 Sampled: March 1, 1994 Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(uq/L )	(ug/L )	(ug/L )	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	<del>-</del> -
BROMOCHLOROMETHANE	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.	<b></b>
METHYLENE CHLORIDE	N.D.	5 0.5	N.D.	
TRANS-1,2-DICHLOROETHENE	3.0		Ŋ.D.	90
IS-1,2-DICHLOROETHENE	32_	0.5	Ŋ.D.	
1,1-DİCHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	2.6	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D. N.D.	
CARBON TETRACHLORIDE	N.D.	0.5		
1,2-DICHLOROETHANE	N.D.	V.5	Ŋ.D.	76
TRICHLOROETHENE	20	0.5	и.D.	
1,2-DICHLOROPROPANE	N.D.	0.5	N.D. N.D.	
BROMODICHLOROMETHANE	N.D.	0.5 0.5	N.D.	
2-CHLOROETHYLVINYL ETHER		0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D. N.D.	0.5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
1,1,2-TRICHLOROETHANE TETRACHLOROETHENE	17	0.5	N.D.	
DIBROMOCHLOROMETHANE	Ν΄.D.	0.5	N.D.	
CHLOROBENZENE	N.D.	0.5	N.D.	
BROMOFORM	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	79
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.	
FREON 113	N.D.	0.5	N.D.	
St. St. States Andrew A		- * -		

ChromaLab, Inc.

David Wintergrass

Chemist

Cric Jam/997

Eric Tam

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: BAE28830.P2.03

Submitted: March 1, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWHD Matrix: WATER

Lab #: 45065-2366 Sampled: March 1, 1994 Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L )	(uq/L )	(ug/L )	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	<del></del>
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE METHYLENE CHLORIDE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5 0.5	N.D.	<del></del>
TRANS-1,2-DICHLOROETHENE	1.9	0.5	N.D.	** *-
IS-1,2-DICHLOROETHENE	25	0.5	N.D.	90
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	3.1	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	Ŋ.D.	= -
TRICHLOROETHENE	19_	0.5	N.D.	76
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.	<b></b> .
CIS-1,3-DICHLOROPROPENE		0.5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	
TETRACHLOROETHENE	15_	0.5	Ŋ.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROBENZENE BROMOFORM	N.D.	0.5	N.D.	78
	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	79
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	<del></del>
1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE	N.D. N.D.	0.5	N.D.	
FREON 113		0.5	N.D.	<del></del>
LUDON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.,

David Wintérgrass

Chemist

Our Cam/977 Eric Tam

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: BAE28830.P2.03

Submitted: March 1, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK Matrix: WATER

Lab #: 45066-2366 Sampled: March 1, 1994 Analyzed: March 1, 1994

Method: EPA 601

neemod. En oor				
		REPORTING		BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(uq/L )	(ug/L )	(uq/L )	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	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 5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	90
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.	<del></del>
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROETHENE	N.D.	0.5	N.D.	76
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	N.D.	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	==
CHLOROBENZENE	N.D.	0.5	N.D.	78
BROMOFORM	N.D.	0.5	N.D.	==
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	79
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.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc

David Wintergrass

Chemist

Cincam/917

Eric Tam

Environmental Services (SDB)

### HALOGENATED VOLATILES REPORT-QUALITY CONTROL

April 4, 1994 Date:

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35 Method number: EPA 601

Date Analyzed: March 1, 1994

File number: 9403025

Method: Halogenated Volatiles

Matrix: Water

#### METHOD BLANK

Compound Name	Result ug/L	Reporting Limits ug/L
CHLOROMETHANE	N.D.	0.5
VINYL CHLORIDE	N.D.	0.5
BROMOMETHANE	N.D.	0.5
CHLOROETHANE	N.D.	0.5
TRICHLOROFLUOROMETHANE	N.D.	0.5
1,1-DICHLOROETHENE	N.D.	0.5
METHYLENE CHLORIDE	N.D.	5.0
1,2-DICHLOROETHENE (TRANS)	N.D.	0.5
1,2-DICHLOROETHENE (CIS)	N.D.	0.5
1,1-DICHLOROETHANE	N.D.	0.5
CHLOROFORM	N.D.	0.5
1,1,1-TRICHLOROETHANE	N.D.	0.5
CARBON TETRACHLORIDE	N.D.	0.5
1,2-DICHLOROETHANE	N.D.	0.5
TRICHLOROETHENE	N.D.	0.5
1,2-DICHLOROPROPANE	N.D.	0.5
BROMODICHLOROMETHANE	N.D.	0.5
2-CHLOROETHYLVINYLETHER	N.D.	0.5
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5
CIS-1,3-DICHLOROPROPENE	N.D.	0.5
1,1,2-TRICHLOROETHANE	N.D.	0.5
TETRACHLOROETHENE	N.D.	0.5
DIBROMOCHLOROMETHANE	N.D.	0.5
CHLOROBENZENE	N.D.	0.5
BROMOFORM	N.D.	0.5
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5
1,3-DICHLOROBENZENE	N.D.	0.5
1,4-DICHLOROBENZENE	N.D.	0.5
1,2-DICHLOROBENZENE	N.D.	0.5
FREON 113	N.D.	0.5

### HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 2

Date: April 4, 1994

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35

Date Analyzed: March 1, 1994

File number: 9403025

Method: Halogenated Volatiles

Method number: EPA 601

Matrix: Water

MS/MSD

Sample Spiked:

BLANK

			<del></del>							· · · · · · · · · · · · · · · · · · ·
PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD %	RPD LIMIT
trans,1,2 Dichloroethene	μg/L	N.D.	20	17.2	86	15.4	77	56/118	11	20
Methlene Chloride	μg/L	N.D.	20	17.0	85	14.2	71	60/129	18	20
Bromodichloromethane	μg/L	N.D.	20	22.0	110	24.2	121	60/127	9.5	20
Bromoform	μg/L	N.D.	20	25.2	126	23.8	119	60/136	5.7	20

<sup>%</sup> Recovery = (Spike Sample Result-Sample Result)\*100/Spike Concentration
RPD (Relative % Difference) = (Spike Result-Duplicate Result)\*100/Average Result

Environmental Services (SDB)

### HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 3

Date: April 4, 1994

File number: 9403025

Client: CH2M HILL OAKLAND

Method: Halogenated Volatiles

Project Name: DEL MONTE PLANT 35 Method number: EPA 601

Date Analyzed: March 1, 1994

Matrix: Water

### SURROGATE RECOVERIES

Sample	1,4-Dichlorobutane Recovery (%)	
-		
Blank	101	
Blank Spike	118	
Blank Spike Duplicate	121	
DM35GWPK4	125	
DM35GWPK2	101	
DM35GWWH1	115	
DM35GWWH2	103	
DM35GWWH3	100	
DM35GWWHD	97	
TRIP BLANK	119	

WALYTICAL LABORATORIES CHANGE CUSTODY HECORD AND AGREEMENT TO PERFORM SERVICES

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Project Manager & Phone # Mr.   T BERN BAUMGARTAIN Ms. [] Dr. []	Report Copy to:  MADEUNE W.	face 6	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1916	LYSES REQUESTED	: !	P	oject #	<u>.</u>		
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**Environmental Services (SDB)** 

April 7, 1994

ChromaLab File #: 9403052

CH2M HILL OAKLAND 1111 Broadway, Suite 1200 Oakland, CA 94607-4046

Attn: Madeline Wall

RE: Analysis for project DEL MONTE PLANT 35, number BAE28830.PZ.03.

REPORTING INFORMATION

Samples were received cold and in good condition on March 2, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all analysis reported.

No discrepancies were observed or difficulties encountered with the analysis.

SAMPLES TESTED IN THIS REPORT

Sample ID	Matrix	Date collected	Lab sample #
DM35-HA-1	SOIL	March 2, 1994	45218
DM35-HA-2	SOIL	March 2, 1994	45219
DM35-HA-3	SOIL	March 2, 1994	45220
DM35-HA-4	SOIL	March 2, 1994	45221
DM35-HA-5	SOIL	March 2, 1994	45222
DM35-HA-6	SOIL	March 2, 1994	45223
DM35-MW122	WATER	March 2, 1994	45224
DM35-MW122	WATER	March 2, 1994	45225
TRIP BLANK	WATER	March 2, 1994	45226

Jill Thomas

Quality Assurance Manager

Eric Tam

March 3, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 2, 1994

Project#: BAE28830.PZ.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35-MW122 Matrix: WATER

Lab #: 45224-2376 Sampled: March 2, 1994 Analyzed: March 2, 1994

Method: EPA 601

Method: EPA 601				
		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L )	(ug/L )	(ug/L )	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	6.8	0.5	N.D.	
BROMOMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	Ŋ.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	2.3	0.5	N.D.	
IS-1,2-DICHLOROETHENE	33	0.5	N.D.	81
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	101
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	Ŋ.D.	
TRICHLOROETHENE	170	0.5	N.D.	
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	110
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	Ŋ.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	Ŋ.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	Ŋ.D.	118
1,1,2-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	
TETRACHLOROETHENE	16_	0.5	Ŋ.D.	<del></del>
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	<del>-</del> - '
CHLOROBENZENE	N.D.	0.5	N.D.	
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.	<del></del>
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

March 3, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 2, 1994

Project#: BAE28830.PZ.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK

Matrix: WATER

Lab #: 45226-2376 Sampled: March 2, 1994

Analyzed: March 2, 1994

Method: EPA 601

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		REPORTING		BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(uq/L )	(ug/L)	(ug/L )	(%)
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.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	<del></del>
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	81
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	
'CHLOROFORM	N.D.	0.5	N.D.	<del></del>
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	101
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	
'TRICHLOROETHENE	N.D.	0.5	N.D.	
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	<del></del>
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	110
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE		0.5	N.D.	<b>+</b> -
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	118
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	
TETRACHLOROETHENE	N.D.	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROBENZENE	N.D.	0.5	N.D.	
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.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

**Environmental Services (SDB)** 

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-1 Matrix: SOIL

Lab #: 45218-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

Method: EPA 8240				TENTE COTE
		REPORTING	BLANK_	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg) _	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	5	N.D.	<del>-</del> -
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	Ŋ.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
2-CHLOROETHYLVINYLETHER	N.D. N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
YLOROMETHANE	N.D.	5	Ŋ.D.	<del>-</del> -
JIBROMOCHLOROMETHANE	N.D.	5	N.D.	95
1,1-DICHLOROETHANE	N.D.	5	Ŋ.D.	95
1,2-DICHLOROETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	· N.D.	5	N.D.	<b>+ -</b>
1,1-DICHLOROETHENE 1,2-DICHLOROETHENE (CIS) 1,2-DICHLOROETHENE (TRANS)	N.D.	ž	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	<del></del>
1,2-DICHLOROPROPANE 1,3-DICHLOROPROPENE (CIS)	N.D.	ž	N.D. N.D.	<del>-</del> -
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	2	N.D.	- <b>-</b>
ETHYL BENZENE	N.D. N.D.	5	N.D.	
2-HEXANONE	M.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	23	N.D.	
4-METHYL-2-PENTANONE	N.D.	5	N.D.	
STYRENE	N.D.	5	N.D.	120
1,1,2,2-TETRACHLOROETHANE	N.D.	2	N.D.	90
TETRACHLOROETHENE	N.D. N.D.	ž	N.D.	
TOLUENE	N.D.	Ĕ	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	Ĕ	N.D.	<del>-</del> -
1,1,2-TRICHLOROETHANE	N.D.	ž	N.D.	85
TRICHLOROETHENE	N.D.	Š	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	š	N.D.	
VINYL ACETATE VINYL CHLORIDE	N.D.	5	N.D.	
XYLENES (TOTAL)	N.D.	ភមិន មាន មាន មាន មាន មាន មាន មាន មាន មាន មា	N.D.	
VIDENES (ICIND)	11.2.	_		

ChromaLab,

David Wintergrass

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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-2 Matrix: SOIL

Lab #: 45219-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

Method: EPA 8240				
		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	, , , , , , , , , , , , , , , , , , ,	N.D.	
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D. N.D.	5	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	N.D.	5	N.D.	<b>** -</b>
IBROMOCHLOROMETHANE	N.D.	5	N.D.	<del>-</del> +
1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHENE 1,2-DICHLOROETHENE (CIS) 1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROPROPANE 1,3-DICHLOROPROPENE (CIS) 1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D. N.D. N.D.	5	N.D.	<b>-</b> -
1,1-DICHLOROETHENE	N.D.	5	N.D.	
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	<del></del>
1,2-DICHLOROPROPANE	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D. N.D.	5	N.D. N.D.	<del>-</del> -
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	
EIHIL BENZENE	N.D. N.D.	5	Ŋ.D.	
2-HEXANONE	N.D.	5_	Ŋ.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	
4-METHYL-2-PENTANONE	N.D.	5	N.D.	<b></b>
STYRENE	N.D.	5	N.D.	120
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D. N.D.	90
TETRACHLOROETHENE	พ.ก.	5	N.D.	30
TOLUENE	N.D. N.D. N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	M.D.	5	N.D.	, – – – <b>–</b>
1,1,2-TRICHLOROETHANE	N.D.	ב	N.D.	85
TRICHLOROETHENE	N.D.	5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
VINYL ACETATE	N.D. N.D.	<u> </u>	N.D.	
VINYL CHLORIDE	N.D.	ž K	N.D.	
XYLENES (TOTAL)	и.р.	٠,	44 0 37 0	

ChromaLab, Inc

David Wintergrass

aemist

Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-3 Matrix: SOIL

Lab #: 45220-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(uq/Kg)	(ug/Kg)	<u>(%)</u>
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	<del></del>
BROMOFORM	N.D.	5	N.D.	<b></b>
BROMOMETHANE	N.D.	5	N.D.	<del></del>
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	<b></b>
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	N.D.	5	N.D.	
_ IBROMOCHLOROMETHANE	N.D.	555555555555555555555555555555555555555	N.D.	
1,1-DICHLOROETHANE	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	N.D.	5	N.D.	
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	
1,2-DICHLOROPROPANE	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	
ETHYL BENZENE	N.D.	5	N.D.	<del></del>
2-HEXANONE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	
4-METHYL-2-PENTANONE	N.D.	5	N.D.	
STYRENE	N.D.	5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	120
TETRACHLOROETHENE	N.D.	5	N.D.	90
TOLUENE	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	Š	N.D.	
TRICHLOROETHENE	N.D.	5	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE	N.D.	5	N.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	·
	44.4	-		

ChromaLab, Inc.

Pavid Wintergrass

.emist

Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-4

Matrix: SOIL

Lab #: 45221-2448 Sampled: March 2, 1994

Analyzed: March 8, 1994

Method: EPA 8240

Method: EPA 8240				
		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	ร์	N.D.	
BROMODICHLOROMETHANE	N.D.	Š	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	Š	N.D.	<b></b>
2-BUTANONE	N.D.	Š	N.D.	<b></b>
CARBON TETRACHLORIDE	N.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	<del></del>
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	N.D. N.D.	5	N.D.	<b>-</b> -
_IBROMOCHLOROMETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHANE	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	N.D. N.D.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5	N.D.	
1.2-DICHLOROPROPANE	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	
ETHYL BENZENE	N.D.	5	N.D.	
2-HEXANONE	N.D.	5	N.D. N.D.	<b></b>
METHYLENE CHLORIDE	N.D.	25	N.D.	
4-METHYL-2-PENTANONE	N.D.	5	N.D.	<del>~ -</del>
STYRENE	N.D.	5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	120
TETRACHLOROETHENE	N.D.	5	N.D.	90
TOLUENE	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	Ŋ.D.	
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	~-
TRICHLOROETHENE	N.D.	5	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	55555555555555	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE	Ŋ.D.	ž	Ŋ.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	

ChromaLab, Inc.

Pavid Wintergrass

nemist

Eric Tam

Laboratory Director

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-5 Matrix: SOIL

Lab #: 45222-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

nethod. Hir 0240		DEDODETIVA	DT 3377	BLANK SPIKE
		REPORTING	BLANK	
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(uq/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	5	N.D.	
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	<del>-</del> -
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	<b></b>
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	
CHLOROFORM	N.D. N.D.	5	N.D.	
HLOROMETHANE	N.D.	5	N.D.	
_IBROMOCHLOROMETHANE	N.D.	5	N.D.	<b></b>
1,1-DICHLOROETHANE	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D.	5	N.D.	
1.1-DICHLOROETHENE	N.D.	5	N.D.	
1.2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	
1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROPROPANE	N.D.	5	N.D.	· <del></del>
1,2-DICHLOROPROPANE	N.D.	5	N.D.	<del>-</del> -
1,3-DICHLOROPROPENE (CIS)	N.D. N.D. N.D.	5	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	
ETHYL BENZENE	N.D.	5	N.D.	<del></del>
2-HEXANONE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	<del>-</del> -
4-METHYL-2-PENTANONE	N.D.	5	N.D. N.D.	
STYRENE	N.D.	5	N.D.	<del></del>
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	120
TETRACHLOROETHENE	N.D.	5	N.D.	90
TOLUENE	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	<del>-</del> -
1,1,2-TRICHLOROETHANE	N.D.	5	Ŋ.D.	
TRICHLOROETHENE	N.D.	5	N.D.	<b>8</b> 5
TRICHLOROFLUOROMETHANE	N.D.	។ ១៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE	N.D.	5	Ŋ.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	

ChromaLab, Inc

Pavid Wintergrass

nemist

Eric Tam

Laboratory Director

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND
Atten: Madeline Wall

Project: DEL MONTE PLANT 35 Project#: BAE28830.PZ.03

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-6 Matrix: SOIL

Lab #: 45223-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	5	N.D.	
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	N.D.	5	N.D.	
IBROMOCHLOROMETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHANE	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHENE	N.D.	555555555555555555555555555555555555555	N.D.	<del></del>
1,2-DICHLOROETHENE (CIS)	N.D.	5	N.D.	<del>-</del> -
1,2-DICHLORUEIRENE (IRANS)	N.D.	5	N.D.	
1,2-DICHLOROPROPANE 1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5	N.D.	<del>-</del> -
1,3-DICHLOROPROPENE (TRANS)	N.D.	5	N.D.	
ETHYL BENZENE	N.D.	5	N.D.	
2-HEXANONE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	25	N.D.	
4-METHYL-2-PENTANONE	N.D.	5	N.D.	
STYRENE	N.D.	5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5	N.D.	120
TETRACHLOROETHENE	N.D.	5	N.D.	90
TOLUENE	N.D.	5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	
TRICHLOROETHENE	N.D.	5	Ŋ.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5555555555555	N.D.	
VINYL ACETATE	N.D.	5	Ŋ.D.	
VINYL CHLORIDE	N.D.	5	Ŋ.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	

ChromaLab, Inc.

David Wintergrass

hemist

Eric Tam

Laboratory Director

Environmental Services (SDB)

### VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date: April 5, 1994

9403052 File No:

Client: CH2M HILL OAKLAND

Method: Volatile Organics

Project Name: DEL MONTE PLANT 35

Project Number: BAE28830.PZ.03

Method No: EPA 8240

Date Analyzed: March 25, 1994

Matrix: Soil

#### **BLANK RESULT:**

Compound Name	Result ug/Kg	Reporting Limit ug/Kg
CHLOROMETHANE	N.D.	5.0
VINYL CHLORIDE	N.D.	5.0
BROMOMETHANE	N.D.	5.0
CHLOROETHANE	N.D.	5.0
		5.0
TRICHLOROFLUOROMETHANE 1,1-DICHLOROETHENE METHYLENE CHLORIDE 1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROETHENE (CIS) 1,1-DICHLOROETHANE CHLOROFORM 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE 1,2-DICHLOROETHANE	N.D.	5.0
METHYLENE CHLORIDE	N.D.	25.0
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0
1,2-DICHLOROETHENE (CIS)	N.D.	5.0
1,1-DICHLOROETHANE	N.D.	5.0
CHLOROFORM	N.D.	5.0
1,1,1-TRICHLOROETHANE	N.D.	5.0
CARBON TETRACHLORIDE	N.D.	5.0
1,2-DICHLOROETHANE	N.D.	5.0
BENZENE	N.D.	5.0
TRICHLOROETHENE	N.D.	5.0
1,2-DICHLOROPROPANE	N.D.	5.0
1,2-DICHLOROETHANE BENZENE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE 2-CHLOROETHYLVINYLETHER TRANS-1,3-DICHLOROPROPENE TOLUENE CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE	N.D.	5.0
2-CHLOROETHYLVINYLETHER	N.D.	5.0
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0
TOLUENE	N.D.	5.0
TOLUENE CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE TETRACHLOROETHENE DIBROMOCHLOROMETHANE CHLOROBENZENE ETHYL BENZENE BROMOFORM	N.D.	5.0
1,1,2-TRICHLOROETHANE	N.D.	5.0
TETRACHLOROETHENE	N.D.	5.0
DIBROMOCHLOROMETHANE	N.D.	5.0
CHLOROBENZENE	N.D.	5.0
ETHYL BENZENE	N.D.	5.0
BROMOFORM	N.D.	5.0
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0
1,3-DICHLOROBENZENE	N.D.	5.0
1,4-DICHLOROBENZENE	N.D.	5.0
1,2-DICHLOROBENZENE	N.D.	5.0
TOTAL XYLENES	N.D.	5.0
BROMOFORM  1,1,2,2-TETRACHLOROETHANE  1,3-DICHLOROBENZENE  1,4-DICHLOROBENZENE  1,2-DICHLOROBENZENE  TOTAL XYLENES  ACETONE	N.D.	25.0
METHYL ETHYL KETONE	N.D.	5.0
METHYL ISOBUTYL KETONE	N.D.	5.0

### VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date:April 5, 1994

File number: 9403052

Client: CH2M HILL OAKLAND

Method: Volatile Organics Method number: EPA 8240

Project Name: DEL MONTE PLANT 35 Project Number: BAE28830.PZ.03

Matrix: Soil

Tetrachloroethane

Date Analyzed: March 25, 1994

MS/MSD

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD	RPD LIMIT
1,1-Dichloroethane	μ <b>g/K</b> g	N.D.	100	99	99	105	105	56/118	5.9	20
Trichloroethene	μg/Kg	N.D.	100	95	95	90	90	60/129	5.4	20
Tetrachloroethene	μg/Kg	N.D.	100	86	86	93	93	60/127	7.8	20
1,1,2,2-	μg/Kg	N.D.	100	101	101	108	108	60/136	6.7	20

Sample Spiked: Blank

<sup>%</sup> Recovery = (Spike Sample Result-Sample Result)\*100/Spike Concentration RPD (Relative % Difference) = (Spike Result-Duplicate Result)\*100/Average Result

Environmental Services (SDB)

#### VOLATILE ORGANICS REPORT-QUALITY CONTROL

page 3

Date: April 5, 1994

CH2M HILL OAKLAND Client:

Project Name: DEL MONTE PLANT 35 Project Number: BAE28830.PZ.03 Date Analyzed: March 25, 1994

File number: 9403052 Method: Volatile Organics Method number: EPA 8240

Matrix: Soil

### SURROGATE RECOVERIES

Sample	D4-1,2	DICHLOROETHANE	D8-TOLUENE %	BROMOFLUOROBENZENE
Blank		95	100	91
Blank Spike		101	104	99
Blank Spike	Dup.	103	100	102
DM-35-HA-1		89	100	86
DM-35-HA-2		93	100	87
DM-35-HA-3		90	101	86
DM-35-HA-4		91	103	86
DM-35-HA-5		91	89	89
DM-35-HA-6		92	101	79

**CHM** HI.



052 4121845226

QUALITY ANALYTICAL LABORATORIES	CHAIN	OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES	
CH2M HILL Project # Purchase Order # BAE18830 PZ 03		LAB TEST COD SUBM #: 9403052	NLY
	······	CLIENT: CH2	
Der Monte Plant 35		BUE: 03/09/94 REF: 15402	
Company Name/CH2M HILL Office			
CHAM HILL SFO	P		
Project Manager & Phone # Report Copy to:		ANALYSES REQUESTED Project #	# · I · · · = · · · · · · · · · · · · · ·
Mr. H BORN MADERINE			
Dr.   BAUMGARTHER WALL  Requested Completion Date: Sampling Requirements Sampling	ole Disposal:	No. of Samples	Page of
	Return A	6 6 6 70	
Type Matrix	N E	COC Rev Login	LIMS Ver Ack Gen
Sampling C G W S CLIENT SAMPLE ID (9 CHARACTERS)	a l		
Date Time (9 CHARACTERS)	ľ	REMARKS	LAB 1 LAB 2
3/2/94 1115 X X D M 3 5 - H	A - 1 1	X 5- DAY	-
	1 - 21	X 5-DAY	
3/2/94 1118 x x DM 3 5 - H , 3/2/94 1124 x x DM 3 5 - H ,	A - 3 1	X 5- Dry	
3/2/14 1127 X X D M 3 5 - H	A - A 1	X 5- Day	
	1-51	X 5- DAY	
	W 1 2 2	X X S-DAY	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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3/2/94   7   17   18   2	ANKI		
			and the constitution of th
Sampled By a fittle (Please offin and print ryme)	Date/Time	Relinguished By (Planguist and print name) Date/Time (100 HAZWRAP	/NESSA: Y N
heith I hally heith Golf -	3/2/9/ /300 Date/Time	Relinquished By (Sphere stayland print name) Date/Time 408 HAZWRAP	
Réceived By (Plant aign and print name)	Date/Time <i>3-2-9Y 140\$</i>	Relinquisher by (Please of in and print name) Date/Time QC Level:	1 2 3 Other:
Received By Diease sign and print name)	Date/Time	Relinquished By Please sign and print name) Date/Time Ana Req	TEMP
Received By (Please sign and print name) [	Date/Time	Cust Seat Shipped Vie Shipping #	Ph
Trocered by (Construction)	eur/Inte	UPS BUS Fed-Ex Hand Other	
Work Authorized By (Please sign and print name)	Remarks		



#### EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03705.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03705

Matrix:

water

Field ID Number:

DM35-WH-4

Dilution Factor:

1

Analytes	Results	DL	Analytes	Results	DL
Велгеле	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	l	cis-1.3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5
Chloromethane	ND	I	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	1	Trichloroethene	ND	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1
1.1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1
1.2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		บ2/ไ	ug/l

			the state of the s		1200
			ISO DID Commende Of Deservement	3.173	70% to 120%
ELCD Surrogate % Recovery:	96	170% to 120%	PID Surrogate % Recovery:	NR	/U% (U 12U%   1583
EBOB Buttegers to troop only.			6		

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030 .

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94



#### EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

Project Number:

BAE28830.P2.03<sup>-</sup> 2A03701.HAL

Date Reported:

18-Apr-94

Report Number:

- -

\_

cc:

Bern Baumgartner

Lab ID Number:

2A03701

Matrix:

water

Field ID Number:

DM35-WH-5

**Dilution Factor:** 

2.5

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	0.7	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	16	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	I	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chioroform	ND	0.5	Tetrachioroethene	120	0.5
Chloromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	l	Trichloroethene	50	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1
1,1-Dichloroethane	ND	0.5	Vinyl chloride	84	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l	<b>3</b>	ug/l	ug/l

ELCD Surrogate % Recovery:	120	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/i - Micrograms per liter (PPB).

DL - Detection limit.

**DF** - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### **CERTIFICATION:**

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538. (510) 490-8571

Laboratory Director

4-18-94



### **Analytical Laboratory Report** EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

**Project Number:** 

BAE28830.P2.03

Date Reported:

2A03707.HAL

18-Apr-94

Report Number:

Bern Baumgartner

Lab ID Number:

2A03707

Matrix:

water

Field ID Number:

DM35-WH-6

**Dilution Factor:** 

1

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	ı	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chioroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	DN	0.5
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5
Chloromethane	ND	l	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	I	Trichloroethene	ND	0.5
I,4-Dichlorobenzene	ND	i	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1.2-Trichlorotrifluoroethane	NR	1
1.1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR :	0.5
Units:	ug/l	นธ์\		นg/l	<b>₽6</b> \]

			<u></u>		
ELCD Surrogate % Recovery:	94	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94



#### EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

19-Apr-94

Report Number:

2A03703.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03703

Matrix:

water

Field ID Number:

DM35-WH-7

**Dilution Factor:** 

2

Analytes	Results	DL	0.0 20 20	Analytes	Results	DL	
Benzene	NR	0.5		1,1-Dichloroethene	ND	0.5	
Bromodichloromethane	ND	0.5		trans-1,2-Dichloroethene	12	0.5	
Bromoform	ND	0.5		1,2-Dichloropropane	ND	0.5	3888
Bromomethane	ND	1		cis-1,3-Dichtoropropene	ND	0.5	
Carbon tetrachloride	ND	0.5		trans-1,3-Dichloropropene	ND	0.5	300
Chlorobenzene	ND	0.5		Ethylbenzene	NR	0.5	Š
Chloroethane	ND	1		Methylene chloride	ND	0.5	
2-Chloroethylvinylether	ND	2		1,1,2,2-Tetrachloroethane	ND	0.5	330
Chloroform	ND	0.5		Tetrachloroethene	97	0.5	
Chloromethane	ND	1		Toluene	NR	0.5	
Dibromochloromethane	ND	0.5		1,1,1-Trichloroethane	ND	0.5	
1,2-Dichlorobenzene	ND	1	*	1,1,2-Trichloroethane	ND	0.5	
1,3-Dichlorobenzene	ND	1		Trichloroethene	81	0.5	
1,4-Dichlorobenzene	ND	i		Trichlorofluoromethane	ND	1	
Dichlorodifluoromethane	ND	1		1,1,2-Trichlorotrifluoroethane	NR	1	
1,1-Dichloroethane	ND	0.5		Vinyl chloride	11	1	3
1.2-Dichloroethane	ND	0.5	933	Total-Xylenes	NR	0.5	
Units:	ug/i	սջ/1			ug/l	ug/l	

ELCD Surrogate % Recover 120	0 70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%	

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

<del>1-18-94</del>



### Analytical Laboratory Report EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03702.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03702

Matrix:

water

Field ID Number:

DM35-WH-8

**Dilution Factor:** 

2

Analytes	Results	DL	(1) (1)	Analytes	Results	DL	
Benzene	NR	0.5		1,1-Dichloroethene	ND	0.5	
Bromodichloromethane	ND	0.5		trans-1,2-Dichloroethene	ND	0.5	
Bromoform	ND	0.5		1,2-Dichloropropane	ND	0.5	
Bromomethane	ND	l		cis-1,3-Dichloropropene	ND	0.5	
Carbon tetrachloride	ND	0.5		trans-1,3-Dichloropropene	ND	0.5	
Chlorobenzene	ND	0.5		Ethylbenzene	NR	0.5	
Chloroethane	ND	1		Methylene chloride	ND	0.5	
2-Chloroethylvinylether	ND	2		1,1,2,2-Tetrachioroethane	ND	0.5	
Chloroform	ND	0.5		Tetrachloroethene	ND	0.5	
Chloromethane	ND	1		Toluene	NR	0.5	
Dibromochloromethane	ND	0.5		1,1,1-Trichloroethane	ND	0.5	
1,2-Dichlorobenzene	ND	l		1,1,2-Trichloroethane	ND	0.5	
1,3-Dichlorobenzene	ND	1		Trichloroethene	ND	0.5	
I,4-Dichlorobenzene	ND	ì		Trichlorofluoromethane	ND	1	
Dichlorodifluoromethane	ND	i		1,1,2-Trichlorotrifluoroethane	NR	1	
1,1-Dichioroethane	ND	0.5		Vinyl chloride	ND	ì	
1,2-Dichloroethane	ND	0.5		Total-Xylenes	NR	0.5	
Units:	ug/l	ug/i			ug/l	ug/l	

CD Surrogate % Recovery:	98	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

**DF - Dilution Factor** 

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538. (510) 490-8571

Laboratory Director

4-18-94

Date

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#### EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

**Project Number:** 

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03704.HAL

Lab ID Number:

Matrix:

cc:

Bern Baumgartner water

Field ID Number:

2A03704

**Dilution Factor:** 

1

DM35-WH-D

Analytes	Results	DL	Analytes	Results	DL	
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5	1
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5	
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5	100
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5	
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5	
Chiorobenzene	ND	0.5	Ethylbenzene	NR	0.5	
Chloroethane	ND	1	Methylene chloride	ND	0.5	3
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5	ं
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5	
Chioromethane	ND	1	Toluene	NR	0.5	*
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5	
1,2-Dichlorobenzene	ND	Ī	1,1,2-Trichloroethane	ND	0.5	180
1.3-Dichlorobenzene	ND	1	Trichloroethene	ND	0.5	
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1	
Dichlorodifluoromethane	ND	l	1,1,2-Trichlorotrifluoroethane	NR	1	
1,1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1	. 8
1.2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5	
Units:	ug/l	ug/l		ug/l	ug/l	

ELCD Surrogate % Recovery:	101 70	% to 120% PID Surrog	gate % Recovery:	NR	70% to 120%	1.3

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571



EPA Methods 8010/8020

Date Sampled:

11-Apr-94

Project Manager:

Madeline Wall

Date Received:

11-Apr-94

Client:

CH2MHill

Date Analyzed:

11-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03706.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03706

Matrix:

water

Field ID Number:

DM35-WH-9

**Dilution Factor:** 

1

Analytes	Results	ÐL	Anaiytes	Results	DL	
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5	
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5	
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5	
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5	
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5	
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5	**
Chloroethane	ND	1	Methylene chloride	ND	0.5	
2-Chloroethylvinylether	ND	2	1,1.2,2-Tetrachloroethane	ND	0.5	
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5	
Chloromethane	ND	1	Toluene	NR	0.5	
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5	
1,2-Dichlorobenzene	ND	1	1.1.2-Trichloroethane	ND	0.5	
1,3-Dichlorobenzene	ND	1	Trichloroethene	ND	0.5	
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1	
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1	8
1,1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1	
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5	
Units:	ug/l	บย/ไ		пã\J	ug/l	

ELCD Surrogate % Recovery:	92	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94



### EPA Methods 8010/8020

Date Sampled: 12-Apr-94 Project Manager: Madeline Wall

Date Received: 12-Apr-94 Client: CH2MHill

Date Analyzed: 12-Apr-94 Project Number: BAE28830.P2.03

Date Reported: 18-Apr-94 Report Number: 2A03713.HAL

cc: Bern Baumgartner

Lab ID Number: 2A03713 Matrix: water

Field ID Number: DM35-WH10 Dilution Factor: 10

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	28	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	100	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chloroform	ND	0.5	Tetrachloroethene	520	0.5
Chioromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	l	1.1.2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	Ī	Trichloroethene	110	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1
1,1-Dichloroethane	ND	0.5	Vinyl chloride	120	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	ug/l

ELCD Surrogate % Recovery:	114	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### **CERTIFICATION:**

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94



EPA Methods 8010/8020

Date Sampled:

12-Apr-94

Project Manager:

Madeline Wall

Date Received:

12-Apr-94

Client:

CH2MHill

Date Analyzed:

12-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03714.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03714

Matrix:

water

Field ID Number:

DM35-WH11

**Dilution Factor:** 

1

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chloroform	ND	0.5	Tetrachloroethene	2.9	0.5
Chloromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	1	Trichloroethene	0.9	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	11
1,1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		n&\	ug/l

ELCD Surrogate % Recovery:	104	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### **PROCEDURES:**

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030 .

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

<u>4-18-94</u>



**EPA Methods 8010/8020** 

Date Sampled: 12-Apr-94

Apr-94 Project Manager:

Madeline Wall

Date Received:

12-Apr-94

Client:

CH2MHill

Date Analyzed:

12-Apr-94

Project Number:

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03715.HAL Bern Baumgartner

Lab ID Number:

2A03715

Matrix:

cc:

water

Field ID Number:

DM35-WH12

Dilution Factor:

ĺ

Analytes	Results	DL	Analytes	Results	DL
Веплепе	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5
Chloromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	1	Trichloroethene	ND	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1.1.2-Trichlorotrifluoroethane	NR	1
1,1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	ug/l

						E
ELCD Surrogate % Recovery:	104	70% to 170%	PID Surrogate % Recovery:	NR	70% to 120%	
TELED Surrogate 70 Recovery.	104	1/0/6/10 120/0	main in the control of the control o			

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94

Date

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EPA Methods 8010/8020

Date Sampled:

12-Apr-94

Project Manager:

Madeline Wall

Date Received:

12-Apr-94

Client:

CH2MHill

Date Analyzed:

12-Apr-94

**Project Number:** 

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03716.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03716

Matrix:

water

Field ID Number:

DM35-WH13

**Dilution Factor:** 

1

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	ND	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chlorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachioroethane	ND	0.5
Chloroform	ND	0.5	Tetrachloroethene	ND	0.5
Chloromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	1	Trichloroethene	ND	0.5
1,4-Dichlorobenzene	ND	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	ì
1,1-Dichloroethane	ND	0.5	Vinyl chloride	ND	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	ug/l

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ELCD Surrogate % Recovery:	92	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### **PROCEDURES:**

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### CERTIFICATION:

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

P. Polen

Laboratory Director

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EPA Methods 8010/8020

Date Sampled: 12-Apr-94 Project Manager:

Madeline Wall

Date Received: 12-Apr-94

Client:

CH2MHill

Date Analyzed:

12-Apr-94

**Project Number:** 

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03718.HAL

cc:

Bern Baumgartner

Lab ID Number:

2A03718

Matrix:

water

Field ID Number:

DM35-WH14

**Dilution Factor:** 

2.5

Analytes	Results	DL	Analytes	Results	DL
Benzene	NR	0.5	1,1-Dichloroethene	ND	0.5
Bromodichloromethane	ND	0.5	trans-1,2-Dichloroethene	15	0.5
Bromoform	ND	0.5	1,2-Dichloropropane	ND	0.5
Bromomethane	ND	1	cis-1,3-Dichloropropene	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,3-Dichloropropene	ND	0.5
Chiorobenzene	ND	0.5	Ethylbenzene	NR	0.5
Chloroethane	ND	1	Methylene chloride	ND	0.5
2-Chloroethylvinylether	ND	2	1,1,2,2-Tetrachloroethane	ND	0.5
Chloroform	ND 0.5 Tetrachloroethene		ND	0.5	
Chloromethane	ND	1	Toluene	NR	0.5
Dibromochloromethane	ND	0.5	I,1,1-Trichloroethane	ND	0.5
1,2-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	0.5
1,3-Dichlorobenzene	ND	1	Trichloroethene	4.4	0.5
1,4-Dichlorobenzene	ND	ì	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1
1,1-Dichloroethane	ND	0.5	Vinyl chloride	19	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	นg/l

				,	Led
ELCD Surrogate % Recovery:	106	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/l - Micrograms per liter (PPB).

DL - Detection limit.

**DF** - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### **CERTIFICATION:**

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

Laboratory Director

4-18-94



EPA Methods 8010/8020

Date Sampled: 12-Apr-94

Project Manager:

Madeline Wall

Date Received:

12-Apr-94

Client:

CH2MHill

Date Analyzed:

12-Apr-94

**Project Number:** 

BAE28830.P2.03

Date Reported:

18-Apr-94

Report Number:

2A03717.HAL

Lab ID Number:

2A03717

Matrix:

cc:

Bern Baumgartner

soil

Field ID Number:

DM35WH14

**Dilution Factor:** 

1

Analytes	Results	ÐL	Analytes	Results	DL
Benzene	NR	5	1,1-Dichloroethene	ND	5
Bromodichloromethane	ND	5	trans-1,2-Dichloroethene	12	5
Bromoform	ND	5	1,2-Dichloropropane	ND	5
Bromomethane	ND	10	cis-1,3-Dichloropropene	ND	5
Carbon tetrachloride	ND	5	trans-1,3-Dichloropropene	ND	5
Chlorobenzene	ND	5	Ethylbenzene	NR	5
Chloroethane	NĐ	10	Methylene chloride	ND	5
2-Chloroethylvinylether	ND	20	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND 5 Tetr		Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	NR	5
Dibromochloromethane	ND	5	1,1.1-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene	ND	10	Trichloroethene	ND	5
1,4-Dichlorobenzene	ND	10	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	1,1,2-Trichlorotrifluoroethane	NR	10
1,1-Dichloroethane	ND	5	Vinyl chloride	24	10
1,2-Dichloroethane	ND	5	Total-Xylenes	NR	5
Units:	ug/Kg	ug/Kg		ug/Kg	ug/Kg

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ELCD Surrogate % Recovery:	101	70% to 120%	PID Surrogate % Recovery:	NR	70% to 120%

#### NOTES:

NR - Not requested

COC - Chain of custody

ND - Analytes not detected at, or above the stated detection limit.

ug/Kg - Micrograms per kilogram (PPB).

DL - Detection limit.

DF - Dilution Factor

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

#### PROCEDURES:

This analysis was performed using EPA Method 8010, EPA Method 8020, and EPA Method 5030.

#### **CERTIFICATION:**

California Department of Health Services, ELAP Certificate # 1842

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538, (510) 490-8571

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**CHM** HILL

Instructions and Agreement Provisions on Reverse Side

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