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

SFO1001321E.WP5

Contents

Tables

Figures

Section 1
Introduction

CH2M HILL
Engineers
Planners
Economists
Scientists

May 9, 1994

BAE28830.P2.03

Dr. Ravi Arulanantham
Alameda County Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Brian Oliva
Alameda County Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

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

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

/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

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 μg/L of tetrachloroethene (PCE) and 21 μg/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

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.

Sectionn 3
Analytical Results

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 μg/L and the PCE concentrations ranged from 17 to 59 μg/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 μg/L; the PCE concentrations ranged from non-detect to 520 μg/L; and the vinyl chloride concentrations ranged from non-detect to 120 μg/L. The sample with the highest concen-

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

Sample Location	Date of Sample Collection	Analytes							
		1,1-Dichloroethene (ug/L)	Trans-1,2-Dichloroethene (ug/L)	Cis-1,2-Dichloroethene (ug/L)	Chloroform (ug/L)	Methylene Chloride (ug/L)	Trichloroethene (ug/L)	Tetrachloroethene (ug/L)	Vinyl Chloride (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	<0.5/<0.5	<0.5/<0.5	<0.5/<0.5	<1.0/<1.0
WH-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: .

1. All samples were analyzed for Chlorinated Hydrocarbons, EPA method 601 or EPA method 8010.
2. NA indicates that this compound was not analyzed for by EPA method 8010.
3. <0.5 indicates that the laboratory detection limit was not exceeded.

Section 4
Conclusions and Recommendations

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.

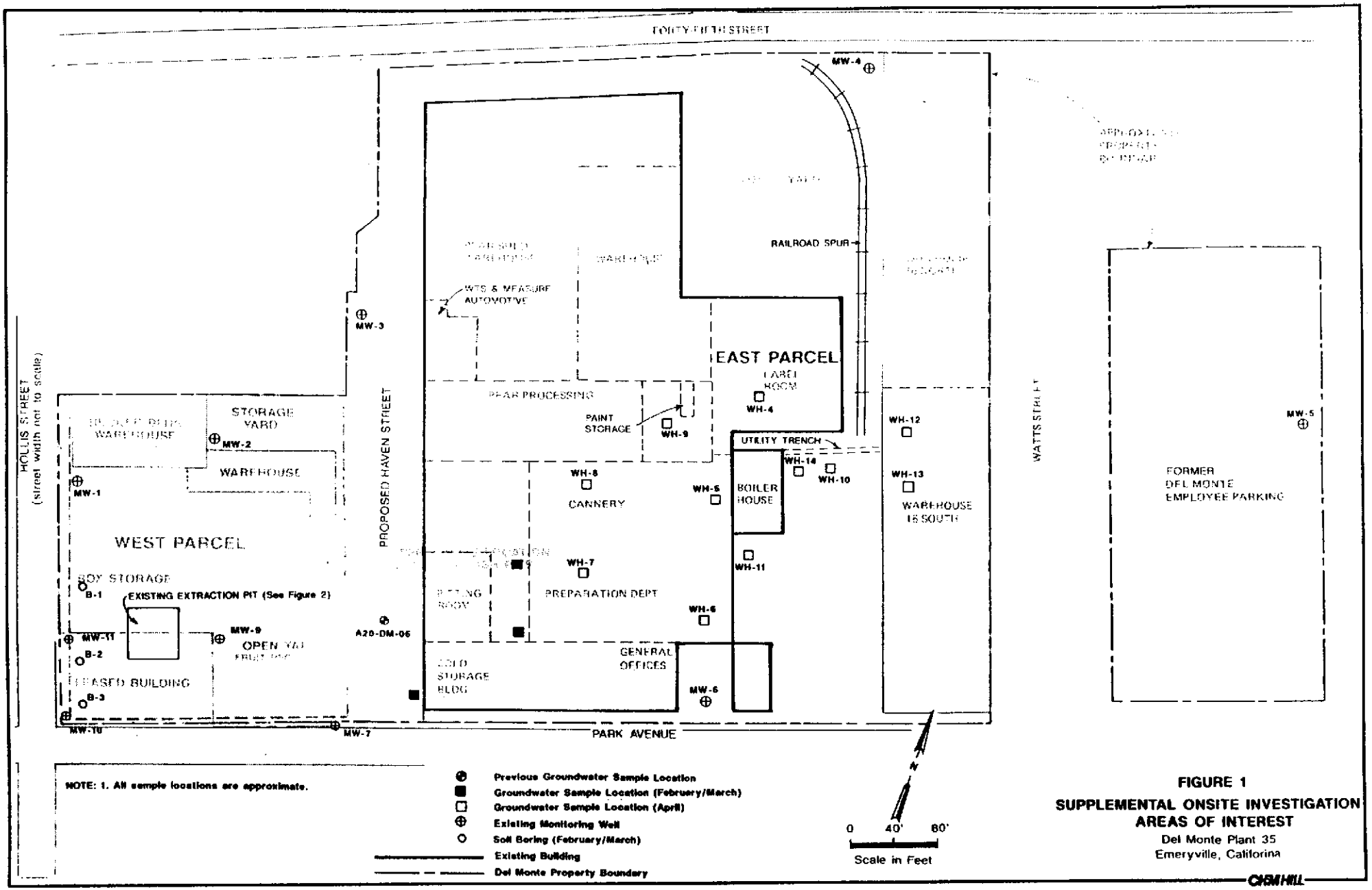
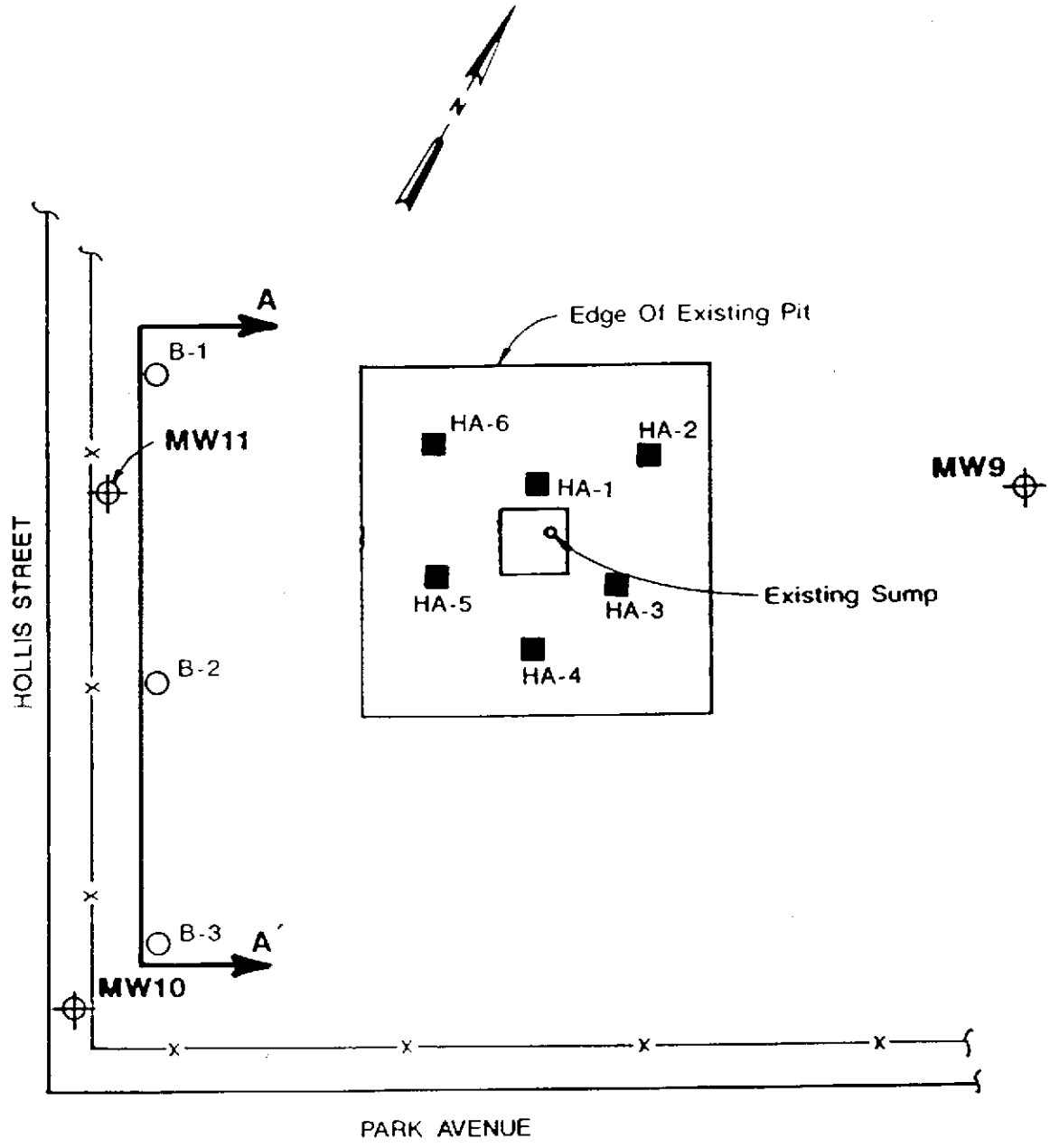


FIGURE 1
SUPPLEMENTAL ONSITE INVESTIGATION AREAS OF INTEREST
Del Monte Plant 35
Emeryville, California

CH2M HILL



Legend:

MW11 — Existing monitoring well

B-1 — Soil boring location

HA-3 — Hand angered soil sample location

PLAN

Scale 1" = 25'

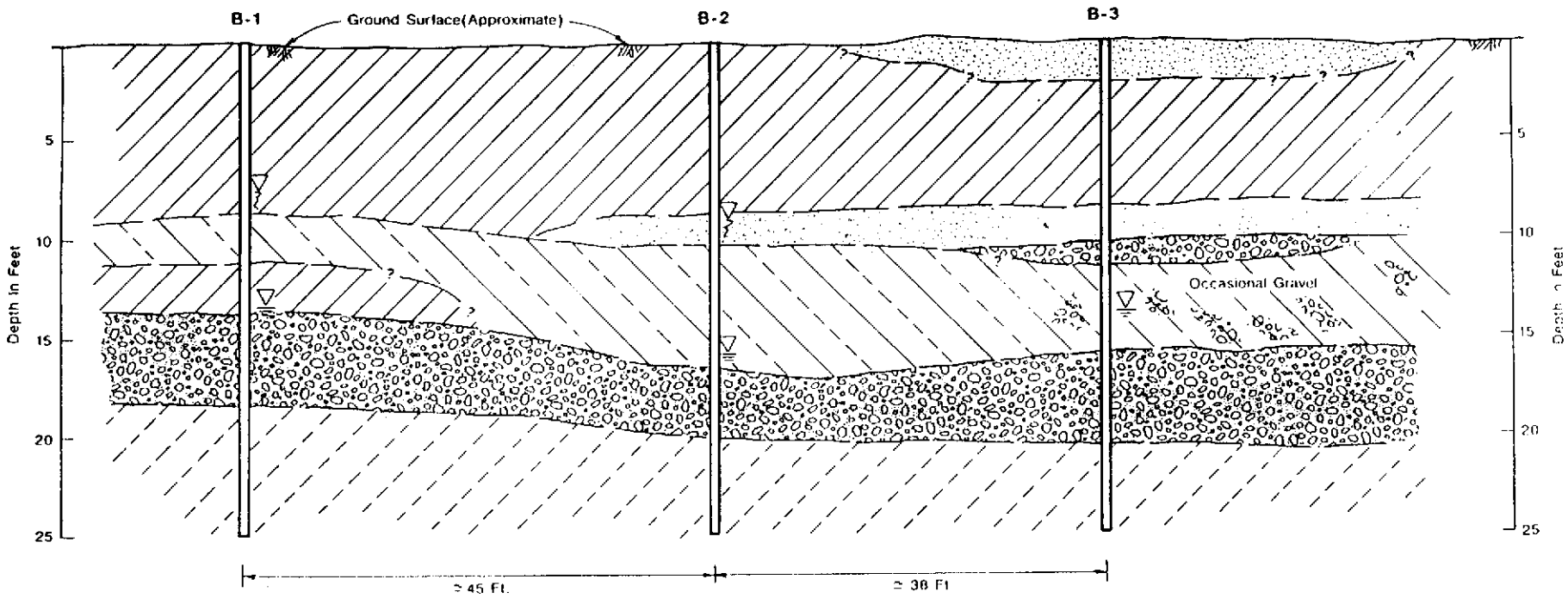
NOTE: 1. No chlorinated hydrocarbons were detected in the soil samples.

2. All sample locations are approximate.

FIGURE 2
SOIL SAMPLE LOCATIONS
Del Monte Plant 35
Emeryville, Califorina

CH2M HILL

BAE26830.P2.03



LEGEND

- Silty Clay
- Silt With Sand
- Well-Graded Sand With Silt
- Lean Clay With Sand
- Silty Sand/Sandy Silt
- Gravelly Silt With Sand To Silty Sand With Gravel
- Elevation That Groundwater Was Encountered During Drilling
- Static Groundwater Elevation

FIGURE 3
GEOLOGIC CROSS-SECTION A-A
Del Monte/Kaiser Investigation

Del Monte Plant No. 35
Emeryville, California

CH2M HILL

SAE28830.P2.03

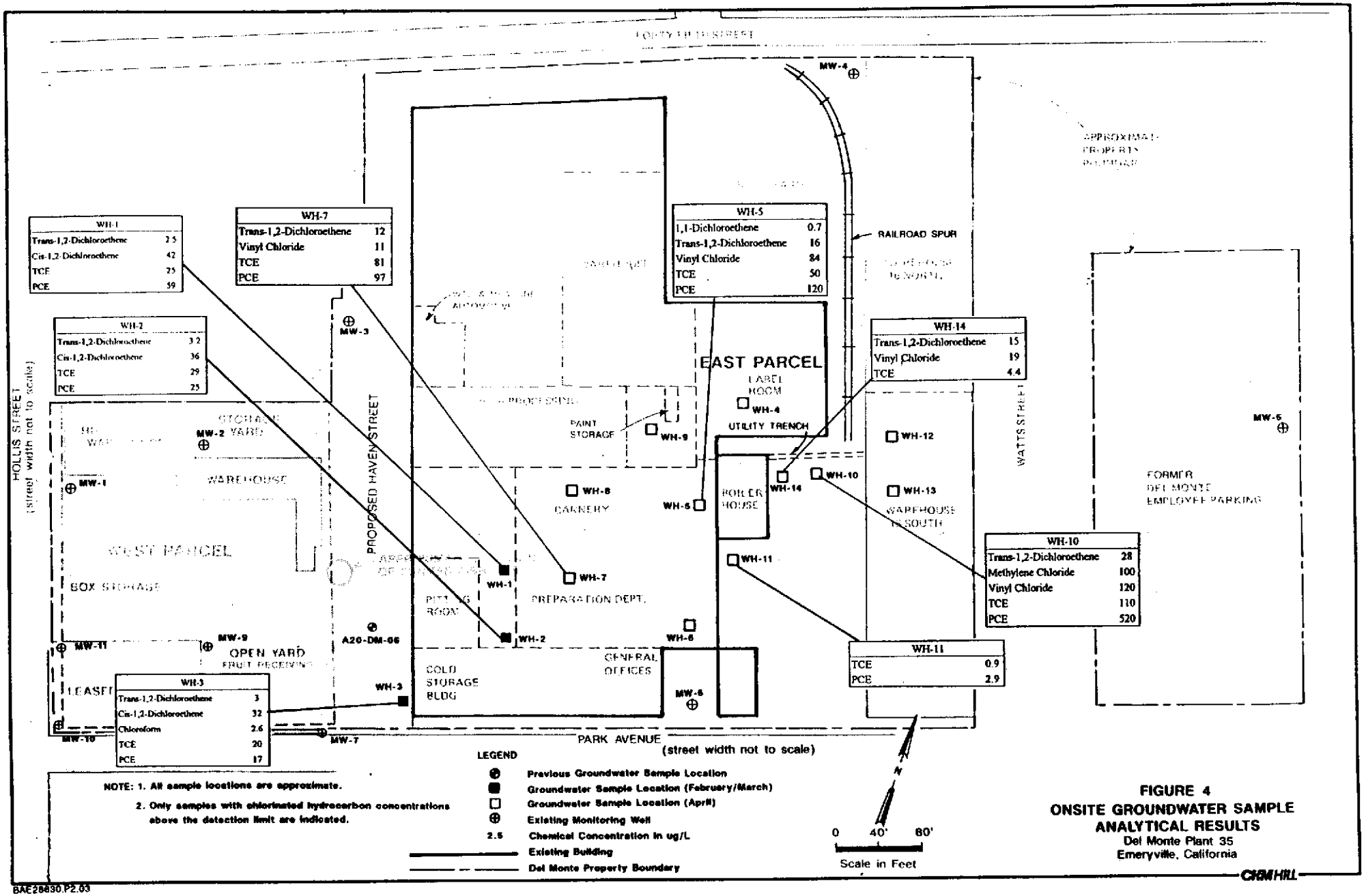
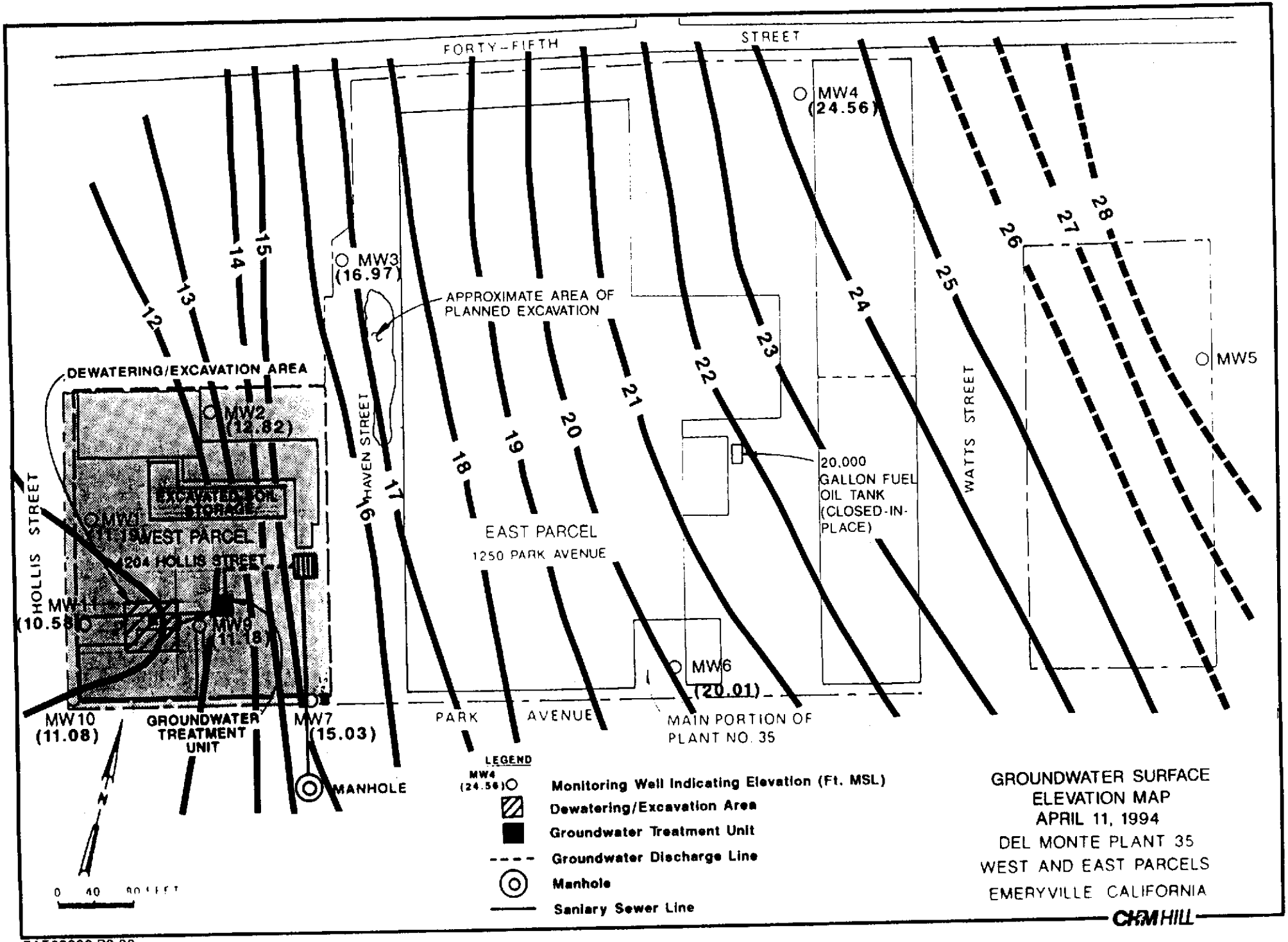


FIGURE 4
ONSITE GROUNDWATER SAMPLE ANALYTICAL RESULTS
Del Monte Plant 35
Emeryville, California

CH2MHILL

BAE28830.P2.03

Appendix A
Groundwater Surface Elevation Map



GROUNDWATER SURFACE
ELEVATION MAP
APRIL 11, 1994
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE CALIFORNIA

CH2M HILL

BAE28830.P2 03

Appendix B
Soil Boring Logs

PROJECT NUMBER	BORING NUMBER	
BAE28630.P2.03	B-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 EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER LEVELS 7.1 ft BGS 2/23/94 START 2/23/94 FINISH 2/23/94 LOGGER Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					
	2.5	S-1	1.4	--	LEAN CLAY, (CL), dark gray to brown, moist, firm to stiff, trace fine sand, pieces of brick	
	4.0	S-2	1.5	--	LEAN CLAY, (CL), similar to above, roots, firm	
6.0	5.5	S-3	1.4	--	LEAN CLAY, (CL), similar to above, orange staining, some sand	
	7.0	S-4	1.5	--	LEAN CLAY with SAND, (CL), medium brown to gray, firm, fine grained sand, trace of fine rounded gravel	
	8.5	S-5	1.5	--	LEAN CLAY with SAND, (CL), light to dark gray, trace of fine rounded gravel	1 inch layer of coarse sand at 8 ft
	10.0	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	11.5	S-7	1.5	--	Top 12 in.: SILTY CLAY with SAND, (CL), similar to above, black streaking, moist to wet Bottom 6 in.: LEAN CLAY with SAND and SILT, (CL), medium gray, moist to wet, stiff, fine to medium grained sand	
	13.0	S-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	
	14.5	S-9	1.5	--	SANDY SILT with CLAY, (ML), medium brown with orange staining to gray brown, wet, stiff, fine to medium grained sand	some organics present (roots)

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	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 LEVELS 7.1 ft BGS 2/23/94 START 2/23/94 FINISH 2/23/94 LOGGER Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	16.0	S-10	1.5	--	SANDY SILT with CLAY, (ML), similar to above, some fine gravel toward bottom of sample	
	17.5	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	
	19.0	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, fine grained sand	decreasing sand content
20.0	20.5	S-13	1.5	--	SILT with SAND, (ML), similar to above, trace of fine rounded gravel	decreasing stiffness with depth, from stiff to soft
	22.0	S-14	1.5	--	SANDY SILT, (ML), olive gray, moist to wet, stiff, fine to medium sand, decrease in sand content with depth	
	23.5	S-15	1.5	--	SILT with SAND, (ML), olive gray with orange staining, moist, stiff to very stiff, fine to medium grained sand	
	25.0	S-16	1.5	--	SILT with SAND, (CL), similar to above	
25.0					Total Depth = 25.0 ft	

CH2M HILL

PROJECT NUMBER	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 O.D.

WATER LEVELS 8.8 ft BGS 2/23/94 **START** 2/23/94 12:15 pm **FINISH** 2/23/94 1:30 pm **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					
	2.5	S-1	1.3	--	LEAN CLAY with SAND, (CL), dark gray to brown, moist, firm, fine to medium sand, trace of fine gravel	brick in bottom 6 inches of sampler
	4.0	S-2	1.3	--	LEAN CLAY with SAND, (CL), dark gray, moist, stiff, fine grained sand, trace of fine gravel	
6.0	5.5	S-3	1.2	--	LEAN CLAY with SAND, (CL), similar to above	
	7.0	S-4	1.2	--	LEAN CLAY with SAND, (CL), similar to above	
	8.5	S-5	1.5	--	LEAN CLAY with SAND and GRAVEL, (CL), 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	11.5	S-7	1.5	--	Top 3 in.:SANDY SILT, (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	
	13.0	S-8	1.5	--	SILTY LEAN CLAY with SAND, (CL), similar to above	
	14.5	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	increased orange mottling with depth
					SILTY LEAN CLAY with SAND, (CL), similar to above, dark brown with light mottling	

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	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 O.D.

WATER LEVELS 8.8 ft BGS 2/23/94 **START** 2/23/94 12:15 pm **FINISH** 2/23/94 1:30 pm **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
		S-10	1.5	--	grading to medium brown with orange mottling toward bottom, moist to wet, fine rounded gravel present throughout	
	16.0					
		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					
		S-12	1.5	--	SANDY SILT with GRAVEL (ML), medium brown with dark specks and orange mottling, wet to moist, fine to coarse grained sand, some fine rounded gravel	decreasing coarse material with depth
	19.0					
		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	
20.0	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	

CH2M HILL

PROJECT NUMBER	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 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

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					
	2.5	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	
	4.0	S-2	1.3	--	LEAN CLAY with SILT and SAND, (CL), dark brown, moist, firm, fine grained sand	organic material (roots)
6.0	5.5	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
	7.0	S-4	1.4	--	LEAN CLAY with SILT and SAND, (CL), medium dark gray, moist, very stiff, very fine grained sand	tight formation
	8.5	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
10.0	10.0	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
	11.5	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	
	13.0	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	
	14.5	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	
					SILTY LEAN CLAY, (CL), similar to above	

PROJECT NUMBER	BORING NUMBER
BAE28830.F2.03	B-3 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 LEVELS Encountered at approx 13' bgs **START** 2/23/94 2:00 pm **FINISH** 2/23/94 3:30 pm **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
		S-10	1.3	--		
	16.0				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	
		S-11	1.5	--		
	17.5				SANDY SILT, (ML), similar to above	
		S-12	1.4	--		
	19.0				SILTY SAND and GRAVEL, (SM-GM), medium brown with orange mottling, wet, loose, fine grained sand, fine gravel	
20.0		S-13	1.3	--		
	20.5				SANDY SILT, (MH), medium brown with orange mottling, wet, soft, fine grained sand	
		S-14	1.3	--		
	22.0				SILT with SAND, (MH), medium brown with orange and white deposits, stiff, fine grained sand	
		S-15	1.5	--		
	23.5				SILT with SAND, (MH), similar to above	
		S-16	1.5	--		
	25.0					
25.0					Total Depth = 25.0	

CH2M HILL

PROJECT NUMBER	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 EQUIPMENT Simco 2400, Hollow Stem Auger, 5-1/4 inch O.D.

WATER LEVELS 10.34 ft bgs 3/1/94 **START** 3/1/94 10:30 am **FINISH** 3/1/94 11:50 am **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: NUMBER AND TYPE	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					6-inches concrete
	2.5	S-1	1.2	--	POORLY GRADED SAND, (SP), red, dry, dense, fine to medium grained sand,	possibly crushed brick material
	4.0	S-2	1.0	--	ORGANIC SILT and CLAY with SAND, (OL), dark gray, moist, soft, fine to medium grained sand	
6.0	5.5	S-3	1.1	--	LEAN CLAY with SILT and SAND, (CL), dark gray, moist, stiff, fine grained sand	organics present (roots)
	7.0	S-4	1.3	--	LEAN CLAY with SILT and SAND, (CL), similar to above	slight odor present (believed to be caused by isopropanol used during sampler decon procedure)
	8.5	S-5	1.1	--	LEAN CLAY with SILT and SAND, (CL), similar to above	
	10.0	S-6	1.3	--	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)
10.0	11.5	S-7	1.4	--	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	
	13.0	S-8	1.4	--	SILTY CLAY with SAND and GRAVEL, (CL), medium brown to gray with white mineral deposits, black specks, orange staining, moist, stiff, fine sand and fine rounded gravel	slight odor present (believed to be caused by isopropanol used during sampler decon procedure)
	14.5	S-9	1.2	--	SILTY CLAY with SAND, (CL), olive brown with black specks, moist, stiff, fine grained sand	
					SILTY CLAY with SAND, (CL), similar to above	

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-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 LEVELS 10.34 ft bgs 3/1/94 **START** 3/1/94 10:30 am **FINISH** 3/1/94 11:50 am **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		S-10	1.4	--	SILTY CLAY with SAND, (CL), similar to above	
	16.0					
		S-11	1.3	--	SILTY CLAY with SAND, (CL), similar to above	
	17.5					
		S-12	1.3	--	SILTY CLAY with SAND, (CL), similar to above except increased orange staining, soft to firm, increase in sand content	
	19.0					
		S-13	1.2	--	SILTY CLAY with SAND, (CL), similar to above	
20.0	20.5					1/2-inch gravel present from 20 to 20.5 ft
		S-14	1.3	--	SILTY SAND/SANDY SILT, (SM-ML), medium brown to gray with some orange staining, wet, fine to medium grained sand, fine gravel	groundwater encountered at approx 20.5 ft
	22.0					
		S-15	1.3	--	SANDY SILT, (ML), medium brown to gray, wet, soft, fine sand	
	23.5					
		S-16	1.1	--	SILT with SAND, (ML), medium gray to brown, moist, stiff, very fine sand, some clay	
25.0	25.0					
					Total Depth = 25.0 ft	

PROJECT NUMBER	BORING NUMBER	
BAE28830.P2.03	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 O.D.

WATER LEVELS 11.8 ft bgs 3/1/94 **START** 3/1/94 12:50 am **FINISH** 3/1/94 1:55 am **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					6-inches concrete
	2.5	S-1	0.6	--	ORGANIC CLAYEY SAND with GRAVEL, (SC), dark gray, moist, firm, fine to medium grained sand	
	4.0	S-2	0.6	--	ORGANIC CLAYEY SAND with GRAVEL, (SC), similar to above	gravel up to 3/4 in.
5.0	5.5	S-3	0.8	--	LEAN CLAY with SAND, (CL), dark gray, moist, stiff, fine grained sand	odor present (believed to be caused by isopropanol used during sampler decon procedure)
	7.0	S-4	0.8	--	LEAN CLAY with SAND, (CL), similar to above	
	8.5	S-5	1.3	--	LEAN CLAY with SAND, (CL), similar to above	
	10.0	S-6	1.2	--	LEAN CLAY with SAND, (CL), similar to above	
10.0	11.5	S-7	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	
	13.0	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)
	14.5	S-9	1.4	--	Top 6 in.: SANDY SILT with GRAVEL, (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 procedure)
					SILTY CLAY with SAND, (CL), similar to above, black specks	

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-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 O.D.

WATER LEVELS 11.8 ft bgs 3/1/94 **START** 3/1/94 12:50 am **FINISH** 3/1/94 1:55 am **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	16.0	S-10	1.3	--	SILTY CLAY with SAND, (CL), similar to above	
	17.5	S-11	1.5	--	SILTY CLAY with SAND, (CL), similar to above	odor present (believed to be caused by isopropanol used during sampler decon procedure)
	19.0	S-12	1.3	--	SILTY CLAY with SAND, (CL), similar to above except, brown to gray mottling, firm, moist	groundwater encountered at approx 17.5 ft
20.0	20.5	S-13	1.4	--	SANDY SILT with GRAVEL, (ML), medium brown with orange and gray mottling, wet to moist, soft to firm, fine to medium grained sand	
	22.0	S-14	1.5	--	SILT with SAND and CLAY, (ML), medium brown to gray with some orange staining, moist, stiff, very fine grained sand	
	23.5	S-15	1.3	--	SILT with SAND and CLAY, (ML), similar to above	
	25.0	S-16	1.4		SILT with SAND and CLAY, (ML), similar to above, very stiff	
25.0					Total Depth = 25.0	

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-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 O.D.

WATER LEVELS 9.86 ft bgs 3/1/94 START 3/1/94 2:30 am FINISH 3/1/94 3:15 am LOGGER Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.0					8-inches concrete
	2.5	S-1	1.0	--	SANDY CLAY with GRAVEL, (CL), dark brown, wet, stiff, medium grained sand, fine rounded gravel	
	4.0	S-2	1.4	--	LEAN CLAY with SAND, (CL), dark gray, moist, stiff, very fine grained sand	organics present
6.0	5.5	S-3	1.3	--	LEAN CLAY with SAND, (CL), similar to above, occasional fine rounded gravel	
	7.0	S-4	1.4	--	LEAN CLAY, (CL), dark medium gray, moist, very stiff	organics
	8.5	S-5	1.5	--	LEAN CLAY with SAND, (CL), similar to above, medium gray	increased sand from 8 to 8.5 ft
	10.0	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	11.5	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 ft
	13.0	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	increase in sand content
	14.5	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	

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-3 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 LEVELS 9.86 ft bgs 3/1/94 START 3/1/94 2:30 am FINISH 3/1/94 3:15 am LOGGER Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		S-10	1.2	--	SILTY CLAY with SAND, (CL), similar to above	
	16.0				Total Depth = 16.0 ft	
20.0						
25.0						

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-6 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 ~13.5 ft bgs **START** 4/11/94 3:30 pm **FINISH** 4/11/94 4:10 pm **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	1.5					
	3.0	S-1	1.3	--	LEAN CLAY with SAND, (CL), dark brown, moist, stiff, fine grained sand	fill material
	4.5	S-2	1.3	--	LEAN CLAY with SAND, (CL), dark medium gray, moist, stiff, fine grained sand	
5.0	6.0	S-3	1.5	--	LEAN CLAY with SAND, (CL), similar to above	
	7.5	S-4	1.5	--	LEAN CLAY with SAND, (CL), medium gray with white mineral deposits, moist, occasional gravel, some silt	
	9.0	S-5	1.3	--	LEAN CLAY with SAND, (CL), similar to above, light brown gray with white mineral deposits	
10.0	10.5	S-6	1.5	--	SANDY SILT, (ML), medium gray brown, moist, stiff	
	12.0	S-7	1.2	--	Top 3 in.: SILTY SAND, (SM), Bottom 9 in.: LEAN CLAY with SAND, (CL), medium brown gray, moist, stiff, fine to medium grained sand	
	13.5	S-8	1.2	--	LEAN CLAY with SAND, (CL), similar to above	
	15.0	S-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

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-6 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 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

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	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	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	16.5				Total Depth = 16.5 ft	
20.0						
25.0						

CHM HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	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

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5					
	2.0	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	
	3.5	S-2	1.5	--	LEAN CLAY with SAND, (CL), similar to above, medium brown with orange mottling	trace of organics present
	5.0	S-3	1.5	--	SANDY CLAY, (CL), medium brown with dark specks and trace orange staining, moist, soft, fine sand	
6.0	6.5	S-4	1.5	--	SANDY CLAY, (CL), similar to above, firm, trace of 1/2 inch gravel	
	8.0	S-5	1.5	--	LEAN CLAY with SAND, (CL), medium gray with black streaks, moist, stiff, very fine sand, white mineral deposits toward base	
	9.5	S-6	0.3	--	SILT with SAND, (MH), light brown gray with white mineral deposits, trace of clay, wet, soft	groundwater encountered at approx. 9 ft bgs
10.0	11.0	S-7	1.5	--	SILT with SAND, (MH), similar to above, wet, no white mineral deposits, black streaks	
	12.5	S-8	1.5	--	SILT with SAND, (ML), light gray with orange staining, moist, fine sand	
	14.0	S-9	1.5	--	SILT with SAND, (ML), similar to above, light brown with trace orange, trace 1/2 inch gravel	
		S-10	1.5	--	SILT with SAND, (ML), similar to above	

CHM HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	WH-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 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

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	15.5					
	17.0	S-11	1.1	--	SANDY SILT/SILTY SAND, (ML/SM), medium gray brown, moist, stiff to dense, medium grained sand	
	18.5	S-12	1.4	--	WELL GRADED SAND with GRAVEL and CLAY, (SW), medium brown, wet, dense, fine gravel	
	20.0	S-13	1.0	--	WELL GRADED SAND with GRAVEL and CLAY, (SW), similar to above	
20.0					Total Depth = 20.0 ft	
25.0						

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
BAE28830.P2.03	WH-10	SHEET 1 OF 1

SOIL BORING LOG

PROJECT Del Monte Plant #35 **LOCATION** Emeryville, CA

ELEVATION ~19 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 ~16.0 ft bgs **START** 4/12/94 8:45 am **FINISH** 4/12/94 9:40 am **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	5.0				Cuttings: SANDY CLAY with GRAVEL, (CL), medium to dark brown, moist	
5.0	6.5	S-1	1.4	--	Top 12 in.: LEAN CLAY with SAND, (CL), dark brown with white mineral deposits, 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	11.5	S-2	1.3	--	LEAN CLAY with SAND, (CL), similar to above, olive, some silt	
	15.0					
15.0	16.5	S-3	1.2	--	SANDY CLAY, (CL), medium brown to orange with gray mottling, moist, firm, fine to medium sand	groundwater encountered at approx. 16 ft bgs
20.0					Total Depth = 19.0 ft	
25.0						

CH2M HILL

PROJECT NUMBER	BORING NUMBER
BAE28830.P2.03	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

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
					Cuttings: SANDY CLAY, (CL), dark brown, moist, firm, fine to coarse sand, fine gravel	
5.0	5.0					
	6.5	S-1	1.5	--	FAT CLAY with SAND, (CH), medium to dark gray, moist, stiff, fine to medium sand	
	10.0					color changes to brown gray
10.0	11.5	S-2	1.5	--	FAT CLAY with SAND, (CH), medium brown gray with black specks, trace of orange staining, moist, firm, fine to medium sand	
	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	BORING NUMBER
BAE28830.P2.03	WH-12 SHEET 1 OF 1

SOIL BORING LOG

PROJECT Del Monte Plant #35 **LOCATION** Emeryville, CA

ELEVATION ~33 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 ~15 ft bgs **START** 4/12/94 11:40 am **FINISH** 4/12/94 1:00 pm **LOGGER** Keith Gally

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	5.0					approx. elevation of Plant #35 building floor
5.0	6.5	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	broken glass in drill cuttings
	10.0					
10.0	11.5	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	
	15.0					
15.0	16.5	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. 15 ft bgs
					Total Depth = 16.5 ft	
20.0						
25.0						

Appendix C
Analytical Laboratory Reports

CHROMALAB, INC.

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
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	--
"RANS-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	N.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.	5	N.D.	--
FREON 113	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	--
CIS-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	N.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.	5	N.D.	--
FREON 113	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam 1/17

Eric Tam
Laboratory Director

LIMS

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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: **DM35SB254** *Matrix:* SOIL
Lab #: 44494-2368 *Sampled:* February 23, 1994 *Analyzed:* March 1, 1994
Method: EPA 8010

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	--
CIS-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	N.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.	5	N.D.	--
FREON 113	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: March 21, 1994
Client: CH2M HILL OAKLAND
Project Name: DEL MONTE PLANT 35
Date Analyzed: Feb. 23, 1994

File number: 9402290
Method: Halogenated Volatiles
Method number: EPA 8010
Matrix: Soil

BLANK RESULT

Compound Name	Result ug/Kg	Reporting Limits ug/Kg
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

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

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: March 21, 1994
Client: CH2M HILL OAKLAND
Project Name: DEL MONTE PLANT 35
Date Analyzed: February 23, 1994

File number: 9402290
Method: Halogenated Volatiles
Method number: EPA 8010
Matrix: Soil

MS/MSD SAMPLE SPIKED: BLANK

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD %	RPD LIMIT %
1,1 Dichloroethene	µg/Kg	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	96	47.0	94	60/127	2.1	20
1,1,2,2 Tetrachloroethane	µg/Kg	N.D.	50	51.0	102	49.5	99	60/136	3.0	20

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

CHROMALAB, INC.

Environmental Services (SDB)

Date: March 21, 1994
Client: CH2M HILL OAKLAND
Project Name: DEL MONTE PLANT 35
Date Analyzed: Feb. 23, 1994

File number: 9402290
Method: Halogenated Volatiles
Method number: EPA 8010
Matrix: Soil

SURROGATE RECOVERIES

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

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

C/L 15291
290/444492 – 444414

CH2M HILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: SAE28830.P2.03

Purchase Order #:

Project Name: DEL MONTE PLANT 35

Company Name/CH2M HILL Office: CH2M HILL/SFO

Project Manager & Phone #: Mr. [X] BERN; Ms. [ ]; Dr. [ ] BAUMGARTNER

Report Copy to: KEITH GALLY

Requested Completion Date: ~~24 HR TAT~~ 5day TAT per M Wall 2/24 Sampling

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

Sample Disposal: Dispose [X] Return [ ]

LAB TEST COD

SUBM #: 9402290
CLIENT: CH2
DUE: 02/24/94
REF: 15291

NLY

ANALYSES REQUESTED

CHLORINATED HYDROCARBONS (8010)

OF CONTAINERS

Project #

No. of Samples | Page | of

COC Rev | Login | LIMS Ver | Ack Gen

REMARKS | LAB 1 ID | LAB 2 ID

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	CHLORINATED HYDROCARBONS (8010)
2/23	1020		X		X	DM355SB1S42	2	X
2/23	1230		X		X	DM355SB2S32	2	X
2/23	1245		X		X	DM355SB2S42	2	X

~~RUSH~~

Sampled By & Title / (Please sign and print name): Keith Gally — Keith Gally — Date/Time: 2/23/94 1245

Relinquished By / (Please sign and print name): Keith Gally — Keith Gally — Date/Time: 2/23/94 1515

Received By / (Please sign and print name): — Date/Time: 2-23-94 1515

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

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

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

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

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

Work Authorized By / (Please sign and print name):

Remarks:

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other: ____

COC Rec | ICE

Ana Req | TEMP

Cust Seal | Ph

Instructions a greement Provisions on Reverse Side

DISTRIBUTION: ORIGINAL - LAB, Yellow , Pink - Client

REV 11/92 FORM 340

CHROMALAB, INC.

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
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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: **DM35GWPK4** *Matrix:* WATER
Lab #: 45060-2366 *Sampled:* March 1, 1994 *Analyzed:* March 1, 1994
Method: EPA 601

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	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	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

Eric Tam
Laboratory Director

LIMS

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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: **DM35GWPK2** *Matrix:* WATER
Lab #: 45061-2366 *Sampled:* March 1, 1994 *Analyzed:* March 1, 1994
Method: EPA 601

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
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.	--
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.	--
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

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
TRANS-1,2-DICHLOROETHENE	2.5	0.5	N.D.	--
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	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	59	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

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
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.	--
TRICHLOROETHENE	29	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	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.	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

Eric Tam 1/97

Eric Tam
Laboratory Director

LIMS

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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: **DM35GWWH3** *Matrix:* WATER
Lab #: 45064-2366 *Sampled:* March 1, 1994 *Analyzed:* March 1, 1994
Method: EPA 601

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
TRANS-1,2-DICHLOROETHENE	3.0	0.5	N.D.	--
IS-1,2-DICHLOROETHENE	32	0.5	N.D.	90
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	2.6	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	20	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	17	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

Eric Tam 1/9/97
Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
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	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.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.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	15	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

Eric Tam 4/9/94
Eric Tam
Laboratory Director

LIMS

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

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

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
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.	--
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.	--
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

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

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

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

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

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

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

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

CHROMALAB, INC.
Environmental Services (SDB)

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

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

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

RUSH

025/45060 – 112066

...ANALYTICAL LABORATORIES — CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

...nILL Project # BAE288300.P2.03

Purchase Order #

Project Name: Del Monte Plant 35

Company Name/CH2M HILL Office: CH2M Hill/SFO

Project Manager & Phone # — Mr. [X] Bern Baumgartner; Ms. [ ]; Dr. [ ]

Report Copy to: Marlene Wall

Requested Completion Date: 24 HR. Turnaround

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

Sample Disposal: Dispose [X] Return [ ]

LAB TEST CODES

SUBM #: 9403025
CLIENT: CH2
DUE: 03/02/94
REF: 15374

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	Chlorinated Hydrocarbons EPA 601	Hold for Possible Analysis
3/1/94	1245		X	X		DMW35GWPK42	2	X	
3/1/94	1245		X	X		DMW35GWPK42	2		X
3/1/94	1230		X	X		DMW35GWPK22	2	X	
3/1/94	1230		X	X		DMW35GWPK22	2		X
3/1/94	1430		X	X		DMW35GWWH12	2	X	
3/1/94	1430		X	X		DMW35GWWH12	2		X
3/1/94	1535		X	X		DMW35GWWH22	2	X	
3/1/94	1535		X	X		DMW35GWWH22	2		X
3/1/94	1645		X	X		DMW35GWWH32	2	X	
3/1/94	1645		X	X		DMW35GWWH32	2		X
3/1/94	1645		X	X		DMW35GWWHD2	2	X	

Project # | No. of Samples | Page | of

COC Rev | Login | LIMS Ver | Ack Gen

REMARKS | LAB 1 ID | LAB 2 ID

Sampled By & Title (Please sign and print name) Keith Gully	Date/Time 3/1/94 1645	Relinquished By (Please sign and print name) Keith Gully	Date/Time 3/1/94 1740	HAZWRAP/NESSA: Y N
Received By (Please sign and print name) [illegible]	Date/Time 3-2-94 1139	Relinquished By (Please sign and print name)	Date/Time	QC Level: 1 2 3 Other: ____
Received By (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time	COC Rec / ICE; Ana Req / TEMP; Cust Seal / Ph
Received By (Please sign and print name)	Date/Time	Shipped Via: UPS BUS Fed-Ex Hand Other ____	Shipping #	
Work Authorized By (Please sign and print name)	Remarks			

Instructions *Agreement Provisions on Reverse Side*

DISTRIBUTION: ORIGINAL - LAB, Yello... S, Pink - Client

RE... 1/92 FORM 340

CH2M HILL

QUALITY ANALYTICAL LABORATORIES **RUSH** 9403025 Order

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project # BAE288830.PL.03	Purchase Order #
Project Name: Del Monte Plant 35	
Company Name/CH2M HILL Office: CH2M Hill/SFO	
Project Manager & Phone #: Mr. [X] Bern Baumgartner; Ms. [ ]; Dr. [ ]	Report Copy to: Madeline Wall
Requested Completion Date:	Sampling Requirements: SDWA [ ] NPDES [ ] RCRA [ ] OTHER ____
Sample Disposal: Dispose [ ] Return [ ]	

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	ANALYSES REQUESTED: Chlorinated Hydrocarbons 601
3/1/94				X		TRIPBLANK1	1	

LAB TEST CODES

SHADED AREA -- FOR LAB USE ONLY

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

Sampled By & Title (Please sign and print name): Keith J. Gally Keith Gally	Date/Time 3/1/94 1645	Relinquished By (Please sign and print name): Keith J. Gally	Date/Time 3/1/94 1740
Received By (Please sign and print name): B. Mowrer B. Mowrer	Date/Time 3-1-94 1739	Relinquished By (Please sign and print name):	Date/Time
Received By (Please sign and print name):	Date/Time	Relinquished By (Please sign and print name):	Date/Time
Received By (Please sign and print name):	Date/Time	Shipped Via: UPS BUS Fed-Ex Hand Other ____	Shipping #
Work Authorized By (Please sign and print name):	Remarks		

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other: ____

COC Rec	ICE
Ana Req	TEMP
Cust Seal	Ph

Instructions / Agreement Provisions on Reverse Side

DISTRIBUTION: ORIGINAL - LAB, Yellow), Pink - Client

REV 11/92 FORM 340

CHROMALAB, INC.

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
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 3, 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 Halogenated Compounds analysis.

Sample: **DM35-MW122** *Matrix:* WATER
Lab #: 45224-2376 *Sampled:* March 2, 1994 *Analyzed:* March 2, 1994
Method: EPA 601

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
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	N.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.	--
CIS-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	N.D.	101
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	N.D.	0.5	N.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	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	118
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	16	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
Laboratory Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 3, 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 Halogenated Compounds analysis.

Sample: **TRIP BLANK** *Matrix:* WATER
Lab #: 45226-2376 *Sampled:* March 2, 1994 *Analyzed:* March 2, 1994
Method: EPA 601

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	--
METHYLENE CHLORIDE	N.D.	5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-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.	--
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.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	110
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.	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
Laboratory Director

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

LIMS

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
Chemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

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

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
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.	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.	--
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	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	5	N.D.	--
VINYL ACETATE	N.D.	5	N.D.	--
VINYL CHLORIDE	N.D.	5	N.D.	--
XYLENES (TOTAL)	N.D.	5	N.D.	--

ChromaLab, Inc.

David Wintergrass
hemist

Eric Tam
Laboratory Director

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

CHROMALAB, INC.

Environmental Services (SDB)

VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date: April 5, 1994
Client: CH2M HILL OAKLAND
Project Name: DEL MONTE PLANT 35
Project Number: BAE28830.PZ.03
Date Analyzed: March 25, 1994

File No: 9403052
Method: Volatile Organics
Method No: EPA 8240
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
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
BENZENE	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
TOLUENE	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
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
ACETONE	N.D.	25.0
METHYL ETHYL KETONE	N.D.	5.0
METHYL ISOBUTYL KETONE	N.D.	5.0

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

VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date:April 5, 1994
Client: CH2M HILL OAKLAND
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

MS/MSD

Sample Spiked: Blank

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD %	RPD LIMIT %
1,1-Dichloroethane	µg/Kg	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-Tetrachloroethane	µg/Kg	N.D.	100	101	101	108	108	60/136	6.7	20

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

CHROMALAB, INC.

Environmental Services (SDB)

Date: April 5, 1994
Client: CH2M HILL OAKLAND
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

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

DRAFT

CH2M HILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project # BAE28830.P2.03 | Purchase Order #

Project Name: DEL MONTE PLANT 35

Company Name/CH2M HILL Office: CH2M HILL / SFO

Project Manager & Phone #: Mr. [ ] Ms. [ ] Dr. [ ] BAUMGARTNER

Report Copy to: MADELINE WALL

Requested Completion Date: AS INDICATED

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

Sample Disposal: Dispose [x] Return [ ]

LAB TEST COD

SUBM #: 9403052
CLIENT: CH2
DUE: 03/09/94
REF: 15402

NLY

ANALYSES REQUESTED

Project #

No. of Samples | Page | of

COC Rev | Login | LIMS Ver | Ack Gen

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	EPA 601 Chlorinated Hydrocarbons	EPA 8010 Chlorinated Hydrocarbons	Hold for Possible Analysis	REMARKS	LAB 1 ID	LAB 2 ID
3/2/94	1115	X			X	DM35-HA-1	1		X		5-DAY		
3/2/94	1118	X			X	DM35-HA-2	1		X		5-DAY		
3/2/94	1124	X			X	DM35-HA-3	1		X		5-DAY		
3/2/94	1127	X			X	DM35-HA-4	1		X		5-DAY		
3/2/94	1130	X			X	DM35-HA-5	1		X		5-DAY		
3/2/94	1110	X			X	DM35-HA-6	1		X		5-DAY		
3/2/94	1300	X		X		DM35-MW12	2	X			24-HR		
3/2/94	1300	X		X		DM35-MW12	2			X			
3/2/94						TRIPBLANK	1						

Sampled By & Title (Please sign and print name)	Keith J. Gally Keith Gally	Date/Time 3/2/94 1320	Relinquished By (Please sign and print name) Keith J. Gally
Received By (Please sign and print name)	B. Morrow	Date/Time 3-2-94 1408	Relinquished By (Please sign and print name)
Received By (Please sign and print name)		Date/Time	Relinquished By (Please sign and print name)
Received By (Please sign and print name)		Date/Time	Shipped Via: UPS BUS Fed-Ex Hand Other
Work Authorized By (Please sign and print name)		Remarks	

Date/Time 3/2/94 1408

Shipping #

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other:

COC Rec | ICE

Ana Req | TEMP

Cust Seal | Ph

Instructions and Agreement Provisions on Reverse Side

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

REV 11/92 FORM 340

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

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:**	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
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
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

ELCD Surrogate % Recovery:	96	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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted]

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:**	2A03701.HAL
		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	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	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	1	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		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/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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

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:**	2A03707.HAL
		cc:	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	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

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.

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

Emmer P. Rojas
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

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:	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	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
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	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	1	Trichlorofluoromethane	ND	1
Dichlorodifluoromethane	ND	1	1,1,2-Trichlorotrifluoroethane	NR	1
1,1-Dichloroethane	ND	0.5	Vinyl chloride	11	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	ug/l

ELCD Surrogate % Recover	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/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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted]

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	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	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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

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:**	2A03704.HAL
		cc:	Bern Baumgartner
Lab ID Number:	2A03704	**Matrix:**	water
Field ID Number:	DM35-WH-D	**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	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

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/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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

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:**	2A03706.HAL
		cc:	Bern Baumgartner
Lab ID Number:	2A03706	**Matrix:**	water
Field ID Number:	DM35-WH-9	**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	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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Analytical Laboratory Report

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
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	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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Analytical Laboratory Report

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	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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted]

Analytical Laboratory Report

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:**	2A03715.HAL
		cc:	Bern Baumgartner
Lab ID Number:	2A03715	**Matrix:**	water
Field ID Number:	DM35-WH12	**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	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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Analytical Laboratory Report

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-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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

Analytical Laboratory Report

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
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	4.4	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	19	1
1,2-Dichloroethane	ND	0.5	Total-Xylenes	NR	0.5
Units:	ug/l	ug/l		ug/l	ug/l

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

Emma P. Popek
Laboratory Director

4-18-94
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Analytical Laboratory Report

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
		cc:	Bern Baumgartner
Lab ID Number:	2A03717	**Matrix:**	soil
Field ID Number:	DM35WH14	**Dilution Factor:**	1

Analytes	Results	DL	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	ND	10	Methylene chloride	ND	5
2-Chloroethylvinylether	ND	20	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	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

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

Emma P. Popek
Laboratory Director

4-18-94
Date

CH2M HILL
QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: [illegible]

Purchase Order #:

Project Name: Dez Movie Plant 35 Supplemental Investigation

Company Name/CH2M HILL Office: CH2M HILL/SFO

Project Manager & Phone #: Mr. [ ] Ms. [X] Dr. [ ] MADELINE WALL

Report Copy to: Born Baumgartner

Requested Completion Date:

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☐ Return ☐

SHADED AREA -- FOR LAB USE ONLY

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

LAB TEST CODES

ANALYSES REQUESTED: 601 Chlorinated Hydrocarbons

Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	601 Chlorinated Hydrocarbons	REMARKS	LAB 1 ID	LAB 2 ID
4/11	1050			X		DM35-WH-5	3	X			
4/11/94	1215			X		DM35-WH-8	3	X			
4/11/94	1327			X		DM35-WH-7	3	X			
4/11/94	1450			X		DM35-WH-D	3	X			
4/11/94	1550			X		DM35-WH-4	3	X			
4/11/94	1725			X		DM35-WH-6	3	X			
4/11/94	1650			X		DM35-WH-9	3	X			

Sampled By & Title (Please sign and print name): [signature] Keith J. Gally — Date/Time: 4/11/94 1725

Relinquished By (Please sign and print name): [signature] Keith Gally — Date/Time: 4/11/94 1745

Received By (Please sign and print name): [signature] John Pennadin — Date/Time: 4-11-94 1745

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

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

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

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

Shipped Via: UPS BUS Fed-Ex Hand Other____ | Shipping #

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other: ____

COC Rec	ICE
Ana Req	TEMP
Cust Seal	Ph

Work Authorized By (Please sign and print name):

Remarks

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: ORIGINAL - LAB, Yellow - LAB, Pink - Cli

CH2M HILL
QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: BAE38830.22.03
Purchase Order #:
Project Name: DEL MONTE PLANT 35
Company Name/CH2M HILL Office: CH2M HILL / SFO
Project Manager & Phone #: Mr. [ ] Ms. [x] Dr. [ ] MADELINE WALL
Report Copy to: BERN EHRMUNTRAUT
Requested Completion Date:
Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____
Sample Disposal: Dispose ☐ Return ☐

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

LAB TEST CODES / ANALYSES REQUESTED: 601 EPA CHLORINATED HYDROCARBONS; EPA 8010 CHLORINATED HYDROCARBONS

Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	601 EPA CHLORINATED HYDROCARBONS	EPA 8010 CHLORINATED HYDROCARBONS	REMARKS	LAB 1 ID	LAB 2 ID
4/12/94	1140		x	x		DM35-WH10	3	X				
4/12/94	1245		x	x		DM35-WH11	3	X				
4/12/94	1330		x	x		DM35-WH12	3	X				
4/12/94	1445		X	X		DM35-WH13	3	X				
4/12/94	1500		X		X	DM35SWH14	2		X			
4/12/94	1615		X	X		DM35-WH14	3	X				

Sampled By & Title (Please sign and print name): Keith Colly — Keith Colly | Date/Time: 4/12/94 1615
Relinquished By (Please sign and print name): Keith Colly — Keith J Colly | Date/Time: 4-12-94 1720
Received By (Please sign and print name): John C. Perodin — John Perrodin | Date/Time: 4-12-94 1720
Relinquished By (Please sign and print name): | Date/Time:
Received By (Please sign and print name): | Date/Time:
Relinquished By (Please sign and print name): | Date/Time:
Received By (Please sign and print name): | Date/Time:

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

Shipped Via: UPS BUS Fed-Ex Hand Other____ | Shipping #:

Work Authorized By (Please sign and print name): | Remarks: