

April 25, 1994

BAE28830.P2.01

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Subject:

Supplemental Offsite Investigation Report Del Monte Plant 35, Emeryville, California

Enclosed is a copy of the Supplemental Offsite Investigation Report for the Del Monte Plant 35 property located at 4204 Hollis Street and 1250 Park Avenue in Emeryville, California. The report presents the findings of the supplemental offsite groundwater investigation conducted in February/March 1994.

Please contact us if you have any questions about this submittal. We can be reached at (510) 251-2888, ext. 2118 (Bern) or 2189 (Madeline).

Sincerely,

CH2M HILL

Bern Baumgartner Project Manager Madeline Wall Project Engineer

cc:

Mr. Thomas Bender/Del Monte

Mr. Steven Ronzone/Del Monte

Mr. Soon Kim/Del Monte

Mr. Mark Zemelman/Kaiser

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Mr. David Harnish/ENVIRON

Supplemental Offsite 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

April 1994

286-1255

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Section 1 Introduction

This report presents the results of the additional offsite soil and groundwater investigation activities conducted between February 23, 1994 and March 2, 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 groundwater samples and evaluating the subsurface stratigraphy at 11 locations on Holden and Hollis Streets and Park Avenue, west of the Plant 35 property.

Purpose

The purpose of the investigation discussed in this report was to further assess groundwater quality downgradient of Plant 35, and to better determine the local subsurface stratigraphy.

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 (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.

1-1

Areas of Investigation

In October and November 1993, soil and groundwater were sampled and analyzed from the west side of Hollis Street and the south side of Park Avenue. 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 offsite areas of interest for the supplemental investigation are summarized in Table 1.

	Table 1 Offsite Areas of Interest Del Monte Plant 35, Emeryville, California
Area	Activity
Holden Street Park Avenue	Investigate the groundwater to confirm and assess the levels of chlorinated hydrocarbons downgradient of Plant 35
Hollis Street	Install and sample a groundwater monitoring well at the location where chlorinated hydrocarbons were detected in the groundwater grab sample, HOL-2 in November, 1993.

Groundwater samples collected and analyzed in October and November 1993 from boreholes drilled on the west side of Hollis Street contained chlorinated hydrocarbons at concentrations ranging between 1.1 μ g/L and 170 μ g/L of trichloroethylene (TCE) and 1.1 μ g/L and 19 μ g/L tetrachloroethene (PCE). These concentrations were similar to concentrations found at the downgradient property edge of Plant 35 in monitoring wells MW-10 and MW-11.

In order to confirm and further assess the levels of chlorinated hydrocarbons in groundwater downgradient of the property, groundwater at 10 locations west of Plant 35, six on Holden Street, and four on Park Avenue (see Figure 1), was sampled and analyzed for chlorinated hydrocarbons (figures are located at the end of the report). In addition, monitoring well MW-12 was installed on Hollis Street near the location of HOL-2 where chlorinated hydrocarbons were detected in groundwater in November 1993 at concentrations of 170 μ g/L TCE and 19 μ g/L PCE.

Section 2 Procedures

This section describes the general field investigation procedures.

Selection of Sampling Locations

The soil and groundwater sample locations for the additional investigation near Plant 35 were selected based upon the results of the 1993 investigation. Sample locations are shown in Figure 1.

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

All of the soil borings 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 (or stainless steel) sleeve containing the sample was sealed with Teflon sheets and polyethylene end caps, labeled and placed in an ice-filled cooler.

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. 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.

Samples intended for analysis of chlorinated hydrocarbons (by EPA Method 601) were placed in 40 ml VOAs prepared by the laboratory with preservatives (HCl). Samples were labeled and immediately placed in an ice-filled cooler. Upon completion of sample collection, the well casing was removed from the borehole and the borehole was sealed with neat cement.

Monitoring Well Installation and Development

Monitoring Well MW-12 was installed and developed between February 28, and March 2, 1994 (refer to Appendix C for the Well Completion Log). Upon completion of the soil boring, the borehole for the monitoring well was reamed using 10-inch-outer diameter hollow-stem augers. The monitoring well was constructed with 2-inch-inner diameter, flush threaded, schedule 40 PVC casing and 0.02-inch slot screen. A threaded cap was placed on the bottom of the casing. The first saturated permeable interval encountered while drilling was screened using 15 feet of screen. Well casing and screen were installed through the hollow stem augers.

Clean, washed Monterey sand (Lone Star No. 2-12) was used for gravel pack. The gravel pack was installed from the bottom of the borehole upward using the augers to tremmie the sand in the annular space between the borehole wall and the well screen. The top of the gravel pack was installed to approximately 2 feet above the top of the screen.

After the gravel pack was emplaced, a 1-foot-thick layer of bentonite pellets was placed on top of the gravel pack. Water was added to the borehole after the bentonite pellets were emplaced and the bentonite pellets were allowed to hydrate for over an hour before well construction continued.

An annular cement grout was installed from the top of the bentonite to the ground surface. MW-12 was completed below grade with a locking steel cover and a water-tight Christie box.

The well was developed by pumping with a Grunfos pump until the water was free of fine-grained particles. Approximately 3 borehole volumes of groundwater were purged during which time, the pH, conductivity, and temperature stabilized.

Laboratory Analysis

All samples were picked up on-site and analyzed by Chromalab, Inc., in San Ramon, California. All of the soil and groundwater samples were analyzed for chlorinated hydrocarbons by EPA Methods 8010 (soil) and 601 (water).

Section 3 Results

Results of groundwater sample analyses and observations of subsurface stratigraphy are described below.

Groundwater

As indicated in Section 1, groundwater samples were collected from 11 locations on Holden Street and Park Avenue to assess the extent of chlorinated hydrocarbons in groundwater downgradient of Plant 35. Results of the analyses are presented in Table 2 and shown in Figure 1. Trichloroethene (TCE) and Tetrachloroethene (PCE) were detected in HD-2 through HD-6, in concentrations ranging from nondetect to 190 μ g/L for TCE and 2.9 to 51 μ g/L for PCE. The greatest concentrations were detected in HD-3, HD-4, and HD-5. Small, but detectable concentrations of TCE, 1.1 to 7.4 μ g/L, were detected in the four samples from Park Avenue. Groundwater from the new monitoring well, MW-12, contained 170 μ g/L TCE, 16 μ g/L PCE, 33 μ g/L cis-1,2 dichloroethene, 2.3 μ g/L trans-1,2 dichloroethene, and 6.8 μ g/L vinyl chloride. The Chromolab Analytical Report is included in Appendix D.

Subsurface Stratigraphy

Each of the soil borings was sampled continuously in order to evaluate the subsurface stratigraphy. Figures 2 and 3 detail the approximate geologic cross-sections beneath the western property edge and beneath Holden Avenue. [The cross section representing the western property edge (Figure 2) is based on 3 borings drilled onsite in February 1994, as part of a supplemental onsite soil and groundwater investigation. Results of the onsite investigation will be reported and discussed in a separate document.]

The water bearing zone appears to be the gravely clay and silt to silty/clayey sand and gravel. Along the western edge of the property, this layer is approximately 4 feet thick and approximately 15 feet below ground surface (bgs). Beneath Holden Street, this layer is only 1 to 2 feet thick and approximately 8 to 11 feet bgs. Groundwater was generally encountered during drilling in this layer. In all of the wells, the groundwater elevation rose to approximately 7 to 9 feet bgs.

Table 2

Results of Offsite Groundwater Analyses

February 23 - March 2, 1994

Del Monte Plant 35, Emeryville, California

		Analyte									
	Vinyl	1,1-	Trans-1,2-	Cis-1,2-	1,1-	1,2-					
Sample	Chloride	Dichloroethene	Dichloroethene	Dichloroethene	Dichloroethane	Dichloroethane	Trichloroethene	Tetrachloroethene			
Location	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
HD-1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	2.9			
HD-2	<0.5	< 0.5	< 0.5	10	< 0.5	< 0.5	42	9.2			
HD-3	7.9	1	2.4	47	< 0.5	0.8	190	20			
HD-4	13	< 0.5	4	55	< 0.5	< 0.5	48	37			
HD-5	12	< 0.5	5	78	< 0.5	< 0.5	39	51			
HD-6	3.8	< 0.5	2.9	51	< 0.5	< 0.5	22	24			
PK-2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.8	< 0.5			
PK-3	<0.5	< 0.5	< 0.5	1.7	< 0.5	< 0.5	1.1	< 0.5			
PK-4	<0.5	< 0.5	< 0.5	3	0.6	< 0.5	7.4	< 0.5			
PK-5	<0.5	< 0.5	< 0.5	2.4	< 0.5	< 0.5	1.9	2			
MW-12	6.8	<0.5	2.3	33	< 0.5	< 0.5	170	16			

Note:

All samples were analyzed for Chlorinated Hydrocarbons, EPA method 601.

< 0.5 indicates that the laboratory detection limit was not exceeded.

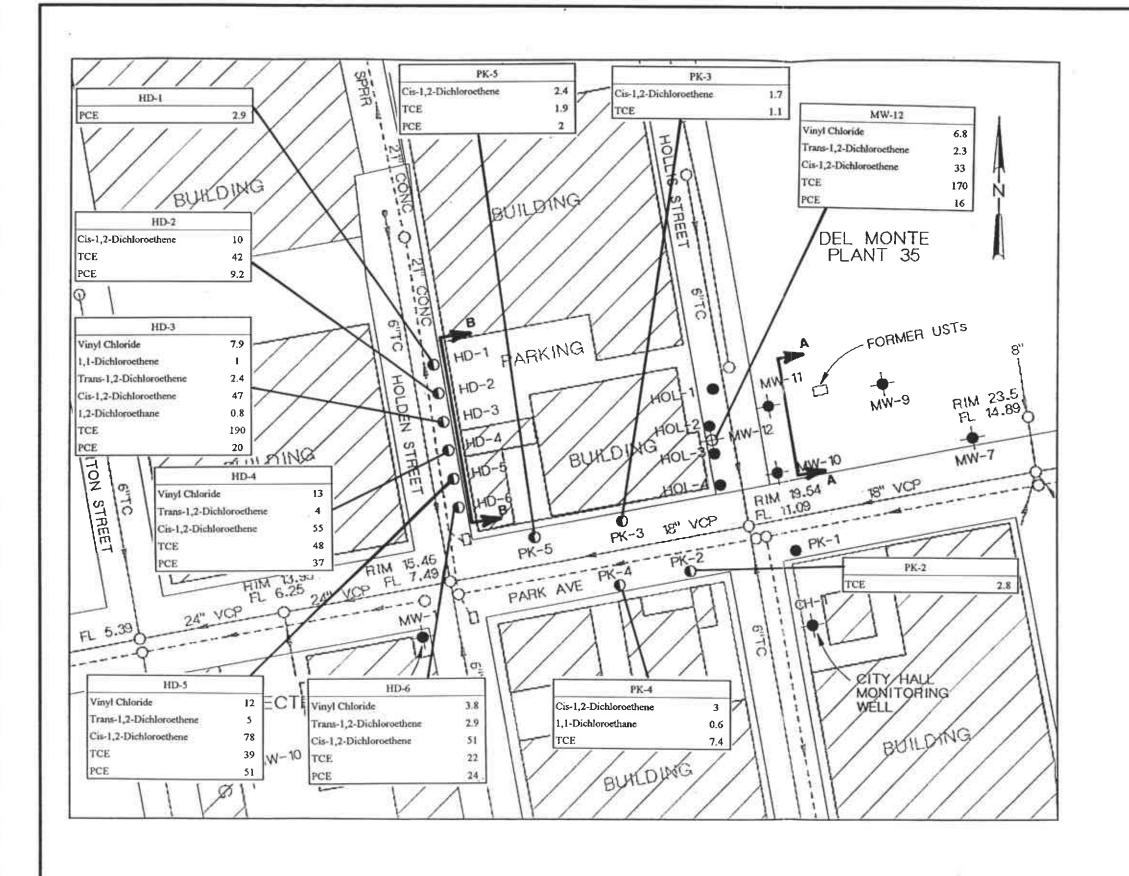
Section 4 Conclusions and Recommendations

The groundwater samples collected from boreholes drilled along Park Avenue contained low concentrations of chlorinated hydrocarbons; these concentrations are on the order of background chlorinated hydrocarbon levels in the area. The low concentrations of chlorinated hydrocarbons along Park Avenue suggest that chlorinated hydrocarbons have not migrated from Plant 35 to the southwest.

The groundwater samples collected from boreholes drilled on the east side of Holden Street indicate a zone of shallow groundwater containing chlorinated hydrocarbons. The concentrations of TCE detected were generally less than the concentrations found at the downgradient property edge of Plant 35 with the exception of Sample HD-3 that had a TCE concentration of 170 μ g/L. The levels of PCE encountered on Holden Street are generally higher than the levels historically encountered in the Plant 35 monitoring wells (with the exception of MW-10).

The results of this investigation are inconclusive with respect to the source of the TCE and PCE detected in samples from Holden Street. Specifically, it is not known if activities in the block between Hollis and Holden Street have contributed to the chlorinated hydrocarbons detected in the groundwater. In addition, nearby sites with known releases of solvents to groundwater have not been completely characterized.

With this investigation, Del Monte has assessed offsite groundwater conditions as much as is practicable. We recommend continued operation of the GET system and monitoring of MW-12 as described in the Draft Remediation Plan for Del Monte Plant 35, dated April 1994, prepared for Del Monte by CH2M HILL.



LEGEND:

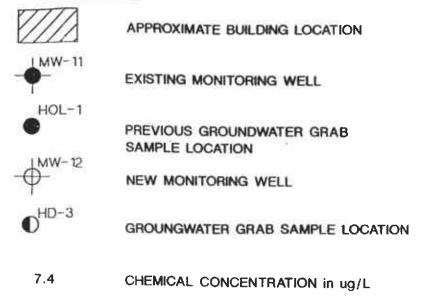
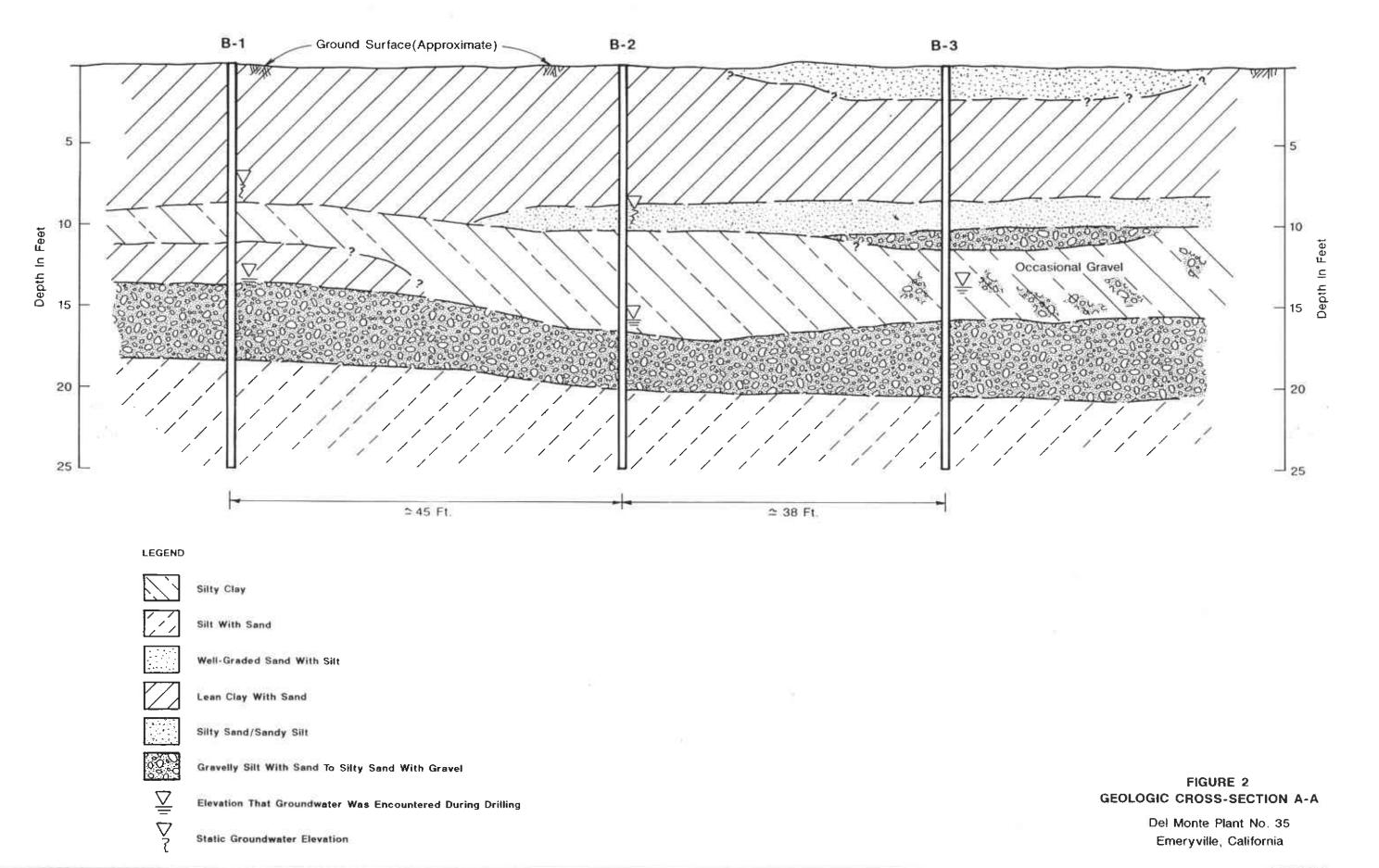
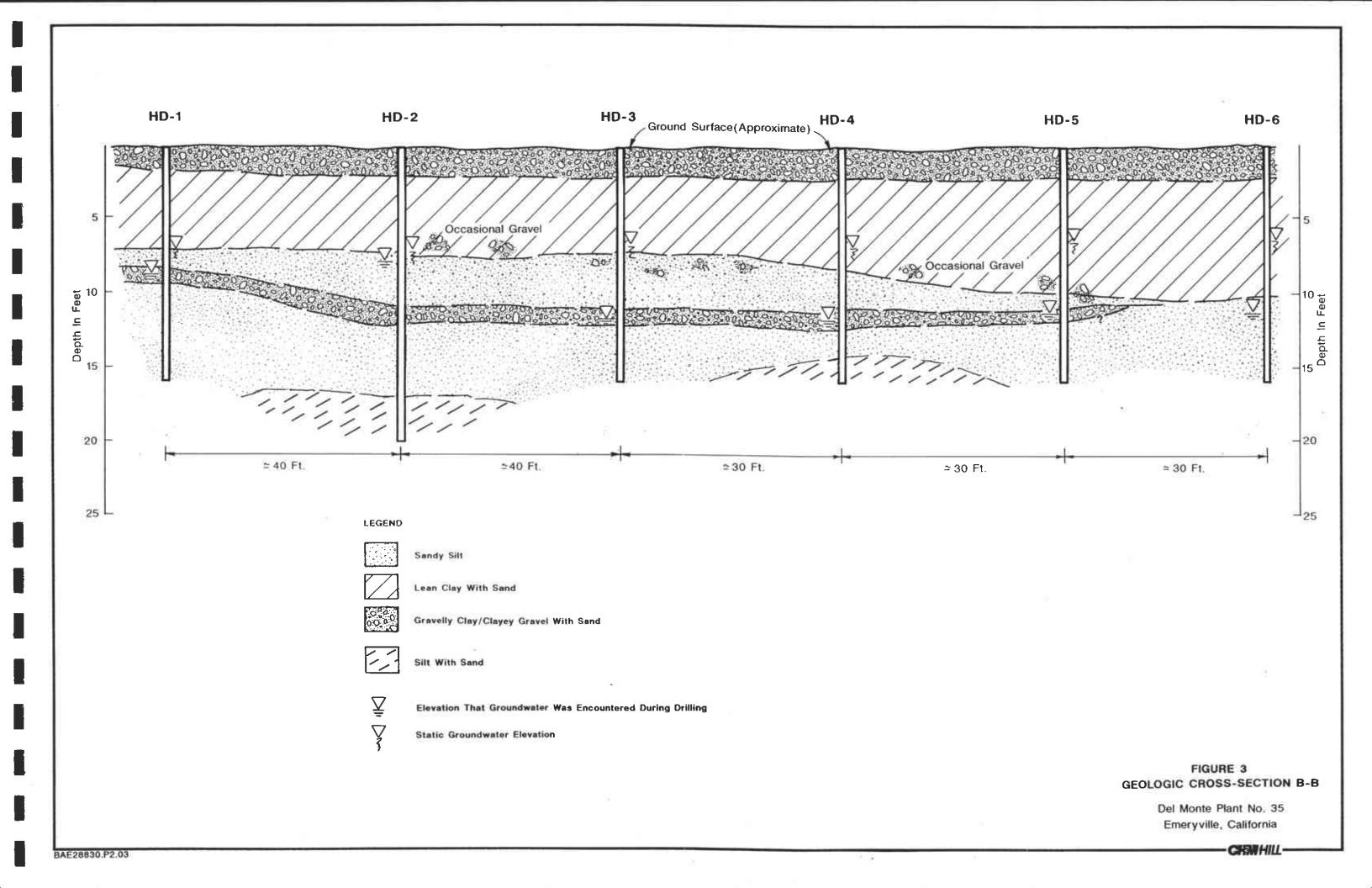


FIGURE 1
OFFSITE GROUNDWATER SAMPLE LOCATIONS
AND ANALYTICAL RESULTS

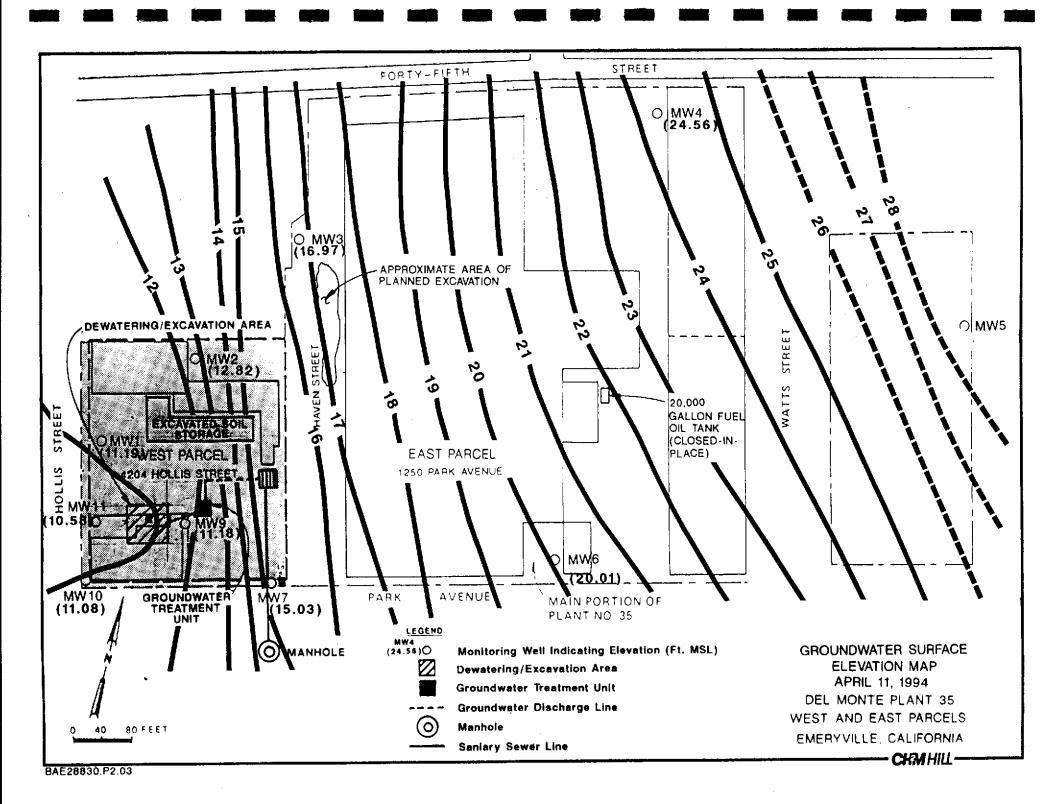
DEL MONTE PLANT 35 EMERYVILLE, CALIFORNIA



- CHM HILL-



Appendix A Groundwater Surface Elevation Map



Appendix B Soil Boring Logs



BAE28830.P2.03

BORING NUMBER

MW-12

SHEET 1 OF 2

SOIL BORING LOG

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
ODTI I THE METUOD AND FOURDMENT	Simon 2400 Hollow Stem Auger 5-1/4 inch 0.0

WATER LEVELS 6.34 ft bgs 3/2/94 LOGGER Keith Gally START 2/28/94 FINISH 2/28/94 STANDARD PENETRATION TEST RESULTS SAMPLE SOIL DESCRIPTION COMMENTS OEPTH BEL SURFACE (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, ABER) TYPE RECOVERI INTERVAL DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION 6" -6" -6" A SON A MINERALOGY (N) organics present 1.0 LEAN CLAY with SAND. (CL), dark gray with brown mottling, moist, stiff, fine to medium grained sand, occasional gravel 5-1 1.3 near base of sample 2.5 LEAN CLAY with SAND. (CL), similar to above S-2 1.5 4.0 LEAN CLAY with SAND. (CL), medium gray, moist, stiff, fine to medium grained sand, increased sand and gravel content occasional gravel 5-3 1.4 5.0 5.5 LEAN CLAY with SAND. (CL), similar to above, medium gray with light brown mottling, firm 5-4 1.5 slight odor from sample 7.0 SANDY SILT with CLAY, (ML), olive with white mineral deposits and orange staining, moist, soft, fine to medium grained sand 5-5 1.2 8.5 Top 6 in.: GRAVELLY SANDY SILI. (ML), olive with orange staining, dry to moist, firm, fine to medium grained sand, fine gravel
Bottom II in.:SILT with SAND and GRAVEL,
(ML), olive with orange staining, dry to
moist, firm, fine to medium grained sand, S-6 1.4 10.0 10.0 fine gravel Top 12 in.:CLAYEY SILT with SAND, (ML), olive with black streaks, moist, stiff, fine S-7 1.5 grained sand, trace gravel Bottom 6 in.:SANDY SILT/SILTY SAND. 11.5 (ML/SM), medium brown to orange, moist, groundwater encountered at approx 11.5 soft, fine to medium grained sand Top 6 in::SANDY SILT/SILTY SAND, (ML/SM), similar to above Bottom 12 in: SANDY SILT with CLAY, (ML), 5-8 1.5 medium brown with black and orange, wet, stiff, fine to medium grained sand 13.0 SANDY SILT with CLAY. (ML), similar to above S-9 1,4 14.5



BAE28830.P2.03

BORING NUMBER

MW-12

SHEET 2 OF 2

PROJE	CT Del	Monte P	lant #3	5	LOCATION Emeryville, CA				
ELEVA	TION _				DRILLING CONTRACTOR Gregg Drilling, Pac	checo, CA			
DRILLI	ING MET	HOD AN	D EQUI	PMENT Simco 24	400, Hollow Stem Auger, 5-1/4 inch O.D.				
WATER	LEVEL:	6.34	ft bgs 3	3/2/94	START 2/28/94 FINISH 2/28/	'94 LOGGER Keith Gally			
SAMPLE STANDARD PENETRATION				STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS			
DEPTH BELOW SURFACE (FT)	SAMPLE STANDARD PRETRATION TEST RESULTS BE COVERY (N) BE COVERY (N) COVERY (N)				SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION			
	16.0	S~10	1,1		SANDY SILT. (ML), medium light brown, moist, soft, plastic, fine grained sand, some organics	organics present			
-		S-II	1.3		Top 12 in.: <u>SANDY SILT</u> , (ML), similar to above Bottom 3 in.: <u>SANDY SILT</u> , (ML), medium brown to gray, moist, very stiff, fine grained sand	-			
	17.5				SANDY SILT, (ML), similar to above				
		S-12	1.4			_			
_	19.0				SANDY SILT, (ML), similar to above	_			
20.0 —		S-13	1.5		SANDY SILI, (ML), SIMILAN TO ADOVE				
	20.5								
-					Total Depth = 20.5				
					- -				
					-				
25.0 —					_				
-					•				
					,				
-					•	-			
-					-	-			



OJECT NUMBER	BORING NUMBER
E28830.P2.03	HD-I

BAE28830.P2.03

SHEET 1 OF 2

SOIL BORING LOG

PROJECT	Del	Mante	Plant	#35	
PRUME []	00.	Marito	1 10110	" 33	

LOCATION Emeryville, CA

ELEVATION _

- DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

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

12151	LEVEL!				START 2/24/94 11:20 am FINISH 2/24/94 12:10 pm LOGGER Keith Gally					
部	SAMPLE STANDARD PENETRATION TEST RESULTS				SOIL DESCRIPTION	COMMENTS				
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION				
	10									
•	1.0	S-1	1.5		Top 12 in.: <u>GRAVELLY SANDY CLAY.</u> (CL), medium brown, moist to wet, firm, well graded sand, fine grave! Bottom 6 in.: <u>LEAN CLAY with SAND.</u> (CL), dark gray, moist, stiff, fine grained sand	-				
	2.5				LEAN CLAY with SAND. (CL), similar to	organic material (roots)				
1		5-2	1.5		above with orange and brown mottling	-				
-	4.0				Top 6 in::LEAN CLAY with SAND. (CL).	4				
5.0 —		S-3	1.5		similar to above Bottom 12 in.:SILTY LEAN CLAY with SAND, (CL), light gray, moist, stiff, occasional fine rounded gravel	<u> </u>				
	5.5	-		:	SILTY LEAN CLAY with SAND. (CL), similar					
_	7.0	S-4	1.2		to above, olive, gravel up to 1/2 inch	-				
	7.0				<u>SANDY SILT</u> , (ML), medium brown and gray with orange staining, moist, firm, fine grained sand					
4		S-5	1.5			-				
	8.5				Top 10 in 10 AVEV CRAVEL to CRAVELLY					
-	10.0	5-6	1.5		Top 12 in:CLAYEY GRAVEL to GRAVELLY CLAY (GC-CL), medium brown, wet, dense, well graded sand, fine rounded gravel Bottom 6 in:SANDY SILT with GRAVEL. (ML), medium brown with dark specks and orange mottling, stiff, fine grained sand	- - -				
0.0 -	_10.0				-	no recovery				
		5-7	0.0							
-	11 =					1				
	11.5			<u> </u>	SANDY SILT, (MH), medium brown and gray with orange staining and black streaks,					
		S-8	1.5		elastic, very fine sand	1				
	12.0									
-	13.0				similar to above	1				
_		S-9	1.5							
	14.5		L							



PROJECT	NUMBER

BAE28830.P2.03

BORING NUMBER

HD-1

SHEET 2 OF 2

PROJE	CT <u>Del</u>	Monte F	lant #3	5	LOCATIONE	neryville, CA				
ELEVA	TION _	_			DRILLING CONTRACTOR Gregg Drilling, Pa					
DRILLI	NG MET	HOC AN	O EQUI	PMENT Simco 2	400, Hallow Stem Auger, 5-1/4 inch O.D.					
				2/24/94		4/94 12:10 pm LOGGER Keith Gally				
						COMMENTS				
	PENETRATION		PENETRATION TEST		O THIEVE O					
뿔	INTERVAL	TYPE AND NUMBER	RECOVERY	RESULTS		DEPTH OF CASING, DRILLING RATE				
EF	Ë	后置	8	6" -6" -6" (N)	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DRILLING FLUID LOSS TESTS AND INSTRUMENTATION				
_ ದರ	Z									
	16.0	S-10	1.5		SANDY SILT. (MH), medium gray with brown and orange staining, wet, firm, fine grained sand, increase in fine rounded grayel towards base	1				
-					Total Depth = 16.0 ft	1				
]									
-						4				
_										
				1						
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-						4				
20.0 —						_				
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BAE28830.P2.03

BORING NUMBER

HD-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	LEVEL:	6.44	ft bgs ?	2/24/94	START 2/24/94 9:15 am FINISH 2/24/94 10:20 pm LOGGER Keith Gally					
≆î.	SAMPLE STANDARD PENETRATION				SOIL DESCRIPTION	COMMENTS				
DEPTH BELOW SURFACE (FT)	INTERVAL NUMBER AND TYPE RECOVERY		TEST RESULTS 6' -6' -6'	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE. MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION					
200		Z«	<u>~</u>							
	1.0	·			Top 12 in.:GRAVELLY SANDY CLAY, (CL),	rockbase .				
-	2.5	S-1	1.5		medium brown, moist, firm, fine to medium sand, fine gravel Bottom 6 in.: <u>LEAN CLAY with SAND</u> , (CL), dark brown, moist, stiff, very fine grained sand, trace of gravel	organic material (roots)				
	2.0				LEAN CLAY with SAND. (CL), similar to above					
-		S-2	1.5		above	1				
		ا کا ا	1.5			gravel up to 1/2 in. at 3.5 ft				
-	4.0				Top 6 in: LEAN CLAY with SAND. (CL),	-				
5.0 —		S-3	1.5		similar to above Bottom 12 in.:CLAYEY SILT, (ML), light gray, moist, stiff, interbedded with coarse sand to fine gravel	-				
	5.5				Top 6 in.: CLAYEY SILT, (ML), similar to					
_	7.0	S-4	1.2		above Bottom 12 in.: <u>SANDY GRAVELLY CLAY,</u> (CL), medium gray with brown mottling and orange staining, fine to coarse sand, fine gravel	-				
-		S-5	1.5		Top 6 in.: <u>SANDY GRAVELLY CLAY.</u> (CL), similar to above Bottom 12 in.: <u>STLT with SAND.</u> (ML), light gray to brown, wet, stiff, very fine grained sand	groundwater encountered at 7 to 7.5 ft				
	8.5				SILT with SAND. (ML), similar to above,					
-		S-6	1.5		black streaking and orange staining, occasional fine rounded gravel, moist					
10.0	10.0				SANDY SILT. (ML), light brown with black	-				
-		S-7	1.5		specks and orange staining, wet, stiff, fine grained sand					
	11.5				Top 6 in::GRAVELLY SILT with SAND. (ML),					
-	42.5	S-8	1.5		medium brown, wet, firm, fine gravel Bottom 12 in.:SANDY SILT, (ML), medium brown with dark brown mottling, occasional fine gravel, fine grained sand, orange staining					
-	13.0				SANDY SILT. (ML), similar to above	1				
		S-9	1.5			 				
	14.5				Top 12 in.: <u>SANDY SILT</u> , (ML), similar to above, soft					



BAE28830.P2.03

BORING NUMBER

HD-2

SHEET 2 OF 2

SOIL BORING LOG

PROJECT	Det	Monte	Plant	#35
PHOLE-I:T	DC	HIOHIC	1011	$\pi \rightarrow 0$

LOCATION Emeryville, CA

ELEVATION __

DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA

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

WATER LEVELS 6.44 ft bgs 2/24/94

START 2/24/94 9:15 am FINISH 2/24/94 10:20 pm LOGGER Keith Gally

æf-		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS	
ECO F (F	Ar.	_ w	F¥	STANDARD PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE	
DEPTH BELOW SURFACE (FT)	INTERVAL NUMBER AND TYPE		RECOVERY	6" -6" -6"	MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
	16.0	S-10	1.5		Bottom 6 in.: <u>SANDY SILT with GRAVEL.</u> (ML), medium brown with orange mottling, wet, firm, fine grained sand		
.		S-11	1.5		Top 6 in.: <u>SANDY SILT with GRAVEL</u> , (ML), similar to above Bottom 12 in.: <u>SANDY SILT</u> , (ML), medium brown with orange staining, wet to moist, fine grained sand,		
	17.5				ELASTIC SILT with SAND, (MH), light gray, soft, fine grained sand, wet		
		S-12	1.5				
-	19.0				ELASTIC SILT with SAND. (MH), similar to above		
20.0 —		S-13	1.5		_	-	
	20.5				Total Depth = 20.5 ft		
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26.0 -					_	-	
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BORING NUMBER

BAE28830.P2.03

HD-3

SHEET 1 OF 2

SOIL BORING LOG

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

MATER LEVELS 6.04 ft bgs 2/24/94 START 2/24/94 12:30 pm FINISH 2/24/94 1:30 pm LOGGER Keith Gally STANDARD PENETRATION TEST RESULTS SAMPLE SOIL DESCRIPTION COMMENTS 夏丘 DEPTH BELL SURFACE (SOIL NAME, USCS GROUP SYMBOL, COLOR, NUMBER AND TYPE DEPTH OF CASING, DRILLING RATE RECOVERY INTERVAL MOISTURE CONTENT, RELATIVE DENSITY DRILLING FLUID LOSS 6" -6" -6" OR CONSISTENCY, SOIL STRUCTURE, TESTS AND INSTRUMENTATION (N) MINERALOGY 1.0 Top 10 in.: GRAVELLY SANDY CLAY, (CL), rockbase material medium brown with orange staining, moist, firm, fine to medium grained sand, fine grave! Bottom 3 in.:<u>SILTY LEAN CLAY with SAND</u>, S-1 1.1 (CL), dark gray with slight brown mottling, moist, stiff, very fine grained sand 2.5 organic material (roots) SILTY LEAN CLAY with SAND, (CL), similar to above S-2 1.5 4.0 SILTY LEAN CLAY with SAND. (CL), similar to above, medium gray S-31.5 5.0 5.5 CLAYEY SILT with SAND, (ML), medium gray with brown mottling, moist, stiff, very fine sand, some orange mottling S-4 1.2 7.0 CLAYEY SILT with SAND. (ML), similar to S-5 1.5 8.5 Top 6 in:: CLAYEY SILT with SAND. (ML), similar to above
Bottom 12 in.:CLAYEY SILT with SAND and
GRAVEL. (ML), medium brown with gray S-6 1.5 mottling and black and orange staining, moist, firm, fine grained sand, fine rounded 10.0 gravel 10.0 Top 12 in::CLAYEY SILT with SAND and GRAVEL. (ML), similar to above Bottom 6 in::SANDY SILT with GRAVEL. (ML), medium brown and gray mottling with substantial orange staining, moist, firm, fine to medium grained sand, fine rounded decreasing gravel from 10 to 11 ft S-7 1.2 11.5 gravel Top 8 in.: <u>S1LTY GRAVEL</u>, (GM), medium brown, wet, fine to medium gravel, dense Bottom 10 in.:<u>SANDY S1LT</u>, (MH), light S-8 1.5 brown to gray with black specks, wet, firm, fine grained sand 13.0 SANDY SILT, (MH), similar to above, more plastic, less sand 5 - 91.5 14.5 SANDY SILT, (MH), similar to above



PROJECT	NUMBER
BAE28830	D.P2.03

BORING NUMBER

HD-3

SHEET 2 **OF** 2

PROJECT Dei Monte Plant #35	LOCATION Emeryville, CA	
	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA	
DRILLING METHOD AND EQUIPMENT Simco 2400		
WATER LEVELS 6.04 ft bgs 2/24/94	START 2/24/94 12:30 pm FINISH 2/24/94 1:30 pm LOBBER Keith Gally	

		SAMPLE		2/24/94 STANDARD	START 2/24/94 12:30 pm FINISH 2/24 SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS 6° -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
1	16.0	S-10	1.5		SANDY SILT. (MH), similar to above, with occasional fine rounded gravel Total Depth = 16.0 ft	
20.0						
- -						
25.0 —						
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PROJECT NUMBER BORING NUMBER

BAE28830.P2.03

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.

MATE	RLEVEL	LEVELS 6.34 ft bgs 2/24/94			START 2/24/94 2:00 pm FINISH 2/24/94 2:45 pm LOGGER Keith Gally		
≢F	SAMPLE STAN		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS		
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	TEST RESULTS 6'-6'-6'	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
	1.0						
	2.5	S-1	1,3		Top 12 in: GRAVELLY CLAY, (CL), medium brown with orange staining, moist, stiff, coarse sand to fine grained gravel Bottom 6 in: SILTY CLAY, (CL), dark gray with brown mottling, moist to dry, stiff, some fine grained sand	rockbase material	
	2.0	····-			SILTY CLAY, (CL), similar to above		
		S-2	1,0			organic material (roots)	
	4.0	1			SILTY CLAY, (CL), similar to above, medium		
5.0 –		S-3	1.5	 -	gray, increased organics and orange staining —	_	
	5.5				SILTY CLAY, (CL), similar to above, medium		
	7.0	S-4	1.5		gray brown, some mottling, fine grained -	_	
-		S-5	1.5		SILTY CLAY with SAND and GRAVEL. (CL), olive with with white mineral sand deposits, moist to dry, stiff, fine to medium grained sand	- -	
-	8.5	S-6	1.5		SANDY SILI, (ML), medium brown and gray with orange staining, moist, stiff, fine to medium grained sand, fine gravel	_	
10.0 —	10.0				Top 15 in.: <u>CLAYEY SILT</u> , (ML), medium gray	_	
_	11.5	S-7	1.5		with black and brown specks, some orange staining, fine rounded gravel present Bottom 3 in.:SANDY SILT, (ML), light gray with orange staining, black specks, fine to medium grained sand, trace of fine rounded gravel	-	
-		S-8	1,4		Top 8 in.:SANDY SILT. (ML), similar to above Bottom 12 in.:SANDY SILT. (ML), similar to above, increased plasticity, decreasing sand content	groundwater encountered at approx II.5 ft	
_	13.0	S-9	1.5		CLAYEY SILT with SAND. (MH), light brown with orange mottling, wet, stiff, plastic, very fine sand	<u>-</u>	
	14.5				Ī	1	
		<u> </u>	i				



BAE28830.P2.03

BORING NUMBER

HD-4

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.

	R LEVELS 6.34 ft bgs 2/24/94 SAMPLE STANDARD			START 2/24/94 2:00 pm FINISH 2/24	COMMENTS	
配		JAMPLE T	· ·	PENETRATION	SOIL DESCRIPTION	COMMENTS
SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION- TEST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	16.0	S-10	1.5		CLAYEY SILT with SAND, (MH), similar to above, no orange mottling	
1					Total Depth = 16.0 ft	-
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5.0					-	
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PROJECT	NUMBER

BAE28830.P2.03

BORING NUMBER

HD-5

SHEET 1 OF 2

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

WATER	ER LEVELS 5.9 ft bgs 2/25/94			25/94	START 2/25/94 8:00 am FINISH 2/25/94 8:45 am LOBGER Keith Gally			
≅₽		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS		
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION		
	1.0				Top 12 in.:GRAVELLY SANDY CLAY/CLAYEY GRAVEL, (CL/GC), medium brown with	rockbase material		
_	2.5	S-1	1.2		orange staining, moist, firm/dense, well graded sand, fine gravel Bottom 6 in:LEAN CLAY with SAND. (CL), dark gray with medium brown mottling, moist, stiff, some fine sand	•		
-		S-2	1.3		LEAN CLAY with SAND. (CL), similar to above			
5.0 —	4.0	S-3	1.5		LEAN CLAY with SAND and SILI. (Ct.), medium to dark gray with mottling, moist to dry, stiff, very fine grained sand -	-		
	5.5	S-4	1.5		SILTY CLAY, (CL), medium gray with orange staining, moist to dry, very fine grained sand	occasional fine, subrounded gravel up to 1/2 in.		
-	7.0	S-5	1.3		SILTY CLAY with SAND. (CL), olive with with white sand seams, moist, stiff, occasional fine rounded gravel			
_	8.5	S-6	1.5		SILTY CLAY with SAND. (CL), similar to above, increased sand and gravel content, orange staining near top			
10.0 -	10.0	S-7	1.5		SILTY CLAY with SAND and GRAVEL. (CL), medium gray with black specks, significant orange staining, increased subangular gravel	groundwater encountered at approx 11 ft		
-	11.5	S-8	1.4		Top 6 in.:SANDY CLAY, (CL), light brown to gray, wet, firm, fine grained sand Bottom 12 in.:SANDY SILT, (ML), light brown to gray with black specks, wet, stiff, fine grained sand			
-	13.0	5-9	1.3		<u>SANDY SILT</u> , (ML), similar to above			
	14.5							



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BAE28830.P2.03

BORING NUMBER

HD-5

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.	

WATER LEVELS 5.9 ft bgs 2/25/94 START 2/25/94 8:00 am FINISH 2/25/94 8:45 am LOGGER Keith Gally STANDARD PENETRATION TEST RESULTS SAMPLE SOIL DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY TYPE AND NUMBER RECOVERY DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION INTERVAL 6" -6" -6" (N) 5-10 1.2 <u>SANDY SILT</u>, (MH), similar to above, medium brown-orange, increasing plasticity occasional gravel 16.0 Total Depth = 16.0 ft 20.0 -25.0 ·



BAE28830.P2.03

BORING NUMBER

HD-6

SHEET 1 OF 2

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
DRILLING METHOD AND EQUIPMENT	Simoo 2400, Hollow Stem Auger, 5-1/4 inch O.D.
MATERIEURIA 63 ff bas 2/25/04	2/25/04 0:10 pm 2/25/04 0:55 pm Koith Golly

WATER	R LEVELS 6.3 ft bgs 2/25/94		25/94	START 2/25/94 9:10 am FINISH 2/25/94 9:55 am LOGGER Keith Gally		
≆ .		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	YAL.	YPE	/ERY	STANDARD PENETRATION TEST RESULTS	I MOISTURE CONTENT. RELATIVE DENSITY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS
DEPT!	INTERVAL	NUMBER AND TYPE	RECOVERY	(N) 66e.	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	TESTS AND INSTRUMENTATION
	1.0					
	2.5	S-1	1.5		Top 12 in::CLAYEY GRAVEL and SAND, (GC-SC), medium brown with black and orange specks, well graded sand, fine gravel, moist, dense Bottom 6 in::LEAN CLAY with SAND, (CL), dark gray, moist, stiff, fine grained sand, some sit	rockbase material
		5-2	1.5		LEAN CLAY with SAND, (CL), similar to above	some organics present
-	4.0	ļ			LEAN CLAY with SAND and SILI. (CL),	
5.0 —		S-3	1.2		medium gray with brown mottling, moist, stiff, very fine grained sand, occasional fine rounded gravel	_
	5.5				SILTY CLAY, (CL), similar to above, medium	
		S-4	1.4		gray to olive	-
	7.6				CTLTV CLAV with CAND /CL) alive with	
-		S-5	1.3		SILTY CLAY with SAND. (CL), olive with with white sand seams, black streaks, moist, firm to soft, medium grained sand	
	8.5				T . 0 : DT TV 0: 1/2 (0.12)	
-	• • •	S-6	1.4		Top 6 in.:SILTY CLAY with SAND, (CL), similar to above, olive gray with black and orange staining, moist, stiff, fine gravel Bottom 11 in.:SILTY CLAY with SAND, (CL), olive with black streaks, moist, stiff, fine grained sand	<u>.</u>
10.0 —	10.0	S-7	1.5		Top 12 in.:SILTY CLAY with SAND. (CL), similar to above Bottom 6 in.:SANDY SILT with CLAY. (ML), olive with brown mottling, black and orange staining, wet, firm, interbedded gravel	groundwater encountered at approx 11 ft-
	11.5				Top 6 in.: <u>SANDY SILT with CLAY</u> , (ML),	
-	13.0	S-8	1.5		similar to above Bottom 12 in: <u>CLAYEY SILT with SAND</u> , (ML), medium to light brown with black and orange specks, wet to moist, stiff, fine grained sand	-
	13.0				Top 12 in.:CLAYEY SILT with SAND. (ML),	-
		S-9	1.5		.simitar to above Bottom 6 in.: <u>SANDY SILT</u> , (ML), medium brown with gray mottling, moist, firm, fine grained sand	_
	14.5					



ROJECT NUMBER	BORING NUMBER

BAE28830.P2.03

HD-6

SHEET 2 OF 2

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 6.3 ft bgs 2/25/94	eTADT 2/25/94 9:10 am ETAMEL 2/25/94 9:55 am LOGGED Keith Gally

		S 6.3 ft				5/94 9:55 am LOGGER Keith Gally COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS 6° -6' -6' (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
		S-10	1,5		SANDY SILI, (ML), similar to above	
	16.0				Total Depth = 16.0 ft	_
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BAE28830.P2.03

BORING NUMBER PK-2

SHEET 1 OF 2

SOIL BORING LOG

PROJECT Del Monte Plant #35

LOCATION Emeryville, CA

ELEVATION _

DRILLING CONTRACTOR Gregg Brilling, Pacheco, CA

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

HATER	R LEVELS 6.54 ft bgs 3/1/94		1/1/94	START 3/1/94 8:45 am FINISH 3/1/94 9:30 am LOGGER Keith Gally		
¥F.		SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS
	¥	물~	∃RY	PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE
DEPTH BELOW SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	ORILLING FLUID LOSS TESTS AND INSTRUMENTATION
100			<u> </u>			
-	1.0				LEAN CLAY with SAND, (CL), dark gray,	organics (roots) present
_		S-1	1.2		moist, stiff, fine grained sand, occasional fine gravel	
	2.5]
					LEAN CLAY with SAND and SILT. (CL), dark to medium gray, moist, stiff, fine	
-		S-2	1.3		grained sand, occasional fine gravel	1
	4.0					
5.0		S-3	1.4		Top 12 in::LEAN CLAY with SAND and SILT. (CL), similar to above Bottom 5 in::SILTY CLAY with SAND. (CL), medium gray with brown mottling, orange staining, stiff, fine sand, some fine rounded gravel	- -
	5.5				SILTY CLAY with SAND, (CL), similar to	
-		S-4	1.3	77-70-	above	-
	7.0					
		5-5	1.3		WELL GRADED SAND with CLAY and GRAVEL. (SW), medium gray with brown and orange mottling, moist to wet, dense	-
-	8.5					<u> </u>
_	0.0	5-6	1.1		Top 6 in.: <u>WELL GRADED SAND with CLAY and GRAVEL</u> . (SW), similar to above Bottom 7 in.: <u>POORLY GRADED SILTY SAND,</u> (SP-SM), medium brown with orange mottling, moist, very fine sand	
10.0 -	10.0	·			Top 6 in.: <u>GRAVELLY CLAY</u> . (CL), medium	groundwater encountered at approx —
-	4.5	5-7	1.3		brown, wet, loose, fine rounded gravel and coarse sand Bottom 10 in.: <u>GRAVELLY SILT with SAND,</u> (ML), medium brown with orange staining, moist, fine sand, up to 1/2 in. gravel	10.0 ft
	11.5				SILT with SAND, (ML), medium brown with black specks, moist, stiff, fine grained	
-		5-8	1.1		sand	-
	13.0]
		S-9	1.4		<u>SILT with SAND</u> , (ML), similar to above	
	14.5			:		



PROJECT I	NUMBER
BAE28830	.P2.03

BORING NUMBER

PK-2

SHEET 2 OF 2

SOIL BORING LOG

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

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

ER LEVELS 6.54 ft bgs 3/1/94					START 3/1/94 8:45 am FINISH 3/1/9	
-		SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS
און אין אין	INTERVAL	TYPE AND NUMBER	RECOVERY	STANDARD PENETRATION TEST RESULTS 6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE ORILLING FLUID LOSS TESTS AND INSTRUMENTATION
	16.0	5-10	1.2		SANDY SILT. (ML), similar to above, increasing plasticity	
	10.0				Total Depth = 16.0 ft	
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BAE28830.P2.03

BORING NUMBER

PK-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.

		<u></u>			START 2/25/94 1:40 pm FINISH 2/25/94 2:30 pm LOGGER Keith Gally		
CE (FT)		SAMPLE Be	ERY	STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE	
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	6" -6" -6" (N)		DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
	1.0					4-inches asphalt 6-inches concrete	
1	1.0	S-1	1.3		LEAN CLAY with SAND. (CL), dark gray, moist, firm, fine grained sand, occasional coarse grained sand	organics (roots) present .	
	2.5				LEAN CLAY with SAND, (CL), dark gray, moist to dry, stiff, very fine grained sand		
	4.0	S-2	1.2				
0		S-3	1.1		LEAN CLAY with SAND. (CL), similar to above, medium gray with slight brown mottling, occasional coarse grained sand		
-	5.5	S-4	1.2		Top 11 in.:LEAN CLAY with SAND. (CL), similar to above Bottom 4 in.:SANDY SILT. (ML), olive with white mineral deposits, moist, firm, fine to coarse grained sands	_	
	7.0	S-5	1.0		Top 6 in.: <u>SANDY SILT.</u> (ML), similar to above Bottom 6 in.: <u>SANDY SILT with GRAVEL</u> . (ML), clive brown with orange staining, moist, firm, fine to medium grained sand, fine gravel	- -	
-	8.5	S-6	1.4		Top 6 in.: <u>CLAYEY GRAVEL</u> , (GC), medium brown, wet, dense, fine gravel, coarse sand Bottom 11 in.: <u>CLAYEY SILT with SAND</u> , (ML), olive brown with orange mottling, moist, very fine sand, stiff	groundwater encountered at appro 8.5 ft	
o — -	10.0	S-7	1.2		SANDY GRAVELLY CLAY, (CL), medium brown with black and orange specks, wet, dense, fine gravel, fine to coarse grained sand		
-	11.5	S-8	1.3		Top 6 in::SANDY SILT. (ML), dark gray to black with medium brown mottling, soft, fine grained sand Bottom 10 in::SILT with SAND. (ML), medium olive brown with gray, moist, firm, increased plasticity, very fine grained sand		
	13.0	S-9	1.4		SILI with SAND, (ML), similar to above		
	14.5			1			



PROJECT	NUMBER	 BORING	NUMBER

BAE28830.P2.03

PK-3

SHEET 2 OF 2

PROJECT Del Monte Plant #35	LOCATION Emeryville, CA
ELEVATION	DRILLING CONTRACTOR Gregg Drilling, Pacheco, CA
DRILLING METHOD AND EQUIPMENT Simon	2400, Hollow Stem Auger, 5-1/4 inch O.D.
0.0 (1.1	

WATER	LEVELS 6.6 ft bgs 2/25/94				START 2/25/94 1:40 pm FINISH 2/25/94 2:30 pm LOGGER Keith Gally		
a£		SAMPLE PE		STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS	
138 T	VAL.	AND	ÆRY		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT. RELATIVE DENSITY	DEPTH OF CASING, DRILLING RATE	
DEPTH BELON SURFACE (FT)	INTERVAL	TYPE AND NUMBER	RECOVERY	6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
		S-10	1.3		SILT with SAND. (ML), similar to above, increasing plasticity		
-	16.0				Total Depth = 16.0 ft		
-			i			-	
					- -	-	
-					-	-	
20.0 —					_	-	
						-	
					-	-	
26.0 —					-	_	
					-		
			:		-	-	
-					-		



BAE28830.P2.03

BORING NUMBER

PK-4

SHEET 1 OF 2

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

ATER	LEVELS	5.47 f	t bgs 3	3/1/94	START 2/28/94 14:25 FINISH 2/28/	/94 15:45 LOGGER Keith Gally	
-		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS	
SURFACE (FT)	INTERVAL NUMBER AND TYPE RECOVERY		PENETRATION TEST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION		
						2-inches asphalt 6-inches concrete	
+	1.0				Top 6 in.: CLAYEY SAND with GRAVEL, (SC), medium brown, moist, dense, fine to		
		S-1	1.2		medium grained sand, fine gravel Bottom 8 in.: <u>LEAN CLAY with SAND.</u> (CL), medium dark gray, moist, stiff, fine sand, occasional fine gravel		
	2.5				<u>LEAN CLAY with SAND</u> , (CL), similar to above	organics present (roots)	
-		S-2	1.5			1	
-	4.0				LEAN CLAY with SAND. (CL), similar to above, brown gray		
5.0 -		S-3	1.3		-		
	5.5				Top 12 in.:LEAN CLAY with SAND. (CL),	:	
	7.0	5-4	1.5		similar to above Bottom 6 in:: <u>CLAYEY SILT with SAND.</u> (ML), clive with orange staining, sand seams, moist, stiff, fine sand, occasional fine rounded gravel	-	
1	8.5	S-5	1.4		Top 10 in.:SILTY SAND with GRAVEL. (SM), medium brown with orange staining, moist, dense, fine to medium grained sand, up to 1/2 in. gravel Bottom 7 in.:SANDY SILT. (ML), medium gray with brown mottling and orange staining, moist, fine to medium grained sand		
-		5-6	1.3		CLAYEY SILT with SAND. (ML), olive with orange specks, moist, stiff, fine sand	-	
0.0 —	10.0				SANDY SILT with GRAVEL, (ML), medium brown with orange specks, moist to dry,	-	
_		S-7	1.4		firm, fine to medium grained sand, up to 1/2 in. gravel		
	11.5	<u> </u>			<u>SILT with SAND</u> (ML), medium brown with black and orange mottling, moist, stiff, fine		
-		S-8	1.5		grained sand		
-	13.0	-			Top 12 in.: <u>SILT with SAND.</u> (ML), similar to	1	
_		S-9	1.5		above Bottom 6 in.:SANDY SILT, (ML) medium brown, moist, stiff, fine grained sand		
•	14.5				<u>SANDY SILT</u> , (ML), similar to above		



BAE28830.P2.03

BORING NUMBER

PK-5

SHEET 1 **OF** 2

SOIL BORING LOG

PROJECT	Det	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 5.9 ft bgs 2/25/94

CTART 2/25/94 12:30 pm ETM

START 2/25/94 12:30 pm FINTSH 2/25/94 1:20 pm | GCCER Keith Gally

MAIEN	T	VELS 5.9 ft bgs 2/25/94			START 2/25/94 12:30 pm FINISH 2/25	94 1:20 pm LOGGER Keith Gally	
æF.		SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	COMMENTS	
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	TEST RESULTS 6' -6' -6' (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
-	1.0	S-1	0.0			2-inch rock stuck in shoe of sample	
-	2.5	S-2	1.0		<u>LEAN CLAY with SAND</u> , (CL), dark gray with a few orange and white specks, moist to dry, stiff, very fine sand		
5.0 —	4.0	S-3	1,3		LEAN CLAY with SAND, (CL), dark gray with light brown mottle, moist to dry, fine grained sand, occasional fine rounded gravel	- -	
-	5.5	S-4	1,4		Top 6 in:LEAN CLAY with SAND. (CL), similar to above, medium gray Bottom in:LEAN CLAY with SAND. (CL), gray with brown mottling throughout, moist, stiff, fine grained sand		
-	7.0 8.5	S-5	1.0		Top 6 in.:SANDY SILT, (ML), medium gray, moist, soft, medium grained sand Bottom 6 in.:GRAVELLY CLAY with SILT and SAND, (CL), medium brown with orange staining, dry, firm, up to 3/4 in. gravel		
,	10.0	S-6	1.2		SILTY CLAY with SAND and GRAVEL. (CL), olive brown with orange and black staining, fine grained sand, stiff, fine rounded gravel		
10.0	11.5	S-7	1.5		SANDY SILT with GRAVEL, (ML), olive brown with orange staining,	increased gravel content at 10.5 to 11.5 ft groundwater encountered at approx	
-	13.0	S-8	1.5		Top 6 in.:SANDY SILT with GRAVEL. (ML), similar to above. Bottom 12 in.:CLAYEY SILT with SAND, (ML), medium brown with gray mottling, black and orange specks, wet, firm, fine grained sand	11.5 ft	
-		S-9	1,5		CLAYEY SILT with SAND, (ML), similar to above		
	14.5				Top 6 in.: <u>CLAYEY SILT with SAND.</u> (ML), similar to above		



PROJECT NUMBER

BORING NUMBER

BAE28830.P2.03

SHEET 1 **OF** 2

SOIL BORING LOG

	Dal	Monto	Diant	# 2 E
DOM:ECT	ΠEI	Monte	riani	#30

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			BGS 2	/23/94	START 2/23/94 12:15 pm FINISH 2/23	3/94 1:30 pm LOGGER Keith Gally
≖₽		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS 6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	1.0					
-		S-1	1.3		<u>LEAN CLAY with SAND</u> , (CL), dark gray to brown, moist, firm, fine to medium sand, trace of fine gravel	
-						brick in bottom 6 inches of sampler
	2.5				LEAN CLAY with SAND, (CL), dark gray,	
-		S-2	1.3		moist, stiff, fine grained sand, trace of fine gravel	
	4.0					
					<u>LEAN CLAY with SAND</u> , (CL), similar to above	
		S-3	1.2			
5.0 —	1				•	- -
	5.5				LEAN CLAY with SAND, (CL), similar to	
_					above	4
		S-4	1.2			
_	7.0					
		S-5	1.5		LEAN CLAY with SAND and GRAVEL, (CL), medium gray with brown specks, stiff, fine grained sand, fine rounded gravel	
_	İ					tip of sampler showed white silty sand to
	8.5		· · · · · · · · · · · · · · · · · ·		SANDY SILT, (ML), white to light gray,	sandy silt
-					moist, firm, medium grained sand	increased sand layer at 9 to 9.5 ft
		S-6	1.5			(SM/ML)
49.0	10.0					
10.0					Top 3 in.: <u>SANDY SILT</u> (ML), white to gray, moist, stiff	
:		S-7	1.5		Bottom 9 in.: <u>SILTY LEAN CLAY with SAND,</u> (CL), light brown to gray with dark brown	
-	1				specks, stiff, trace of fine gravel	1
	11.5				SILTY LEAN CLAY with SAND. (CL), similar	
					to above	4
		S-8	1.5			
	13.0]
					SILTY LEAN CLAY with SAND. (CL), similar to above, light brown to gray with orange	
		S-9	1.5		staining towards bottom, moist, fine to medium sand, 2 inch piece of grave!	
-						increased orange mottling with depth
	14,5				SILTY LEAN CLAY with SAND, (CL), similar to above, dark brown with light mottling	



PROJECT NUMBER

BORING NUMBER

BAE28830.P2.03

B-2

SHEET 2 OF 2

SOIL BORING LOG

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

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

WAIEH	ATER LEVELS 8.8 ft BGS 2/23/94			723/94	START 2/23/94 12:15 pm FINISH 2/23.	/94 1:30 pm LOGGER Keith Gally
±		SAMPLE		STANDARD PENETRATION TEST	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	TEST RESULTS 6° -6° -6° (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	16.0	S-10	1.5		grading to medium brown with orange mottling toward bottom, moist to wet, fine rounded gravel present throughout	
		S-11	1.5		SILTY LEAN CLAY with SAND and GRAVEL. (CL), medium brown with gray mottling, wet, medium to coarse sand, fine rounded gravel present throughout	
	17.5				SANDY SILT with GRAVEL, (ML), medium brown with dark specks and orange	
-		S-12	1.5		mottling, wet to moist, fine to coarse grained sand, some fine rounded gravel	decreasing coarse material with depth
20.0 —	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	- -
_	20.5	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		<u>SANDY SILT</u> , (MH), light gray and brown, moist to wet, firm, fine grained sand	less dense than above and below
	23.5				SANDY SILT with CLAY. (ML), medium	7
_		S-16	1.5		brown and gray with increasing orange mottling with depth, moist, fine grained sand	-
25.0 —	25.0				Total Depth = 25.0 ft	-
						-
					·	
						-
-						-



PROJECT NUMBER

BORING NUMBER

BAE28830,P2.03

SHEET 1 OF 2

SOIL BORING LOG

PROJECT Del Monte Plant #3

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.

				at approx 13° b	gs START 2/23/94 2:00 pm FINISH 2/23	
∌ F		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
-	1.0				Top 12 in.: WELL GRADED SAND with SILT.	†
_		S-1	1.0		(SW), medium brown, trace of fine rounded gravel, pieces of brick Bottom 6 in: <u>LEAN CLAY</u> , (CL), dark brown, moist, intermixed with broken glass	
	2.5				LEAN CLAY with SILT and SANO (CL).	organic material (roots)
-					LEAN CLAY with SILT and SAND. (CL), dark brown, moist, firm, fine grained sand	
į		S-2	1.3			
	4.0					
-	4.0				SILTY LEAN CLAY, (CL), dark brown with	_
					orange staining, moist , stiff, fine grained sand and fine rounded gravel	increase in gravel with depth
5.0 -		S-3	1.4		<u>-</u>	
•••	5.5					
					<u>LEAN CLAY with SILT and SAND</u> . (CL), medium dark gray, moist, very stiff, very	
-		S-4	1.4		fine grained sand	1
]]-4	1			tight formation
	7.0				ON TV LEAN CLAV	
					<u>SILTY LEAN CLAY with SAND</u> , (CL), medium dark gray, moist, very stiff, very fine	
		S-5	1.4		grained sand	
4						tip of sampler showed white sandy silt, with coarse sand
	8.5				Top 6 in.: <u>SANDY SILT</u> . (ML), white to light	with coalse sand
4					gray, moist, firm, coarse grained sand Bottom 12 in.: <u>SILTY SAND</u> , (SM), white to	varying interbedded zones of sand and
		S-6	1.3		light gray, moist, medium dense, well graded sand	silt
	10.0				g. 0 33	
10.0	,0.0				Top 6 in.: <u>SILT with SAND and CLAY</u> , (ML), medium gray, moist, stiff, fine sand	
		S-7	1.4		Bottom 12 in.: <u>GRAVELLY SIT with SAND,</u> (ML), medium gray to brown, moist, stiff,	
4		5-/	1,4		fine to coarse sand, fine rounded gravel	4
	11.5				CHITY LEAD OLAY WAS CAND JOB SOFT	·
					SILTY LEAN CLAY with SAND, (CL), medium gray to brown with increasing orange	
1		S-8	1,5		štaining with depth, moist, stiff, fine grained sand	7
4	13.0				Top 6 in.: <u>GRAVELLY CLAY with SAND</u> , (CL),	4
					brown, wet, medium dense, fine to medium grained sand, fine rounded gravel	
		S-9	1.3		Bottom 12 in.:SILTY LEAN CLAY, (CL), medium brown and gray with orange	
1	14 E				mottling, wet to moist, stiff	7
	14.5				SILTY LEAN CLAY, (CL), similar to above	1



PROJECT NUMBER	BORING NUMBER

BAE28830.P2.03

SHEET 2 OF 2

SOIL BORING LOG

PROJECT Dei 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.

≖F Ì		SAMPLE		STANDARD	SOIL DESCRIPTION	COMMENTS
DEPTH BELON SURFACE (FT)	:VAL	FR	VERY	STANDARD PENETRATION TEST RESULTS	I MUISTURE CONTENT, RELATIVE DENSITY	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS
SURF.	INTERVAL	NUMBER AND TYPE	RECOVERY	6" -6" -6" (N)	OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	TESTS AND INSTRUMENTATION
		S-10	1.3			
	16.0					
1	17.5	S-11	1.5		Top 12 in.: <u>STLT with GRAVEL</u> (ML), medium brown with orange staining, moist, medium stiff, fine grained sand, fine gravel Bottom 6 in.: <u>SANDY STLT</u> (ML), medium brown with orange and dark mottling, moist, soft to medium stiff, fine grained sand	- -
	. 17.3				<u>SANDY SILT</u> , (ML), similar to above	
_		S-12	1.4			-
_	19.0				SILTY SAND and GRAVEL. (SM-GM),	4
		S-13	1,3		medium brown with orange mottling, wet, loose, fine grained sand, fine gravel	
90.0 —					-	_
	20.5				<u>SANDY SILT</u> , (MH), medium brown with orange mottling, wet, soft, fine grained	
-		S-14	1.3		sand	1
	22.0	l			67.7 W 6.05 Aug 7	
		S-15	1.5		SILT with SAND, (MH), medium brown with orange and white deposits, stiff, fine grained sand	
-						1
	23.5				<u>SILT with SAND</u> , (MH), similar to above	
-		S-16	1.5			-
			1,3			
35.0 —	25.0				Total Depth = 25.0	-
_						4
_						_
_						
-	1					1

Appendix C Well Completion Log



PROJECT NUMBER	BORING NUMBER					·
BAE28830.P2.03	MW-12	SHEET	1	OF	1	

WELL COMPLETION LOG

PROJECT Del Monte Plant #35		LOCATION Emeryville,	CA	
ELEVATION	DRILLING CONTRACTO	Gregg Drilling, Pacheco, C	Α	
DRILLING METHOD AND EQUIPMENT	Simco 2400, Hollow Stem Auger, 5-1/4	inch O.D.	<u> </u>	
WATER LEVELS 6.3 ft BGS 3/2/94	START 2/28/94	FINISH 2/28/94	LOSSER Keith Gally	
0 - GROUND SURFACE 10 - GROUND SURFACE 10 - GROUND SURFACE 20 - GROUND SURFACE	START 2/28/94 Concrete Surface Seal Bentonite Seal Bentonite Seal	FINISH 2/28/94	LOGGER Keith Gally	
-			See Boring Lo	9
25]			For Drilling Del	ails

Appendix D Analytical Laboratory Reports

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 2, 1994

ChromaLab File #: 9402315

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 February 24, 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	<u> Matrix</u>	Date collected	<u>Lab sample #</u>
DM35GWHD1	WATER	February 24, 1994	44625
DM35GWHD2	WATER	February 24, 1994	44626
DM35GWHD3	WATER	February 24, 1994	44627
DM35GWHD4	WATER	February 24, 1994	44628
TRIP BLANK	WATER	February 24, 1994	44629

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1994

ChromaLab File#: 9402315

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 24, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD1 Matrix: WATER

Lab #: 44625-2332 Sampled: February 24, 1994 Analyzed: February 24, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
<u>ANALYTE</u>	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
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.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	110
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.	94
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	2.9	0.5	N.D.	99
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	Ŋ.D.	0.5	N.D.	107
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

February 25, 1994

ChromaLab File#: 9402315

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 24, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD2 Matrix: WATER

Lab #: 44626-2332 Sampled: February 24, 1994 Analyzed: February 24, 1994

Method: EPA 601

ANALYTE	RESULT	REPORTING LIMIT (uq/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	Ñ.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	10	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	110
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	42	0.5	N.D.	94
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	9.2	0.5	N.D.	99
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.	107
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	Ŋ.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

and -

Eric Tam Laboratory Director Environmental Laboratory (1094)

February 25, 1994

ChromaLab File#: 9402315

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 24, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD3

Matrix: WATER

Lab #: 44627-2332 Sampled: February 24, 1994 Analyzed: February 24, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	7.9	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	1.0	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	2.4	0.5	N.D.	
IS-1,2-DICHLOROETHENE	47	0.5	N.D.	,
`,1-DICHLOROETHANE	N.D.	0.5	N.D.	110
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	0.80	0.5	N.D.	
TRICHLOROETHENE	190	0.5	N.D.	94
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	Ŋ.D.	
CIS-1,3-DICHLOROPROPENE	Ŋ.D.	0.5	Ŋ.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	
TETRACHLOROETHENE	20	0.5	Ŋ.D.	99
DIBROMOCHLOROMETHANE	N.D.	0.5	Ŋ.D.	
CHLOROBENZENE	N.D.	0.5	Ŋ.D.	
BROMOFORM	N.D.	0.5	N.D.	107
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	107
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	- -
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1994

ChromaLab File#: 9402315

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 24, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD4

Matrix: WATER

Lab #: 44628-2332 Sampled: February 24, 1994 Analyzed: February 24, 1994

Method: EPA 601

		RESULT	REPORTING LIMIT	Blank Result	BLANK SPIKE RESULT
	ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
	CHLOROMETHANE	N.D.	0.5	N.D.	1.0/
	VINYL CHLORIDE	13	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.	
7	TRANS-1,2-DICHLOROETHENE	4.0	0.5	N.D.	
i	IS-1,2-DICHLOROETHENE	55	0.5	N.D.	
	1,1-DICHLOROETHANE	N.D.	0.5	N.D.	110
	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	48	0.5	N.D.	94
	1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
	BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
	2-CHLOROETHYLVINYL ETHER		0.5	N.D.	
	TRANS-1,3-DICHLOROPROPENE		0.5	N.D.	
	CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
	1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	
	TETRACHLOROETHENE	37_	0.5	N.D.	99
	DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
	CHLOROBENZENE BROMOFORM	N.D.	0.5	N.D.	
		N.D.	0.5	N.D.	
	1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	107
	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
	1 2-DICHLODODENZENE	N.D.	0.5	N.D.	
	1,2-DICHLOROBENZENE FREON 113	N.D.	0.5	Ŋ.D.	
	LEGON TTO	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 25, 1994

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 24, 1994 Project#: BAE28830.P2.03

ChromaLab File#: 9402315

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK

Matrix: WATER

Lab #: 44629-2332 Sampled: February 24, 1994 Analyzed: February 24, 1994

Method: EPA 601

			REPORTING	BLANK	BLANK SPIKE
		RESULT	LIMIT	RESULT	RESULT
	ANALYTE	(ug/L)	(uq/L)	(ug/L)	(%)
	CHLOROMETHANE	N.D.	0.5	N.D.	
	VINYL CHLORIDE	N.D.	0.5	N.D.	
	BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
	CHLOROETHANE	N.D.	0.5	N.D.	
	TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
	1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
	METHYLENE CHLORIDE	N.D.	0.5 5 0.5	N.D.	
í	"RANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
ſ	IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	- -
	1,1-DICHLOROETHANE	N.D.	0.5	N.D.	110
	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.	94
	1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
	BROMODICHLOROMETHANE	N.D.	0.5	N.D.	- -
	2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
	TRANS-1,3-DICHLOROPROPENE		0.5	N.D.	
	CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	
	TETRACHLOROETHENE	N.D. N.D.	0.5	N.D.	
	DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	99
	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.	107
	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.	
		N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintérgrass

Chemist

Eric Tam

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: March 21, 1994

File number: 9402315

Client: CH2M HILL OAKLAND

Method: Halogenated Volatiles

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

Date Analyzed: Feb. 24, 1994

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

Date: March 21, 1994

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35

Date Analyzed: February 24, 1994

File number: 9402315

Method: Halogenated Volatiles

Method number: EPA 601

Matrix: Water

MS/MSD

Sample Spiked:

BLANK

	·			-Fried.						
PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD	RPD LIMIT
1,1 Dichloroethene	μg/L	N.D.	20	22.4	112	21.0	105	56/118	6.4	20
Trichloroethene	μg/L	N.D.	20	19.6	98	18.0	90	60/129	8.5	20
Tetrachloroethene	μg/L	N.D.	20	18.8	94	17.8	89	60/127	5.5	20
1,1,2,2 Tetrachloroethane	μg/L	N.D.	20	22.6	113	21.0	105	60/136	7.3	20

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

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 3

Date: March 21, 1994

Client: CH2M HILL OAKLAND

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

Date Analyzed: Feb. 24, 1994

File number: 9402315

Method: Halogenated Volatiles

Matrix: Water

SURROGATE RECOVERIES

Sample	1,4-Dichlorobutane Recovery (%)				
Blank Blank Spike	92 111				
Blank Spike Duplicate	104				
D12	83				
D22	93				
D32	89				
D42	77				
TRIP BLANK	91				

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES 4/6/29 QUALITY ANALYTICAL LABORATORIES CH2M HILL Project # Purchase Order # LAB TEST CODES BAEZ 223: CZ 23 SUBM #: 9402315 CLIENT: CH2 Project Name Del Monte Plant 35 DUE: 02/25/94 **REF: 15318** 0 ANALYSES REQUESTED Project Manager & Phone # Report Copy to: Project # Mr. 17 Bern Ms. [] Baumgartner Madeline Will Page **Requested Completion Date:** No. of Samples οſ Sampling Requirements Sample Disposal: 24 HR Dispose -- Heturn SDWA NPDES RCRA OTHER TURNAROUND **COC Rev** Login LIMS Ver Ack Gen Matrix Type Ε W S O I L R R 00**2**0 G R A B Sampling CLIENT SAMPLE ID (9 CHARACTERS) LAB 1 LAB 2 Time REMARKS Hold for Possible Analysis
Hold for Possible Analysis
What for Possible Analysis
Whold for Possible Analysis Sampled By & Title Relinquished i Date/Time /655 HAZWRAP/NESSA: 1600 3/24/21 Received. Date/Time Relinguished By Date/Time QC Level: 1 2 3 Other: 2.24.94 /50 **COC Rec** ICE Received By Date/Time Relinquished By temen total bas able Date/Time TEMP Ana Req **Cust Seal** Ρh Received By (Please sign and print name) Date/Time Shipped Via Shipping # UPS BUS Fed-Ex Hand Other_ Work Authorized By (Please sign and print name) Remarks Instructions Agreement Provisions on Reverse Side

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 3, 1994

ChromaLab File #: 9402339

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 February 25, 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	<u> Matrix</u>	Date collected	Lab sample #
DM35GWHD5	WATER	February 25, 1994	44752
DM35GWHDD	WATER	February 25, 1994	44753
EB1	WATER	February 25, 1994	44754
DM35GWHD6	WATER	February 25, 1994	44755
DM35GWPK5	WATER	February 25, 1994	44756
DM35GWPK3	WATER	February 25, 1994	44757
TRIP BLANK	WATER	February 25, 1994	44758

วีไป๊ Thomas

Quality Assurance Manager

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 28, 1994

ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 25, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD5 Matrix: WATER

Lab #: 44752-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

MCCMCC. Elli OOL				
		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(uq/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	12	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	5.0	0.5	N.D.	
IS-1,2-DICHLOROETHENE	78	0.5	N.D.	 ,
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
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	39	0.5	N.D.	106
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	
TETRACHLOROETHENE	51	0.5	N.D.	92
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.	100
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

Cris Jam 1997

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 28, 1994

ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: BAE28830.P2.03

Submitted: February 25, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHDD

Matrix: WATER

Lab #: 44753-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	Ñ.D.	0.5	N.D.	
VINYL CHLORIDE	16	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5 5 0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
"RANS-1,2-DICHLOROETHENE	6.0	0.5	N.D.	
IS-1,2-DICHLOROETHENE	72	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
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	40_	0.5	N.D.	106
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	Ŋ.D.	
TRANS-1,3-DICHLOROPROPENE CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
CIS-1,3-DICHLOROPROPENE		0.5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	
TETRACHLOROETHENE	49 N. D.	0.5	N.D.	92
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROBENZENE BROMOFORM	N.D.	0.5	N.D.	
	N.D.	0.5 0.5	N.D.	100
1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE	N.D.	0.5	N.D. N.D.	100
1,4-DICHLOROBENZENE	N.D. N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE 1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	
LVROM TTO	N.D.	0.5	14 . 17 .	

ChromaLab, Inc

David Wintergrass

Chemist

Oris Jam 1997

Environmental Laboratory (1094)

February 28, 1994

28, 1994 ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 25, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: EB1 Matrix: WATER

Lab #: 44754-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L_)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5 5 _	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	
CARBON TETRACHLORIDE	N.D.	0.5 0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROETHENE	N.D.	0.5	N.D.	106
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.	92
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.	100
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 28, 1994

ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 25, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWHD6 Matrix: WATER

Lab #: 44755-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

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	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ANALYTE	(ug/L)	(uq/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	3.8	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.	0.5 5 0.5	N.D.	- -
"RANS-1,2-DICHLOROETHENE	2.9	0.5	N.D.	+ -
IS-1,2-DICHLOROETHENE	51	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
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	22	0.5	N.D.	106
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 CIS-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	24	0.5	N.D.	92
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.	100
1,3-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	
1,4-DICHLOROBENZENE	Ŋ.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

Die Jam 19D

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 28, 1994

ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 25, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK5 Matrix: WATER

Lab #: 44756-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

•	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	1.07
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
IS-1,2-DICHLOROETHENE	2.4	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
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	1.9	0.5	N.D.	106
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	2.0	0.5	N.D.	92
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.	100
1,3-DICHLOROBENZENE	Ŋ.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE FREON 113	N.D.	0.5	N.D.	
TARON ITS	N.D.	0.5	N.D.	

ChromaLab, Inc.,

David Wintergrass

Chemist

Cric Jam/291

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

ChromaLab File#: 9402339

February 28, 1994

CH2M HILL OAKLAND

Atten: Madeline Wall

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

Submitted: February 25, 1994

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK3 Matrix: WATER

Lab #: 44757-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
<u>ANALYTE</u>	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
IS-1,2-DICHLOROETHENE	1.7	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	99
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D. N.D.	0.5	N.D.	
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROETHENE	1.1	0.5	N.D.	106
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER		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.	92
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.	100
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 28, 1994

ChromaLab File#: 9402339

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: February 25, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK Matrix: WATER

Lab #: 44758-2352 Sampled: February 25, 1994 Analyzed: February 25, 1994

Method: EPA 601

RESULT LIMIT RESULT RE	SULT
ANALYTE (ug/L) (ug/L) (ug/L)	(%)
CHLOROMETHANE N.D. 0.5 N.D.	
VINYL CHLORIDE N.D. 0.5 N.D.	
BROMOCHLOROMETHANE N.D. 0.5 N.D.	
CHLOROETHANE N.D. 0.5 N.D.	
TRICHLOROFLUOROMETHANE N.D. 0.5 N.D.	
1,1-DICHLOROETHENE N.D. 0.5 N.D.	
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.	
1,1-DICHLOROETHANE N.D. 0.5 N.D.	99
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.	106
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.	
	92
	100
1,1,2,2-TETRACHLOROETHANE N.D. 0.5 N.D. 1,3-DICHLOROBENZENE N.D. 0.5 N.D.	100
1,3-DICHLOROBENZENE N.D. 0.5 N.D. 1,4-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

Cricam/9/2

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: March 7, 1994

File number: 9402339

Client: CH2M HILL OAKLAND

Method: Halogenated Volatiles

Project Name: DEL MONTE PLANT 35

Method number: EPA 601

Date Analyzed: February 25, 1994

Matrix: Water

METHOD BLANK

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

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 2

Date: March 7, 1994

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35

Date Analyzed: February 25, 1994

File number: 9402339

Method: Halogenated Volatiles

Method number: EPA 601

Matrix: Water

MS/MSD

Sample Spiked:

BLANK

							3237417			
PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD	RPD LIMIT
1,1 Dichloroethane	μg/L	N.D.	20	19.8	99	17.6	88	56/118	12	20
1,1,1-Trichloro- ethane	μg/L	N.D.	20	19.8	99	18.2	91	60/129	8.4	20
Chlorobenzene	μg/L	N.D.	20	18.8	94	20.0	100	60/127	6.2	20
1,1,2,2 Tetrachloroethane	μg/L	N.D.	20	20.0	100	26.2	131	60/136	27*	20

BLANK SPIKE

PARAMETER	UNITS	BLANK RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC
1,1 Dichloroethane	μg/L	N.D.	20	16.4	82
1,1,1-Trichloroethane	μg/L	N.D.	20	17.8	89
Chlorobenzene	μg/L	N.D.	20	15.4	77
1,1,2,2 Tetrachloroethane	μg/L	N.D.	20	16.4	82

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

^{*}All other QC was within limits, surrogates, the LCS, and spikes. Therefore, the run was under control.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 3

Date: March 7, 1994

Client: CH2M HILL OAKLAND

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

Date Analyzed: February 25, 1994

File number: 9402339

Method: Halogenated Volatiles

Matrix: Water

SURROGATE RECOVERIES

Blank Spike 95 Blank Spike Duplicate 111 DM35GWHD5 82 DM35GWDD 93 EB1 96 DM35GWPK5 96 DM35GWPK5 95 DM35GWPK3 84 TRIP BLANK 93	Sample	1,4-Dichlorobutane Recovery (%)	
Blank Spike 95 Blank Spike Duplicate 111 DM35GWHD5 82 DM35GWDD 93 EB1 96 DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84			
Blank Spike Duplicate 111 DM35GWHD5 82 DM35GWDD 93 EB1 96 DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84		85	
DM35GWHD5 82 DM35GWDD 93 EB1 96 DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84		95	
DM35GWDD 93 EB1 96 DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84	Blank Spike Duplicate	111	
EB1 96 DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84	DM35GWHD5	82	
DM35GWD6 86 DM35GWPK5 95 DM35GWPK3 84	DM35GWDD	93	
DM35GWPK5 95 DM35GWPK3 84	EB1	96	
DM35GWPK3 84	DM35GWD6	86	
WD TD	DM35GWPK5	95	
TRIP BLANK 93	DM35GWPK3	84	
	TRIP BLANK	93	

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 30, 1994

ChromaLab File #: 9403080

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

Madeline Wall Attn:

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

REPORTING INFORMATION

Samples were received cold and in good condition on February 24, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all analysis reported.

WATER

No discrepancies were observed or difficulties encountered with the analysis.

SAMPLES TESTED IN THIS REPORT

Sample ID DM35GWHD3

Date collected <u>Matrix</u> February 24, 1994 Lab sample #

45474

Jill Thomas

Quality Assurance Manager

Eric Tam

Environmental Laboratory (1094)

March 7, 1994

CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35 Date Sampled: February 24, 1994
Date Submitted: February 24, 1994
Date of Analysis: March 7, 1994
Sample I.D.: DM35GWHD3

Dilution Factor: None

ChromaLab File # 9403080

Attn: Madeline Wall

Project No: BAE28830.P2.03 Method of Analysis: EPA 624

Matrix: Water

Reporting Limit: 2.0 μ g/L

COMPOUND NAME	μq/L	Spike Recovery
CHLOROMETHANE	N.D.	
VINYL CHLORIDE	N.D.	
BROMOMETHANE	N.D.	
CHLOROETHANE	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	
1,1-DICHLOROETHENE	N.D.	·
METHVIENE CHIODIDE	N D	
1,2-DICHLOROETHENE (TRANS)	2.5	
1,2-DICHLOROETHENE (CIS)	45	
1,1-DICHLOROETHANE	N.D.	98%
CHLOROFORM	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	
CARBON TETRACHLORIDE	N.D.	· ••• •••
BENZENE	N.D.	
1,2-DICHLOROETHANE	N.D.	
TRICHLOROETHENE	160	91%
1,2-DICHLOROPROPANE	N.D.	
BROMODICHLOROMETHANE	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	
TOLUENE	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	
TETRACHLOROETHENE	18	102%
DIBROMOCHLOROMETHANE	N.D.	
CHLOROBENZENE	N.D.	
ETHYL BENZENE	N.D.	
BROMOFORM	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	115%
1,3-DICHLOROBENZENE	N.D.	
1,4-DICHLOROBENZENE	N.D.	
1,2-DICHLOROBENZENE	N.D.	
TOTAL XYLENES	N.D.	
ACETONE	N.D.	
METHYL ETHYL KETONE	N.D.	
METHYL ISOBUTYL KETONE	N.D.	

ChromaLab, Inc.

David Wintergrass Analytical Chemist Eric Tam

Environmental Services (SDB)

VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date: March 30, 1994

Client: CH2M HILL OAKLAND

Project Name: DEL MONTE PLANT 35

Date Analyzed: March 7, 1994

File No: 9403080

Method: Volatile Organics

Method No: EPA 624 Matrix: Water

BLANK RESULT

Compound Name	Result ug/L	Reporting Limits
CHLOROMETHANE VINYL CHLORIDE BROMOMETHANE CHLOROETHANE TRICHLOROFLUOROMETHANE 1,1-DICHLOROETHENE METHYLENE CHLORIDE 1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROETHENE (CIS) 1,1-DICHLOROETHANE CHLOROFORM 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BENZENE 1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROETHANE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE 2-CHLOROETHYLVINYLETHER TRANS-1,3-DICHLOROPROPENE TOLUENE CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE TETRACHLOROETHENE DIBROMOCHLOROMETHANE CHLOROBENZENE ETHYL BENZENE BROMOFORM 1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE TOTAL XYLENES ACETONE METHYL ETHYL KETONE METHYL ISOBUTYL KETONE	<u> </u>	uq/ <u>b</u>
CHLOROMETHANE	N.D.	2.0
VINYL CHLORIDE	N.D.	2.0
BROMOMETHANE	N.D.	2.0
CHLOROETHANE	N.D.	2.0
TRICHLOROFLUOROMETHANE	N.D.	2.0
1,1-DICHLOROETHENE	N.D.	2.0
METHYLENE CHLORIDE	N.D.	5.0
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0
1,2-DICHLOROETHENE (CIS)	N.D.	2.0
1,1-DICHLOROETHANE	N.D.	2.0
CHLOROFORM	N.D.	2.0
1,1,1-TRICHLOROETHANE	N.D.	2.0
CARBON TETRACHLORIDE	N.D.	2.0
BENZENE	N.D.	2.0
1,2-DICHLOROETHANE	N.D.	2.0
TRICHLOROETHENE	N.D.	2.0
1,2-DICHLOROPROPANE	N.D.	2.0
BROMODICHLOROMETHANE	N.D.	2.0
2-CHLOROETHYLVINYLETHER	N.D.	2.0
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0
TOLUENE	N.D.	2.0
CIS-1,3-DICHLOROPROPENE	N.D.	2.0
1,1,2-TRICHLOROETHANE	N.D.	2.0
TETRACHLOROETHENE	N.D.	2.0
DIBROMOCHLOROMETHANE	N.D.	2.0
CHLOROBENZENE	N.D.	2.0
ETHYL BENZENE	N.D.	2.0
BROMOFORM	N.D.	2.0
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0
1,3-DICHLOROBENZENE	N.D.	2.0
1,4-DICHLOROBENZENE	N.D.	2.0
1,2-DICHLOROBENZENE	N.D.	2.0
TOTAL XYLENES	N.D.	2.0
ACETONE	N.D.	5.0
METHYL ETHYL KETONE	N.D.	2.0
METHYL ISOBUTYL KETONE	N.D.	2.0
		2.0

Environmental Services (SDB)

VOLATILE ORGANICS REPORT-QUALITY CONTROL

page 3

Date: March 30, 1994 Client: CH2M HILL OAKLAND Project Name: DEL MONTE PLANT 35

Date Analyzed: March 7, 1994

File number: 9403080

Method: Volatile Organics Method number: EPA 624

Matrix: Water

SURROGATE RECOVERIES

SAMPLE	D4-1,2	Dichloroethane	D8-Toluene	Bromofluorobenzene
Blank Blank Spike Blank Spike	Dup	88 96 96	98 103 102	99 103 101
DM356WAD3		89	98	92

Environmental Laboratory (1094)

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK4

Matrix: WATER

Lab #: 45060-2366

Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
<u>ANALYTE</u>	(ug/L)	(uq/L)	_(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	 .
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5 0.5 5 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	Ŋ.D.	0.5	N.D.	
CHLOROBENZENE BROMOFORM	N.D.	0.5	N.D.	78
	N.D.	0.5	Ŋ.D.	
1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE	N.D.	0.5	Ŋ.D.	79
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.	- -
TUDON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Cur Jam / 9 J J Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWPK2

Matrix: WATER

Lab #: 45061-2366

Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	Ñ.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
MÉTHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	5 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 CIS-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.	
DIBROMOCHLOROMETHANE CHLOROBENZENE BROMOFORM	N.D.	0.5	N.D.	78
DICOMOT CIAN	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	Ŋ.D.	0.5	Ŋ.D.	79
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	Ŋ.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Laboratory Director

Federal ID #68-0140157

LIM

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH1

Matrix: WATER

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

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(uq/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	Ň.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 0.5 5 0.5	N.D. N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5	N.D.	
TRANS-1,2-DICHLOROETHENE IS-1,2-DICHLOROETHENE	2.5	0.5	N.D.	
IS-1,2-DICHLOROETHENE	42	0.5 0.5 0.5	N.D.	90
I, I-DICHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	и.р.	0.5	Ŋ.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	Ŋ.D.	76
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER TRANS-1,3-DICHLOROPROPENE	N.D.	0.5 0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE	Ŋ.D.	0.5	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D. N.D. N.D. N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	й.Б.	
TETRACHLOROETHENE	59_	0.5	N.D.	
DIBROMOCHLOROMETHANE	N.D.	0.5	Ŋ.D.	
CHLOROBENZENE	N.D.	0.5	Ŋ.D.	78
BROMOFORM	Ŋ.D.	0.5	N.D.	 79
1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE	Ŋ.D.	0.5	Ŋ.D.	
1,3-DICHLOROBENZENE	Ŋ.D.	0.5 0.5	Ŋ.D.	
T,4-DICHPOKOBENZENE	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

Cric Tam / 120

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH2

Matrix: WATER

Lab #: 45063-2366

Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5 5 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

Enw Jam 1997

Eric Tam
Laboratory Director

Environmental Laboratory (1094)

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

One sample for Volatile Halogenated Compounds analysis.

Sample: DM35GWWH3

Matrix: WATER

Lab #: 45064-2366

Sampled: March 1, 1994

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	Ñ.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE METHYLENE CHLORIDE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5 0.5	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	Ŋ.D.	0.5	N.D.	
CHLOROFORM	2.6	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	
CARBON TETRACHLORIDE	Ŋ.D.	0.5	Ŋ.D.	
1,2-DICHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROETHENE	20_	0.5	N.D.	76
1,2-DICHLOROPROPANE	N.D.	0.5	Ŋ.D.	
BROMODICHLOROMETHANE	N.D.	0.5	Ŋ.D.	
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
CIS-I, 3-DICHLOROPROPENE	N.D.	0.5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	0.5	Ŋ.D.	
TETRACHLOROETHENE	17	0.5	Ŋ.D.	
DIBROMOCHLOROMETHANE CHLOROBENZENE	N.D.	0.5	N.D.	70
BROMOFORM	N.D.	0.5	N.D.	78
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5 0.5	N.D.	 79
1,1,2,2-1ETRACHLOROETHANE 1,3-DICHLOROBENZENE	N.D.	0.5	N.D. N.D.	19
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	N.D. N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	
LIMBOIA TITO	и.р.	0.5	14 · D ·	= -

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Project#: 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

BAE28830.P2.03

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	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 0.5	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	Ŋ.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	Ŋ.D.	0.5	N.D.	70
CHLOROBENZENE	N.D.	0.5	N.D.	78
BROMOFORM	N.D.	0.5	N.D.	70
1,1,2,2-TETRACHLOROETHANE	Ŋ.D.	0.5	N.D.	79
1,3-DICHLOROBENZENE	Ņ.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE FREON 113	N.D.	0.5 0.5	N.D. N.D.	
FREON 113	N.D.	0.5	M.D.	- -

ChromaLab, Inc.

David Wintergrass

Chemist

Jam/997 Eric Tam

Environmental Laboratory (1094)

March 2, 1994

ChromaLab File#: 9403025

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 1, 1994

Project#: BAE28830.P2.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK

Matrix: WATER

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

Analyzed: March 1, 1994

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
ANALYTE	RESULT	LIMIT	RESULT	RESULT
CHLOROMETHANE	(ug/L)	<u>(ug/L)</u>	(ug/L)	(%)
VINYL CHLORIDE	N.D.	0.5	N.D.	
BROMOCHLOROMETHANE	Ŋ.D.	0.5	Ŋ.D.	
CHLOROETHANE	N.D.	0.5	N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	Ŋ.D.	
METHYLENE CHLORIDE	N.D.	0.5	Ŋ.D.	
TRANS-1,2-DICHLOROETHENE	N.D.	5	N.D.	
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	90
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	
CARBON TETRACHLORIDE	N.D. N.D.	0.5	Ŋ.D.	
1,2-DICHLOROETHANE	й.р.	0.5	N.D.	
TRICHLOROETHENE	Ŋ.D.	0.5	N.D.	==
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	76
PPOMODICILI ODOMERIJAME	N.D.	0.5	N.D.	
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	
2-CHLOROETHYLVINYL ETHER	Ŋ.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.	

David Wintergrass

Chemist

Eric Tam Laboratory Director

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

Date: April 4, 1994

File number: 9403025

Client: CH2M HILL OAKLAND

Method: Halogenated Volatiles

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

Date Analyzed: March 1, 1994

Matrix: Water

METHOD BLANK

Compound Name	Result ug/L	Reporting Limits
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

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

			<u> </u>	opinca.		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

Environmental Services (SDB)

HALOGENATED VOLATILES REPORT-QUALITY CONTROL

page 3

Date: April 4, 1994

Client: CH2M HILL OAKLAND

Date Analyzed: March 1, 1994

File number: 9403025

Method: Halogenated Volatiles

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

Matrix: Water

SURROGATE RECOVERIES

Sample	1,4-Dichlorobutane Recovery (%)	_
Blank	101	
Blank Spike	118	
Blank Spike Duplicate	121	
DW2 E CUDY A		
DM35GWPK4	125	
DM35GWPK2	101	
DM35GWWH1	115	
DM35GWWH2	103	
DM35GWWH3	100	
DM35GWWHD	97	
TRIP BLANK	119	

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QUALITY ANALYTICAL LABORATORIE CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES CH2M HILL Project # Purchase Order # LAB TEST CODES SHADED AREA -- FOR LAB USE ONLY BAE 28836. PL. 03 Lab 1 # Lab 2 # Project Name De Monte Ping 35 Quote # Kit Request # Company Name/CH2M HILL Office 0 CHIM HILL/SFO Project Manager & Phone # **ANALYSES REQUESTED** Report Copy to: Project # Mr. IT BERZY MADEZIME BAUMGARTANOR WALL 0 **Requested Completion Date:** Sampling Requirements Sample Disposal: No. of Samples Page of Dispose Return SDWA NPDES RCRA OTHER Ν LIMS Ver | Ack Gen Type Matrix **COC Rev** Login ERS C G W S O I E L Sampling CLIENT SAMPLE ID (9 CHARACTERS) Date Time LAB 1 LAB 2 R REMARKS ID 8 Sampled By & Date/Time Relinquished By Date/Time /740 1645 Keith Gall. HAZWRAP/NESSA: 3/1/94 3/1/94 Received By Date/Time Relinquished By Daté/Time QC Level: 1 2 3 Other: COC Rec ICE Received By (Please sign and print name) Date/Time Relinquished By (Please sign and print name) Date/Time Ana Req TEMP **Cust Seal** Ph Received By (Please sign and print name) Date/Time Shipped Via Shipping # UPS BUS Fed-Ex Hand Other... Work Authorized By (Please sign and print name) Remarks Instructions : Agreement Provisions on Reverse Side

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

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

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	6.8	0.5	N.D.	
BROMOMETHANE	N.D.	0.5	N.D.	
CHLOROETHANE	N.D.	0.5	N.D. N.D.	
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	
METHYLENE CHLORIDE	N.D.	5 0.5	N.D.	
RANS-1,2-DICHLOROETHENE IS-1,2-DICHLOROETHENE	2.3	0.5	N.D.	
IS-1,2-DICHLOROETHENE	33	0.5	N.D.	
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE	N.D.	0.5	N.D.	101
CARBON TETRACHLORIDE	N.D.	0.5	N.D. 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 CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	
C1S-1,3-DICHLOROPROPENE	Ŋ.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	Ŋ.D.	
DIBROMOCHLOROMETHANE CHLOROBENZENE RROMOFORM	N.D.	0.5	Ŋ.D.	
DICOROT OIGH	N.D.	0.5	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	Ŋ.D.	
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,4-DICHLOROBENZENE	Ŋ.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	Ŋ.D.	0.5	N.D.	- -
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc

David Wintergrass

Chemist

Eric Tam

Environmental Laboratory (1094)

5 DAYS TURNAROUND

March 3, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

Submitted: March 2, 1994

Project#: BAE28830.PZ.03

re: One sample for Volatile Halogenated Compounds analysis.

Sample: TRIP BLANK Matrix: WATER

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

Method: EPA 601

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)
CHLOROMETHANE	N.D.	0.5	N.D.	
VINYL CHLORIDE	N.D.	0.5	N.D.	
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 5 0.5	N.D.	
METHYLENE CHLORIDE	Ŋ.D.	5_	N.D.	
RANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	- -
IS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	81
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	
CHLOROFORM	N.D.	0.5	N.D.	
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	101
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	
1,2-DICHLOROETHANE	Ŋ.D.	0.5	Ŋ.D.	
TRICHLOROETHENE	N.D.	0.5	Ŋ.D.	
1,2-DICHLOROPROPANE BROMODICHLOROMETHANE	N.D.	0.5	N.D.	110
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	Ŋ.D.	110
TDANG_1 2 DICUI ODODDODEND	N.D.	0.5	N.D.	
TRANS-1,3-DICHLOROPROPENE CIS-1,3-DICHLOROPROPENE	N.D. N.D.	0.5 0.5	N.D.	118
1,1,2-TRICHLOROETHANE	N.D. N.D.	0.5	N.D. N.D.	110
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.	ŏ.5	N.D.	
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	
FREON 113	N.D.	0.5	N.D.	

ChromaLab, Inc.

David Wintergrass

Chemist

Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

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

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-1

Matrix: SOIL

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

Analyzed: March 8, 1994

Method: EPA 8240

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	
BENZENE	N.D.	5	N.D.	
BROMODICHLOROMETHANE	N.D.	5	N.D.	
BROMOFORM	N.D.	5	N.D.	
BROMOMETHANE	N.D.	5	N.D.	
2-BUTANONE	N.D.	5	N.D.	
CARBON TETRACHLORIDE	N.D.	5	N.D.	
CHLOROBENZENE	N.D.	5	N.D.	
CHLOROETHANE	N.D.	5	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	N.D.	5	N.D.	
JIBROMOCHLOROMETHANE	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.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	

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Pavid Wintergrass

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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

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

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-2 Matrix: SOIL

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

Method: EPA 8240

Method: EPA 8240				
	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ANALYTE	(uq/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	Ň.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
TÉTRACHLOROETHENE	N.D.	Š	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.	Š	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.	ស សភាភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

Project: DEL MONTE PLANT 35

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

Project#: BAE28830.PZ.03

Method: EPA 8240

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

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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

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

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-4 Matrix: SOIL

Lab #: 45221-2448 Sampled: March 2, 1994 Analyzed: March 8, 1994

Method: EPA 8240

		REPORTING	BLANK	
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	Ň.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. N.D.	
_IBROMOCHLOROMETHANE	N.D.	5	N.D.	
1,1-DICHLOROETHANE	N.D.	5	N.D.	95
1,2-DICHLOROETHANE	N.D.	<u>ម</u> មិនមានមានមានមានមានមានមានមានមានមានមាន	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.	Š	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.	Š	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE	N.D.	5	N.D.	
XYLENES (TOTAL)	N.D.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	

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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND

Atten: Madeline Wall

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

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-5 Matrix: SOIL

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

Method: EPA 8240

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(ug/Kg)	(uq/Kq)	(ug/Kg)	(%)
ACETONE	N.D.		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.	25555555555555555555555555555555	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. 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	Ŋ.D.	
ETHYL BENZENE	Ŋ.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.	<u> </u>	N.D.	120
TETRACHLOROETHENE	N.D.	₽	N.D.	90
TOLUENE	Ŋ.D.	<u>5</u>	N.D.	
1,1,1-TRICHLOROETHANE	Ŋ.D.	5	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5	N.D.	
TRICHLOROETHENE	N.D.	5	N.D.	85
TRICHLOROFLUOROMETHANE	N.D.	555555555555	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE XYLENES (TOTAL)	N.D.	5	N.D.	
XYLENES (TOTAL)	N.D.	5	N.D.	

ChromaLab, Inc.

Pavid Wintergrass

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Eric Tam

Environmental Services (SDB)

March 11, 1994

ChromaLab File#: 9403052

CH2M HILL OAKLAND
Atten: Madeline Wall

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

Submitted: March 2, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DM35-HA-6 Matrix: SOIL

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

Method: EPA 8240

		REPORTING	BLANK	BLANK SPIKE
ANALYTE	RESULT	LIMIT	RESULT	RESULT
ACETONE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
BENZENE	N.D.	25	N.D.	
	N.D.	5	N.D.	
BROMODICHLOROMETHANE 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	Ŋ.D.	5 '	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5	N.D.	— . —.
CHLOROFORM	N.D.	5	N.D.	
HLOROMETHANE	Ŋ.D.	5	N.D.	- -
	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 2-HEXANONE	N.D.	5	N.D.	
METHYLENE CHLORIDE	N.D.	5_	N.D.	
A MEDINE CHLOKIDE	N.D.	25	N.D.	
4-METHYL-2-PENTANONE STYRENE	N.D.	5	N.D.	
	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.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
VINYL ACETATE	N.D.	5	N.D.	
VINYL CHLORIDE XYLENES (TOTAL)	Ŋ.D.	5	N.D.	- -
XYLENES (TOTAL)	N.D.	5	N.D.	

ChromaLab, Inc.

Pavid Wintergrass

hemist

Eric Tam

Environmental Services (SDB)

VOLATILE ORGANICS REPORT-QUALITY CONTROL

Date: April 5, 1994 Client: CH2M HILL OAKLAND

File No: 9403052

Method: Volatile Organics

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

Method No: EPA 8240

Date Analyzed: March 25, 1994

Matrix: Soil

BLANK RESULT:

Compound Name	Result ug/Kg	Reporting Limit ug/Kg
CHLOROMETHANE	W D	r 0
UINVI CUIODIDE	N.D.	5.0
AIMIT CUTOKIDE	N.D.	5.0
CHLOROMETHANE VINYL CHLORIDE BROMOMETHANE CHLOROETHANE TRICHLOROFILIOROMETHANE	N.D. N.D. N.D. N.D.	5.0
TRICULOROETHANE	N.D.	5.0
TRICHLOROFLUOROMETHANE	N.D.	5.0
TRICHLOROFLUOROMETHANE 1,1-DICHLOROETHENE METHYLENE CHLORIDE 1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROETHENE (CIS) 1,1-DICHLOROETHANE CHLOROFORM 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE 1,2-DICHLOROETHANE BENZENE TRICHLOROETHENE 1,2-DICHLOROPROPANE BROMODICHLOROMETHANE 2-CHLOROETHYLVINYLETHER	N.D.	5.0 25.0 5.0 5.0
1 2-DIOULODOPPUPUP (MDANO)	N.D.	25.0
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0
1,2-DICHLOROETHENE (CIS)	N.D.	5.0
CHI ODOEODM	N.D.	5.0
1 1 1-MDTOHLODOEMHANE	N.D.	5.0
CARRON MEMBAGUI ORTER	N.D.	5.0
1 2 DIGHT ODODOWN ND	N.D.	5.0
I, Z-DICHLOROETHANE	N.D.	5.0
DENZENE TRICHI ODORMURNE	N.D.	5.0
1 2-DICHIODODDODANA	N.D.	5.0
PROMODICUL ODOMERUNAR	N.D.	5.0
DRUMUDICHLUKUMETHANE	N.D.	5.0
Z-CHLORUETHYLVINYLETHER	N.D.	5.0
TRANS-I, 3-DICHLOROPROPENE	N.D.	5.0
TOLUENE	N.D.	5.0
C15-1,3-DICHLOROPROPENE	N.D.	5.0
T, I, Z-TRICHLOROETHANE	и.р.	5.0
TETRACHLOROETHENE DEDDOMOGUL ODOMERUND	N.D.	5.0
DIBROMOCHLOROMETHANE	N.D.	5.0
BROMODICHLOROMETHANE 2-CHLOROETHYLVINYLETHER TRANS-1,3-DICHLOROPROPENE TOLUENE CIS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE TETRACHLOROETHENE DIBROMOCHLOROMETHANE CHLOROBENZENE ETHYL BENZENE BROMOFORM 1,1,2,2-TETRACHLOROETHANE	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 5.0 5.0 25.0
1,2-DICHLOROBENZENE	N.D.	5.0
TOTAL XYLENES	N.D.	_5.0
ETHYL BENZENE BROMOFORM 1,1,2,2-TETRACHLOROETHANE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE TOTAL XYLENES ACETONE METHYL ETHYL KETONE METHYL ISOBUTYL KETONE	N.D.	25.0
METHYL ETHYL KETONE	N.D.	5.0
METHYL ISOBUTYL KETONE	N.D.	5.0

File number: 9403052

Date:April 5, 1994 Client: CH2M HILL OAKLAND

Method: Volatile Organics Method number: EPA 8240

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

Matrix: Soil

Date Analyzed: March 25, 1994

MS/MSD

Sample Spiked: Blank

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PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD	RPD LIMIT %
1,1-Dichloroethane	μq/Kq	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	μ g/ 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

Environmental Services (SDB)

VOLATILE ORGANICS REPORT-QUALITY CONTROL

page 3

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 Blank Spike		95	100	91
Blank Spike	Dup.	101 103	104 100	99 102
DM-35-HA-1		89	100	86
DM-35-HA-2		93	100	87
DM-35-HA-3		90	101	86
DM-35-HA-4		91	103	86
DM-35-HA-5		91	89	89
DM-35-HA-6		92	101	79

CHM HI.

(7/1/5)FI

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M A - Z / X S D D S D S D S D S D S D S D S D S D	LAB TEST COC SUBM \$: 9403052 CLIENT: CH2 DUE: 03/09/94 REF: 15402 ### Project # No. of Sample* Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # Project # No. of Sample* OCC Rev Login	Lab Test COC SUBM \$: 9403052 CLIENT: CH2 DUE: 03/309/94 REF: 15402