Engineers
Planners
Economists
Scientists

January 30, 1993

SFO28830.BB.T1

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

Subject: Quarterly Groundwater Monitoring and Groundwater Extraction and Treatment System Status Report for Del Monte Plant 35 - West Parcel, 4204 Hollis Street, Emeryville, California

Dear Mr. Oliva:

Enclosed is the Quarterly Groundwater Monitoring and Groundwater Extraction and Treatment System Status Report for Del Monte Plant 35 - West Parcel located at 4204 Hollis Street in Emeryville, California. If you have any questions or comments, please call me at (510) 251-2888 (ext. 2118).

Sincerely,

CH2M HILL

Bern Baumgartner
Project Manager

beb/
cc: Mr. Rich Hiett/RWQCB
Mr. Stan Archacki/EBMUD
Mr. Ron Thibault/Del Monte
Mr. Steve Ronzone/Del Monte
Mr. Lee Bosche/Del Monte
Mr. Bharat Shah/Del Monte
Mr. Mark Rosenquist/Del Monte
Mr. Jeff Holloway/CH2M HILL

CH2M HILL 1111 Broadway, Suite 1200, Oakland, CA 94607-4046 510.251.2426 Fax 510.893.8205

INTRODUCTION

This report presents the quarterly groundwater monitoring analytical data, the soil excavation activities in the former fuel oil tank area, and the status of the groundwater extraction and treatment (GET) system located at Del Monte Plant 35 - West Parcel, at 4204 Hollis Street in Emeryville, California.

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; the West Parcel, located at 4204 Hollis Street, is approximately 2 acres in size and the East Parcel, located at 1250 Park Avenue, is approximately 11 acres in size (Figure 1).

Plant 35 is underlaid 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. This silty clay zone in underlaid with silty sand. Shallow groundwater exists beneath the property at a depth of approximately 7 to 10 feet below ground surface.

Del Monte removed four 50-gallon underground tanks from the West Parcel in March 1989 as described in "Property Assessment and Tank Removal Report, Del Monte Plant No. 35, Southwest Corner" (CH2M HILL, September 1989). These tanks were located adjacent to a building that Del Monte had previously leased to medical research companies. The tanks were used to store fuel oil; however, prior to removal of the tanks, tank content sampling revealed the presence of chlorinated hydrocarbon compounds. Subsequent groundwater investigations revealed the presence of chlorinated hydrocarbon compounds in the shallow groundwater in the vicinity of the former fuel oil tank area. Del Monte has been monitoring the groundwater in the vicinity of the former fuel oil tank area since May 1989.

Del Monte demolished and removed the building located at the southwest corner of the West Parcel during December 1992. The removal of this building provided access to soil that could not be removed during the removal of the four fuel oil tanks in 1989.

GROUNDWATER MONITORING

Monitoring wells MW-7, MW-9, MW-10, and MW-11 were sampled on January 13, 1993. Monitoring well MW-8 was removed during construction of the GET system and therefore could not be sampled. The monitoring well locations are shown on Figure 1. The analytical results of the January 13, 1993 monitoring event and previous monitoring events are summarized on Table 1. The laboratory report is contained in Attachment A. The results indicate that no significant changes in groundwater quality have occurred beneath the West Parcel. Applicable State of California Maximum Contaminant Levels (MCLs) are included at the bottom of Table 1.

SOIL EXCAVATION

On January 4 and 5, 1993, Del Monte excavated approximately 750 cubic yards of soil from the former fuel oil tank area. The excavation measures approximately 50 feet by 50 feet at the top of the excavation. At the bottom of the excavation, from 15 to 21 feet below grade, the excavation measures 10 feet by 10 feet. This bottom portion of the excavation was backfilled with pea gravel to facilitate groundwater extraction activities (discussed below). The excavation plan drawing is contained in Attachment B.

The excavated soil was placed on a plastic lined and bermed area on the West Parcel. During excavation, the soil was screened with a photoionizing meter (HNu) for volatile organic compounds. The HNu readings indicated that approximately 50 cubic yards of the excavated soil contained volatile organic compounds. The 50 cubic yards of soil which contained the volatile organic compounds was spread to a 6- to 12-inch thickness to allow for complete aeration. The soil containing volatile organic compounds was placed apart from the unimpacted soil. All of the excavated soil is currently covered with plastic sheeting.

Three soil samples were collected from the excavation on January 4, 1993. Two of the soil samples were collected from the south and east sidewalls of the excavation and analyzed for chlorinated hydrocarbons (EPA Method 601). No chlorinated hydrocarbons were detected in the two sidewall samples. The third soil sample was collected from the center of the excavation at a depth of approximately 15 feet below grade and was also analyzed for chlorinated hydrocarbons (EPA Method 601). The only chlorinated hydrocarbon compound detected in this sample was trichloroethene (TCE) at 11 ug/kg. The laboratory results for these three samples are contained in Attachment C.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Del Monte began construction of a GET system on January 11 and began operating this GET system on January 14, 1993. The objective of the GET system is to extract and treat groundwater containing chlorinated hydrocarbons thereby reducing levels of chlorinated hydrocarbons in the shallow groundwater beneath the West Parcel. Del Monte is planning on operating the GET system for approximately six months.

The GET system extracts groundwater through one of two 16-inch diameter perforated pipes installed in the pea gravel at the bottom of the excavation pit. The extracted groundwater is pumped to a 20,000-gallon covered settling tank to settle out silt and fine sand. An automatic shutoff device does not allow for more than 7,000 gallons of water to be contained within the 20,000-gallon settling tank at any time. After the settling tank, the extracted groundwater gravity flows to a 100-gallon holding tank prior to treatment. Treatment consists of two activated carbon canisters in series. The treated groundwater is then discharged to the sanitary sewer; Del Monte obtained a Wastewater Discharge Permit from the East Bay Municipal Utility District (EBMUD). A schematic of the GET system is shown on Figure 2. Four water sample ports (SP-A, SP-B, SP-C, and SP-D) used to monitor the GET system are also shown on Figure 2.

Del Monte began operation of the GET system on January 14. One water sample was collected from each of the four GET system sample ports one hour after system startup. The samples were analyzed for chlorinated hydrocarbons; benzene, toluene, ethylbenzene, and xylenes (BTEX); and mercury, arsenic, copper, lead, and nickel as required by EBMUD for startup of the GET system. The results of the chlorinated hydrocarbon and BTEX analyses are included on Table 2. The results of the metals analyses are summarized on Table 3. The laboratory reports for these samples are included in Attachment D.

The GET system sample ports were also sampled on January 19 and analyzed for chlorinated hydrocarbons and BTEX. The results of these samples are included in Table 2 and the laboratory report is included in Attachment D.

The results of the GET system sampling indicate that the GET system is effectively removing chlorinated hydrocarbons prior to discharge. BTEX compounds have not been detected in any of the GET system samples collected. The only metal detected was arsenic at a maximum concentration of 0.01 mg/l, which is below the EBMUD discharge limitation for arsenic of 2 mg/l.

Water samples were also collected from the GET system on January 27 and are currently being analyzed. The analytical results of the January 27 sampling event will be included with the next quarterly report. As of January 27, the GET system extracted and treated 65,625 gallons of water at a rate of approximately 3.5 gallons per minute. According to current loading data, breakthrough of the two carbon canisters should not occur for several months. GET system inspection logs are contained in Attachment E.

FUTURE ACTIVITIES

System operation and maintenance inspections will be conducted weekly and future GET system water samples will be collected monthly. The next quarterly monitoring well sampling event is scheduled for April 13, 1993 and the next quarterly report is scheduled to be prepared by April 30, 1993.

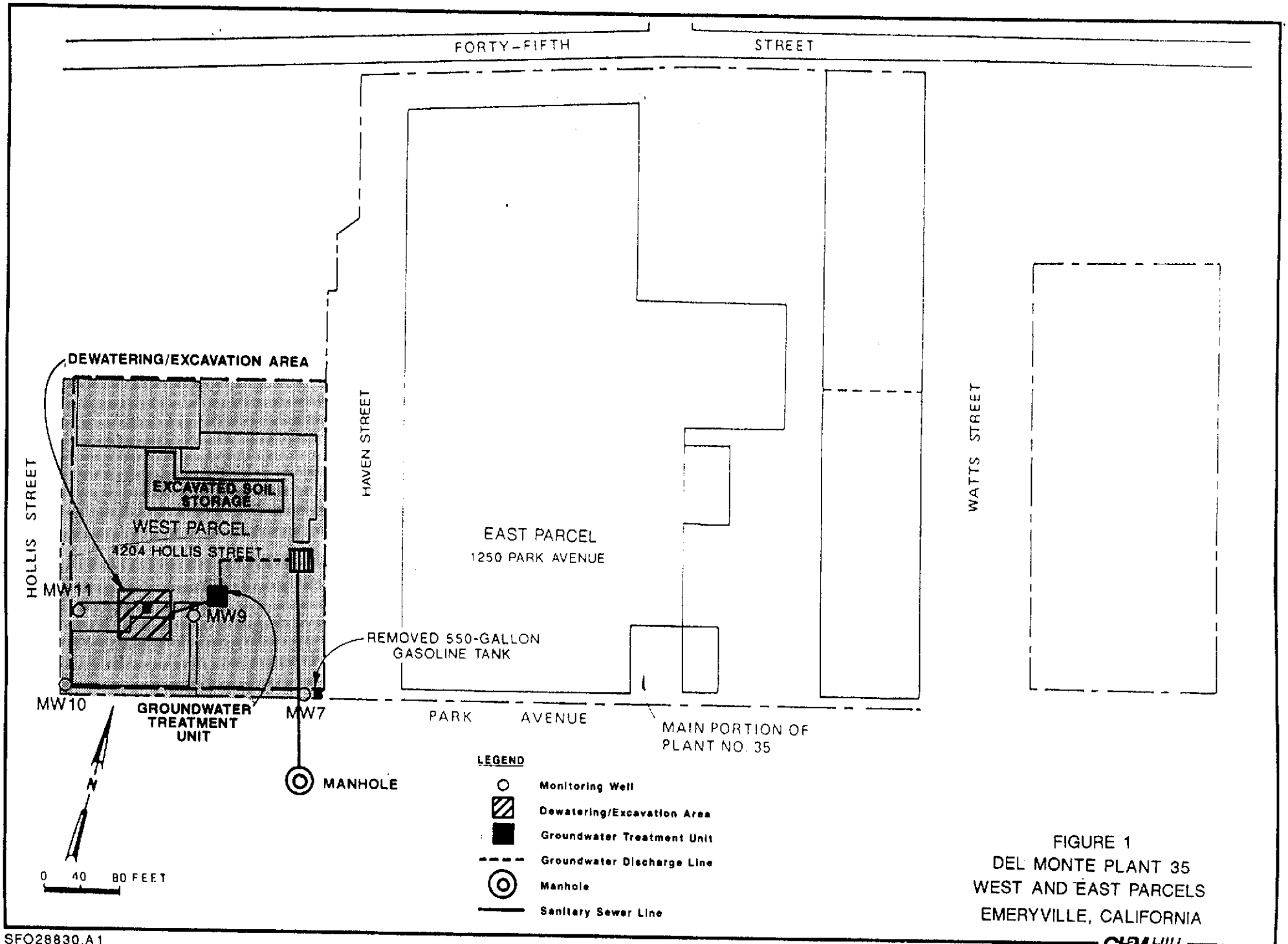


FIGURE 1
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE, CALIFORNIA

SFO28830.A1

CH2M HILL

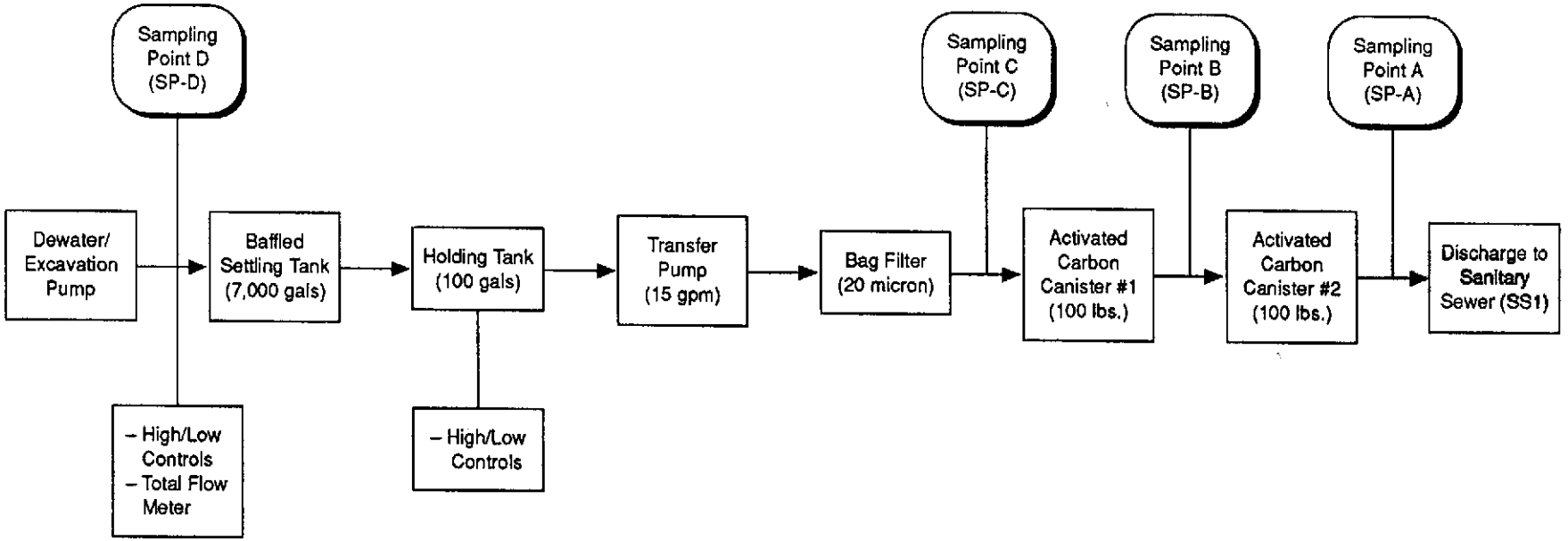


Figure 2
Del Monte Plant 35
Groundwater Treatment Unit

TABLE 1
DEL MONTE PLANT NO. 35, WEST PARCEL
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESULTS

Monitoring Well	Sampling Date	Concentration (ug/L) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW7	17-Apr-91	85.0	<0.5	<0.5	23.0	14.0	5.1	<0.5
MW7	31-Jul-91	100.0	<0.5	<0.5	29.0	19.0	5.1	<0.5
MW7	22-Oct-91	130.0	<1.0	<1.0	30.0	20.0	3.0	<1.0
MW7	23-Jan-92	100.0	<0.5	<0.5	29.0	17.0	3.1	<0.5
MW7	23-Apr-92	92.0	<0.5	<0.5	46.0	28.0	<0.5	<0.5
MW7	17-Jul-92	93.0	<0.5	<0.5	51.0	30.0	1.8	<0.5
MW7	12-Oct-92	71.0	<0.5	<0.5	39.0	28.0	2.8	<0.5
MW7	13-Jan-93	54.0	<0.5	<0.5	25.0	16.0	2.1	<0.5
MW8	12-May-89	290.0	<10.0	<10.0	1400.0	20.0	78.0	<10.0
MW8	10-Jul-89	140.0	<2.5	<2.5	330.0	14.0	17.0	<2.5
MW8-dup	10-Jul-89	130.0	<2.5	<2.5	310.0	12.0	16.0	<2.5
MW8	24-Oct-89	100.0	<2.0	<2.0	330.0	24.0	4.0	<2.0
MW8	07-Feb-90	100.0	<2.0	<2.0	520.0	18.0	12.0	<2.0
MW8	10-Jul-90	5.0	<0.2	<0.5	91.0	36.0	3.0	<0.5
MW8	17-Oct-90	59.0	<1.0	<1.0	160.0	21.0	2.0	<1.0
MW8	24-Jan-91	160.0	<2.0	<5.0	450.0	13.0	9.0	27.0
MW8	17-Apr-91	210.0	<5.0	<5.0	830.0	16.0	<5.0	<5.0
MW8	31-Jul-91	85.0	<2.0	<2.0	350.0	30.0	<2.0	<2.0
MW8	22-Oct-91	40.0	<5.0	<5.0	630.0	20.0	<5.0	<5.0
MW8	23-Jan-92	160.0	<5.0	<5.0	690.0	29.0	<5.0	<5.0
MW8	23-Apr-92	130.0	<10.0	<10.0	1600.0	30.0	<10.0	<10.0
MW8	17-Jul-92	35.0	<2.0	<2.0	490.0	11.0	<2.0	<2.0
MW8	12-Oct-92	22.0	<1.0	<1.0	110.0	24.0	1.3	<1.0

Continued

TABLE 1

DEL MONTE PLANT NO. 36, WEST PARCEL

4204 HOLLIS STREET, EMERYVILLE, CA

QUARTERLY GROUNDWATER MONITORING RESULTS

Monitoring Well	Sampling Date	Concentration (ug/l) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW9	10-Jul-89	63.0	<0.5	<0.5	13.0	38.0	16.0	<0.5
MW9	24-Oct-89	6.4	<0.5	<0.5	29.0	48.0	23.0	<0.5
MW9	07-Feb-90	55.0	<0.5	<0.5	15.0	30.0	7.1	<0.5
MW9	10-Jul-90	3.0	<0.2	<0.5	9.0	43.0	10.0	<0.5
MW9	17-Oct-90	70.0	<0.5	<0.5	14.0	32.0	4.6	<0.5
MW9	24-Jan-91	70.0	<2.0	<2.0	220.0	23.0	<2.0	<2.0
MW9	17-Apr-91	44.0	<0.5	<0.5	12.0	26.0	<0.5	<0.5
MW9	31-Jul-91	55.0	<0.5	<0.5	14.0	32.0	2.3	<0.5
MW9	22-Oct-91	71.0	<0.5	<0.5	15.0	33.0	2.8	<0.5
MW9	23-Jan-92	64.0	<0.5	<0.5	10.0	27.0	2.1	<0.5
MW9	23-Apr-92	22.0	<0.5	<0.5	11.0	29.0	<0.5	<0.5
MW9	17-Jul-92	26.0	<0.5	<0.5	13.0	32.0	<0.5	<0.5
MW9	12-Oct-92	41.0	<0.5	<0.5	17.0	36.0	3.0	<0.5
MW9	13-Jan-93	22.0	<0.5	<0.5	7.9	17.0	1.4	<0.5
MW10	10-Jul-89	85.0	0.8	<0.5	27.0	42.0	28.0	<0.5
MW10	24-Oct-89	104.8	<0.5	<0.5	37.0	28.0	6.9	<0.5
MW10	07-Feb-90	50.0	<0.5	<0.5	11.0	8.0	5.3	<0.5
MW10	10-Jul-90	9.0	<0.2	<0.5	30.0	76.0	54.0	<0.5
MW10-dup	10-Jul-90	10.0	5.0	<0.5	28.0	69.0	17.0	<0.5
MW10	17-Oct-90	140.0	<0.5	<0.5	35.0	37.0	13.0	<0.5
MW10	24-Jan-91	65.0	<0.5	<0.5	14.0	31.0	3.3	<0.5
MW10	17-Apr-91	210.0	<2.0	<2.0	48.0	52.0	10.0	<2.0
MW10	31-Jul-91	280.0	<2.0	<2.0	66.0	14.0	2.0	<2.0
MW10	22-Oct-91	160.0	<1.0	<1.0	40.0	40.0	5.0	<1.0
MW10	23-Jan-92	240.0	<2.0	<2.0	46.0	54.0	10.0	<2.0

Continued

TABLE 1

DEL MONTE PLANT NO. 35, WEST PARCEL

4204 HOLLIS STREET, EMERYVILLE, CA

QUARTERLY GROUNDWATER MONITORING RESULTS

Monitoring Well	Sampling Date	Concentration (ug/l) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW10	23-Apr-92	210.0	<2.0	<2.0	89.0	110.0	<2.0	<2.0
MW10	17-Jul-92	180.0	<1.0	<1.0	78.0	82.0	15.0	<1.0
MW10	12-Oct-92	110.0	<1.0	<1.0	45.0	46.0	11.0	<1.0
MW10	13-Jan-93	190.0	<1.0	<1.0	78.0	110.0	19.0	<1.0
MW11	10-Jul-89	73.0	<1.0	4.0	160.0	12.0	16.0	5.7
MW11	24-Oct-89	188.0	<2.0	10.0	410.0	15.0	22.0	20.0
MW11	07-Feb-90	105.0	<2.0	2.0	270.0	8.0	11.0	13.0
MW11	10-Jul-90	4.0	<2.0	23.0	46.0	18.0	15.0	<0.5
MW11	17-Oct-90	150.0	<2.0	11.0	300.0	8.0	<2.0	31.0
MW11	24-Jan-91	120.0	<1.0	<1.0	29.0	29.0	3.0	<1.0
MW11	17-Apr-91	100.0	<1.0	14.0	160.0	12.0	5.0	29.0
MW11	31-Jul-91	250.0	<2.0	<2.0	61.0	65.0	12.0	2.0
MW11	22-Oct-91	180.0	<2.0	5.0	560.0	20.0	5.0	30.0
MW11	23-Jan-92	160.0	<2.0	13.0	290.0	19.0	<2.0	21.0
MW11	23-Apr-92	30.0	<1.0	9.0	120.0	13.0	<1.0	14.0
MW11	17-Jul-92	26.0	<0.5	1.4	81.0	<0.5	<0.5	3.5
MW11	12-Oct-92	63.0	<3.0	4.4	450.0	16.0	5.2	17.0
MW11	13-Jan-93	29.0	<1.0	2.2	140.0	13.0	3.2	6.4
WATER QUALITY STANDARDS								
	Primary MCL	---	6	0.5	5	5	0.5	5
	Cancer Risk	---	0.033	0.94	2.7	0.8	2	---
	AATC (Freshwater)	23200	11600	118000	45000	5280	---	23000

a: total 1,2-Dichloroethene
b: 1,1-Dichloroethene
c: 1,2-Dichloroethane
d: Trichloroethene
e: Tetrachloroethene
f: Vinyl chloride
g: 1,2-Dichloropropane
* Sum of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene

TABLE 2
GROUNDWATER TREATMENT SYSTEM MONITORING RESULTS
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA

Sample Port	Date	Concentrations (ug/l) B	T	E	X	PCE	TCE	VC	1,2-DCE
SP-A	01/14/93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP-A	01/19/93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP-B	01/14/93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP-B	01/19/93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP-C	01/14/93	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<0.5
SP-C	01/19/93	<0.5	<0.5	<0.5	<0.5	<0.5	3.4	<0.5	<0.5
SP-D	01/14/93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP-D	01/19/93	<0.5	<0.5	<0.5	<0.5	4.9	620	3.0	37

B – benzene, T – toluene, E – ethylbenzene, X – xylenes
PCE – perchloroethylene
TCE – trichloroethylene
VC – vinyl chloride
1,2-DCE – 1,2-Dichloroethylene (Total)

TABLE 3
METALS ANALYSES
GET SYSTEM STARTUP MONITORING
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA

Sample Port	Date	Concentrations (mg/l) Mercury	Arsenic	Copper	Lead	Nickel
SP-A	01/14/93	<0.003	<0.005	<0.005	<0.01	<0.01
SP-B	01/14/93	<0.003	0.01	<0.005	<0.01	<0.01
SP-C	01/14/93	<0.003	0.006	<0.005	<0.01	<0.01
EBMUD Maximum Levels		0.05	2	5	2	0.05

ATTACHMENT A

Monitoring Well Laboratory Report

ANALYTICAL REPORT

LOG NO: E93-01-271

Received: 14 JAN 93

Mailed:

Mr. Bern Baumgartner
CH2M Hill
1111 Broadway, Suite 1200
Oakland, California 94607-4046

Project: SF028830.A1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
01-271-1	MW-7	13 JAN 93
01-271-2	MW-9	13 JAN 93
01-271-3	MW-10	13 JAN 93
01-271-4	MW-11	13 JAN 93

PARAMETER	01-271-1	01-271-2	01-271-3	01-271-4
Halocarbons (EPA 601)				
Date Analyzed	01.21.93	01.19.93	01.20.93	01.19.93
Confirmation Date	01.20.93	01.19.93	01.20.93	01.19.93
Dilution Factor, Times	1	1	2	2
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<1	<1
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<1	<1
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<1	<1
1,1-Dichloroethane, ug/L	<0.5	<0.5	<1	<1
1,1-Dichloroethene, ug/L	<0.5	<0.5	<1	<1
1,2-Dichloroethane, ug/L	<0.5	<0.5	<1	2.2
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<1
1,2-Dichloroethene (Total), ug/L	54	22	190	29
1,2-Dichloropropane, ug/L	<0.5	<0.5	<1	6.4
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<1
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<1	<1
2-Chloroethylvinylether, ug/L	<0.5	<0.5	<1	<1
Bromodichloromethane, ug/L	<0.5	<0.5	<1	<1
Bromomethane, ug/L	<0.5	<0.5	<1	<1
Bromoform, ug/L	<0.5	<0.5	<1	<1
Chlorobenzene, ug/L	<0.5	<0.5	<1	<1
Carbon Tetrachloride, ug/L	<0.5	<0.5	<1	<1
Chloroethane, ug/L	<0.5	<0.5	<1	<1
Chloroform, ug/L	<0.5	<0.5	<1	<1
Chloromethane, ug/L	<0.5	<0.5	<1	<1
Dibromochloromethane, ug/L	<0.5	<0.5	<1	<1

LOG NO: E93-01-271

Received: 14 JAN 93

Mr. Bern Baumgartner
CH2M Hill
1111 Broadway, Suite 1200
Oakland, California 94607-4046

Project: SF028830.A1

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
01-271-1	MW-7	13 JAN 93
01-271-2	MW-9	13 JAN 93
01-271-3	MW-10	13 JAN 93
01-271-4	MW-11	13 JAN 93

PARAMETER	01-271-1	01-271-2	01-271-3	01-271-4
Dichlorodifluoromethane, ug/L	<0.5	<0.5	<1	<1
Freon 113, ug/L	<0.5	<0.5	<1	<1
Methylene chloride, ug/L	<0.5	<0.5	<1	<1
Trichloroethene, ug/L	25	7.9	78	140
Trichlorofluoromethane, ug/L	<0.5	<0.5	<1	<1
Tetrachloroethene, ug/L	16	17	110	13
Vinyl chloride, ug/L	2.1	1.4	19	3.2
cis-1,2-Dichloroethene, ug/L	50	21	180	27
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<1
trans-1,2-Dichloroethene, ug/L	4.4	1.4	12	2.1
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<1	<1

Edward Wilson, Laboratory Director

: ORDER PLACED FOR CLIENT: CH2M Hill 9301271 :
: BC ANALYTICAL : EMVL LAB : 12:34:45 01 FEB 1993 - P. 1 :

SAMPLES.....	SAMPLE DESCRIPTION..	DETERM.....	DATE.... ANALYZED	METHOD.....	EQUIP. BATCH ID.NO
9301271*1	MW-7	VH.601	01.21.93	601	516-29393019 7553
9301271*2	MW-9	VH.601	01.19.93	601	516-29393017 7553
9301271*3	MW-10	VH.601	01.20.93	601	516-21 93018 7553
9301271*4	MW-11	VH.601	01.19.93	601	516-21 93017 7553

***

Notes: Equipment - BC Analytical identification number for a particular piece of analytical equipment.

ID.NO - BC Analytical employee identification number of analyst.

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Halocarbons (EPA 601)						
1,1,1-Trichloroethane	01.20.93	93018	37.2	20.0	ug/L	186
1,1,2,2-Tetrachloroethane	01.20.93	93018	13.1	20.0	ug/L	66
1,1,2-Trichloroethane	01.20.93	93018	18.7	20.0	ug/L	94
1,1-Dichloroethane	01.20.93	93018	29.6	20.0	ug/L	148
1,1-Dichloroethene	01.20.93	93018	30.0	20.0	ug/L	150
1,2-Dichloroethane	01.20.93	93018	21.4	20.0	ug/L	107
1,2-Dichlorobenzene	01.20.93	93018	15.5	20.0	ug/L	78
1,2-Dichloroethene (Total)	01.20.93	93018	60.7	40.0	ug/L	152
1,2-Dichloropropane	01.20.93	93018	27.3	20.0	ug/L	137
1,3-Dichlorobenzene	01.20.93	93018	17.6	20.0	ug/L	88
1,4-Dichlorobenzene	01.20.93	93018	18.4	20.0	ug/L	92
2-Chloroethylvinylether	01.20.93	93018	11.9	20.0	ug/L	60
Bromodichloromethane	01.20.93	93018	23.5	20.0	ug/L	118
Bromomethane	01.20.93	93018	22.6	20.0	ug/L	113
Bromoform	01.20.93	93018	9.83	20.0	ug/L	49
Chlorobenzene	01.20.93	93018	25.4	20.0	ug/L	127
Carbon Tetrachloride	01.20.93	93018	34.1	20.0	ug/L	171
Chloroethane	01.20.93	93018	29.2	20.0	ug/L	146
Chloroform	01.20.93	93018	29.3	20.0	ug/L	147
Chloromethane	01.20.93	93018	19.0	20.0	ug/L	95
Dibromochloromethane	01.20.93	93018	18.1	20.0	ug/L	91
Dichlorodifluoromethane	01.20.93	93018	25.5	20.0	ug/L	128
Freon 113	01.20.93	93018	29.4	20.0	ug/L	147
Methylene chloride	01.20.93	93018	27.0	20.0	ug/L	135
Trichloroethene	01.20.93	93018	31.6	20.0	ug/L	158
Trichlorofluoromethane	01.20.93	93018	32.4	20.0	ug/L	162
Tetrachloroethene	01.20.93	93018	32.6	20.0	ug/L	163
Vinyl chloride	01.20.93	93018	31.9	20.0	ug/L	160
cis-1,2-Dichloroethene	01.20.93	93018	27.4	20.0	ug/L	137
cis-1,3-Dichloropropene	01.20.93	93018	21.2	18.9	ug/L	112
trans-1,2-Dichloroethene	01.20.93	93018	33.3	20.0	ug/L	167
trans-1,3-Dichloropropene	01.20.93	93018	19.4	21.1	ug/L	92
Halocarbons (EPA 601)						
1,1,1-Trichloroethane	01.19.93	93017	27.4	20.0	ug/L	137
1,1,2,2-Tetrachloroethane	01.19.93	93017	16.4	20.0	ug/L	82
1,1,2-Trichloroethane	01.19.93	93017	20.7	20.0	ug/L	104

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

LABORATORY CONTROL STANDARDS

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1,1-Dichloroethane	01.19.93	93017	25.4	20.0	ug/L	127
1,1-Dichloroethene	01.19.93	93017	23.7	20.0	ug/L	119
1,2-Dichloroethane	01.19.93	93017	21.5	20.0	ug/L	108
1,2-Dichlorobenzene	01.19.93	93017	17.9	20.0	ug/L	90
1,2-Dichloroethene (Total)	01.19.93	93017	48.6	40.0	ug/L	122
1,2-Dichloropropane	01.19.93	93017	24.9	20.0	ug/L	125
1,3-Dichlorobenzene	01.19.93	93017	19.6	20.0	ug/L	98
1,4-Dichlorobenzene	01.19.93	93017	20.2	20.0	ug/L	101
2-Chloroethylvinylether	01.19.93	93017	15.8	20.0	ug/L	79
Bromodichloromethane	01.19.93	93017	23.3	20.0	ug/L	117
Bromomethane	01.19.93	93017	21.2	20.0	ug/L	106
Bromoform	01.19.93	93017	13.9	20.0	ug/L	70
Chlorobenzene	01.19.93	93017	23.	20.0	ug/L	115
Carbon Tetrachloride	01.19.93	93017	26.3	20.0	ug/L	132
Chloroethane	01.19.93	93017	23.6	20.0	ug/L	118
Chloroform	01.19.93	93017	25.4	20.0	ug/L	127
Chloromethane	01.19.93	93017	16.3	20.0	ug/L	82
Dibromochloromethane	01.19.93	93017	19.2	20.0	ug/L	96
Dichlorodifluoromethane	01.19.93	93017	20.4	20.0	ug/L	102
Freon 113	01.19.93	93017	23.0	20.0	ug/L	115
Methylene chloride	01.19.93	93017	21.2	20.0	ug/L	106
Trichloroethene	01.19.93	93017	25.4	20.0	ug/L	127
Trichlorofluoromethane	01.19.93	93017	24.4	20.0	ug/L	122
Tetrachloroethene	01.19.93	93017	26.4	20.0	ug/L	132
Vinyl chloride	01.19.93	93017	25.3	20.0	ug/L	127
cis-1,2-Dichloroethene	01.19.93	93017	24.3	20.0	ug/L	122
cis-1,3-Dichloropropene	01.19.93	93017	21.8	18.9	ug/L	115
trans-1,2-Dichloroethene	01.19.93	93017	24.3	20.0	ug/L	122
trans-1,3-Dichloropropene	01.19.93	93017	21.9	21.1	ug/L	104

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

MATRIX QC PRECISION (DUPLICATE SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	S1 RESULT	S2 RESULT	UNIT	RELATIVE %DIFF
Halocarbons (EPA 601)						
1,1,1-Trichloroethane	01.19.93	393017	15.5	15.1	ug/L	3
1,1-Dichloroethane	01.19.93	393017	13.5	12.5	ug/L	8
1,1-Dichloroethene	01.19.93	393017	12.5	12.4	ug/L	1
1,2-Dichloroethane	01.19.93	393017	12.5	10.5	ug/L	17
1,2-Dichloroethene (Total)	01.19.93	393017	51.8	48.8	ug/L	6
1,2-Dichloropropane	01.19.93	393017	14.0	13.1	ug/L	7
Bromodichloromethane	01.19.93	393017	12.8	10.9	ug/L	16
Bromoform	01.19.93	393017	6.70	5.61	ug/L	18
Carbon Tetrachloride	01.19.93	393017	14.3	13.9	ug/L	3
Chloroform	01.19.93	393017	14.2	13.9	ug/L	2
Dibromochloromethane	01.19.93	393017	10.7	8.88	ug/L	19
Methylene chloride	01.19.93	393017	10.8	10.2	ug/L	6
Trichloroethene	01.19.93	393017	21.9	22.2	ug/L	1
Tetrachloroethene	01.19.93	393017	32.5	34.0	ug/L	5
Vinyl chloride	01.19.93	393017	1.55	2.14	ug/L	32
cis-1,2-Dichloroethene	01.19.93	393017	37.3	35.0	ug/L	6
trans-1,2-Dichloroethene	01.19.93	393017	14.5	13.8	ug/L	5
Halocarbons (EPA 601)						
1,1,1-Trichloroethane	01.20.93	93018	61.5	52.1	ug/L	17
1,1-Dichloroethane	01.20.93	93018	45.8	38.0	ug/L	19
1,1-Dichloroethene	01.20.93	93018	58.6	50.3	ug/L	15
1,2-Dichloroethane	01.20.93	93018	31.7	28.4	ug/L	11
1,2-Dichloroethene (Total)	01.20.93	93018	277	239	ug/L	15
1,2-Dichloropropane	01.20.93	93018	42.3	35.6	ug/L	17
Bromodichloromethane	01.20.93	93018	33.5	28.1	ug/L	18
Bromoform	01.20.93	93018	6.59	5.68	ug/L	15
Carbon Tetrachloride	01.20.93	93018	56.0	47.6	ug/L	16
Chloroform	01.20.93	93018	47.3	40.0	ug/L	17
Dibromochloromethane	01.20.93	93018	25.0	21.9	ug/L	13
Methylene chloride	01.20.93	93018	37.3	32.2	ug/L	15
Trichloroethene	01.20.93	93018	120	104	ug/L	14
Tetrachloroethene	01.20.93	93018	142	130	ug/L	9
Vinyl chloride	01.20.93	93018	20.4	18.6	ug/L	9
cis-1,2-Dichloroethene	01.20.93	93018	210	182	ug/L	14
trans-1,2-Dichloroethene	01.20.93	93018	66.8	56.7	ug/L	16

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

MATRIX QC ACCURACY (SPIKES)

PARAMETER	DATE ANALYZED	BATCH NUMBER	SBAR RESULT	TRUE RESULT	RBAR RESULT	UNIT	PERCENT RECOVERY
Halocarbons (EPA 601)							
1,1,1-Trichloroethane	01.19.93	393017	15.3	12.0	<0.5	ug/L	128
1,1-Dichloroethane	01.19.93	393017	13	12.0	<0.5	ug/L	108
1,1-Dichloroethene	01.19.93	393017	12.45	12.0	<0.5	ug/L	104
1,2-Dichloroethane	01.19.93	393017	11.5	12.0	<0.5	ug/L	96
1,2-Dichloroethene (Total)	01.19.93	393017	50.3	46.4	22	ug/L	116
1,2-Dichloropropane	01.19.93	393017	13.55	12.0	<0.5	ug/L	113
Bromodichloromethane	01.19.93	393017	11.85	12.0	<0.5	ug/L	99
Bromoform	01.19.93	393017	6.155	12.0	<0.5	ug/L	51
Carbon Tetrachloride	01.19.93	393017	14.1	12.0	<0.5	ug/L	118
Chloroform	01.19.93	393017	14.05	12.0	<0.5	ug/L	117
Dibromochloromethane	01.19.93	393017	9.79	12.0	<0.5	ug/L	82
Methylene chloride	01.19.93	393017	10.5	12.0	<0.5	ug/L	88
Trichloroethene	01.19.93	393017	22.05	19.9	7.9	ug/L	118
Tetrachloroethene	01.19.93	393017	33.25	19.0	17	ug/L	SOR
cis-1,2-Dichloroethene	01.19.93	393017	36.15	33.0	21	ug/L	126
trans-1,2-Dichloroethene	01.19.93	393017	14.15	13.4	1.4	ug/L	106
Halocarbons (EPA 601)							
1,1,1-Trichloroethane	01.20.93	93018	56.8	24.0	<1	ug/L	237
1,1-Dichloroethane	01.20.93	93018	41.9	24.0	<1	ug/L	175
1,1-Dichloroethene	01.20.93	93018	54.45	24.0	<1	ug/L	227
1,2-Dichloroethane	01.20.93	93018	30.05	24.0	<1	ug/L	125
1,2-Dichloroethene (Total)	01.20.93	93018	258	240	190	ug/L	SOR
1,2-Dichloropropane	01.20.93	93018	38.95	24.0	<1	ug/L	162
Bromodichloromethane	01.20.93	93018	30.8	24.0	<1	ug/L	128
Bromoform	01.20.93	93018	6.135	24.0	<1	ug/L	26
Carbon Tetrachloride	01.20.93	93018	51.8	24.0	<1	ug/L	216
Chloroform	01.20.93	93018	43.65	24.0	<1	ug/L	182
Dibromochloromethane	01.20.93	93018	23.45	24.0	<1	ug/L	98
Methylene chloride	01.20.93	93018	34.75	24.0	<1	ug/L	145
Trichloroethene	01.20.93	93018	112	90.0	78	ug/L	SOR
Tetrachloroethene	01.20.93	93018	136	134	110	ug/L	SOR
cis-1,2-Dichloroethene	01.20.93	93018	196	204	180	ug/L	SOR
trans-1,2-Dichloroethene	01.20.93	93018	61.75	36.0	12	ug/L	207

SOR = Spike Out of Range
(relative to high sample concentration)

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
Halocarbons (EPA 601)						
Date Analyzed	01.20.93	93018	01.20.93	NA	Date	601
1,1,1-Trichloroethane	01.20.93	93018	0	0.5	ug/L	601
1,1,2,2-Tetrachloroethane	01.20.93	93018	0	0.5	ug/L	601
1,1,2-Trichloroethane	01.20.93	93018	0	0.5	ug/L	601
1,1-Dichloroethane	01.20.93	93018	0	0.5	ug/L	601
1,1-Dichloroethene	01.20.93	93018	0	0.5	ug/L	601
1,2-Dichloroethane	01.20.93	93018	0	0.5	ug/L	601
1,2-Dichlorobenzene	01.20.93	93018	0	0.5	ug/L	601
1,2-Dichloroethene (Total)	01.20.93	93018	0	0.5	ug/L	601
1,2-Dichloropropane	01.20.93	93018	0	0.5	ug/L	601
1,3-Dichlorobenzene	01.20.93	93018	0	0.5	ug/L	601
1,4-Dichlorobenzene	01.20.93	93018	0	0.5	ug/L	601
2-Chloroethylvinylether	01.20.93	93018	0	0.5	ug/L	601
Bromodichloromethane	01.20.93	93018	0	0.5	ug/L	601
Bromomethane	01.20.93	93018	0	0.5	ug/L	601
Bromoform	01.20.93	93018	0	0.5	ug/L	601
Chlorobenzene	01.20.93	93018	0	0.5	ug/L	601
Carbon Tetrachloride	01.20.93	93018	0	0.5	ug/L	601
Chloroethane	01.20.93	93018	0	0.5	ug/L	601
Chloroform	01.20.93	93018	0	0.5	ug/L	601
Chloromethane	01.20.93	93018	0	0.5	ug/L	601
Dibromochloromethane	01.20.93	93018	0	0.5	ug/L	601
Dichlorodifluoromethane	01.20.93	93018	0	0.5	ug/L	601
Freon 113	01.20.93	93018	0	0.5	ug/L	601
Methylene chloride	01.20.93	93018	0	0.5	ug/L	601
Trichloroethene	01.20.93	93018	0	0.5	ug/L	601
Trichlorofluoromethane	01.20.93	93018	0	0.5	ug/L	601
Tetrachloroethene	01.20.93	93018	0	0.5	ug/L	601
Vinyl chloride	01.20.93	93018	0	0.5	ug/L	601
cis-1,2-Dichloroethene	01.20.93	93018	0	0.5	ug/L	601
cis-1,3-Dichloropropene	01.20.93	93018	0	0.5	ug/L	601
trans-1,2-Dichloroethene	01.20.93	93018	0	0.5	ug/L	601
trans-1,3-Dichloropropene	01.20.93	93018	0	0.5	ug/L	601
Halocarbons (EPA 601)						
Date Analyzed	01.19.93	93017	01.19.93	NA	Date	601
1,1,1-Trichloroethane	01.19.93	93017	0	0.5	ug/L	601

BC ANALYTICAL

BATCH QC REPORT
ORDER: E9301271

DATE REPORTED : 02/01/93

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1,1,2,2-Tetrachloroethane	01.19.93	93017	0	0.5	ug/L	601
1,1,2-Trichloroethane	01.19.93	93017	0	0.5	ug/L	601
1,1-Dichloroethane	01.19.93	93017	0	0.5	ug/L	601
1,1-Dichloroethene	01.19.93	93017	0	0.5	ug/L	601
1,2-Dichloroethane	01.19.93	93017	0	0.5	ug/L	601
1,2-Dichlorobenzene	01.19.93	93017	0	0.5	ug/L	601
1,2-Dichloroethene (Total)	01.19.93	93017	0	0.5	ug/L	601
1,2-Dichloropropane	01.19.93	93017	0	0.5	ug/L	601
1,3-Dichlorobenzene	01.19.93	93017	0	0.5	ug/L	601
1,4-Dichlorobenzene	01.19.93	93017	0	0.5	ug/L	601
2-Chloroethylvinylether	01.19.93	93017	0	0.5	ug/L	601
Bromodichloromethane	01.19.93	93017	0	0.5	ug/L	601
Bromomethane	01.19.93	93017	0	0.5	ug/L	601
Bromoform	01.19.93	93017	0	0.5	ug/L	601
Chlorobenzene	01.19.93	93017	0	0.5	ug/L	601
Carbon Tetrachloride	01.19.93	93017	0	0.5	ug/L	601
Chloroethane	01.19.93	93017	0	0.5	ug/L	601
Chloroform	01.19.93	93017	0	0.5	ug/L	601
Chloromethane	01.19.93	93017	0	0.5	ug/L	601
Dibromochloromethane	01.19.93	93017	0	0.5	ug/L	601
Dichlorodifluoromethane	01.19.93	93017	0	0.5	ug/L	601
Freon 113	01.19.93	93017	0	0.5	ug/L	601
Methylene chloride	01.19.93	93017	0	0.5	ug/L	601
Trichloroethene	01.19.93	93017	0	0.5	ug/L	601
Trichlorofluoromethane	01.19.93	93017	0	0.5	ug/L	601
Tetrachloroethene	01.19.93	93017	0	0.5	ug/L	601
Vinyl chloride	01.19.93	93017	0	0.5	ug/L	601
cis-1,2-Dichloroethene	01.19.93	93017	0	0.5	ug/L	601
cis-1,3-Dichloropropene	01.19.93	93017	0	0.5	ug/L	601
trans-1,2-Dichloroethene	01.19.93	93017	0	0.5	ug/L	601
trans-1,3-Dichloropropene	01.19.93	93017	0	0.5	ug/L	601

ATTACHMENT B

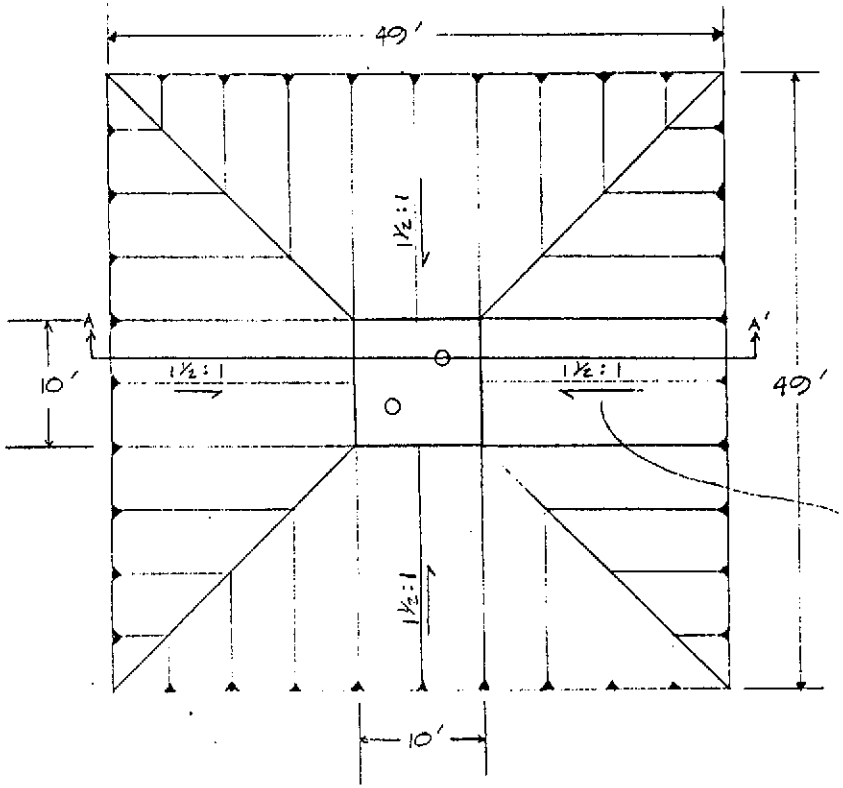
Soil Excavation Plan

SUBJECT DEL MONTE DEWATERING PIT PROJECT NO. SFO 28930.BB BY M. Hamalka DATE 9/21/

SHEET NO. ___ OF ___

NOTES

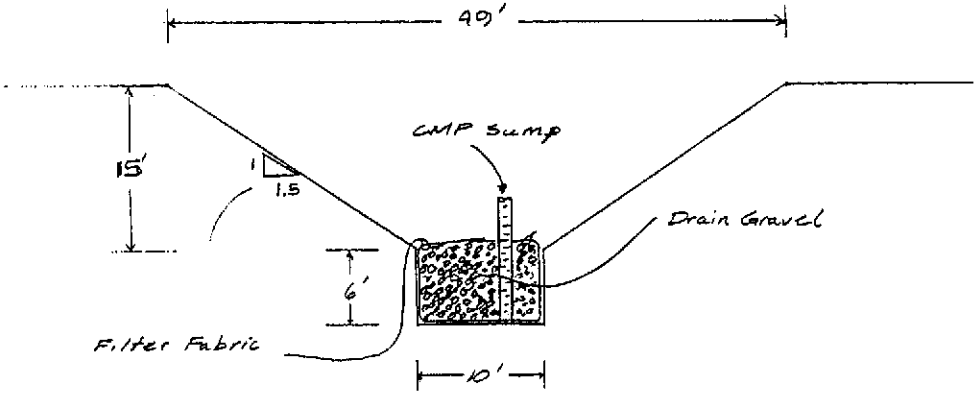
1. Fabric shall completely encapsulate Drain Gravel with a minimum 2-foot overlap for individual sheets
2. Spread Thin Layer of Gravel on Exposed Fabric Surface
3. The excavation shown on this drawing shall be the minimum quantity of material removed by the contractor. The actual configuration shall be determined by the contractor as described in the Excavation Section of Technical Specification.



SEE NOTE 3

PLAN
1"=10'

0 5 10 ft



SECTION A-A'
1"=10'

0 5 10 ft

ATTACHMENT C

Soil Sampling Laboratory Report

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 5, 1993 — ChromaLab File # 0193004

CH2M HILL — Attn: Bern Baumgartner

Project Name: WEST PARCEL EXCAV
Date Sampled: Jan. 4, 1993
Date Submitted: Jan. 4, 1993
Date of Analysis: Jan. 5, 1993
Sample I.D.: ES-SW-S

Project No: SFO28830.BB.T1
Method of Analysis: EPA 8010
Matrix: Soil
Detection Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	90% 109%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	64% 71%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	65% 72%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	74% 82%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Lab Director

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 5, 1993

ChromaLab File # 0193004

CH2M HILL

Attn: Bern Baumgartner

Project Name: WEST PARCEL EXCAV
Date Sampled: Jan. 4, 1993
Date Submitted: Jan. 4, 1993
Date of Analysis: Jan. 5, 1993
Sample I.D.: ES-SW-E

Project No: SFO28830.BB.T1
Method of Analysis: EPA 8010
Matrix: Soil
Detection Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	90% 109%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	64% 71%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	65% 72%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	74% 82%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Lab Director

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

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 5, 1993 — ChromaLab File # 0193004

CH2M HILL — Attn: Bern Baumgartner

Project Name: WEST PARCEL EXCAV — Project No: SFO28830.BB.T1
Date Sampled: Jan. 4, 1993 — Method of Analysis: EPA 8010
Date Submitted: Jan. 4, 1993 — Matrix: Soil
Date of Analysis: Jan. 5, 1993 — Detection Limit: 5.0 µg/Kg
Sample I.D.: ES-BOT-S-OUT — Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	90% 109%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	11	64% 71%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	65% 72%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	74% 82%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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Federal ID #68-0140157

CHROMALAB, INC.

223

CHROMALAB FILE # 193004
ORDER # 10005

DOHS 1094

Chain of Custody

DATE 1/4/93 PAGE 1 OF 1

PROJ. MGR. BERN BAUMGARTNER
COMPANY CH2M HILL
ADDRESS 1111 BROADWAY
OAKLAND

SAMPLERS (SIGNATURE) Bern Baumgart (PHONE NO.) 251-2888 (X2118)

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
ES-SW-S	1/4/93	4 PM	SOIL						X																1
ES-SW-E	↓	↓	↓						↓																1
ES-BOT-S-OUT	↓	↓	↓						↓																1
DEL MONTE PL. 35 WEST PARCEL EXCAVATION																									

PROJECT INFORMATION

PROJECT NAME: WEST PARCEL EXCAV
PROJECT NUMBER: SF028830.BB.T1
P.O. #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	3
HEAD SPACE	—
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT: STANDARD 5-DAY | OVER NITE | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
FAX CofC TO BERN BAUMGARTNER 893-8205

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Bern Baumgart (TIME) 4PM	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) BERN BAUMGARTNER (DATE) 1/4/93	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) CH2M HILL	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	(LAB)

ATTACHMENT D

GET System Laboratory Reports

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 21, 1993 ChromaLab File No.: 0193098

CH2M HILL

Attn: Bern Baumgartner

RE: One water sample for BTEX analysis

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project Number:SFO28830.BB.T1
Date Sampled: Jan. 14, 1993 Date Submitted: Jan. 14, 1993
Date Analyzed: Jan. 21, 1993

RESULTS:

Sample I.D.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
SP-D	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	101%	101%	101%	101%
DUP SPIKE RECOVERY	103%	102%	105%	102%
DETECTION LIMIT	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	602	602	602	602

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 15, 1993 — ChromaLab File # 0193098

CH2M HILL — Attn: Bern Baumgartner

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project No: SFO28830.BB.T1
Date Sampled: Jan. 14, 1993 — Method of Analysis: EPA 601&602
Date Submitted: Jan. 14, 1993 — Matrix: Water
Date of Analysis: Jan. 15, 1993 — Reporting Limit: 0.5 µg/L
Sample I.D.: SP-A — Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMEHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	100% 102%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
BENZENE	N.D.	---
TRICHLOROETHENE	N.D.	100% 111%
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	N.D.	104% 111%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	120% 127%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	N.D.	---

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Laboratory Director

cc

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 15, 1993 — ChromaLab File # 0193098

CH2M HILL — Attn: Bern Baumgartner

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project No: SFO28830.BB.T1
Date Sampled: Jan. 14, 1993 — Method of Analysis: EPA 601&602
Date Submitted: Jan. 14, 1993 — Matrix: Water
Date of Analysis: Jan. 15, 1993 — Reporting Limit: 0.5 µg/L
Sample I.D.: SP-B — Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMEHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	100% 102%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
BENZENE	N.D.	---
TRICHLOROETHENE	N.D.	100% 111%
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	N.D.	104% 111%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	120% 127%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	N.D.	---

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 15, 1993 — ChromaLab File # 0193098

CH2M HILL — Attn: Bern Baumgartner

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project No: SFO28830.BB.T1
Date Sampled: Jan. 14, 1993 — Method of Analysis:EPA 601&602
Date Submitted: Jan. 14, 1993 — Matrix: Water
Date of Analysis: Jan. 15, 1993 — Reporting Limit: 0.5 µg/L
Sample I.D.: SP-C — Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMEHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	100% 102%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
BENZENE	N.D.	---
TRICHLOROETHENE	1.9	100% 111%
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	N.D.	104% 111%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
ETHYL BENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	120% 127%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---
TOTAL XYLENES	N.D.	---

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 21, 1993 — ChromaLab File # 0193098

CH2M HILL — Attn: Bern Baumgartner

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project No: SFO28830.BB.T1

Date Sampled: Jan. 14, 1993
Date Submitted: Jan. 14, 1993
Date of Analysis: Jan. 21, 1993
Sample I.D.: SP-D

Method of Analysis: EPA 601
Matrix: Water
Reporting Det. Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	94% 80%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	93% 93%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	95% 88%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	125% 119%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 20, 1993 ChromaLab File No.: 0193098

CH2M HILL

Attn: Bern Baumgartner

RE: Three water samples for Hg, As, Cu, Pb & Ni analysis

Project Name: PL. 35 - WEST PARCEL TRNT SYS.
Project Number: SFO28830.BB.T1
Date Sampled: Jan. 14, 1993 Date Submitted: Jan. 14, 1993
Date Analyzed: Jan. 18, 1993

RESULTS:

Sample I.D.	Mercury (mg/L)	Arsenic (mg/L)	Copper (mg/L)	Lead (mg/L)	Nickel (mg/L)
SP-A	N.D.	N.D.	N.D.	N.D.	N.D.
SP-B	N.D.	0.01	N.D.	N.D.	N.D.
SP-C	N.D.	0.006	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMIT	.003	0.005	0.005	0.01	0.01
METHOD OF ANALYSIS	3010/6010/7470				

ChromaLab, Inc.

Refaat A.Mankarious
Inorganic Supersvisor

Eric Tam
Laboratory Director

do

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Federal ID #68-0140157

CHROMALAB FILE # 193098
ORDER # 10129

CH2M HILL

CHAIN OF CUSTODY

PROJECT NUMBER: 502B830.BB.T1	PROJECT NAME: PL. 35 - WEST PARCEL TRMT SYS.
CLIENT NAME: CH2M HILL	
PROJECT MANAGER: BERN BAUMGARTNER	COPY TO:
REQUESTED COMP. DATE: 24 hr TAT	SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

CLIENT ADDRESS AND PHONE NUMBER: 251-2888 (x2118)

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	HALOCARBONS EPA 601	BTEX EPA 8020	METALS Pb, Cu, Ni, As, Hg	LAB ID	REMARKS
TRMT	1/14/93			X		SP-A	7	X	X	X		SAMPLE SP-D ONLY REQUIRES STANDARD T.A.T. (ie. 1 WEEK)
						SP-B	7	X	X	X		
						SP-C	7	X	X	X		Metals ANALYSIS ONLY REQUIRES STANDARD T.A.T.
						SP-D	6	X	X			

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

SAMPLED BY AND TITLE: Bern Baumgartner	DATE/TIME: 1/14/93 1430	RELINQUISHED BY: Bern Baumgartner	DATE/TIME: 1/14/93 1500
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB:	DATE/TIME: 1/14/93 1500	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____	AIR BILL#

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

REMARKS

ENTERED INTO LIMS _____ COC REVIEWED _____

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 25, 1993 ChromaLab File No.: 0193117

CH2M HILL

Attn: Baumgartner

RE: Four water samples for BTEX analysis

Project Name: PLANT 35 - WEST
Project Number:SFO28830.BB.T1
Date Sampled: Jan. 19, 1993 Date Submitted: Jan. 19, 1993
Date Analyzed:Jan. 22, 1993

RESULTS:

Sample I.D.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
SP-A	N.D.	N.D.	N.D.	N.D.
SP-B	N.D.	N.D.	N.D.	N.D.
SP-C	N.D.	N.D.	N.D.	N.D.
SP-D	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	93%	90%	93%	93%
DUP SPIKE RECOVERY	102%	102%	104%	103%
DETECTION LIMIT	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	602	602	602	602

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

do

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 26, 1993

ChromaLab File # 0193117 A

CH2M HILL

Attn: Baumgartner

Project Name: PLANT 35 - WEST
Date Sampled: Jan. 19, 1993
Date Submitted: Jan. 19, 1993
Date of Analysis: Jan. 25, 1993
Sample I.D.: SP-A

Project No: SFO28830.BB.T1
Method of Analysis: EPA 601
Matrix: Water
Reporting Det. Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	94% 92%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	103% 105%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	100% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	133% 133%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

do

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 26, 1993

ChromaLab File # 0193117 B

CH2M HILL

Attn: Baumgartner

Project Name: PLANT 35 - WEST
Date Sampled: Jan. 19, 1993
Date Submitted: Jan. 19, 1993
Date of Analysis: Jan. 25, 1993
Sample I.D.: SP-B

Project No: SFO28830.BB.T1
Method of Analysis: EPA 601
Matrix: Water
Reporting Det. Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	94% 92%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	103% 105%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	100% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	133% 133%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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Analytical Chemist

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Laboratory Director

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 26, 1993

ChromaLab File # 0193117 C

CH2M HILL

Attn: Baumgartner

Project Name: PLANT 35 - WEST
Date Sampled: Jan. 19, 1993
Date Submitted: Jan. 19, 1993
Date of Analysis: Jan. 25, 1993
Sample I.D.: SP-C

Project No: SFO28830.BB.T1
Method of Analysis: EPA 601
Matrix: Water
Reporting Det. Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	94% 92%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	3.4	103% 105%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	100% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	133% 133%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 26, 1993

ChromaLab File # 0193117 D

CH2M HILL

Attn: Baumgartner

Project Name: PLANT 35 - WEST
Date Sampled: Jan. 19, 1993
Date Submitted: Jan. 19, 1993
Date of Analysis: Jan. 25, 1993
Sample I.D.: SP-D

Project No: SFO28830.BB.T1
Method of Analysis: EPA 601
Matrix: Water
Reporting Det. Limit: 0.5 µg/L
Dilution Factor: None

COMPOUND NAME	µg/L	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	3.0	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	94% 92%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	2.0	---
1,2-DICHLOROETHENE (CIS)	35	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	6.1	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	620	103% 105%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	4.9	100% 106%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	133% 133%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

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CHROMALAB FILE # 193117
ORDER # 10148

CH2M HILL QUALITY ANALYTICS

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
SFO28830.BB.T1	PLANT 35 - WEST

CLIENT NAME: CH2M HILL

PROJECT MANAGER: BAUMGARTNER

COPY TO:

REQUESTED COMP. DATE: Std (1 wk)

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

CLIENT ADDRESS AND PHONE NUMBER: 251-2888 (x2118)

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	ANALYSES REQUESTED: BTEX (EPA 8020)	ANALYSES REQUESTED: HALO-CARBONS (EPA 601)	LAB ID
PL.35	1/19/93	1400				SP-A	6	X	X	
↓	↓	↓				SP-B	↓	X	X	
						SP-C		X	X	
						SP-D	↓	X	X	

FOR LAB USE ONLY

LAB#

LAB#

PROJECT NO.

ACK | VERIFIED

QUOTE# | BS

NO. OF SAMP | PG | OF

REMARKS

SAMPLED BY AND TITLE	DATE/TIME	RELINQUISHED BY	DATE/TIME
B Baumgartner	1/19/93 1400 hrs	B Baumgartner	1/19/93 1500 hrs
RECEIVED BY:	DATE/TIME (BB)	RELINQUISHED BY:	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB: R Howard	DATE/TIME 1-19-93 1500	SAMPLE SHIPPED VIA UPS BUS FED-EX (HAND) OTHER ____	AIR BILL#

HAZWRAP/NEESA Y N

QC LEVEL 1 2 3

COC | ICE

ANA REQ | TEMP

CUST SEAL | Ph

SAMPLE COND.

REMARKS

ENTERED INTO LIMS ____ COC REVIEWED ____

ATTACHMENT E

GET System Inspection Logs

Del Monte Plant #35

Date: 1/19/93

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	5.2 * ft.	1600 time	* below top of gravel
PW-2	5.2 * ft.	1600 time	

Monitoring Wells -

MW-7	6.40 ft.	1530 time
MW-9	9.425 ft.	1540 time
MW-10	6.92 ft.	1550 time
MW-11	7.12 ft.	1545 time

Total GET Effluent 17439 gal. 1600 time

Time req'd: 30 min

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 15 psi.

After bag filter: 15 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ____ No ✓

Were all valves opened after replacing the filter bag?

Yes ____ No ____ NA

Were pumps turned ON after replacing the filter bag?

Yes ____ No ____ NA

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No ✓

DECON

Del Monte Plant #35

Date: 1/19/93

If wet spots are noted, briefly describe location. N.A.

Was sampling performed? Yes ✓ No ____

If yes, please check from which sample port/s.

A ✓ B ✓ C ✓ D ✓

Time req'd: 10 min.

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. No maintenance required; system operating properly

Misc. Field Notes: No standing water in excavation pit. NEED TO PLACE SCREEN OVER TOP OF PW-1.

Name (printed): B. BAUMGARTNER Signature: B. Baumgartner

Start Time: 1500 hrs Finish Time: 1600 hrs

DECON

rev. 1/93

Del Monte Plant #35

Date: 1/27/93

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	9.37	ft.	18:05	time } to top of gate
PW-2	8.80	ft.	18:06	time }

Monitoring Wells -

MW-7	6.84	ft.	17.41	time
MW-9	9.98	ft.	17:56	time
MW-10	7.40	ft.	17:48	time
MW-11	7.71	ft.	18:03	time

65,625.0 → 7:20

Total GET Effluent 67 825.3 gal. 18:12 time

Time req'd: 30 m

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 10.5 psi.

After bag filter: 9.5 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ____ No ✓

Were all valves opened after replacing the filter bag?

Yes ____ No ____

Were pumps turned ON after replacing the filter bag?

Yes ____ No ____

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No ✓

DECON

Del Monte Plant #35

Date: 1/22/93

If wet spots are noted, briefly describe location. None

Was sampling performed? Yes ✓ No ____

If yes, please check from which sample port/s.

A ✓ B ✓ C ✓ D

Time req'd: 15 min

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. None performed

Misc. Field Notes:

Name (printed): Peter Sullivan Signature: Peter Sullivan

Start Time: 17:15 Finish Time: 18:15

DECON

rev. 1/93