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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
Environmental Engineer

cc: Mr. Rich Hiett/RWQCB
Mr. Stan Archacki/EBMUD
Mr. Ron Thibault/Del Monte
Mr. Thomas Bender/Del Monte
Mr. Lee Bosche/Del Monte
Mr. Bharat Shah/Del Monte
Mr. Mark Rosenquist/Del Monte
Mr. Joe Colbath/Kaiser
Mr. Ken Lewis/CH2M HILL

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INTRODUCTION

This report presents the quarterly groundwater monitoring analytical data 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

Quarterly groundwater monitoring was conducted on September 17, 1993. Monitoring wells MW-7, MW-9, MW-10 and MW-11 were sampled as part of the quarterly monitoring program. The monitoring well locations are shown on Figure 1 and the monitoring analytical results from this and previous monitoring events are summarized on Table 1. Applicable State of California Maximum Contaminant Levels (MCLs) are also included at the bottom of Table 1. The laboratory and sampling reports are contained in Attachment A. Water level measurements were collected from each well prior to sampling and are also included in Attachment A.

The groundwater monitoring results indicate a general decrease in concentration levels of chlorinated hydrocarbons in all monitoring wells (MW-7, SP-D, MW-9, MW-10, and MW-11) since the last quarterly sampling event (June 16, 1993). Monitoring well MW-10 did not contain detectable levels for any of the chlorinated hydrocarbon analytes. The sample taken from MW-11 was diluted by the laboratory, using a dilution factor of five, which accounts for the higher detection limits for that sample compared to the other samples analyzed.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Del Monte began construction of a GET system on January 11, 1993 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 until January 1994.

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 collects monthly water samples from the GET system sample ports. The samples are analyzed for chlorinated hydrocarbons and BTEX. The results of these analyses are summarized on Table 2 and the laboratory reports for these samples are included in Attachment B.

The results of the GET system sampling indicate that the GET system is effectively removing chlorinated hydrocarbons prior to discharge; EBMUD's discharge limitation for total chlorinated hydrocarbons is 500 μg/l. BTEX compounds have not been detected in any of the GET system samples collected.

According to the summerized analytical results in Table 2, TCE has been detected in the effluent stream of the first carbon canister (SP-B) in each sampling event since February 26, 1993 and in the effluent stream of the second carbon canister (SP-A) for the April 6, 1993 and May 4 1993 sample events. However, total chlorinated hydrocarbon concentrations in the GET system influent (SP-D) have never exceeded EBMUD's discharge limitations since start-up of the GET system on January 14, 1993. Therefore, the existing carbon canisters are currently not scheduled to be replaced.

The GET system has been operated continuously, without pulsing, since the last quarterly sampling event on June 16, 1993. Only minor shut downs of the system, for repair and maintenance activities, have occurred during the last three months. As of October 14, 1993, the GET system extracted and treated a total of 1,295,198 gallons of water at a rate of approximately 3.6 gallons per minute. GET system inspection logs since the last quarterly monitoring event are contained in Attachment C.

FUTURE ACTIVITIES

Based on the analytical results presented in Tables 1 and 2, Del Monte will continue sampling the monitoring wells on a quarterly basis, with the next sampling event scheduled for December 15, 1993, and analyzing the well samples for cholrinated hydrocarbons (EPA Method 601). The GET system will continue to be operated and sampled monthly in accordance with the Self-Monitoring Reporting Requirements (SMRRs) contained in the EBMUD Wastewater Discharge Permit (Account No. 045-25783). The next quarterly report is scheduled for completion by January 30, 1994.

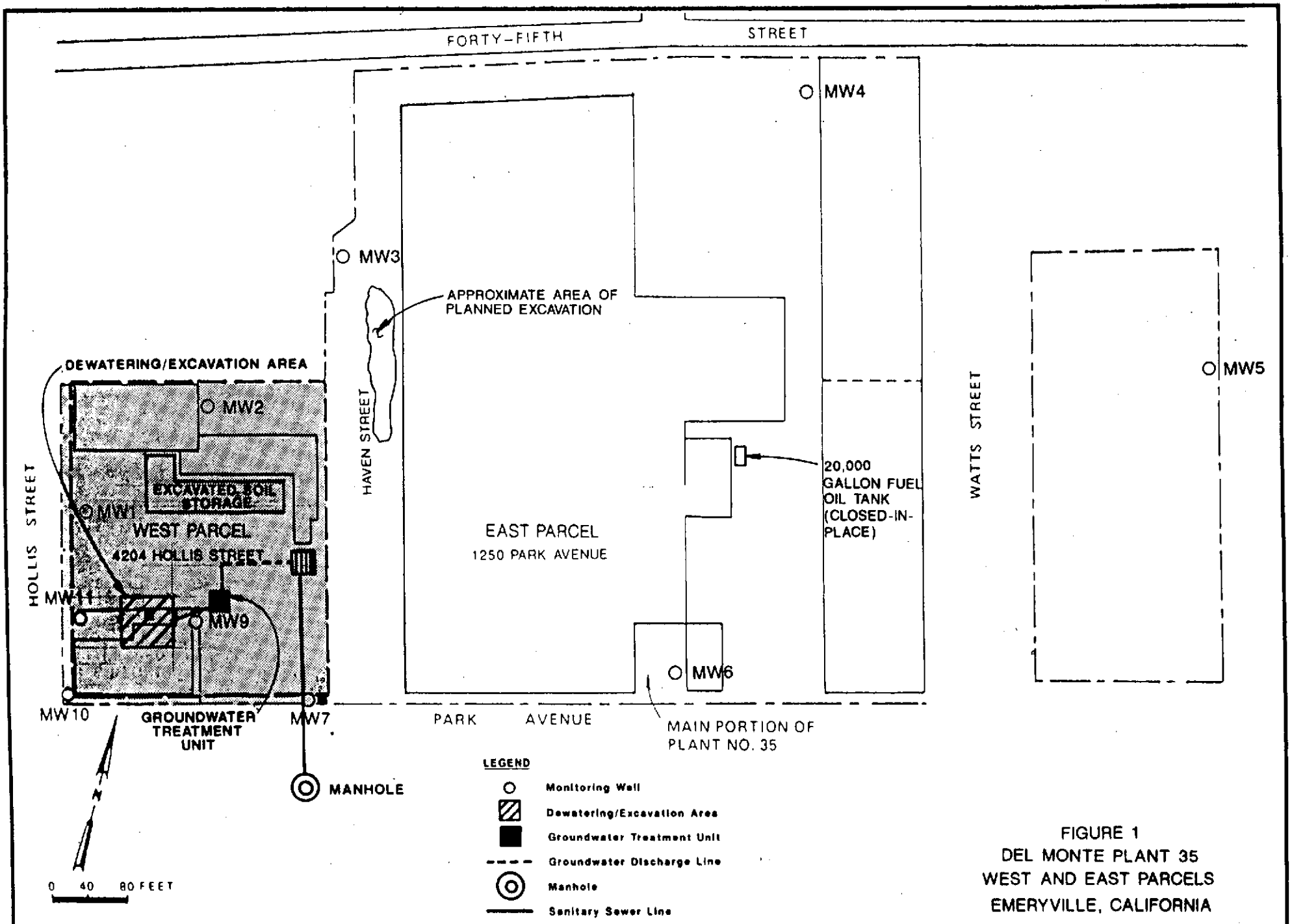

FIGURE 1
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE, CALIFORNIA

CH2M HILL

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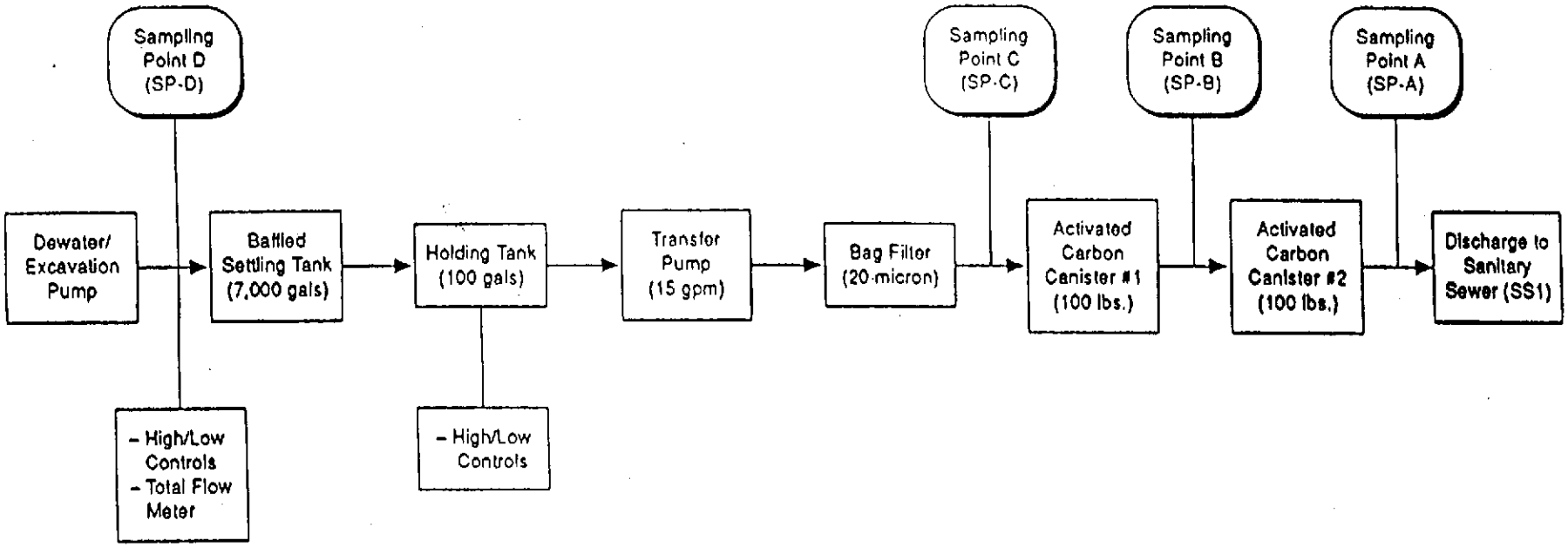

Figure a
DEL MONTE PLANT 35
GROUNDWATER TREATMENT UNIT

CH2M HILL

TABLE 1

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

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
MW7	30-Mar-93	65.0	<0.5	<0.5	31.0	22.0	2.5	<0.5
MW7	16-Jun-93	45.0	<2.0	<2.0	25.0	19.0	2.7	<2.0
MW7	17-Sep-93	1.6	<1.0	<1.0	17.0	12.0	<1.0	<1.0
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
MW8 (SP-D)	19-Jan-93	37.0	<0.5	<0.5	620.0	4.9	3.0	<0.5
MW8 (SP-D)	26-Feb-93	50.0	<0.5	<0.5	350.0	14.0	<0.5	<0.5
MW8 (SP-D)	11-Mar-93	44.9	<0.5	<0.5	130.0	25.0	<0.5	<0.5
MW8 (SP-D)	06-Apr-93	48.0	<1.0	<1.0	160.0	21.0	<1.0	<1.0
MW8 (SP-D)	04-May-93	29.0	<0.5	<0.5	89.0	14.0	<0.5	<0.5
MW8 (SP-D)	02-Jun-93	1.2	<1.0	<1.0	120.0	8.5	<1.0	<1.0
MW8 (Extr. Well)	16-Jun-93	66.8	<2.0	<2.0	86.0	31.0	1.4	<2.0
MW8 (SP-D)	16-Jun-93	62.0	<2.0	<2.0	102.0	24.0	<2.0	<2.0
MW8 (SP-D)	02-Sep-93	<1.0	<1.0	<1.0	83.0	11.0	<1.0	<1.0
MW8 (SP-D)	01-Oct-93	<1.0	<1.0	<1.0	41.0	10.0	<1.0	<1.0
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

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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)
MW9	13-Jan-93	22.0	<0.5	<0.5	7.9	17.0	1.4	<0.5
MW9	30-Mar-93	26.0	<0.5	<0.5	9.6	22.0	2.1	<0.5
MW9	16-Jun-93	41.5	<2.0	<2.0	12.0	27.0	6.8	<2.0
MW9	17-Sep-93	1.6	<1.0	<1.0	11.0	21.0	3.5	<1.0
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
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
MW10	30-Mar-93	26.0	<0.5	<0.5	15.0	18.0	0.7	<0.5
MW10	16-Jun-93	3.2	<2.0	<2.0	2.7	4.7	<2.0	<2.0
MW10	17-Sep-93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<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
MW11	30-Mar-93	17.0	<0.5	<0.5	55.0	10.0	1.6	5.1
MW11	16-Jun-93	41.5	<2.0	6.3	230.0	20.0	7.0	7.2
MW11	17-Sep-93	<5.0	<5.0	<5.0	230.0	<5.0	<5.0	<5.0
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) 1,2-Dichloroethene*
(b) 1,1-Dichloroethene
(c) 1,2-Dichloroethane
(d) Trichloroethene
(e) Tetrachloroethene
(f) Vinyl chloride
(g) 1,2-Dichloropropane
(*) For EPA 624 the concentration listed is the sum of cis and trans 1,2-Dichloroethene where for EPA 601 the concentration listed is only trans-1,2-Dichloroethene.

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TABLE 2

GROUNDWATER TREATMENT SYSTEM MONITORING RESULTS
DEL MONTE PLANT 35
4204 HOLLIS STREET, EMERYVILLE CA

Sample Port	Date	Concentrations (ug/l) B	T	E	X	PCE	TCE	VC	1,2-DCE
SP-A	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A*	19-Jan-93	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.6	< 1.0	< 0.6
SP-A	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A*	22-Mar-93	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.6	< 1.0	< 0.6
SP-A	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9
SP-A	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.1
SP-A	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0
SP-A	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0
SP-A	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0
SP-A	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0
SP-B	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	5.9	< 0.5	< 0.5	< 0.5
SP-B	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	27
SP-B	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	16	<0.5	39
SP-B	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	5.5	< 1.0	< 1.0
SP-B	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	12	< 1.0	< 1.0
SP-B	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	42	< 1.0	< 1.0
SP-B	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	36	< 1.0	< 1.0
SP-C	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5
SP-C	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.4	< 0.5	< 0.5
SP-C	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	6.6	250	< 0.5	19
SP-C	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	12	220	< 0.5	36
SP-C	11-Mar-93	NA	NA	NA	NA	17	100	< 0.5	37
SP-C	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	13	130	< 1.0	34
SP-C	04-May-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	02-Jun-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	29-Jul-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	02-Sep-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	01-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-D	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-D	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	4.9	620	3.0	37
SP-D	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	14	350	< 0.5	50
SP-D	11-Mar-93	NA	NA	NA	NA	25	130	< 0.5	44.9
SP-D	06-Apr-93	NA	NA	NA	NA	21	160	< 1.0	48
SP-D	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	14	89	< 0.5	29
SP-D	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	8.5	130	< 1.0	1.2
SP-D	16-Jun-93	< 2.0	< 2.0	< 2.0	< 2.0	24	102	< 2.0	62
SP-D	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	7.2	60	< 1.0	< 1.0
SP-D	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	11	83	< 1.0	< 1.0
SP-D	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	10	41	< 1.0	< 1.0

(NA) Not Analyzed
(*) Sample collected by East Bay Municipal Utility District
B - benzene, T - toluene, E - ethylbenzene, X - xylenes
(PCE) perchloroethylene
(TCE) trichloroethylene
(VC) vinyl chloride
(1,2-DCE) 1,2-Dichloroethylene (Total)

Filename: getsdata.xls

ATTACHMENT A

Monitoring Well Laboratory and Sampling Reports

Del Monte Plant 35
Groundwater Monitoring Field Data
September 17, 1993

Well	DTW	Bore Volume	3 Bore Volumes	Gallons Purged	uS	TDS	pH	Temp C
MW-10	5.58	2.4	7.1	3	815	407	7.34	20.2
				5	799	398	7.15	19.7
				7.5	792	413	7.13	19.7
MW-7	8.00	2.0	5.9	3	739	373	6.94	20.6
				4	727	363	7.05	20.9
				6	722	362	7.23	21.1
MW-9	11.50	1.4	4.2	1	792	390	6.79	22.3
				2	765	380	7.18	21.6
				4.5	769	382	7.14	21.9
MW-11	9.12	1.8	5.3	2	857	429	6.82	24.1
				4	837	420	6.88	21.9
				6	850	423	7.00	21.1

Engineers
Planners
Economists
Scientists

September 30, 1993

SFO28830.A2.ZZ

Mr. Ken Lewis
CH2M HILL
1111 Broadway, Suite 1000
Oakland, CA 94607-4046

RE: Analytical Data for Groundwater Monitoring, LRD Lab Reference No. 36730

Dear Mr. Lewis:

On September 18, 1993, the CH2M HILL Redding Laboratory (LRD) received five samples with a request for analysis of selected organic parameters.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analyses of this sample are discussed in the case narratives.

Under CH2M HILL policy, your samples will be stored for up to 30 days after reporting. If you have not given us prior instructions for disposal, we will contact you if any samples require disposal as hazardous waste.

CH2M HILL Laboratories appreciate your business and look forward to serving your analytical needs again. If you should have any questions concerning the data, or if you need additional information, please call our Client Services Representatives, Mr. Mark Cichy or Ms. Mary Paschke, at (916) 244-5227.

Sincerely,

Peggy A. Norton
Senior Data Package Specialist

Enclosures

TABLE OF CONTENTS

CH2M HILL Laboratory Reference No. 36730

CH2M HILL Quality Analytical Laboratory

5090 Caterpillar Road, Redding, California 96003-1412

916.244.5227
FAX 916.244.4109

ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for, but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B This flag is used when the analyte is found in the associated blank, as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantification.

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the sample ID for organic analyses are defined below:

DL -- Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and reanalyzed. Both results are reported.

R -- Rerun. The sample was reanalyzed. The "R" is not used if the sample was also re-extracted.

RX -- Re-extraction Analysis. The sample was re-extracted and reanalyzed.

RD -- Diluted Rerun. The sample was re-extracted and a dilution was also required.

MS -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

CH2M HILL Quality Analytical Laboratory *5090 Caterpillar Road, Redding, California 96003-1412* *916.244.5227 FAX 916.244.4109*

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Laboratory Reference No. 36730

Client Sample ID	LRD Lab Sample ID
MW-10	36730001
MW-07	36730002
MW-09	36730003
TB	36730K04
MW-11	36730005

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR HALOCARBONS

LABORATORY : CH2M HILL LABORATORIES
CLIENT : DEL MONTE Groundwater Monitoring

CASE NO. : N/A
CONTRACT NO.: N/A

LAB REF. NO.: 36730
SDG NO. : N/A

I. RECEIPT

A. Date: September 18, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36730001	MW-10	WATER	09/17/93	N/A	09/23/93
36730002	MW-07	WATER	09/17/93	N/A	09/23/93
36730003	MW-09	WATER	09/17/93	N/A	09/23/93
36730005	MW-11	WATER	09/17/93	N/A	09/24/93
36730005-DL	MW-11_DL	WATER	09/17/93	N/A	09/23/93
36730K04	TB	WATER	09/17/93	N/A	09/24/93
WBLK1-9/23	METHOD BLANK	WATER	N/A	N/A	09/23/93
WBLK1-9/24	METHOD BLANK	WATER	N/A	N/A	09/24/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : Due to the concentration of target compounds, sample 36730005 (MW-11) was re-analyzed on a 1:5 dilution in order to obtain a detector response within the linear calibration range of the instrument. The results of both analyses are included for your information. Reporting limits have been adjusted accordingly.

IV. QUALITY CONTROL

A. Method Blank : The associated method blanks met acceptable QC criteria.

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

BL

B. Surrogate Recoveries : All met acceptable QC limits.

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers 9-29-93
Brian Geers **Date**
Manager, Organics Division

000002

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/17/93
Project:	DEL MONTE Groundwater Monitoring	Lab Sample ID:	36730001	Date Received:	09/18/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/23/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	Marty Medina			Date Reported:	09/28/93

Client Sample ID/Description: MW-10

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	U	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	U	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		99	% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Gallo

FORM I

000003

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	**Laboratory:**	CH2M Hill/LRD	**Date Sampled:**	09/17/93
Project:	DEL MONTE Groundwater Monitoring	**Lab Sample ID:**	36730002	**Date Received:**	09/18/93
Proj No:	N/A	**% Moisture:**	N/A	**Date Extracted:**	N/A
Method:	EPA 601(MOD)	**Dilution Factor:**	1	**Date Analyzed:**	09/23/93
Matrix:	Water	**Instrument ID:**	VARIAN-3600	**Analyst:**	C.D.
Sampler:	Marty Medina			**Date Reported:**	09/28/93

Client Sample ID/Description: MW-07

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	1.6		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	17		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	12		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		102		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Gross

FORM I

000004

jrl.002

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/17/93
Project:	DEL MONTE Groundwater Monitoring	Lab Sample ID:	36730003	Date Received:	09/18/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/23/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	Marty Medina			Date Reported:	09/28/93

Client Sample ID/Description: MW-09

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	3.5		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	1.6		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	11		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	21		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		100		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Gold

FORM I

000005

jrl.002

CH2M HILL Quality Analytical Laboratory *5090 Caterpillar Road, Redding, California 96003-1412* *916.244.5227 FAX 916.244.4109*

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/17/93
Project:	DEL MONTE Groundwater Monitoring	Lab Sample ID:	36730005	Date Received:	09/18/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/23/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	Marty Medina			Date Reported:	09/28/93

Client Sample ID/Description: MW-11

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	4.7	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	1.7	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	1.5	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	4.6	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	210 E	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	8.2	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		102	% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Heath

FORM I

000006

jrl.002

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/17/93
Project:	DEL MONTE Groundwater Monitoring	Lab Sample ID:	36730005-DL	Date Received:	09/18/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	5	Date Analyzed:	09/24/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	Marty Medina			Date Reported:	09/28/93

Client Sample ID/Description: MW-11_DL

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	5.0	U		ug/L
74-83-9	Bromomethane	5.0	U		ug/L
75-71-8	Dichlorodifluoromethane	5.0	U		ug/L
75-01-4	Vinyl chloride	5.0	U		ug/L
75-00-3	Chloroethane	5.0	U		ug/L
75-09-2	Dichloromethane	25	U		ug/L
75-69-4	Trichlorofluoromethane	5.0	U		ug/L
75-35-4	1,1-Dichloroethene	5.0	U		ug/L
75-34-3	1,1-Dichloroethane	5.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	5.0	U		ug/L
67-66-3	Chloroform	5.0	U		ug/L
107-06-2	1,2-Dichloroethane	5.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	5.0	U		ug/L
56-23-5	Carbon tetrachloride	5.0	U		ug/L
75-27-4	Bromodichloromethane	5.0	U		ug/L
78-87-5	1,2-Dichloropropane	5.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	5.0	U		ug/L
79-01-6	Trichloroethene	5.0	230 D		ug/L
124-48-1	Dibromochloromethane	5.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	5.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	5.0	U		ug/L
75-25-2	Bromoform	5.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U		ug/L
127-18-4	Tetrachloroethene	5.0	U		ug/L
108-90-7	Chlorobenzene	5.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	5.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	5.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	5.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		104		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Ellis

FORM I

000007

jrl.002

Report of Analytical Data - Halocarbons

Client:	CH2M HILL/SFO	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/17/93
Project:	DEL MONTE Groundwater Monitoring	Lab Sample ID:	36730K04	Date Received:	09/18/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/24/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	Marty Medina			Date Reported:	09/28/93

Client Sample ID/Description: TB

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		90		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Hass

FORM I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	N/A	Laboratory:	CH2M Hill/LRD	Date Sampled:	N/A
Project:	N/A	Lab Sample ID:	WBLK1-9/23	Date Received:	N/A
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/23/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	N/A			Date Reported:	09/28/93

Client Sample ID/Description: METHOD BLANK

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		102		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Wells

FORM I

jrl.002

000009

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	N/A	Laboratory:	CH2M Hill/LRD	Date Sampled:	N/A
Project:	N/A	Lab Sample ID:	WBLK1-9/24	Date Received:	N/A
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/24/93
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	C.D.
Sampler:	N/A			Date Reported:	09/28/93

Client Sample ID/Description: METHOD BLANK

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		91		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: Brian Ellis

FORM I

000010

jrl.002

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CH2M HILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: SF008830.A2.ZZ

Purchase Order #:

Project Name: GROUNDWATER MONITORING

Company Name/CH2M HILL Office: DEL MONTE / SFO

Project Manager & Phone #: Mr. [X] Ms. [ ] Dr. [ ] KEN LEWIS

Report Copy to: —

Requested Completion Date: 2 WEEKS STANDARD

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

Sample Disposal: Dispose [ ] Return [ ]

LAB TEST CODES

ANALYSES REQUESTED

OF CONTAINERS: 601

SHADED AREA -- FOR LAB USE ONLY

Lab 1 #: 36730 | Lab 2 #:

Quote # | Kit Request #

Project #

No. of Samples | Page | of

COC Rev | Login | LIMS Ver | Ack Gen

REMARKS | LAB 1 ID | LAB 2 ID

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	ANALYSES REQUESTED	LAB 1 ID	LAB 2 ID
9/17/93	1120		✓	✓		MW-10	4	34	1	
	1230		✓	✓		MW-07	4	34	2	
	1330		✓	✓		MW-09	4	34	3	
			✓	✓		TB	3	3	K04	
	1430		✓	✓		MW-11	4	34	5	

Sampled By & Title: Matt Medina (Please sign and print name) MATT MEDINA — Date/Time: 9/17/93 1600

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

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

Received By: Nicole LaVoie (Please sign and print name) — Date/Time: 9/18/93 0800

Work Authorized By (Please sign and print name)

Relinquished By: Matt Medina (Please sign and print name) MATT MEDINA — Date/Time: 9/17/93 1830

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

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

Shipped Via: UPS (BUS) Fed-Ex Hand Other —

Shipping #: 119 888 656 8.

HAZWRAP/NESSA: Y N

QC Level: (1) 2 3 Other: —

COC Rec Y | ICE Y

Ana Req Y | TEMP 3°C

Cust Seal Y | Ph 52

Remarks

Instructions and Agreement Provisions on Reverse Side [redacted] TRIB [redacted] ORIG [redacted] LAB, [redacted] - LAB [redacted] - Clie [redacted]

ATTACHMENT B

GET System Laboratory Reports

CH2M HILL
Engineers
Planners
Economists
Scientists

August 20, 1993

LRD34817.XY

Mr. Peter Schoen
Decon Environmental Services
23490 Connecticut Street
Hayward, CA 94545

RE: Analytical Data for Del Monte Plant 35, LRD Lab Reference No. 36409

Dear Mr. Schoen:

On July 30, 1993, the CH2M HILL Redding Laboratory (LRD) received three samples with a request for analysis of selected organic parameters.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analyses of this sample are discussed in the case narratives.

Under CH2M HILL policy, your samples will be stored for up to 30 days after reporting. If you have not given us prior instructions for disposal, we will contact you if any samples require disposal as hazardous waste.

CH2M HILL Laboratories appreciate your business and look forward to serving your analytical needs again. If you should have any questions concerning the data, or if you need additional information, please call our Client Services Representatives, Mr. Mark Cichy or Ms. Mary Paschke, at (916) 244-5227.

Sincerely,

Peggy A. Norton
Senior Data Package Specialist

Enclosures

cc: Mr. Bern Baumgartner/SFO

TABLE OF CONTENTS

CH2M HILL Laboratory Reference No. 36409

CH2M HILL Quality Analytical Laboratory

5090 Caterpillar Road, Redding, California 96003-1412

916.244.5227
FAX 916.244.4109

ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for, but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B This flag is used when the analyte is found in the associated blank, as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantification.

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the sample ID for organic analyses are defined below:

DL -- Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and reanalyzed. Both results are reported.

R -- Rerun. The sample was reanalyzed. The "R" is not used if the sample was also re-extracted.

RX -- Re-extraction Analysis. The sample was re-extracted and reanalyzed.

RD -- Diluted Rerun. The sample was re-extracted and a dilution was also required.

MS -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Laboratory Reference No. 36409

Client Sample ID	LRD Lab Sample ID
SP-A	36409001
SP-B	36409002
SP-D	36409003

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR HALOCARBONS

LABORATORY : CH2M HILL LABORATORIES
CLIENT : DECON ENVIRONMENTAL Del Monte Plant #35

CASE NO. : N/A
CONTRACT NO.: N/A

LAB REF. NO.: 36409
SDG NO. : N/A

I. RECEIPT

A. Date: July 30, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36409001	SP-A	WATER	07/29/93	N/A	08/09/93
36409002	SP-B	WATER	07/29/93	N/A	08/09/93
36409003	SP-D	WATER	07/29/93	N/A	08/09/93
WBLK1-8/09	METHOD BLANK	WATER	N/A	N/A	08/09/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

B. Surrogate Recoveries : All met acceptable QC limits.

000001

CH2M HILL Quality Analytical Laboratory *5090 Caterpillar Road, Redding, California 96003-1412* *916.244.5227 FAX 916.244.4109*

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers (for Brian Geers) 8/19/93
Brian Geers — Date
Manager, Organics Division

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	07/29/93
Project:	Del Monte Plant #35	Lab Sample ID:	36409001	Date Received:	07/30/93
Proj No:	N/A	% Moisture:	100.0	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	08/09/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	J.W.
Sampler:	Peter Schoen			Date Reported:	08/16/93

Client Sample ID/Description: SP-A

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		119		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: _____

FORM I

000003

kdh.004

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

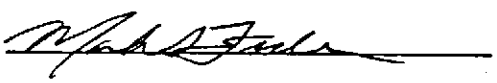
Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	07/29/93
Project:	Del Monte Plant #35	Lab Sample ID:	36409002	Date Received:	07/30/93
Proj No:	N/A	% Moisture:	100.0	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	08/09/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	J.W.
Sampler:	Peter Schoen			Date Reported:	08/16/93

Client Sample ID/Description: SP-B

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	12		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		110		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: 

FORM I

000004

kdh.004

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	07/29/93
Project:	Del Monte Plant #35	Lab Sample ID:	36409003	Date Received:	07/30/93
Proj No:	N/A	% Moisture:	100.0	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	08/09/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	J.W.
Sampler:	Peter Schoen			Date Reported:	08/16/93

Client Sample ID/Description: SP-D

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	60		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	7.2		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		117		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by:

FORM I

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	N/A	Laboratory:	CH2M Hill/LRD	Date Sampled:	N/A
Project:	N/A	Lab Sample ID:	WBLK1-8/09	Date Received:	N/A
Proj No:	N/A	% Moisture:	100.0	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	08/09/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	J.W.
Sampler:	N/A			Date Reported:	08/16/93

Client Sample ID/Description: METHOD BLANK

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	U	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	U	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		101	% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: 

FORM I

kdh.004

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR
8020(MOD) - TBME & BTEX

LABORATORY :	CH2M HILL LABORATORIES	**CLIENT** :	DECON ENVIRONMENTAL Del Monte Plant 35
CASE NO. :	N/A	**CONTRACT NO.**:	N/A
LAB REF. NO.:	36409	**SDG NO.** :	N/A

I. RECEIPT

A. Date: July 30, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36409001	SP-A	WATER	07/29/93	N/A	08/05/93
36409002	SP-B	WATER	07/29/93	N/A	08/05/93
36409002-R	SP-B_R	WATER	07/29/93	N/A	08/05/93
36409003	SP-D	WATER	07/29/93	N/A	08/05/93
36409003-R	SP-D_R	WATER	07/29/93	N/A	08/05/93
WBLK1-8/05	METHOD BLANK	WATER	N/A	N/A	08/05/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed, therefore holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

CH2M HILL Quality Analytical Laboratory
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FAX 916.244.4109

B. Surrogate Recoveries : Surrogate recovery for the surrogate standard Fluorobenzene was outside laboratory control limits for the initial analysis of samples 36409002 (SP-B) and 36409003 (SP-D). The samples were re-analyzed and similar surrogate recovery was obtained indicating a possible matrix effect. The results of both analyses are included for your information.

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers — Date 8/19/93
Manager, Organics Division

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-A

Sample Matrix: WATER
Dilution Factor: 1

Reference No: 36409001

Date Sampled: 07-29-93
Date Received: 07-30-93
Date Extracted: N/A
Date Analyzed: 08-05-93

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	1.2	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		93	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: _____

FORM I

000009

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-B

Reference No: 36409002

Date Sampled: 07-29-93
Date Received: 07-30-93
Date Extracted: N/A
Date Analyzed: 08-05-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	9.8	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		44 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

kdh.004
CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-B_R

Reference No: 36409002-R

Date Sampled: 07-29-93
Date Received: 07-30-93
Date Extracted: N/A
Date Analyzed: 08-05-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result		Units
tert-Butyl methyl ether	0.50	8.9		ug/L
Benzene	0.50	U		ug/L
Toluene	0.50	U		ug/L
Ethyl Benzene	0.50	U		ug/L
Total Xylenes	0.50	U		ug/L
Surrogate (SS)		39	#	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

000011

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-D

Reference No: 36409003

Date Sampled: 07-29-93
Date Received: 07-30-93
Date Extracted: N/A
Date Analyzed: 08-05-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	6.2	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L

Surrogate (SS)		56 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

000012

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-D_R

Reference No: 36409003-R

Date Sampled: 07-29-93
Date Received: 07-30-93
Date Extracted: N/A
Date Analyzed: 08-05-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	5.9	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		67 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

000013

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Sample Matrix: WATER
Dilution Factor: 1

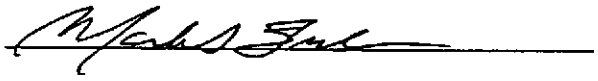
Reference No: WBLK1-8/05
Date Analyzed: 08-05-93

Compound	Reporting Limit	Method Blank Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		93	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: 

FORM I

000014

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CH2M HILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: Q.T.C.

Purchase Order #: 29944

Project Name: BEL MONTE PLANT 39 — BECON # 942

Company Name/CH2M HILL Office: BECON ENVIRONMENTAL

Project Manager & Phone #: Mr. [x] Ms. [ ] PETER SCHOEN

Report Copy to: PETER SCHOEN / BECON; KERN BAUMGARTNER / HILL SF

Requested Completion Date: STD TAT

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☒ Return ☒ NTI NTS

LAB TEST CODES

SHADED AREA – FOR LAB USE ONLY

Lab 1 #: 36409 | Lab 2 #: | Quote #: | Kit Request #: | Project #: | No. of Samples: | Page: | of: | COC Rev: | Login: | LIMS Ver: | Ack Gen:

ANALYSES REQUESTED

Sampling Date	Sampling Time	Type: COMP	Type: GRAB	Matrix: WATER	Matrix: SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	REMARKS	LAB 1 ID	LAB 2 ID
7-29-93	6:57	x		x		SP-A	3					x		1	
	6:58	x		x		SP-A	3	x	x	x	x			1	
	7:01	x		x		SP-B	3					x		2	
	7:03	x		x		SP-B	3	x	x	x	x			2	
	7:05	x		x		SP-D	3					x		3	
	7:07	x		x		SP-D	3	x	x	x	x			3	

Sampled By & Title (Please sign and print name): P. Schoen P. SCHOEN — Date/Time: 7-29-93

Relinquished By (Please sign and print name): P. Schoen P. SCHOEN — Date/Time: 7-29-93 / [illegible]

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

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

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

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

Received By (Please sign and print name): [signature] 7-30-93 — Date/Time: 3:45

Shipped Via: (UPS) BUS Fed-Ex Hand Other ____

Shipping #: 184-716

HAZWRAP/NESSA: Y N

QC Level: (1) 2 3 Other:

COC Rec: Y | ICE: Y

Ana Req: Y | TEMP: 10°C

Cust Seal: Y | Ph: <2

Work Authorized By (Please sign and print name):

Remarks:

Instructions and Agreement Provisions on Reverse Side

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

000015

CH2M HILL SAMPLE RECEIPT EXCEPTION REPORT DELMONTE #39

Sample Batch Number 36409 Client/Project DECON ENVIRONMENTAL

		Comments:
	1. No custody seal as required by project.	
	2. No chain-of-custody provided.	
	3. Analysis, description, date of collection not provided.	
	4. Samples broken or leaking on receipt.	
X	5. Temperature of samples inappropriate for analysis requested.	10. C
	6. Container inappropriate for analysis requested.	
	7. Inadequate sample volume.	
	8. Preservation inappropriate for analysis requested.	
	9. Samples received out of holding time or analysis requested.	
	10. Discrepancies between COC form and container labels.	
	11. Other	

Corrective Actions Taken:

Notified by FAX of sample temp on receipt. Will proceed w/analysis unless otherwise ~~notified~~ instructed by client.

Notified: [illegible] By: Ronnie [illegible] 7-30-93 1100

[illegible] Peter Schaeve [illegible] Sample Custody Supervisor

Division Mgr/Supervisor

QA/QC [illegible]

Client Services

000016

Copy To:
SC
Ray
Crystal
mary

ANALYSIS CHANGE ORDER

Route To:
Cli Srv
LIMS
Acct
COC File

Sample No(s): 36409

Filled Out By: C Barba

Filled Out Date: 8/11/93

Requested By: ↓

Requested Date: ↓

Manager Approval
Org[ ] Inorg[ ] CliSrv[ ]
CB 8/11/93 (init/date)

Client/Project: Decon Environmental

Detailed Description of Change: Change project name from Del Monte Plant #39 to Del Monte Plant 35 per Bern Baumgartner / SFO

Reason for Change: COC filled out incorrectly by client. Samples (SP-A, SP-B, SP-D) come from plant 35. Logged-in as entered on COC

LIS DEPARTMENT USE ONLY

Action Taken/Comments: Changed project name - added comment

Rcvd by LIMS: dlk 8/11 (init/date) Entered LIMS: dlk 8/11 (init/date)

CLIENT SERVICES USE ONLY

Init/Date CB 8/11/93 Include ACO in data pkg: Yes [ ] No [ ]

Action Taken/Comments: ACO to change project name to Del Monte Plant 35

Client Contact: Bern Baumgartner Client Phone SFO x2118

Client Contacted: 8/11/93 By: C Barba

ACCOUNTING USE ONLY

Action Taken/Comments:

Adjustment Entered: (init/date) Billing Month:

Form:F9201A(AG)

ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for, but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B This flag is used when the analyte is found in the associated blank, as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantification.

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the sample ID for organic analyses are defined below:

DL -- Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and reanalyzed. Both results are reported.

R -- Rerun. The sample was reanalyzed. The "R" is not used if the sample was also re-extracted.

RX -- Re-extraction Analysis. The sample was re-extracted and reanalyzed.

RD -- Diluted Rerun. The sample was re-extracted and a dilution was also required.

MS -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

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5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Laboratory Reference No. 36637

Client Sample ID	LRD Lab Sample ID
SP-A	36637001
SP-B	36637002
SP-D	36637003

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR HALOCARBONS

LABORATORY :	CH2M HILL LABORATORIES	**CLIENT** :	DECON ENVIRONMENTAL Del Monte Plant 35
CASE NO. :	N/A	**CONTRACT NO.**:	N/A
LAB REF. NO.:	36637	**SDG NO.** :	N/A

I. RECEIPT

A. Date: September 3, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36637001	SP-A	WATER	09/02/93	N/A	09/08/93
36637002	SP-B	WATER	09/02/93	N/A	09/08/93
36637003	SP-D	WATER	09/02/93	N/A	09/08/93
WBLK1-9/08	METHOD BLANK	WATER	N/A	N/A	09/08/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

B. Surrogate Recoveries : All met acceptable QC limits.

CH2M HILL Quality Analytical Laboratory

5090 Caterpillar Road, Redding, California 96003-1412

916.244.5227
FAX 916.244.4109

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers (for Brian Geers) 9/20/93
Brian Geers Date
Manager, Organics Division

000002

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

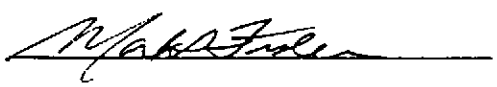
Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/02/93
Project:	Del Monte Plant 35	Lab Sample ID:	36637001	Date Received:	09/03/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/08/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	C.D.
Sampler:	Peter Schoen			Date Reported:	09/17/93

Client Sample ID/Description: SP-A

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	U	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	U	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		96	% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: 

FORM I

kdh.005

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/02/93
Project:	Del Monte Plant 35	Lab Sample ID:	36637002	Date Received:	09/03/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/08/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	C.D.
Sampler:	Peter Schoen			Date Reported:	09/17/93

Client Sample ID/Description: SP-B

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	42		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		99		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: _____

FORM I

000004

kdh.005

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	09/02/93
Project:	Del Monte Plant 35	Lab Sample ID:	36637003	Date Received:	09/03/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/08/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	C.D.
Sampler:	Peter Schoen			Date Reported:	09/17/93

Client Sample ID/Description: SP-D

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	83	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	11	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		103	% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: [signature]

FORM I

kdh.005

000005

Client:	N/A	Laboratory:	CH2M Hill/LRD	Date Sampled:	N/A
Project:	N/A	Lab Sample ID:	WBLK1-9/08	Date Received:	N/A
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	09/08/93
Matrix:	Water	Instrument ID:	GC-3600	Analyst:	C.D.
Sampler:	N/A			Date Reported:	09/17/93

Client Sample ID/Description: METHOD BLANK

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		91		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: _____

FORM I

000006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR
8020(MOD) - TBME & BTEX

LABORATORY : CH2M HILL LABORATORIES

CLIENT : DECON ENVIRONMENTAL
Del Monte Plant 35

CASE NO. : N/A

CONTRACT NO.: N/A

LAB REF. NO.: 36637

SDG NO. : N/A

I. RECEIPT

A. Date: September 3, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36637001	SP-A	WATER	09/02/93	N/A	09/08/93
36637002	SP-B	WATER	09/02/93	N/A	09/08/93
36637002-R	SP-B_R	WATER	09/02/93	N/A	09/08/93
36637003	SP-D	WATER	09/02/93	N/A	09/08/93
36637003-R	SP-D_R	WATER	09/02/93	N/A	09/08/93
WBLK1-9/08	METHOD BLANK	WATER	N/A	N/A	09/08/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed, therefore holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

CH2M HILL Quality Analytical Laboratory

5090 Caterpillar Road, Redding, California 96003-1412

916.244.5227
FAX 916.244.4109

B. Surrogate Recoveries : Surrogate recovery for the surrogate standard Fluorobenzene was outside laboratory control limits for the initial analysis of samples 36637002 (SP-B) and 36637003 (SP-D). The samples were re-analyzed and similar surrogate recovery was obtained indicating a possible matrix effect. The results of both analyses are included for your information.

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers (for Brian Geers) 9/22/93
Brian Geers Date
Manager, Organics Division

000008

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-A

Sample Matrix: WATER
Dilution Factor: 1

Reference No: 36637001

Date Sampled: 09-02-93
Date Received: 09-03-93
Date Extracted: N/A
Date Analyzed: 09-08-93

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		96	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: Mark D Foster

FORM I

kdh.006
CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-B

Sample Matrix: WATER
Dilution Factor: 1

Reference No: 36637002

Date Sampled: 09-02-93
Date Received: 09-03-93
Date Extracted: N/A
Date Analyzed: 09-08-93

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	4.9	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		42 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

000010

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-B_R

Reference No: 36637002-R

Date Sampled: 09-02-93
Date Received: 09-03-93
Date Extracted: N/A
Date Analyzed: 09-08-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result		Units
tert-Butyl methyl ether	0.50	5.2		ug/L
Benzene	0.50	U		ug/L
Toluene	0.50	U		ug/L
Ethyl Benzene	0.50	U		ug/L
Total Xylenes	0.50	U		ug/L
Surrogate (SS)		43	#	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

000011

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-D

Reference No: 36637003

Date Sampled: 09-02-93
Date Received: 09-03-93
Date Extracted: N/A
Date Analyzed: 09-08-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	7.0	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L

Surrogate (SS)	39 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

kdh.006

000012

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-D_R

Reference No: 36637003-R

Date Sampled: 09-02-93
Date Received: 09-03-93
Date Extracted: N/A
Date Analyzed: 09-08-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	6.9	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L

Surrogate (SS)	41 #	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments: # = Surrogate outside laboratory control limits.

Approved By: _____

FORM I

kdh.006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Sample Matrix: WATER
Dilution Factor: 1

Reference No: WBLK1-9/08
Date Analyzed: 09-08-93

Compound	Reporting Limit	Method Blank Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		85	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: 

FORM I

000014

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CH2M HILL
QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #:

Purchase Order #: 41107

Project Name: DEL MONTE PLANT 35 — DECON # 943

Company Name/CH2M HILL Office: DECON ENVIRONMENTAL

Project Manager & Phone #: Mr. PETER SCHOEN

Report Copy to: P. SCHOEN / DECON; B. BAUMGARTNER / HILL

Requested Completion Date: STD TAT

Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Sample Disposal: Dispose ☒ NH; Return ☒ HAZ

SHADED AREA FOR LAB USE ONLY: Lab 1 # [illegible]; Lab 2 #; Quote #; Kit Request #; Project #; No. of Samples; Page ___ of ___; COC Rev.; Login; LIMS Ver; Ack Gen

LAB TEST CODES

ANALYSES REQUESTED

Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	EPA 601	BENZENE D.L. 0.5 µg/L	TOLUENE D.L. 0.5 µg/L	ETHYL BENZENE D.L. 0.5 µg/L	XYLENES D.L. 0.5 µg/L	REMARKS	LAB 1 ID	LAB 2 ID
9-2-93	6:20	X		X		S P - A	3		X	X	X	X		[illegible]	
	6:22	X		X		S P - A	3	X							
	6:25	X		X		S P - B	3		X	X	X	X			
	6:27	X		X		S P - B	3	X							
	6:30	X		X		S P - D	3		X	X	X	X			
	6:32	X		X		S P - D	3	X							

Sampled By & Title (Please sign and print name): [signature] P. SCHOEN — Date/Time: 9-2-93 / 7:25

Relinquished By (Please sign and print name): [signature] P. SCHOEN — Date/Time: 9-2-93 / 7:30

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

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

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

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

Received By (Please sign and print name): [signature] 9-3-93 — Date/Time: 0930

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

HAZWRAP/NESSA; QC Level; COC Rec; ICE; Ana Req; TEMP; Cust Seal; Ph

Work Authorized By (Please sign and print name):

Remarks:

Instructions and Agreement Provisions on Reverse Side

000015

Engineers
Planners
Economists
Scientists

October 12, 1993

LRD34817.XY

Mr. Peter Schoen
Decon Environmental Services
23490 Connecticut Street
Hayward, CA 94545

RE: Analytical Data for Del Monte Plant 35, LRD Lab Reference No. 36810

Dear Mr. Schoen:

On October 2, 1993, the CH2M HILL Redding Laboratory (LRD) received three samples with a request for analysis of selected organic parameters.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analyses of this sample are discussed in the case narratives.

Under CH2M HILL policy, your samples will be stored for up to 30 days after reporting. If you have not given us prior instructions for disposal, we will contact you if any samples require disposal as hazardous waste.

CH2M HILL Laboratories appreciate your business and look forward to serving your analytical needs again. If you should have any questions concerning the data, or if you need additional information, please call our Client Services Representatives, Mr. Mark Cichy or Mr. Vito D'Aurora at (916) 244-5227.

Sincerely,

Peggy A. Norton

Peggy A. Norton
Senior Data Package Specialist

Enclosures

cc: Bern Baumgartner/SFO

TABLE OF CONTENTS

CH2M HILL Laboratory Reference No. 36810

ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for, but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B This flag is used when the analyte is found in the associated blank, as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantification.

CH2M HILL Quality Analytical Laboratory *5090 Caterpillar Road, Redding, California 96003-1412* *916.244.5227 FAX 916.244.4109*

SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the sample ID for organic analyses are defined below:

DL -- Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and reanalyzed. Both results are reported.

R -- Rerun. The sample was reanalyzed. The "R" is not used if the sample was also re-extracted.

RX -- Re-extraction Analysis. The sample was re-extracted and reanalyzed.

RD -- Diluted Rerun. The sample was re-extracted and a dilution was also required.

MS -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Laboratory Reference No. 36810

Client Sample ID	LRD Lab Sample ID
SP-A	36810001
SP-B	36810002
SP-D	36810003

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR
8020(MOD) - TBME & BTEX

LABORATORY : CH2M HILL LABORATORIES

CLIENT : DECON ENVIRONMENTAL
Del Monte Plant 35

CASE NO. : N/A

CONTRACT NO.: N/A

LAB REF. NO.: 36810

SDG NO. : N/A

I. RECEIPT

A. Date: October 2, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36810001	SP-A	WATER	10/01/93	N/A	10/06/93
36810002	SP-B	WATER	10/01/93	N/A	10/06/93
36810003	SP-D	WATER	10/01/93	N/A	10/06/93
WBLK1-10/06	METHOD BLANK	WATER	N/A	N/A	10/06/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed, therefore holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

B. Surrogate Recoveries : All met acceptable QC criteria.

000001

kdh.006

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers — Date
Manager, Organics Division

kdh.006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-A

Reference No: 36810001

Date Sampled: 10-01-93
Date Received: 10-02-93
Date Extracted: N/A
Date Analyzed: 10-06-93

Sample Matrix: WATER
Dilution Factor: 1

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		93	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: [signature]

FORM I

000003

kdh.006

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-B

Sample Matrix: WATER
Dilution Factor: 1

Reference No: 36810002

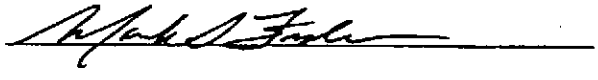
Date Sampled: 10-01-93
Date Received: 10-02-93
Date Extracted: N/A
Date Analyzed: 10-06-93

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		89	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: 

FORM I

000004

kdh.006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Client: DECON ENVIRONMENTAL
Client Sample ID: SP-D

Sample Matrix: WATER
Dilution Factor: 1

Reference No: 36810003

Date Sampled: 10-01-93
Date Received: 10-02-93
Date Extracted: N/A
Date Analyzed: 10-06-93

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		93	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: _____

FORM I

kdh.006

000005

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

METHOD: 8020(MOD)
TBME & BTEX

Sample Matrix: WATER
Dilution Factor: 1

Reference No: WBLK1-10/06
Date Analyzed: 10-06-93

Compound	Reporting Limit	Method Blank Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
Surrogate (SS)		94	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: _____

FORM I

000006

kdh.006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

CASE NARRATIVE FOR
HALOCARBONS

LABORATORY	: CH2M HILL LABORATORIES	**CLIENT**	: DECON ENVIRONMENTAL Del Monte Plant 35
CASE NO.	: N/A	**CONTRACT NO.:**	N/A
LAB REF. NO.:	36810	**SDG NO.**	: N/A

I. RECEIPT

A. Date: October 2, 1993

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
36810001	SP-A	WATER	10/01/93	N/A	10/06/93
36810002	SP-B	WATER	10/01/93	N/A	10/06/93
36810003	SP-D	WATER	10/01/93	N/A	10/06/93
WBLK1-10/06	METHOD BLANK	WATER	N/A	N/A	10/06/93

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met acceptable QC criteria.

B. Surrogate Recoveries : All met acceptable QC limits.

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Mark D Frahm for Brian Geers 10/6/93

Brian Geers Date
Manager, Organics Division

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	10/01/93
Project:	Del Monte Plant 35	Lab Sample ID:	36810001	Date Received:	10/02/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	10/06/93
Matrix:	Water	Instrument ID:	GC-3700	Analyst:	C.D.
Sampler:	Peter Schoen			Date Reported:	10/11/93

Client Sample ID/Description: SP-A

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		99		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: _____

FORM I

000009

kdh.006

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

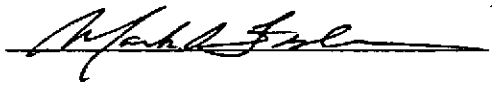
Client:	DECON ENVIRONMENTAL	Laboratory:	CH2M Hill/LRD	Date Sampled:	10/01/93
Project:	Del Monte Plant 35	Lab Sample ID:	36810002	Date Received:	10/02/93
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	10/06/93
Matrix:	Water	Instrument ID:	GC-3700	Analyst:	C.D.
Sampler:	Peter Schoen			Date Reported:	10/11/93

Client Sample ID/Description: SP-B

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	36		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		108		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: 

FORM I

kdh.006

000010

CH2M HILL Quality Analytical Laboratory
5090 Caterpillar Road, Redding, California 96003-1412
916.244.5227
FAX 916.244.4109

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	**Laboratory:**	CH2M Hill/LRD	**Date Sampled:**	10/01/93
Project:	Del Monte Plant 35	**Lab Sample ID:**	36810003	**Date Received:**	10/02/93
Proj No:	N/A	**% Moisture:**	N/A	**Date Extracted:**	N/A
Method:	EPA 601(MOD)	**Dilution Factor:**	1	**Date Analyzed:**	10/06/93
Matrix:	Water	**Instrument ID:**	GC-3700	**Analyst:**	C.D.
Sampler:	Peter Schoen			**Date Reported:**	10/11/93

Client Sample ID/Description: SP-D

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	41		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	10		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		103		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: 

FORM I

000011

kdh.006

CH2M HILL Quality Analytical Laboratory *5090 Caterpillar Road, Redding, California 96003-1412* *916.244.5227 FAX 916.244.4109*

Report of Analytical Data - Halocarbons

Client:	N/A	**Laboratory:**	CH2M Hill/LRD	**Date Sampled:**	N/A
Project:	N/A	**Lab Sample ID:**	WBLK1-10/06	**Date Received:**	N/A
Proj No:	N/A	**% Moisture:**	N/A	**Date Extracted:**	N/A
Method:	EPA 601(MOD)	**Dilution Factor:**	1	**Date Analyzed:**	10/06/93
Matrix:	Water	**Instrument ID:**	GC-3700	**Analyst:**	C.D.
Sampler:	N/A			**Date Reported:**	10/11/93

Client Sample ID/Description: METHOD BLANK

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		92		% rec

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Reviewed by: _____

FORM I

kdh.006

000012

CH2M HILL
QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #	Purchase Order #
Project Name: DEL MONTE PLANT 39	
Company Name/CH2M HILL Office: BECON ENVIRONMENTAL	
Project Manager & Phone #: Mr. / Ms. / Dr. P. SCHOEN 513/932-6446	Report Copy to: P. SCHOEN / BECON; B. BAUMGARTNER / HILL SPO
Requested Completion Date: STD TAT	Sampling Requirements: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____
Sample Disposal: Dispose ☒ Return ☒	

 # OF CONTAINERS | **LAB TEST CODES** | **ANALYSES REQUESTED**

SHADED AREA – FOR LAB USE ONLY: Lab 1 # 30910 [redacted]

Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	EPA 601	BENZENE D.L. 2.5 µg/L	TOLUENE D.L. 2.5 µg/L	ETHYL BENZENE D.L. 2.5 µg/L	TOLUENE D.L. 2.5 µg/L	REMARKS
10.1.93	6:43	X		X		S P - A	3	X					VOA pH<2
	6:41	X		X		S P - A	3		X	X	X	X	
	6:45	X		X		S P - B	3	X					
	6:47	X		X		S P - B	3		X	X	X	X	
	6:50	X		X		S P - D	3	X					
	6:52	X		X		S P - D	3		X	X	X	X	

[redacted]

Sampled By & Title (Please sign and print name): P. SCHOEN, PROJ. MGR	Date/Time: 10.1.93	Relinquished By (Please sign and print name): P. SCHOEN	Date/Time: 10.1.93/1400
Received By (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
Received By (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
Received By (Please sign and print name): Nichole Rivera	Date/Time: 10/2/93 1130	Shipped Via: (UPS) BUS Fed-Ex Hand Other____	Shipping #: 984-716
Work Authorized By (Please sign and print name)	Remarks		

HAZWRAP/NESSA [redacted] QC Level: (1) [redacted] COC Rec [redacted] Ana Req [redacted] Cust Seal [redacted]

Instructions and Agreement Provisions on Reverse Side [redacted] DISTRIBUTION: ORIGINAL - LAB, Yellow - Lab, Pink - Client [redacted]

C00013

Copy To:

Vito

ANALYSIS CHANGE ORDER

Route To:
Cli Srv
LIMS
Acct
COC File

Sample No (s): 36810

Filled Out By: JDD

Filled Out Date: 10/7/93

Requested By: Client

Requested Date: 10/6/93

Manager Approval
Org ( ) Inorg ( ) CliSrv (✓)
JDD 10/7/93
init/date

Client/Project: DeCon Environmental

Detailed Description of Change: (1) Change Project name to: Del Monte Plant #35

(2) Change JDD

Reason for Change: Client called, wrong point of COC.

LIS DEPARTMENT USE ONLY

Action Taken/Comments: changed project name + entered comment

Rcvd by LIMS: _____ (init/date) Entered LIMS: YLH 10/7 (init/date)

CLIENT SERVICES USE ONLY

Init/Date JDD 10/7/93 Include ACO in data pkg: Yes (✓) No ( )

Action Taken/Comments: _____

Client Contact: Peter Schove Client Phone: 510-732-6444

Client Contacted: 10/6/93 By: Mark Lichy

ACCOUNTING USE ONLY

Action Taken/Comments: _____

Adjustment Entered: _____ (init/date) Billing Month: _____

000011

Form: F9201A.ACO

ATTACHMENT C

GET System Inspection Logs

Del Monte Plant #35

Date: 8-11-93

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 _____ ft. _____ time

PW-2 _____ ft. _____ time

Monitoring Wells -

MW-7 _____ ft. _____ time

MW-9 _____ ft. _____ time

MW-10 _____ ft. _____ time

MW-11 _____ ft. _____ time

Total GET Effluent 996728 gal. 11:22 time

Time req'd: _____

GET System:

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

Before bag filter: 15 psi.

After bag filter: 13 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: 8-11-93

If wet spots are noted, briefly describe location._____

_____

Was sampling performed? Yes ____ No ✓

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

A_____ B_____ C_____ D_____

Time req'd: _____

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

_____

_____

_____

Misc. Field Notes:_____

_____

_____

_____

_____

_____

Name (printed): Mark Rosenquist Signature: Mark Rosenquist

Start Time: 11:20 Finish Time: 11:30

DECON

Del Monte Plant #35 Date: 8.20.93

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	18.18	ft.	6:06 time
PW-2	9.32	ft.	6:07 time

Monitoring Wells -

MW-7	7.89	ft.	5:58 time
MW-9	11.41	ft.	6:02 time
MW-10	8.50	ft.	6:01 time
MW-11	9.9	ft.	6:04 time

Total GET Effluent 1043058.0 gal. 6:08 time

Time req'd: 20 min.

GET System:

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

Before bag filter: 16 psi.

After bag filter: 14 psi.

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

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 X

DECON

Del Monte Plant #35 Date: 1-20-93

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ___ No X

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

A_____ B_____ C_____ D_____

Time req'd: 5 min.

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

_____

_____

_____

Misc. Field Notes: _____

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_____

Name (printed): P. SCHOEN Signature: P. Sch

Start Time: 6:00 Finish Time: 6:45

DECON

Del Monte Plant #35

Date: 8-23-93

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 _____ ft. _____ time

PW-2 _____ ft. _____ time

Monitoring Wells -

MW-7 _____ ft. _____ time

MW-9 _____ ft. _____ time

MW-10 _____ ft. _____ time

MW-11 _____ ft. _____ time

Total GET Effluent 1056312 gal. 9:50 time

Time req'd: _____

GET System:

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

Before bag filter: 16 psi.

After bag filter: 13 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: 8-23-93

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ___ No ✓

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

A_____ B_____ C_____ D_____

Time req'd: _____

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. NO

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Misc. Field Notes: _____

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Name (printed): Mark Rosepoist Signature: Mark Rosepoist

Start Time: 9:50 Finish Time: 10:05

DECON

Del Monte Plant #35

Date: 8-30-93

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	_____	ft.	_____ time
PW-2	_____	ft.	_____ time

Monitoring Wells -

MW-7	_____	ft.	_____ time
MW-9	_____	ft.	_____ time
MW-10	_____	ft.	_____ time
MW-11	_____	ft.	_____ time

Total GET Effluent 109,1055 gal. _____ time

Time req'd: 10:37

GET System:

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

Before bag filter: 16 psi.

After bag filter: 13 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: 8-30-93

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ____ No ✓

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

A_____ B_____ C_____ D_____

Time req'd: _____

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. NO

_____

_____

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Misc. Field Notes: _____

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Name (printed): Mark Roscnquist Signature: Mark Roscnquist

Start Time: 10:30 Finish Time: 10:40

DECON

Del Monte Plant #35 Date: 9.2.93

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	10.20	ft.	6:17	time
PW-2	9.34	ft.	6:18	time

Monitoring Wells -

MW-7	7.95	ft.	6:08	time
MW-9	11.44	ft.	6.12	time
MW-10	8.54	ft.	6:11	time
MW-11	9.12	ft.	6:15	time

Total GET Effluent 1,104,966.6 gal. 6:19 time

Time req'd: 20 min

GET System:

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

Before bag filter: 17 psi.

After bag filter: 13 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: 9.2.93

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes X No ____

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

A X B X C ____ D X

Time req'd: 30 min

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

_____

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Misc. Field Notes: _____

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Name (printed): P. SCHOEN Signature: P. Sch

Start Time: 6:00 Finish Time: 7:00

DECON

Del Monte Plant #35 Date: 9.14.93

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	10.20	ft.	11:56	time
PW-2	9.58	ft.	11:57	time

Monitoring Wells -

MW-7	7.91	ft.	11:47	time
MW-9	11.46	ft.	11:52	time
MW-10	7.56	ft.	11:50	time
MW-11	9.13	ft.	11:54	time

Total GET Effluent 1,165,678.4 gal. 11:40 time

Time req'd: 20 min.

GET System:

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

Before bag filter: 20 psi.

After bag filter: 14 psi.

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

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 K

DECON

Del Monte Plant #35 Date: 4-14-93

If wet spots are noted, briefly describe location. _____

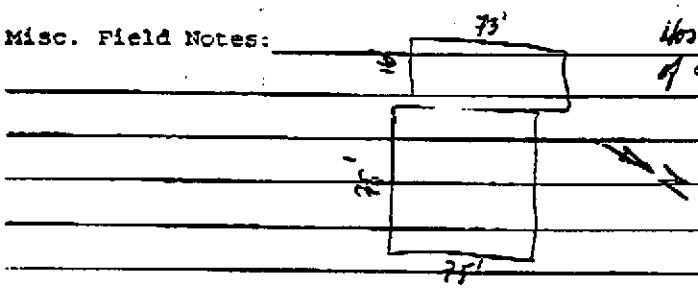
Was sampling performed? Yes ___ No ok

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. _____

Misc. Field Notes: 

Hoses on act. carbon vessels showing signs of cracking. Need replacement.
Soil pile measurements

Name (printed): PETER SCHOON Signature: Pete Sch

Start Time: 11:10 Finish Time: 12:00

DECON

rev. 1/93

Del Monte Plant #35 Date: 9-22-93

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 1210 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

EW-1	_____ ft.	_____ time
EW-2	_____ ft.	_____ time

Monitoring Wells -

MW-7	_____ ft.	_____ time
MW-9	_____ ft.	_____ time
MW-10	_____ ft.	_____ time
MW-11	_____ ft.	_____ time

Total GET Effluent 1203361 gal. 9:52 time

Time req'd: _____

GET System:

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

Before bag filter: 18 psi.

After bag filter: 8 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 ____ NA

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

DECON

Rev. 1/93

Del Monte Plant #35 Date: 9-22-93

If wet spots are noted, briefly describe location. No

Was sampling performed? Yes ___ No V

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

A_____ B_____ C_____ D_____

Time req'd: _____

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

Misc. Field Notes: _____

Name (printed): Mark Rosenquist Signature: Mark Rosenquist

Start Time: 9 45 Finish Time: 10:00

DECON

Del Monte Plant #35

Date: 10.1.93

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	9.86	ft.	16:24	time
PW-2	9.01	ft.	16:25	time

Monitoring Wells -

MW-7	8.04	ft.	16:17	time
MW-9	11.52	ft.	16:21	time
MW-10	8.59	ft.	16:19	time
MW-11	9.15	ft.	16:22	time

Total GET Effluent 1,246,760.0 gal. 16:26 time

Time req'd: 15 min

GET System:

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

Before bag filter: 12 psi.

After bag filter: 12 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes X 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: 10.1.93

If wet spots are noted, briefly describe location. no

Was sampling performed? Yes ∝ No ____

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

A ∝ B ∝ C ____ D ∝

Time req'd: 1 hr.

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. Each act. carbon vessel was backflushed w/ ~50 gal. of water. The hoses from the filter to the discharge pipe were replaced w/ new hose. The pressure gauge on the influent side of the bag filter was replaced w/ same. The bag filter was exchanged.

Misc. Field Notes: ____

Name (printed): P. SCHOEN Signature: P. Sch

Start Time: 14:00 Finish Time: 16:30

DECON

Del Monte Plant #35

Date: 10.7.93

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 _____ ft. _____ time

PW-2 _____ ft. _____ time

Monitoring Wells -

MW-7 _____ ft. _____ time

MW-9 _____ ft. _____ time

MW-10 _____ ft. _____ time

MW-11 _____ ft. _____ time

Total GET Effluent 1275 242.0 gal. 18:30 time

Time req'd: 5 min

GET System:

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

Before bag filter: 13 psi.

After bag filter: 14 psi.

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

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 X

DECON

Del Monte Plant #35 Date: 10.7.93

If wet spots are noted, briefly describe location._____

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._____

Misc. Field Notes: GET shutdown for weekend to add algaecide to transfer/purge tank. Will restart GET 10/11/93 am.

Name (printed): P. SCHOEN Signature: P. Schoen

Start Time: 18:10 Finish Time: 18:30

DECON

Del Monte Plant #35

Date: 10/14/93

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	_____ ft.	_____ time
PW-2	_____ ft.	_____ time

Monitoring Wells -

MW-7	_____ ft.	_____ time
MW-9	_____ ft.	_____ time
MW-10	_____ ft.	_____ time
MW-11	_____ ft.	_____ time

Total GET Effluent 1295198 gal. 18:03 time

Time req'd: 5 min

GET System:

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

Before bag filter: 15 psi.

After bag filter: 14 psi.

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

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 X

DECON

Del Monte Plant #35 Date: 10/14/93

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ____ No X

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

A_____ B_____ C_____ D_____

Time req'd: 10 hr

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

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Misc. Field Notes: _____

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Name (printed): P. SCHOEN Signature: P. Sch

Start Time: 17:45 Finish Time: 18:05

DECON

rev. 1/93