



ENVIRONMENTAL
PROTECTION
95 APR 14 PM 2:36

April 12, 1995

BAE28830.P4.ZZ

Mr. Brian Oliva
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

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

Subject: Results of Past Shut Off/Start Ups of West Parcel GET System
Del Monte Plant 35, Emeryville, CA

As I mentioned at the March 30, 1995 meeting regarding Del Monte Plant 35, in the past, the GET system has been turned off for a period of time and then on again, primarily for maintenance and permitting reasons. Following is a summary of those events and the groundwater monitoring results.

1. From December 10, 1993 to March 7, 1994 (approximately three months), the GET system did not operate because the EBMUD discharge permit renewal was pending and because the electrical power to the treatment system was disrupted and required repair. Results of groundwater monitoring before, during, and after the shut-down period are shown on the attached table and labeled with the number 1. Concentrations of chlorinated hydrocarbons did not increase after the system was restarted, and, in fact, decreased in all of the wells monitored.
2. From December 15, 1994 to January 12, 1995 (approximately one month), the GET system did not operate because of a pump failure and subsequent repair required. Groundwater monitoring was conducted about two months before the system shut off (October 17, 1994), two weeks after the system stopped operating (December 29, 1994), and about two months after the system started up again (March 9, 1995). Results of groundwater monitoring are shown on the attached table and labeled with the number 2. Concentrations of chlorinated hydrocarbons detected after the system was restarted were lower than those

Mr. Brian Oliva
Mr. Sum Arigala
Page 2
April 12, 1995

detected before the system shut off in three of the four wells monitored. In the fourth well, MW-12, concentrations increased over this time period. The cause of the increase is not apparent.

3. During the second quarter of GET system operation, the system was operated in a pulse pumping mode with two weeks on followed by two weeks off. The purpose of the pulse pumping was to see if this method was more effective in removing the chemicals of concern than continuously running the system; the purpose was not to assess the occurrence of rebounding. Quarterly groundwater samples and monthly treatment system samples were collected. Groundwater samples collected before and after the quarter (March 30, 1993 and June 16, 1993) indicated decreases in concentrations in one well (MW-10), no significant change in two wells (MW-7 and MW-9), and an increase in one well (MW-11). Results are shown on the attached table and labeled with the number 3. The monthly monitoring results of the influent to the treatment system during the time period are shown on the attached figure and the table [MW-8 (SP-D)]. The decrease in concentrations indicated is consistent with the decrease that had occurred the previous and following quarters.

In the above instances of GET system shut off and start up, no apparent "rebound" of chemical concentrations were observed

Please feel free to call me at (510) 251-2888 ext 2189 if you have any questions.

Sincerely,

CH2M HILL



Madeline Wall
Project Manager

c: Ms. Susan Hugo/ACDEH
Mr. Mark Zemelman/Kaiser
Mr. David Harnish/ENVIRON
Mr. Steve Ronzone/Del Monte
Mr. Thomas Bender/The Bender Partnership
Mr. Zachary Wasserman/Kennedy and Wasserman

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

Monitoring Well	Sampling Date	Concentration (µg/L)						
		1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCR(d)	PCB(e)	VC(f)	1,2-DF(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 (t)	<1.0	<1.0	17.0	12.0	<1.0	<1.0
MW7	21-Dec-93	20.3	<0.5	<0.5	17.0	20.0	1.9	<0.5
MW7	14-Feb-94	18.0	<0.5	<0.5	13.0	11.0	0.7	<0.5
MW7	11-Apr-94	13.0	<0.5	<0.5	12.0	10.0	<1.0	<0.5
MW7	15-Jul-94	18.8	<0.5	<0.5	13.0	11.0	<0.50	<0.5
MW7	17-Oct-94	18.2	<0.5	<0.5	11.0	10.0	<0.50	<0.5
MW7	29-Dec-94	<1.0 (t)	<1.0	<1.0	4.4	3.8	<1.0	<1.0
MW7	09-Mar-95	<1.0 (t)	<1.0	<1.0	8.4	6.8	<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 (t)	<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 (t)	<1.0	<1.0	83.0	11.0	<1.0	<1.0
MW8 (SP-D)	01-Oct-93	<1.0 (t)	<1.0	<1.0	41.0	10.0	<1.0	<1.0
MW8 (SP-D)	05-Nov-93	<1.0 (t)	<1.0	<1.0	56.0	11.0	<1.0	<1.0
MW8 (SP-D)	02-Dec-93	<1.0 (t)	<1.0	<1.0	68.0	11.0	<1.0	<1.0
MW8 (SP-D)	09-Mar-94	<1.0 (t)	<1.0	<1.0	130.0	4.4	<1.0	<1.0
MW8 (SP-D)	16-Jun-94	<1.0 (t)	<1.0	<1.0	37.0	13.0	<1.0	<1.0
MW8 (SP-D)	17-Oct-94	<1.0 (t)	<1.0	<1.0	2.5	2.5	<1.0	<1.0
MW8 (SP-D)	06-Dec-94	<1.0 (t)	<1.0	<1.0	5.5	1.4	<1.0	<1.0
MW8 (SP-D)	09-Mar-95	<1.0 (t)	<1.0	<1.0	16.0	3.4	<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

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)	VOC(f)	1,2-DBP(g)
MW9	10-Jul-90	3.0	<0.2	<0.5	9.0	43.0	10.0	<0.5
MW9	17-Oct-90	70.0	<0.5	<0.5	14.0	32.0	4.6	<0.5
MW9	24-Jan-91	70.0	<2.0	<2.0	220.0	23.0	<2.0	<2.0
MW9	17-Apr-91	44.0	<0.5	<0.5	12.0	26.0	<0.5	<0.5
MW9	31-Jul-91	55.0	<0.5	<0.5	14.0	32.0	2.3	<0.5
MW9	22-Oct-91	71.0	<0.5	<0.5	15.0	33.0	2.8	<0.5
MW9	23-Jan-92	64.0	<0.5	<0.5	10.0	27.0	2.1	<0.5
MW9	23-Apr-92	22.0	<0.5	<0.5	11.0	29.0	<0.5	<0.5
MW9	17-Jul-92	26.0	<0.5	<0.5	13.0	32.0	<0.5	<0.5
MW9	12-Oct-92	41.0	<0.5	<0.5	17.0	36.0	3.0	<0.5
MW9	13-Jan-93	22.0	<0.5	<0.5	7.9	17.0	1.4	<0.5
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 (t)	<1.0	<1.0	11.0	21.0	3.5	<1.0
MW9	21-Dec-93	34.5	<0.5	<0.5	16.0	34.0	5.9	<0.5
MW9	14-Feb-94	30.8	<0.5	<0.5	11.0	25.0	4.2	<0.5
MW9	11-Apr-94	18.0	<0.5	<0.5	9.0	18.0	1.6	<0.5
MW9	15-Jul-94	42.4	<0.5	<0.5	15.0	24.0	7.1	<0.5
MW9	17-Oct-94	35.6	<0.5	<0.5	14.0	24.0	2.2	<0.5
MW9	29-Dec-94	<1.0 (t)	<1.0	<1.0	3.5	8.5	<1.0	<1.0
MW9	09-Mar-95	<1.0 (t)	<1.0	<1.0	3.4	8.4	<1.0	<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 (t)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW10	21-Dec-93	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5
MW10	14-Feb-94	9.9	<0.5	<0.5	5.4	4.4	<0.5	<0.5
MW10	11-Apr-94	3.7	<0.5	<0.5	2.2	1.5	<1.0	<0.5
MW10	15-Jul-94	<0.5	<0.5	<0.5	1.0	1.0	<0.5	<0.5
MW10	17-Oct-94	20.6	<0.5	<0.5	37.0	19.0	<0.5	<0.5
MW10	29-Dec-94	<1.0 (t)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW10	09-Mar-95	1.7 (t)	<1.0	<1.0	13.0	9.8	<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

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

Monitoring Well	Sampling Date	Concentration (ng/L)						
		1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCB(d)	PCE(e)	VC(f)	1,2-DP(g)
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 (t)	<5.0	<5.0	230.0	<5.0	<5.0	<5.0
MW11	21-Dec-93	32.2	<0.5	2.8	220.0	14.0	6.1	<0.5
MW11	14-Feb-94	11.8	<0.5	2.0	52.0	5.6	1.5	2.6
MW11	11-Apr-94	10.0	<0.5	<0.5	57.0	4.9	<1.0	2.7
MW11	27-Jun-94	<0.5	<0.5	<0.5	110.0	12.0	<0.5	<0.5
MW-11 (SP-E)	30-Sep-94	<1.0 (t)	<1.0	<1.0	2.6	2.8	<1.0	<1.0
MW-11 (SP-E)	06-Dec-94	<1.0 (t)	<1.0	<1.0	4.2	1.8	<1.0	<1.0
MW-11 (SP-E)	09-Mar-95	<1.0 (t)	<1.0	<1.0	2.3	1.1	<1.0	<1.0
MW12	02-Mar-94	35.3	<0.5	<0.5	170.0	16.0	6.8	<0.5
MW12	11-Apr-94	25.0	<0.5	<0.5	100.0	13.0	<1.0	<0.5
MW12	15-Jul-94	31.9	<0.5	<0.5	82.0	19.0	4.2	<0.5
MW12	17-Oct-94	<0.5	<0.5	<0.5	1.1	0.9	<0.5	<0.5
MW12	29-Dec-94	<1.0 (t)	<1.0	<1.0	28.0	11.0	<1.0	<1.0
MW12	09-Mar-95	<1.0 (t)	<1.0	<1.0	64.0	16.0	<1.0	<1.0
Primary MCL		---	6	0.5	5	5	0.5	5
(a) 1,2-Dichloroethene	(c) 1,2-Dichloroethane	(e) Tetrachloroethene	(g) 1,2-Dichloropropane					
(b) 1,1-Dichloroethene	(d) Trichloroethene	(f) Vinyl chloride	(t) trans-1,2-Dichloroethene					

Figure 3 - TCE Concentrations in Groundwater
(Monitoring Well MW-8/Sample Port SP-D)

