

SUBJECT: HTW – BCT Meeting

June 12, 2008

9:00 a.m.

Check (✓)	Name	Organization	Phone	E-mail address
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SUBJECT: HTW - BCT Meeting**June 12, 2008****9:00 a.m.**

Check (✓)	Name	Organization	Phone	E-mail address
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HTW BCT Meeting

June 12, 2008

Item	Action	Comment
OU1 Groundwater Remediation	Status Update	HGL
OU1 Off-Site	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
Other Groundwater Issues	Status Update	Quarterly sampling
OUCTP Pilot Study and RD/RA Work Plan	Status Update	
OU2 Landfill Gas	Status Update	
Basewide Range Assessment	Status Update	Seaside Risk Assessment, No Action Approval Memos, HA 161 IA Memo
Site 39 Proposed Plan and ROD	Status Update	
Site 3 Post Remediation Monitoring	Status Update	
FFA Schedule	Status Update	
FOST/FOSET Issues	Status Update	
Calendar Update	Update	

Thermal Treatment Unit
Operation Summary
2007/2008

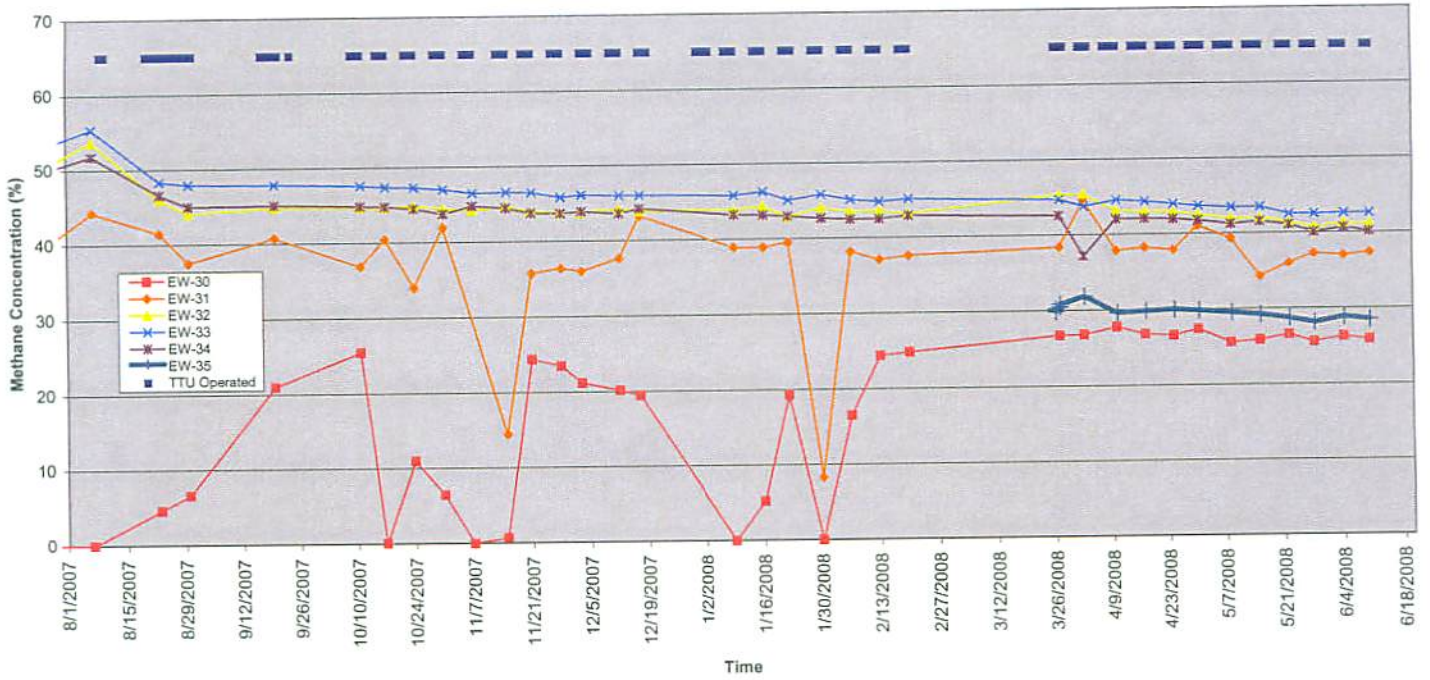
Start Date/Time:	1/1/2007
Last Reading Date/Time:	6/4/2008 16:00
Total Hours (2007):	8760
Total Hours Operated (2007):	4035.4
% Operation (2007):	48.7%
Total Hours (2008):	3736
Total Hours Operated (2008):	1230.8
% Operation (2008):	32.9%
Cumulative % Operation (since 1/1/2007):	42.1%

Pounds of Methane Removed (2007)	372759
Pounds of Methane Removed (2008)	96231

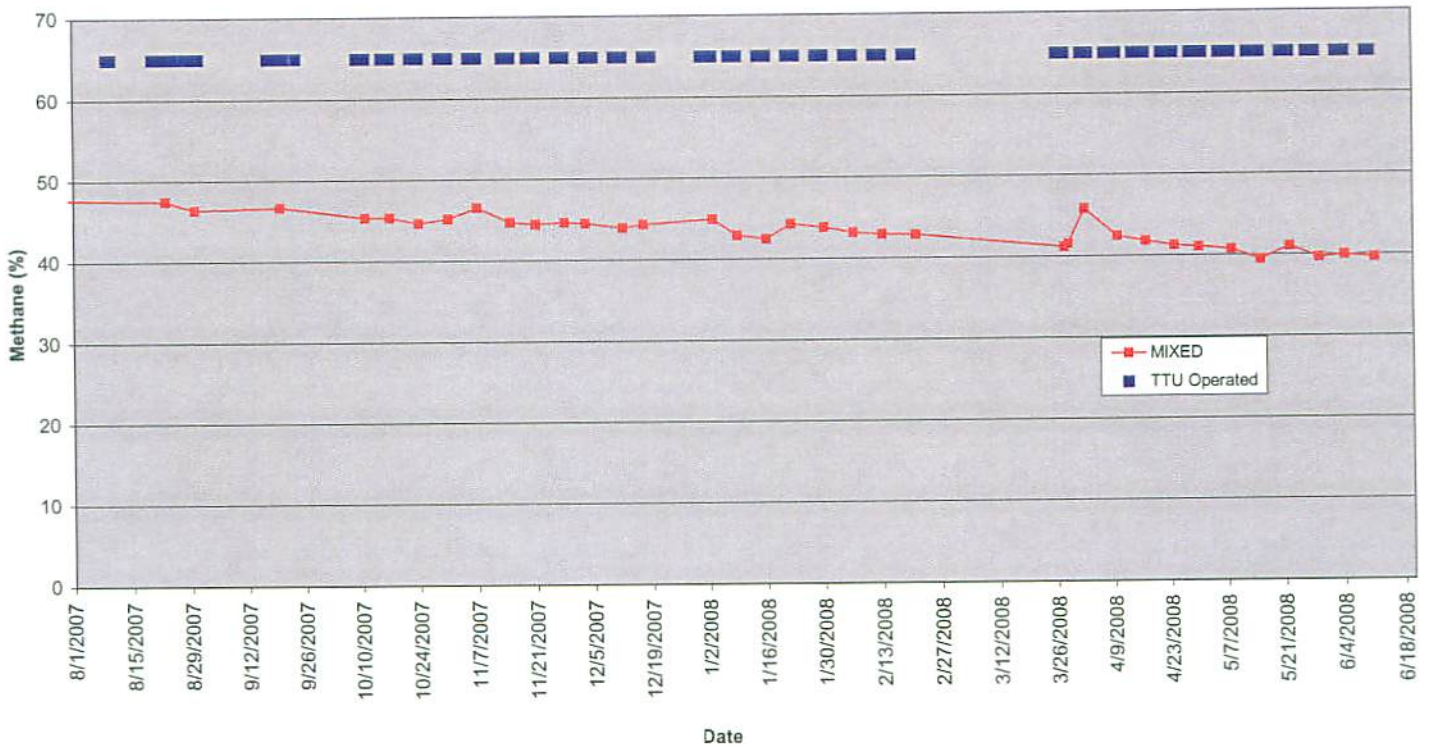
Date TTU Started	Date TTU Shutdown	Hours Operated
1/1/07 0 00	3/8/07 12 00	1561 0
3/29/07 8 30	3/29/07 12 30	4 0
4/7/07 7 30	5/4/07 16 00	656 5
5/21/07 8 00	6/18/07 8 00	672 0
7/9/07 14 00	7/13/07 15 00	97 0
8/9/07 7 30	8/10/07 11 00	27 5
8/20/07 7 30	8/31/07 16 00	272 5
9/17/07 8 00	9/21/07 15 00	103 0
9/24/07 12 00	9/24/07 15 00	3 0
10/9/07 8 00	10/11/07 16 30	56 5
10/15/07 7 15	10/17/07 16 45	57 4
10/22/07 7 40	10/24/07 16 45	57 0
10/29/07 7 15	10/31/07 16 45	57 4
11/5/07 7 20	11/7/07 15 30	56 2
11/13/07 7 15	11/15/07 16 00	56 7
11/19/07 7 30	11/21/07 15 30	56 0
11/26/07 7 00	11/28/07 15 15	56 2
12/3/07 7 00	12/5/07 16 00	57 0
12/10/07 7 00	12/12/07 15 30	56 5
12/17/07 7 30	12/19/07 16 30	57 0
12/31/07 9 00	1/3/08 15 00	78 0
1/7/08 7 30	1/9/08 16 30	57 0
1/14/08 8 00	1/16/08 16 00	56 0
1/21/08 7 45	1/23/08 16 00	56 3
1/28/08 12 00	1/30/08 16 00	51 0
2/4/08 8 00	2/6/08 16 00	56
2/11/08 7 20	2/13/08 16 10	56 9
2/18/08 7 00	2/20/08 15 00	56
3/26/08 8 00	3/28/08 12 30	52 5
4/1/08 7 45	4/3/08 15 15	55 5
4/7/08 7 15	4/10/08 16 00	80 7
4/14/08 7 00	4/17/08 13 00	78 0
4/21/2008 7 00	4/24/2008 15 00	80 0
4/28/08 7 00	5/1/08 7 40	72 7
5/5/08 7 00	5/8/08 15 20	80 3
5/12/08 8 30	5/15/08 8 50	72 3
5/20/08 7 05	5/22/08 14 40	55 6
5/26/08 9 00	5/28/08 16 00	55 0
6/2/08 7 00	6/4/08 16 00	57 0
6/9/08 9 00		

YEAR Month	SumOfPOUNDS METHANE
2007/1	76359
2007/2	62445
2007/3	14078
2007/4	52738
2007/5	29140
2007/6	37584
2007/7	8491
2007/8	26379
2007/9	9733
2007/10	20464
2007/11	19753
2007/12	15595
2008/1	23914
2008/2	13635
2008/3	3615
2008/4	27888
2008/5	20123
2008/6	7057

Methane Concentration vs. Time
(after 08-01-07)
Interior Extraction Wells



Methane Concentration vs. Time
(after 08-01-07)
Mixed Port at TTU



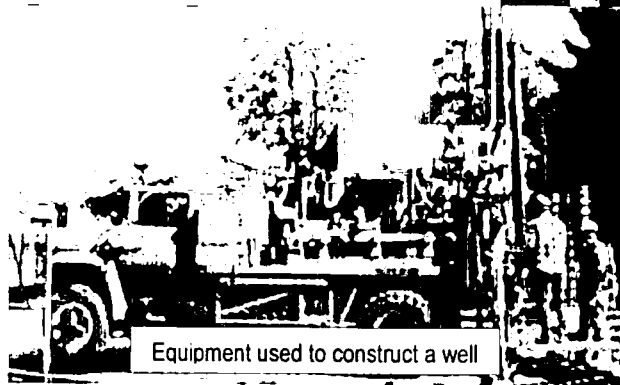
Army Groundwater Well Installation

Installing a monitoring well

Work Scheduled: Week of June 30, 2008

Some residents of Marina along Quebrada Del Mar Avenue will see workers and equipment on their street for a week starting June 30, 2008.

WHY? The Army will be installing a groundwater monitoring well in the sidewalk on Quebrada del Mar to test the groundwater in this area. A map of the well location is on the back. The well construction will last a week. A limited number of parking spots on the street will be blocked.



Questions:

Melissa Broadston

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0 150 300

SCALE - FEET

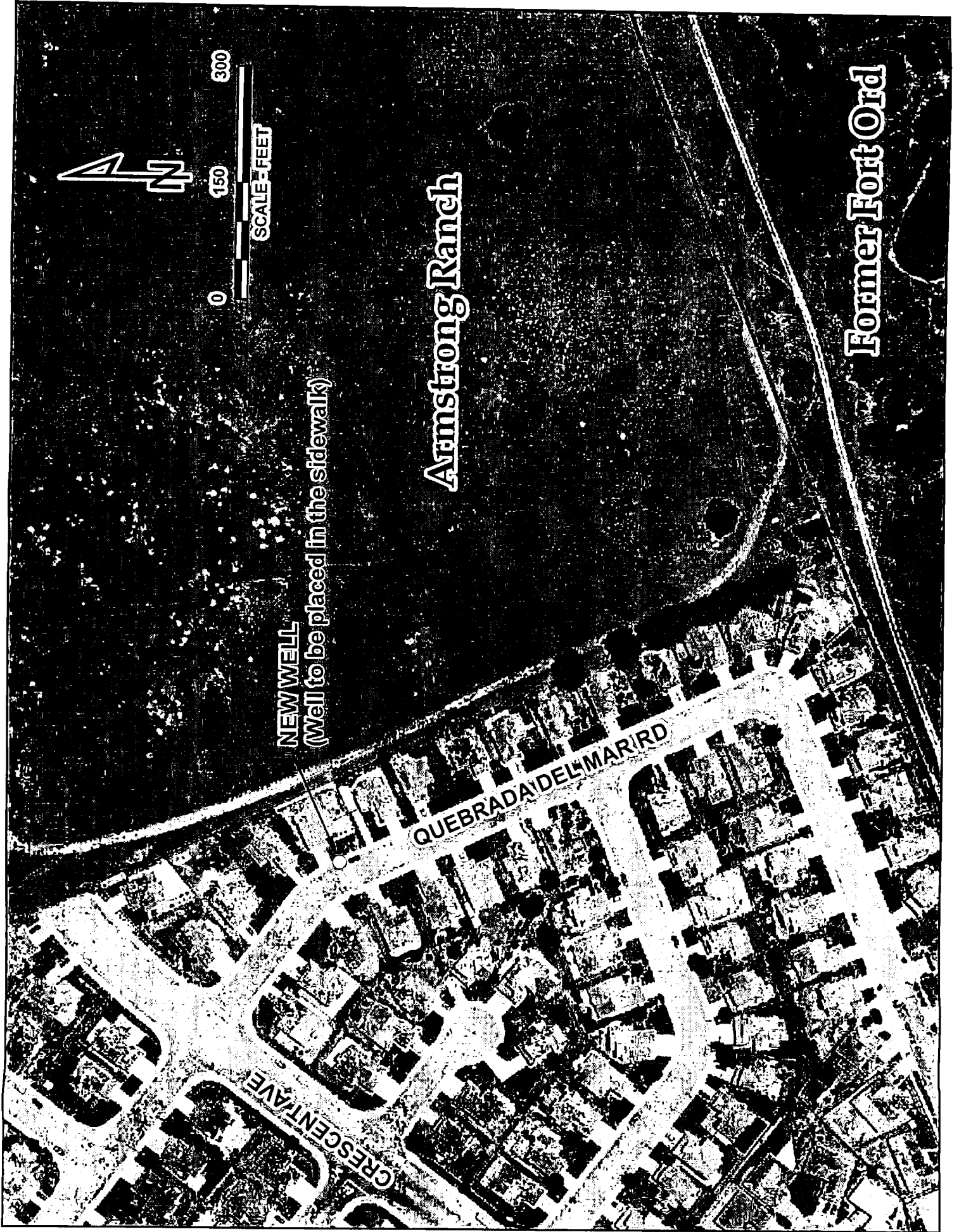
NEW WELL
(Well to be placed in the sidewalk)

Armstrong Ranch

Former Fort Ord

QUEBRADA DEL MAR RD

CRESCENT AVE



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Former Fort Ord Groundwater Treatment Systems Operational Data and Status BCT Meeting June 12, 2008

Table 1: OU2 and Sites 2/12 GWTP Treatment Statistics.

	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (lbs)
OU2				
May 2008	30,992,950	736	95	2.53
Total since October 1995	4.212 billion			564.04
Sites 2/12				
May 2008	6,367,600	163	95	1.27
Total since May 1999	1.114 billion			392.40

Table 2: OU2 and Sites 2/12 GWTP Calendar of events.

Key Events for OU2 and Sites 2/12 for May 2008						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
*19 USAN Notices in May. None of these alerts required the personal attention of the Senior GWTP Operator.						
4	5	6	7	8	9	10
11	12	13 GWTP offline intermittently due to communication problems	14 GWTP communication problems fixed and back on line	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

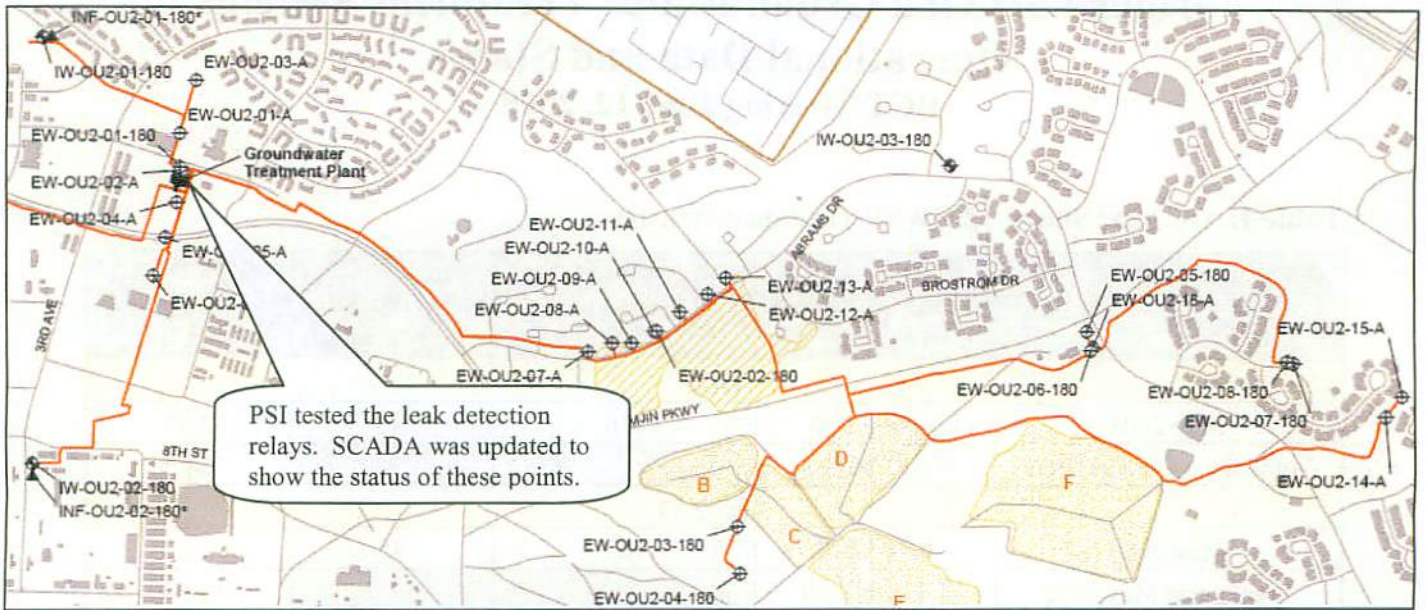


Figure 1: OU2 GWTP Treatment Events May 2008.

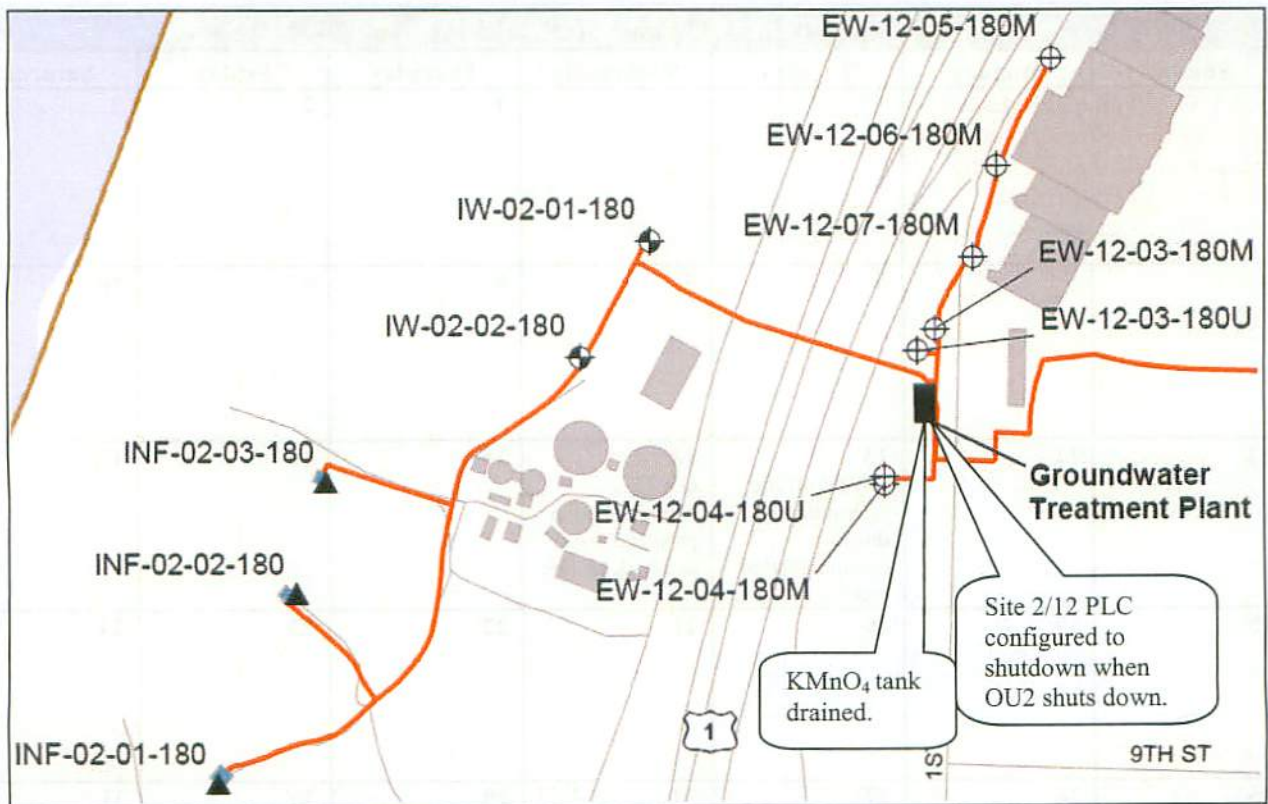


Figure 2: Sites 2/12 GWTP Treatment Events May 2008.

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Table 3: May 2008 OU2 Analytical Results at TS-OU2-INJ.

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results
		5/28/2008
1,1-DCA	5.0*	0.93
1,2-DCA	0.5	0.21 J
1,2-DCP †	0.5	ND
Benzene	0.5	ND
Carbon Tetrachloride	0.5	ND
Chloroform	2.0*	0.36 J
Cis-1,2-DCE	6.0*	0.37 J
Methylene Chloride	0.5	ND
PCE	0.5	ND
TCE	0.5	0.07 J
Vinyl Chloride	0.5	ND

Table 4: May 2008 Sites 2/12 Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results				
		05/08/2008	05/15/2008	05/22/2008**	05/28/2008**	05/08/2008
1,1-DCE	6	ND	ND	ND	ND	ND
1,2-DCA	0.5	ND	0.09 J	0.12 J	0.20 J	ND
1,3-DCP †	0.5	ND	ND	ND	ND	ND
Chloroform	2	0.14 J	0.15 J	0.19 J	0.30 J	0.14 J
Cis-1,2 DCE	6	1.4	3.0	2.0	1.2	1.4
PCE	3	ND	ND	ND	ND	ND
TCE	5	ND	ND	ND	ND	ND
Vinyl Chloride	0.1	ND	ND	ND	ND	ND

NOTES:

- J The analyte was positively identified, but the associated numerical value is an approximate concentration greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- ND The analyte was not detected above MDL.
- * Discharge limits for low carbon affinity compounds were increased to the Aquifer Cleanup Level (ACL).
- ‡ Discharge limits are the ACLs for injection over the plume.
- † The reported value is the sum of both cis- and trans-isomers.
- ** Preliminary data; validation has not been completed.
- J± Data are qualified as estimated, with a high (+) or low (-) bias likely to have occurred. False positives or false negatives are unlikely to have been reported.

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Table 5: May 2008 OU2 and Sites 2/12 Extraction Well Status.

Well Identification	% On	Avg. gpm	Total Gallons	% of Total	Comments
Site 12 Extraction Wells					
EW-12-05-180M	78.3	82	2,852,100	44.8	
EW-12-06-180M	97.5	81	3,515,500	55.2	
EW-12-07-180M	0	0	0	0	Well offline due to flow rate limitations.
EW-12-03-180U	0	0	0	0	Well offline due to low concentrations.
EW-12-03-180M	0	0	0	0	Well offline due to low concentrations.
EW-12-04-180U	0	0	0	0	Well offline due to low concentrations.
EW-12-04-180M	0	0	0	0	Ceased operating on 11/21/2005.
Total 2/12 gallons treated:			6,367,600	100	
OU2 Extraction Wells					
Western Network					
EW-OU2-01-A	0	0	0	0	Well offline due to low concentrations.
EW-OU2-02-A	100	57	2,462,400	8.0	
EW-OU2-03-A	0	0	0	0	Well offline due to low concentrations.
EW-OU2-04-A	100	50	2,160,000	7.0	
EW-OU2-05-A	100	51	2,203,200	7.1	
EW-OU2-06-A	100	37	1,598,400	5.2	
EW-OU2-01-180	0	0	0	0	Well offline due to low concentrations.
Total gallons extracted:			8,424,000	27.3	
Eastern Network					
EW-OU2-07-A	0	0	0	0	Well offline due to low concentrations.
EW-OU2-08-A	0	0	0	0	Well offline due to low concentrations.
EW-OU2-09-A	86	9	347,290	1.1	
EW-OU2-10-A	100	9	402,230	1.3	
EW-OU2-11-A	0	0	0	0	Well offline due to area construction.
EW-OU2-12-A	0	0	0	0	Well offline due to area construction.
EW-OU2-13-A	100	10	431,550	1.4	
EW-OU2-02-180	0	0	0	0	Well offline pending installation of VFD.
Total gallons extracted:			1,181,070	3.83	
Shoppette					
EW-OU2-05-180	95.3	129	5,465,500	17.7	
EW-OU2-06-180	95.4	148	6,313,700	20.5	
EW-OU2-16-A	95.3	21	909,400	2.9	
Total gallons extracted:			12,688,600	41.1	
CSUMB					
EW-OU2-14-A	83.1	23	867,800	2.8	
EW-OU2-15-A	0	0	0	0	Well offline due to low concentrations.
Total gallons extracted:			867,800	2.8	
Landfill					
EW-OU2-03-180	88	133	5,232,000	16.9	
EW-OU2-04-180	0	0	0	0	Well offline due to low concentrations.
Total gallons extracted:			5,232,000	16.9	
Bunker Hill					
EW-OU2-08-180	93.3	59	2,474,000	8.0	
Total gallons extracted:			2,474,000	8.0	
Total OU2 gallons treated:			37,235,070	100	

HGL AGENDA

Fort Ord HTW BCT Meeting
9:00 AM, 12 June 2008
Monterey, California

1. Groundwater Remediation System Update

- Northwest Treatment System operation update (summary attached).
- Collected treatment system samples on May 27, 2008. Results revealed continued breakthrough of Cis-1,2-DCE into midpoint (0.21J $\mu\text{g/L}$), ND in effluent. Influent concentration (0.36J $\mu\text{g/L}$) and midpoint concentration both less than ROD effluent limit (0.5 $\mu\text{g/L}$).
- Cis-1,2-DCE concentrations added to attached monthly summary report. System has removed approximately 0.23 pounds of cis-1.2-DCE since startup.
- System shutdown due to broken check valve on main transfer pump outlet during operating period.

Fort Ord OU-1
Northwest Treatment System Operational Summary
June 12, 2008 BCT Meeting

Date	Influent TCE Concentration (µg/L)	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	6.90	190.000	0.011
7/2/06-7/12/06	3.80	781.680	0.025
7/13/06-7/19/06	4.80	425.980	0.017
7/20/06-7/26/06	3.90	371.170	0.012
7/27/06-9/29/06	6.00	3,497.030	0.175
9/30/06-1/29/07	3.70	5,514.470	0.170
1/30/07-3/13/07	2.90	2,351.090	0.057
3/13/07-5/22/07	2.00	3,698.570	0.062
5/23/07-7/16/07	1.70	2,571.340	0.037
7/17/07-9/11/07	1.20	2,833.230	0.028
9/12/07-10/07/07	0.88	1,035.270	0.008
10/8/07-10/11/07	4.80	345.910	0.014
10/12/07-10/17/07	9.00	897.440	0.067
10/18/07-10/22/07	8.10	468.080	0.032
10/23/07-11/17/08	11.00	10,520.280	0.966
1/18/08-3/17/08	6.00	7,379.340	0.370
3/18/08 - 5/26/08	5.60	8,224.750	0.385
5/29/08-6/9/08	3.90	1,804.520	0.059
Total Volume Pumped (gal)			52,910.150
Total Mass Removed (lb)			2.49
Average Pumping Rate (gpm)			52.53

Date	Influent Cis-1,2-DCE Concentration	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	0.00	190.000	0.000
7/2/06-7/12/06	0.00	781.680	0.000
7/13/06-7/19/06	0.00	425.980	0.000
7/20/06-7/26/06	0.00	371.170	0.000
7/27/06-9/29/06	0.00	3,497.030	0.000
9/30/06-1/29/07	0.15	5,514.470	0.007
1/30/07-3/13/07	0.16	2,351.090	0.003
3/13/07-5/22/07	0.10	3,698.570	0.003
5/23/07-7/16/07	0.00	2,571.340	0.000
7/17/07-9/11/07	0.00	2,833.230	0.000
9/12/07-10/07/07	0.00	1,035.270	0.000
10/8/07-10/11/07	0.00	345.910	0.000
10/12/07-10/17/07	0.68	897.440	0.005
10/18/07-10/22/07	0.97	468.080	0.004
10/23/07-11/17/07	1.70	1,148.980	0.016
11/1/07 - 1/17/07	1.30	9,371.300	0.102
1/18/08-3/17/08	0.66	7,379.340	0.041
3/18/08 - 5/26/08	0.59	8,224.750	0.041
5/26/08 - 6/9/08	0.36	1,804.520	0.005
Total Mass Removed (lb)			0.23

Date	Influent Totalizer FI-131 Reading	Gallons since previous reading	Average Rate (gpm)	% Uptime
5/11/2008	49852600			
5/14/2008	50193990	341,390	71.2	98
5/19/2008	50798980	604,990	89.2	70
5/27/2008	51105630	306,650	26.9	25
6/9/2008	52910150	1,804,520	95.9	94
Period Total Gallons Treated			3,057,550	
Period Average Pumping Rate (gallons per minute)			73.1	
Period % Uptime			71.7	

