



Transmittal

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Control Board – Los Angeles
Region (RWQCB)
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CH2M HILL
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Subject: October 2010 Monthly Groundwater Monitoring Submittal

Project Name: Defense Fuel Support Point (DFSP) Norwalk

Item Description

- 1 Table 1 - Summary of Groundwater Elevations, October 2010 Monthly Monitoring Event
- 2 Table 2 - Summary of Groundwater Analytical Data, October 2010 Monthly Monitoring Event
- 3 Table 3 - Summary of Miscellaneous Compounds Detected in Groundwater Samples, October 2010 Monthly Monitoring Event
- 4 Table 4 - Summary of Total Fluids and Groundwater Extraction Pump Operation, October 2010 Monthly Monitoring Event

Remarks

On behalf of SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), CH2M HILL is transmitting the groundwater monitoring results for the October 2010 monthly monitoring event conducted at the DFSP Norwalk site. The October 2010 monthly monitoring event was conducted concurrently with the second semiannual 2010 groundwater monitoring event. The total fluids extraction (TFE)/groundwater extraction (GWE) and soil vapor extraction (SVE) systems were shut down between September 27 and October 7, 2010 to allow water levels and groundwater samples to be collected under static conditions. Groundwater elevations and analytical data for wells monitored during this monthly monitoring event are summarized in Tables 1 through 3, and are briefly discussed below. The operation of SFPP's extraction wells during October 2010 is summarized in Table 4.

- 1) During this monthly monitoring event, Blaine Tech Services, Inc. (Blaine Tech) sampled wells GMW-36, GMW-O-15, GMW-O-16, GMW-O-18, GMW-O-19, and PZ-5 located in the southeastern area. Blaine Tech gauged these well prior to sampling.
- 2) Groundwater elevations were generally higher (0.21 to 0.85 feet) in the area since the September 2010 monitoring event, when the TFE/GWE system was in operation during well gauging and sampling. Free product was detected in well GMW-O-15 during October 2010 at an approximate thickness of 0.05 feet.
- 3) Wells GMW-36 and GMW-O-15 are used for total fluids extraction (TFE) but also have been

used to monitor groundwater conditions within the extent of free product in the southeastern area. Free product has historically been detected in both of these wells. Reported concentrations of some volatile organic compounds (VOCs) (benzene, toluene, ethylbenzene, and total xylenes) and total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g) in well GMW-36 during October 2010 were higher than concentrations reported during September 2010. Total petroleum hydrocarbons quantified as free product (TPH-fp), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) decreased in well GMW-36 during October 2010. The reported concentrations of TPH-g, TPH-fp, benzene, toluene, ethylbenzene, total xylenes, MTBE, and tertiary amyl methyl ether (TAME) in well GMW-O-15 during October 2010 were higher than the concentrations reported during September 2010; TBA decreased from 6,000 µg/L during September to 3,000 µg/L during October 2010. Fluctuation in concentrations of fuel constituents in wells with a historical presence of free product is expected depending on various factors such as water level fluctuation, groundwater extraction, and sampling methods.

- 4) Wells GMW-O-16, GMW-O-18, and GMW-O-19, and PZ-5 are located outside the extent of free product and used to monitor the extent of dissolved-phase fuel constituents in groundwater in the southeastern area. Similar to the previous monthly monitoring events, VOCs and TPH-g were not detected in wells GMW-O-16 and GMW-O-19, with the exception that MTBE was detected at a low concentration in well GMW-O-16. TPH-fp was not detected in well GMW-O-16 but was detected in well GMW-O-19. The TPH-g, TPH-fp, benzene, toluene, ethylbenzene, total xylenes, and MTBE concentrations reported in well GMW-O-18 during October 2010 were higher than the concentrations reported during September 2010. TBA concentrations in well GMW-O-18 decreased from 23,000 µg/L during September 2010 to 2,600 µg/L during October 2010. The increase in TPH-g, TPH-fp, and some VOCs in well GMW-O-18 can be attributed to the operational (shut-down) status of this well prior to sampling. Well GMW-O-18 and the other two extraction wells in the southeastern area (GMW-36 and GMW-O-15) were shut down approximately one week before samples were collected to allow water levels to stabilize. Reported concentrations of TPH-g, TPH-fp, benzene, ethylbenzene, MTBE, and TBA in well PZ-5 decreased relative to September 2010 concentrations. To address the dissolved-phase constituents in this area, TFE was expanded to include well GMW-O-18 in April 2010. In addition, a work plan for additional groundwater assessment near well GMW-O-18 has been approved by the RWQCB on August 12, 2010.
- 5) The TFE pumps in wells GMW-36, GMW-O-15, and GMW-O-18 are currently on and will continue to extract groundwater in the area for treatment. Monthly groundwater monitoring in the southeastern area will continue and groundwater conditions will continue to be evaluated as additional groundwater monitoring and remediation system operation data are obtained.
- 6) Ten equipment blanks and five trip blank samples were collected during the second semiannual sampling event. No VOCs, TPH-g, or TPH-fp were detected at or above laboratory reporting limits in the equipment or trip blank samples.

Please contact Dan Jablonski at 213.228.8271 if you have any questions.

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TABLE 1

**SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2010 MONTHLY MONITORING EVENT
Defense Fuel Support Point Norwalk
Norwalk, California**

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-36	03/15/10	74.53	---	26.80	---	47.73
	04/16/10	74.53	---	26.90	---	47.63
	05/24/10	74.53	25.90	25.96	0.06	NC
	05/28/10	74.53	25.88	25.94	0.06	NC
	06/22/10	74.53	25.91	25.94	0.03	NC
	07/12/10	74.53	NM	NM	NC	NC
	08/12/10	74.53	NM	NM	NC	NC
	09/20/10	74.53	NM	NM	NC	NC
10/04/10	74.53	---	26.90	---	47.63	
GMW-O-15	03/15/10	74.23	---	NM	---	NC
	04/16/10	74.23	---	23.10	---	51.13
	05/24/10	74.23	---	25.67	---	48.56
	05/28/10	74.23	---	25.35	---	48.88
	06/22/10	74.23	---	25.81	---	48.42
	07/12/10	74.23	NM	NM	NC	NC
	08/12/10	74.23	NM	NM	NC	NC
	09/20/10	74.23	NM	NM	NC	NC
10/04/10	74.23	25.80	25.85	0.05	NC	
GMW-O-16	03/15/10	74.10	---	26.30	---	47.80
	04/16/10	74.10	---	25.20	---	48.90
	05/24/10	74.10	---	25.14	---	48.96
	05/28/10	74.10	---	25.13	---	48.97
	06/22/10	74.10	---	25.55	---	48.55
	07/12/10	74.10	---	26.28	---	47.82
	08/12/10	74.10	---	26.43	---	47.67
	09/20/10	74.10	---	26.95	---	47.15
10/04/10	74.10	---	26.10	---	48.00	
GMW-O-18	03/15/10	74.36	---	26.54	---	47.82
	04/16/10	74.36	---	24.25	---	50.11
	05/24/10	74.36	---	26.26	---	48.10
	05/28/10	74.36	---	26.03	---	48.33
	06/22/10	74.36	---	26.41	---	47.95
	07/12/10	74.36	NM	NM	NC	NC
	08/12/10	74.36	NM	NM	NC	NC
	09/20/10	74.36	NM	NM	NC	NC
10/04/10	74.36	---	29.95	---	44.41	
GMW-O-19	03/15/10	74.46	---	26.16	---	48.30
	04/16/10	74.46	---	25.30	---	49.16
	05/24/10	74.46	---	25.53	---	48.93
	05/28/10	74.46	---	25.47	---	48.99
	06/22/10	74.46	---	25.64	---	48.82
	07/12/10	74.46	---	26.04	---	48.42
	08/12/10	74.46	---	26.23	---	48.23
	09/20/10	74.46	---	26.52	---	47.94
10/04/10	74.46	---	26.31	---	48.15	
PZ-5	03/15/10	73.97	---	25.99	---	47.98
	04/16/10	73.97	---	25.12	---	48.85
	05/24/10	73.97	---	25.71	---	48.26
	05/28/10	73.97	---	25.68	---	48.29
	06/22/10	73.97	---	25.54	---	48.43
	07/12/10	73.97	---	26.09	---	47.88
	08/12/10	73.97	---	26.16	---	47.81
	09/20/10	73.97	---	26.52	---	47.45
10/04/10	73.97	---	25.98	---	47.99	

Notes

--- = not detected or not applicable.

feet btoc = feet below top of casing

feet msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.

NC = not calculated.

NM = not measured since extraction pump was in operation.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
OCTOBER 2010 MONTHLY MONITORING EVENT
 Defense Fuel Support Point Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethylbenzene	Total Xylenes ¹	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-36	07/10/97	430											
	01/09/98	4,000		22	21	6.1	100	<5	7,700				
	05/20/98	1,400		<0.3	<0.3	<10	<20	<0.5	19,600				
	11/17/98	7,900	6,650	2,100	1,370	70	650	<50	34,800				
	05/07/99	2,800		<10	<10	<10	<10	<25	14,000				
	11/18/99	51,000	22,000	8,100	5,600	<250	1,770	<250	47,000				
	05/17/00	59,000	53,000	14,000	6,700	480	4,100	<130	45,000				
	11/30/00	110,000	66,000	20,000	19,000	1,600	8,100	<0.5	13,000				
	02/06/01	75,000	55,000	18,000	13,000	1,400	6,100	<50	9,100				
	05/10/01	12,000	5,100	3,700	2,500	420	1,730	<0.5	1,600				
	09/19/01	21,000	37,000	5,800	3,600	580	2,080	<13	1,000				
	11/06/01	63,000	40,000	16,000	13,000	1,600	7,700	<25	3,200				
	01/30/02	130,000	68,000	21,000	20,000	1,700	9,000	<125	42,000				
	04/10/02	150,000	49,000	25,000	22,000	1,800	10,000	<50	67,000				
	07/30/02	81,000	110,000	28,000	29,000	2,200	11,800	<50	37,000				
	12/06/06	32,000	10,000	5,300	4,300	480	4,300	<50	1,600				
	03/13/07	54,000	7,200	9,400	12,000	1,100	8,200	<200	3,800				
	05/05/07	69,000	11,000	9,800	11,000	1,200	8,000	<200	3,900				
	08/29/07	30,000	9,800	4,100	4,200	420	4,500	120	890				
	04/16/08	42,000	11,000	5,200	8,300	940	6,200	<200	<100				
10/16/08	17,000	32,000	2,100	2,000	160	2,300	<20	26					
07/22/09	24,000	15,000	3,800	5,400	720	3,380	<50	28	<500	<50	<10	<10	
03/16/10	8,000	22,000	830	1,100	140	700	<10	16	690	<10	<10	<10	
04/18/10	4,200	25,000	850	150	89	200	<5.0	11	3,700	<5.0	<5.0	<5.0	
05/24/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/25/10 ^{2,3}	14,000	43,000	1,100	1,500	160	1,260	<20	11	2,700	<20	<20	<20	
07/13/10 ²	500	4,500	49	51	5	68	<0.5	0.91	340	<1.0	<1.0	<1.0	
08/12/10 ²	9,200	2,200	1,400	1,100	52	1,580	<10	18	1,600	<10	<10	<10	
09/20/10 ²	3,300	5,200	130	18	36	260	<1.0	130	13,000	<1.0	<1.0	<1.0	
10/5/2010 ²	15,000	3,100	2,500	1,300	390	1,790	<20	30	1,300	<20	<20	<20	
10/16/08	1,700	2,800	550	3	37	34.1	<5	110					
03/16/10 ²	530	8,900	10	1.1	0.64	2.7	<0.50	400	<10	<10	<10	1.9	
04/16/10	6,700	62,000	1,700	54	120	176	<10	1,300	1,800	<10	<10	11	
05/25/10	650	5,600	82	16	8.4	44	<2.0	180	1,500	<2.0	<2.0	<2.0	
06/25/10 ²	490	900	96	9.7	9.6	33.4	<1.0	240	2,900	<1.0	<1.0	1.1	
07/13/10 ²	580	250	110	7.5	11	33.7	<1.0	300	5,100	<1.0	<1.0	1.5	
08/12/10 ²	710	370	120	4.1	10	43	<1.0	260	5,300	<1.0	<1.0	1.4	
09/20/10 ²	620	500	120	3.3	13	29.4	<1.0	230	6,000	<1.0	<1.0	1.5	
10/5/2010 ²	14,000	6,000	1,800	280	92	1,120	<20	3,200	3,000	<20	<20	35	
11/27/96			570	67	14	360	<5	120					
07/17/97	<100		<0.5	<0.5	<0.5	<1	<0.5	310					
01/06/98	<100		<0.5	<0.5	<0.5	<1.5	<0.5	<5					
01/09/98	4,600												
05/20/98	<300		<0.5	<0.5	<0.5	<1	<0.5	76					
11/13/98	<500	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.7					
05/07/99	<416		0.66	<0.5	<0.5	0.72	<1	7.6					
11/18/99	<416	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5					
05/17/00	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.8					

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA
 OCTOBER 2010 MONTHLY MONITORING EVENT
 Defense Fuel Support Point Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-tp	Benzene	Toluene	Ethyl- benzene	Total Xylenes 1	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-16 (Cont'd)	11/30/00	<300	<100	0.8	<0.5	<0.5	<0.5	<0.5	0.6				
	05/10/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/10/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/22/02	<300	<100	1.6	0.98	<0.5	<0.5	<0.5	<0.5				
	04/09/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/22/04	<50	3,600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	07/20/04	---	<100	---	---	---	---	---	---				
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/05	92	<100	1.6	<0.5	<0.5	<0.5	<0.5	110				
	08/02/05	57	<100	1.3	<0.5	<0.5	<0.5	<0.5	93				
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	57				
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	5.3				
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	6.3				
	09/19/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.57				
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	11/14/07	<50	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	02/07/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.68				
	04/16/08	<50	<100	<0.5	1.2	0.59	5.5	<0.5	0.63				
10/14/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.65					
04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.55					
10/21/09	<50	250	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
03/16/10	<50	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
04/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
05/26/10	<50	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
06/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.88					
07/13/10	<50	<100	0.73	<0.5	<0.5	<0.5	<0.5	1.9					
08/12/10	<50	<100	0.50	<0.5	<0.5	<0.5	<0.5	2.3					
09/20/10	<50	170	0.69	<0.5	<0.5	<0.5	<0.5	3.1					
10/06/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.3					
11/26/06	---	---	<10	<10	<10	<30	<10	10,000					
11/27/96	---	---	<10	66	<10	<30	<5	120					
07/11/97	<100	---	<3	<3	<3	<3	<3	3,000					
01/07/98	<100	---	<5	<5	<5	<15	<5	3,200					
05/21/98	2,000	---	<100	<100	<100	<200	<100	5,600					
11/17/98	543	<100	<5	<5	<5	2.6	<5	1,420					
05/06/99	2,700	---	<5	<5	<5	<5	<13	15,000					
11/18/99	2,900	<100	<13	<12.5	<12.5	<12.5	<13	6,700					
05/19/00	3,500	<100	<25	<25	<25	<25	<25	10,000					
11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.4					
05/09/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	2.1					
12/07/06	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.65					
05/04/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.62					
04/15/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6					
10/15/08	<200	<100	<1	<1	<1	<1	<2	<1					
04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1				<1.0	
10/21/09	2,400	680	170	440	17	410	<5	490				<5	
03/16/10	<50	<100	0.60	1.3	<0.50	1.77	<0.50	4.5				<1.0	

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
OCTOBER 2010 MONTHLY MONITORING EVENT
 Defense Fuel Support Point Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethylbenzene	Total Xylenes ¹	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-18 (Cont'd)	04/16/10	1,300	6,600	0.67	<0.50	3.1	12.9	<0.50	1.2	2,400	<1.0	<1.0	<1.0
	05/25/10	110	540	<0.50	<0.50	<0.50	<0.50	<1.0	2.9	6,500	<1.0	<1.0	<1.0
	06/25/10 ²	74	140	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8,300	<1.0	<1.0	<1.0
	07/14/10 ²	110	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.85	11,000	<1.0	<1.0	<1.0
	08/12/10 ²	220	<100	1	<0.5	<0.5	<0.5	<1.0	0.93	15,000	<1.0	<1.0	<1.0
	09/20/10 ²	290	<100	1	<0.5	<0.5	0.55	<1.0	1.2	23,000	<1.0	<1.0	<1.0
	10/5/2010 ²	4,000	1,100	1,200	420	23	231	<10	670	2,600	<10	<10	<10
	11/25/96	---	---	<0.5	<0.87	2.8	5.1	<0.5	<5	---	---	---	---
	07/16/97	<100	---	<0.5	<0.5	<0.5	<1	<0.5	<5	---	---	---	---
	01/06/98	<100	---	<0.5	<0.5	<0.5	<1.5	<0.5	<5	---	---	---	---
GMW-O-19	05/20/98	<300	---	<0.5	<0.5	<0.5	<1	<0.5	2	---	---	---	---
	11/12/98	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/06/99	<500	---	<0.5	<0.5	<0.5	<0.5	<1	0.51	---	---	---	---
	11/18/99	<416	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	---	---	---	---
	05/17/00	<300	180	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	09/19/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/07/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	01/30/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/09/03	<50	500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	08/01/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
PZ-5	10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/22/04	<50	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	07/20/04	<50	<100	---	---	---	---	---	---	---	---	---	---
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/05/05	510	110	110	<0.5	17	24.5	<1	150	---	---	---	---
	08/02/05	160	<100	2.1	<0.5	1.2	<0.5	<0.5	19	---	---	---	---
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
PZ-5	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/16/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/14/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/20/09	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	03/15/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	04/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	05/26/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	06/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
PZ-5	07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	08/12/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	09/20/10	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	10/06/10	<50	340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	10/07/03	6,900	<100	11	<10	<10	<10	<20	9,100	---	---	---	---
	05/05/05	<50	<100	0.87	<0.5	<0.5	<0.5	<0.5	43	---	---	---	---
	11/02/05	1,200	<100	<2.5	<2.5	<2.5	<2.5	<5.0	2,100	---	---	---	---
	02/28/06	160	<100	<0.5	<0.5	<0.5	<0.5	<1	380	---	---	---	---
	05/04/06	1,200	<100	<2	<2	<2	<2	<4	1,900	---	---	---	---

TABLE 2

**SUMMARY OF GROUNDWATER ANALYTICAL DATA
OCTOBER 2010 MONTHLY MONITORING EVENT**
Defense Fuel Support Point Norwalk
Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-tp	Benzene	Toluene	Ethyl- benzene	Total Xylenes ¹	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
PZ-5 (Cont'd)	09/19/06	480	<100	<1	<1	<1	<1	<2	1,200				
	12/07/06	480	<100	<1.5	<1.5	<1.5	<1.5	<3	960				
	03/13/07	320	<100	<1	<1	<1	<1	<2	690				
	05/04/07	400	<100	<0.5	<0.5	<0.5	<0.5	<1	610				
	08/29/07	380	<100	<1	<1	<1	<1	<2	480				
	11/15/07	370	<100	<0.5	<0.5	<0.5	<0.5	<1	470				
	02/20/08	940	560	<1	<1	<1	<1	<2	750				
	04/15/08	750	330	<1	<1	<1	<1	<2	740				
	08/12/08	1,500	370	<2	<2	<2	<2	<4	2,000				
	10/16/08	<3,000	210	22	<15	<15	<15	<30	1,900				
	02/24/09	1,000	440	61	<1	<1	<1	<2	1,200	37,000			
	02/24/09 *	2,400	1,000	71	<100	<100	<100	<50	1,400	47,000	<200		<200
	04/23/09	1,200	760	250	<2	<2	<2	<4	1,200	35,000	<4	<4	<4
	07/22/09	3,800	1,800	2,000	20	20	98	77	800	54,000	<5	<5	<5
	10/23/09	2,900	1,300	1,100	18	18	53	69	500	50,000	<10	<10	<10
	03/16/10	1,700	890	370	2.1	2.1	33	9.4	350	58,000	<4.0	<4.0	<4.0
04/16/10	1,600	1,100	110	<2.5	<2.5	9.7	4.6	340	91,000	<5.0	<5.0	<5.0	
05/27/10	3,200 J	1,300	1,100	<25	<25	66	<25	360	69,000	<50	<50	<50	
06/22/10	3,600	900	1,500	<10	<10	96	<10	450	73,000	<20	<20	<20	
07/14/10	4,600	1,300	1,900	<10	<10	180	<10	530	82,000	<20	<20	<20	
08/12/10	9,100	1,600	4,400	<5.0	<5.0	340	50.6	490	64,000	<10	<10	<10	
09/20/10	8,500	1,800	4,200	2.8	2.8	110	16.8	370	43,000	<4.0	<4.0	<4.0	
10/07/10	6,300	1,000	3,100	<20	<20	56	<20	150	40,000	<40	<40	<40	

- Notes**
- The total xylenes result is the sum of m,p-xylenes and o xylenes when detected
 - Groundwater sample collected through a sampling port.
 - Free product was present.
 - Split groundwater sample analyzed by Caiscience Environmental Laboratories, Inc. Results were evaluated to laboratory method detection limits.

Abbreviations

- = not analyzed or not applicable
- <5.0 = not detected at or above the laboratory reporting limit shown
- NS = well not sampled due to presence of free product.
- J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.
- 1,2-DCA = 1,2-dichloroethane
- DIPE = di-isopropyl ether
- ETBE = ethyl tertiary butyl ether
- MTBE = methyl tertiary butyl ether
- TAME = tertiary amyl methyl ether
- TBA = tertiary butyl alcohol
- TPH-tp = total extractable petroleum hydrocarbons quantified using a site fuel product standard
- TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13)

TABLE 3

**SUMMARY OF MISCELLANEOUS COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
OCTOBER 2010 MONTHLY MONITORING EVENT**
Defense Fuel Support Point Norwalk
Norwalk, California

Results reported in micrograms per liter ($\mu\text{g/L}$)

Sample ID	Date	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Naphthalene	n-Propylbenzene
GMW-36	10/05/10	420	120	180	25
GMW-O-15	10/05/10	310	190	170	<20
GMW-O-18	10/05/10	<10	<10	59	<10

Notes

<10 = not detected at or above the laboratory reporting limit shown.

TABLE 4
SUMMARY OF TOTAL FLUIDS AND GROUNDWATER EXTRACTION PUMP OPERATION
OCTOBER 2010 MONTHLY MONITORING EVENT
 Defense Fuel Support Point Norwalk
 Norwalk, California

Remediation Area	Remediation Well ID	Pump Type	10/19/10 Pump Status (ON/OFF)	Comments
South-Central Area	GMW-9	TFE	OFF	
	GMW-22	TFE	ON	
	GMW-24	TFE	OFF	
	GMW-25	GWE	OFF	
	GWR-3	GWE	OFF	
	MW-SF-2	TFE	OFF	
	MW-SF-3	TFE	ON	
	MW-SF-6	TFE	OFF	
	MW-SF-11	TFE	ON	
	MW-SF-12	TFE	ON	
	MW-SF-13	TFE	ON	
	MW-SF-14	TFE	ON	
	MW-SF-15	TFE	OFF	
	MW-SF-16	TFE	ON	
	MW-O-1	TFE	OFF	
	MW-O-2	TFE	OFF	
	GMW-O-11	TFE	ON	
	GMW-O-20	TFE	OFF	
GMW-O-21	TFE	OFF		
GMW-O-23	TFE	OFF		
Southeastern Area	GMW-O-15	TFE	ON	
	GMW-O-18	TFE	ON	
	GMW-36	TFE	ON	

Notes

Data reported based on information provided by SFPP, L.P.

Abbreviations

GWE = groundwater extraction.

TFE = total fluids extraction.