



Transmittal

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Date: January 14, 2010
To: Mr. Paul Cho, PG
California Regional Water Quality
Control Board – Los Angeles
Region (RWQCB)
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Subject: November 2010 Monthly Groundwater Monitoring Submittal
Project Name: Defense Fuel Support Point (DFSP) Norwalk

Item	Description
1	Table 1 - Summary of Groundwater Elevations, November 2010 Monthly Monitoring Event
2	Table 2 - Summary of Groundwater Analytical Data, November 2010 Monthly Monitoring Event
3	Table 3 - Summary of Miscellaneous Compounds Detected in Groundwater Samples, November 2010 Monthly Monitoring Event
4	Table 4 - Summary of Total Fluids and Groundwater Extraction Pump Operation, November 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 November 2010 monthly monitoring event conducted at the DFSP Norwalk site. 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 November 2010 is summarized in Table 4.

- 1) During this monthly monitoring event, Blaine Tech Services, Inc. (Blaine Tech) sampled wells GMW-36, 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, except for well GMW-O-18 because this well was in operation. A sample was collected from GMW-O-18 through the wellhead sampling port. Well GMW-O-15 was not sampled due to mechanical problems with the total fluids extraction (TFE) pump at the time of sampling.
- 2) Groundwater elevations have generally decreased (0.36 to 0.48 feet) in the area since the October 2010 monitoring event. The groundwater extraction system was in operation during this monitoring event, thus these groundwater levels do not reflect the static water level conditions in the area.
- 3) Wells GMW-36 and GMW-O-15 are used for 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. During November 2010, free product was detected in well GMW-36 at a thickness of 0.25 inches. Free product was not measured in well GMW-O-15 since access was limited due to the presence of the TFE pump. Reported concentrations of some volatile organic compounds (VOCs) (benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether [MTBE]), total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), TPH quantified as free product (TPH-fp) in well GMW-36 during November 2010 were higher than concentrations reported during October 2010. The concentration of tertiary butyl alcohol (TBA) decreased from 1,300 µg/L in October 2010 to 470 µg/L in November 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, TPH-g, and TPH-fp were not detected in well GMW-O-19 during November 2010. TPH-fp, and MTBE were detected in well GMW-O-16 during November 2010; TPH-g and remaining VOCs were non-detect. Reported concentrations of VOCs in well GMW-O-18 have generally decreased since October 2009 with the exception of TBA. TBA increased from 2,600 µg/L in October 2010 to 21,000 µg/L in November 2010, but still remains within the range of concentrations reported during past sampling events. The TPH-g, TPH-fp, and MTBE concentrations reported in well GMW-O-18 during November 2010 were lower than concentrations reported in October 2010. Benzene, toluene, ethylbenzene, and total xylenes decreased to concentrations below reporting limits. Reported concentrations of TPH-fp and total xylenes in well PZ-5 increased relative to October 2010 concentrations. TPH-g, benzene, ethylbenzene, MTBE and TBA decreased in November 2010. To address the dissolved-phase constituents in this area, TFE was expanded to include well GMW-O-18 in April 2010. In addition, an additional groundwater assessment near well GMW-O-18 has been approved by the RWQCB and the field work is anticipated to commence in late January 2011.
- 5) The TFE pump in well GMW-O-18 is in operation in the southeastern area and will continue to extract groundwater in the area for treatment. Groundwater extraction from wells GMW-36 and GMW-O-15 will resume once the TFE pumps for these wells have been repaired. 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) One equipment blank and one trip blank sample were collected during this 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
NOVEMBER 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
	11/23/10	74.53	27.1	27.35	0.25	NC
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
	11/23/10	74.23	NM	NM	NC	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
	11/16/10	74.10	---	26.58	---	47.52
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
	11/16/10	74.36	NM	NM	NC	NC
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
	11/16/10	74.46	---	26.67	---	47.79
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
	11/16/10	73.97	---	26.46	---	47.51

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
 NOVEMBER 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-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	<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	<25	<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	560	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	2,200	11,800	10,000	<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	9,100	3,900	6,000	750	4,500	120	890	---	---	---	---
	02/20/08	34,000	9,100	5,200	8,300	940	6,200	<20	<100	---	---	---	---
04/16/08	42,000	11,000	32,000	2,100	2,000	160	<20	26	---	---	---	---	
07/22/08	17,000	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	
04/16/10	4,200	25,000	850	150	89	200	<50	11	3,700	<50	<50	<50	
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	<10	<10	<10	
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	<10	130	13,000	<10	<10	1.6	
10/5/2010 ²	15,000	3,100	2,500	1,300	390	1,790	<20	30	1,300	<20	<20	<20	
11/23/10	31,000	21,000	5,100	3,400	890	3,900	<40	51	470	<40	<40	<40	
GMW-O-15	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	<20	180	1,500	<20	<20	<20
	06/25/10 ²	490	900	96	9.7	9.6	33.4	<10	240	2,900	<10	<10	1.1
	07/13/10 ²	580	250	110	7.5	11	33.7	<10	300	5,100	<10	<10	1.5
	08/12/10 ²	710	370	120	4.1	10	43	<10	260	5,300	<10	<10	1.5
	09/20/10 ²	620	500	120	3.3	13	29.4	<10	230	6,000	<10	<10	1.4
	10/5/2010 ²	14,000	6,000	1,800	280	92	1,120	<20	3,200	3,000	<20	<20	35
	11/23/10	---	---	---	---	---	---	---	---	---	---	---	---
GMW-O-16	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	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	---	---	---	---
	05/07/99	<500	---	0.66	<0.5	<0.5	0.72	<1	7.6	---	---	---	---
	11/18/99	<416	<100	<0.5	<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
 NOVEMBER 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	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	0.68	—	—	—	—
	02/07/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.63	—	—	—	—
	04/16/08	<50	<100	<0.5	1.2	0.59	5.5	<0.5	0.65	—	—	—	—
	10/14/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<10	<10	<10	<10
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<10
	10/21/09	<50	<100	250	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<10
	03/16/10	<50	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<10
	04/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<10
	05/26/10	<50	120	<0.5	<0.5	<0.5	<0.5	<0.5	0.88	<10	<10	<10	<10
	06/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<10	<10	<10	<10
	07/13/10	<50	<100	0.73	<0.5	<0.5	<0.5	<0.5	1.9	<10	<10	<10	<10
	08/12/10	<50	<100	0.50	<0.5	<0.5	<0.5	<0.5	2.3	<10	<10	<10	<10
	09/20/10	<50	170	0.69	<0.5	<0.5	<0.5	<0.5	3.1	<10	<10	<10	<10
10/06/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<10	<10	<10	<10	
11/16/10	<50	160	<0.5	<0.5	<0.5	<0.5	<0.5	4	<10	<10	<10	<10	
GMW-O-18	11/26/96	—	—	<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	<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	<0.5	1	<0.5	2.6	<0.5	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	<25	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	—	—	—	—
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	—	—	—	—
	04/15/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	—	—	—	—
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	140	<10	<10	<10	
10/21/09	2,400	680	170	440	17	410	<5	490	480	<5	<5	<5	
03/16/10	<50	<100	0.60	1.3	<0.50	1.77	<0.50	4.5	550	<10	<10	<10	
04/16/10	1,300	6,600	0.67	<0.50	3.1	12.9	<0.50	1.2	2,400	<10	<10	<10	

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
NOVEMBER 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	Ethyl-benzene	Total Xylenes ¹	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-18 (Cont'd)	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	0.90	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
	11/16/2010 ²	2,000	120	<0.5	<0.5	<0.5	<0.5	<1.0	1	21,000	<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	---	---	---	---
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	---	---	---	---	
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	---	<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	<0.5	17	24.5	<1	150	---	---	---	
09/02/05	160	<100	2.1	<0.5	<0.5	<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	---	---	---	---	
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	<10	<10	<1	<1	
03/15/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<10	<1.0	<1.0	
04/16/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<10	<1.0	<1.0	
05/26/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<10	<1.0	<1.0	
06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<10	<1.0	<1.0	
07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0	
08/12/10	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0	
09/20/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0	
10/06/10	<50	340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0	
11/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0	
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	---	---	---	---	
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	---	---	---	---	

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
NOVEMBER 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)	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	2,400	1,000	71	<100	<100	<100	<50	1,400	47,000	<200	<200	<200
	04/23/09	1,200	760	250	<2	5.7	5.7	<4	1,200	35,000	<4	<4	<4
	07/22/09	3,800	1,800	2,000	20	98	77	<5	800	54,000	<5	<5	<5
	10/23/09	2,900	1,300	1,100	18	33	69	<10	350	50,000	<10	<10	<10
	03/18/10	1,700	890	370	2.1	33	9.4	<4.0	350	58,000	<4.0	<4.0	<4.0
	04/16/10	1,600	1,100	110	<2.5	9.7	4.6	<5.0	340	91,000	<5.0	<5.0	<5.0
	05/27/10	3,200 J	1,300	1,100	<25	66	<25	<50	360	69,000	<50	<50	<50
06/22/10	3,600	900	1,500	<10	96	<10	<20	450	73,000	<20	<20	<20	
07/14/10	4,600	1,300	1,900	<10	180	<10	<20	530	82,000	<20	<20	<20	
08/12/10	9,100	1,600	4,400	<5.0	340	50.6	<10	490	64,000	<10	<10	<10	
09/20/10	8,500	1,800	4,200	2.8	110	16.8	<4.0	370	43,000	<4.0	<4.0	<4.0	
10/07/10	6,300	1,000	3,100	<20	56	<20	<40	150	40,000	<40	<40	<40	
11/16/10	3,400	1,600	1,600	<10	10	15	<20	130	20,000	<20	<20	<20	

- 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 Calsciencia 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
NOVEMBER 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	n-Propylbenzene
GMW-36	11/23/10	750	280	65

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

Remediation Area	Remediation Well ID	Pump Type	11/22/10 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	ON	
	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	ON		
GMW-O-23	TFE	OFF		
Southeastern Area	GMW-O-15	TFE	OFF	
	GMW-O-18	TFE	ON	
	GMW-36	TFE	OFF	

Notes

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

Abbreviations

GWE = groundwater extraction.
 TFE = total fluids extraction.