



**Transmittal  
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**Date:** November 11, 2010

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**To:** Mr. Paul Cho, PG  
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**Subject:** September 2010 Monthly Groundwater Monitoring Submittal

**Project Name:** Defense Fuel Support Point (DFSP) Norwalk

**Item Description**

- 1 Table 1 - Summary of Groundwater Elevations, September 2010 Monthly Monitoring Event
- 2 Table 2 - Summary of Groundwater Analytical Data, September 2010 Monthly Monitoring Event
- 3 Table 3 - Summary of Miscellaneous Compounds Detected in Groundwater Samples, September 2010 Monthly Monitoring Event
- 4 Table 4 - Summary of Total Fluids and Groundwater Extraction Pump Operation, September 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 September 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 September 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, except for GMW-36, GMW-O-15, and GMW-O-18 because these wells were in operation. Samples were collected from the operating wells through the wellhead sampling ports.
- 2) Groundwater elevations have generally decreased (0.29 to 0.52 feet) in the area since the August 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 total fluids extraction (TFE) but also have been used to monitor groundwater conditions within the extent of free product in the southeastern

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

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**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**SEPTEMBER 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 <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-36	07/10/97	430											
	01/09/98	4000		22	21	6.1	100	<5	7700				
	05/20/98	1400		<0.3	<0.3	<10	<20	<0.5	19,600				
	11/17/98	7900		2100	1370	70	650	<50	34,800				
	05/07/99	2800		<10		<10	<10	<25	14,000				
	11/18/99	51,000		8100	5600	<250	1770	<250	47,000				
	05/17/00	59,000		14,000	6700	480	4100	<130	45,000				
	11/30/00	110,000		20,000	19,000	1600	8100	<0.5	13,000				
	02/06/01	75,000		18,000	13,000	1400	6100	<50	9100				
	05/10/01	12,000		3700	2500	420	1730	<0.5	1600				
	09/19/01	21,000		5800	3600	580	2080	<13	1000				
	11/06/01	63,000		16,000	13,000	1600	7700	<25	3200				
	01/30/02	130,000		68,000	21,000	20,000	1700	9000	<125	42,000			
	04/10/02	150,000		25,000	22,000	1800	10,000	<50	67,000				
	07/30/02	81,000		110,000	28,000	29,000	2200	11,800	<50	37,000			
	12/06/06	32,000		5300	4300	480	4300	<50	1600				
	03/13/07	54,000		9400	12,000	1100	8200	<200	3800				
	05/05/07	69,000		9800	11,000	1200	8000	<200	3900				
	08/29/07	30,000		9800	11,000	1200	8000	<200	3900				
	02/20/08	34,000		9100	3900	4200	4500	120	890				
	04/16/08	42,000		11,000	5200	8300	940	<200	<100				
	10/16/08	17,000		32,000	2100	2000	160	2300	<20	26			
	07/22/09	24,000		15,000	3800	5400	720	3380	<50	28	<500	<50	<50
	03/16/10	8000		22,000	830	1100	140	700	<10	16	690	<10	<10
	04/16/10	4200		25,000	850	150	89	200	<5.0	11	3700	<5.0	<5.0
	05/24/10	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/25/10 <sup>2,3</sup>	14,000		43,000	1100	1500	160	1260	<20	11	2700	<20	<20
07/13/10 <sup>2</sup>	500		4500	49	51	4.9	68	<0.5	0.91	340	<10	<10	
08/12/10 <sup>2</sup>	9200		2200	1400	1100	52	1580	<10	18	1600	<10	<10	
09/20/10 <sup>2</sup>	3300		5200	130	18	36	260	<10	130	13,000	<10	<10	
GMW-O-15	10/16/08	1700		550	3	37	34.1	<5	110				
	03/16/10 <sup>2</sup>	530		8900	1.1	0.64	2.7	<0.50	400	<10	<10	<10	1.9
	04/16/10	6700		1700	54	120	176	<10	1300	1800	<10	<10	11
	05/25/10	650		5,600	16	8.4	44	<2.0	180	1500	<2.0	<2.0	<2.0
	06/25/10 <sup>2</sup>	490		900	9.7	9.6	33.4	<1.0	240	2900	<1.0	<1.0	1.1
	07/13/10 <sup>2</sup>	580		250	7.5	11	33.7	<1.0	300	5100	<1.0	<1.0	1.5
	08/12/10 <sup>2</sup>	710		370	4.1	10	43	<1.0	260	5900	<1.0	<1.0	1.5
	09/20/10 <sup>2</sup>	620		500	3.3	13	29.4	<1.0	230	6000	<1.0	<1.0	1.4
	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	4600												
05/20/98	<300		<0.5	<0.5	<0.5	<1	<0.5	76					
11/13/98	<300		<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		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
05/17/00	<300		<0.5	<0.5	<0.5	<0.5	<0.5	0.8					
11/30/00	<300		<100	0.8	<0.5	<0.5	<0.5	0.6					

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**SEPTEMBER 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 <sup>1</sup>	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	6500	<1.0	<1.0	<1.0
	06/25/10 <sup>2</sup>	74	140	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8300	<1.0	<1.0	<1.0
	07/14/10 <sup>2</sup>	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 <sup>2</sup>	220	<100	1	<0.5	<0.5	<0.5	<1.0	0.93	15,000	<1.0	<1.0	<1.0
GMW-O-19	09/20/10 <sup>2</sup>	290	<100	1.1	<0.5	<0.5	0.55	<1.0	1.2	23,000	<1.0	<1.0	<1.0
	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	1400	<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	17	24.5	<1	<0.5	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	<0.5	---	---	---
	02/28/06	<50	<100	<0.5	<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	<0.5	---	---	---
	12/05/06	<50	<100	<0.5	<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	<0.5	---	---	---
	11/15/07	<50	<100	<0.5	<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	<0.5	---	---	---
	10/14/08	<50	<100	<0.5	<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	<0.5	---	---	---	
10/20/09	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
03/15/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
04/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
05/26/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
06/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
08/12/10	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
09/20/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
PZ-5	10/07/03	6900	<100	11	<10	<10	<10	<20	9100	---	---	---	---
	05/05/05	<50	<100	0.87	<0.5	<0.5	<0.5	<0.5	43	---	---	---	---
	11/02/05	1200	<100	<2.5	<2.5	<2.5	<2.5	<5	2100	---	---	---	---
	02/28/06	160	<100	<0.5	<0.5	<0.5	<0.5	<1	380	---	---	---	---
	05/04/06	1200	<100	<2	<2	<2	<2	<4	1900	---	---	---	---
	12/07/06	480	<100	<1.5	<1.5	<1.5	<1.5	<2	960	---	---	---	---

**TABLE 3**  
**SUMMARY OF MISCELLANEOUS COMPOUNDS DETECTED IN GROUNDWATER SAMPLES**  
**SEPTEMBER 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GMW-36	09/20/10	230	120	3.4	2	75	18	4.5	2.9
GMW-O-15	09/20/10	11	5	<1.0	<1.0	<10	<1.0	1.3	<1.0
PZ-5	09/20/10	22	17	<4.0	11	18	<4.0	15	<4.0

**Notes**  
 <1.0 = not detected at or above the laboratory reporting limit shown.