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Date:	May 10, 2011	From:		Jablonski
To:	Mr. Paul Cho, PG California Regional Water Quality Control Board – Los Angeles Region (RWQCB) 320 West 4 <sup>th</sup> Street, Suite 200 Los Angeles, CA 90013	,	1000	M HILL Wilshire Blvd., 21 <sup>st</sup> Floor Angeles, CA 90017
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Subject:March 2011 Monthly Groundwater Monitoring SubmittalProject Name:Defense Fuel Support Point (DFSP) Norwalk

## Item Description

- 1 Table 1 Summary of Groundwater Elevations, Monthly Monitoring Events
- 2 Table 2 Summary of Groundwater Analytical Data, March 2011 Monthly Monitoring Event
- 3 Table 3 Summary of Miscellaneous Compounds Detected in Groundwater Samples, March 2011 Monthly Monitoring Event
- 4 Table 4 Summary of Total Fluids and Groundwater Extraction Pump Operation, March 2011 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 March 2011 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 at the end of March 2011 is summarized in Table 4.

- 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 wells GMW-36, GMW-O-15, and GMW-O-18 due to the presence of the extraction pumps. Samples were collected from wells GMW-36, GMW-O-15, and GMW-O-18 through the wellhead sampling ports.
- 2) 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.
- 3) Groundwater elevations were generally higher (0.03 to 0.27 feet) in the southeastern area since the February 2011 monitoring event. Free product was not detected in any of the wells

that were gauged in March.

- 4) 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. Reported concentrations of some volatile organic compounds (VOCs) (benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl alcohol [MTBE], and tertiary butyl alcohol [TBA]), and total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g) in well GMW-36 during March 2011 were higher than concentrations reported during February 2011. A decrease in TPH quantified as fuel product (TPH-fp) was reported in well GMW-36 relative to the concentration reported during February 2011. A decrease in TPH-g, TPH-fp, benzene, toluene, ethylbenzene, total xylenes, MTBE, TBA, and tertiary amyl methyl ether (TAME) was reported in well GMW-O-15 during March 2011. 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.
- 5) 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 March 2011. TPH-fp (100 micrograms per liter [µg/L]) and MTBE (1.6 µg/L) were detected in well GMW-O-16 during March 2011; TPH-g and remaining VOCs were non-detect. TPH-g, TPH-fp, benzene, toluene, ethylbenzene, total xylenes, and MTBE concentrations reported in well GMW-O-18 during March 2011 were lower than the concentrations reported during February 2011. The TBA concentration in well GMW-O-18 increased from 1.600 µg/L during February 2011 to 3,300 µg/L during March 2011. TPH-g, benzene, and total xylenes concentrations reporting in well PZ-5 during March 2011 were lower than the concentrations reported during February 2011. TPH-fp, MTBE and TBA concentrations increased relative to the concentrations reported during February 2011. To address the dissolved-phase constituents in the southeastern area, TFE was expanded to include well GMW-O-18 in April 2010. In addition, an additional groundwater assessment near well GMW-O-18 was completed in late January 2011. The results of this investigation will be presented in a separate transmittal.
- 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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#### SUMMARY OF GROUNDWATER ELEVATIONS MONTHLY MONITORING EVENTS

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
-	12/22/10	74.53	26.84	28.35	1.51	NC
-	01/10/11	74.53	20.04	29.10	1.40	NC
	02/24/11	74.53	NM	29.10 NM	NC	NC
-						
GMW-O-15	03/23/11	74.53	NM	NM	NC	NC
GIVIVV-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
	12/22/10	74.23		26.31		47.92
	01/10/11	74.23		25.97		48.26
	02/24/11	74.23	NM	NM	NC	NC
	03/23/11	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
-	12/22/10	74.10		27.00		47.10
F	01/10/11	74.10		26.42		47.68
	02/24/11	74.10		26.02		48.08
01414 0 40	03/23/11	74.10		25.99		48.11
GMW-O-18	03/15/10	74.36		26.54		47.82
F	04/16/10	74.36		24.25		50.11
F	05/24/10	74.36		26.26		48.10
F	05/28/10	74.36		26.03		48.33
F	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

#### SUMMARY OF GROUNDWATER ELEVATIONS MONTHLY MONITORING EVENTS

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-O-18	12/22/10	74.36	NM	NM	NC	NC
(Cont'd)	01/10/11	74.36	NM	NM	NC	NC
	02/24/11	74.36	NM	NM	NC	NC
	03/23/11	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
	12/22/10	74.46		26.70		47.76
	01/10/11	74.46		26.37		48.09
	02/24/11	74.46		25.55		48.91
	03/23/11	74.46		25.29		49.17
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
	12/22/10	73.97		25.12		48.85
	01/10/11	73.97		26.54		47.43
	02/24/11	73.97		25.55		48.42
	03/23/11	73.97		25.28		48.69

### <u>Notes</u>

--- = 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.

#### SUMMARY OF GROUNDWATER ANALYTICAL DATA MARCH 2011 MONTHLY MONITORING EVENT Defense Fuel Support Point Norwalk

### Norwalk, California

Sample ID	Date	TPH-q	TPH-fp	Benzene	Toluene	Ethyl-	Total	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
•		0	тттр	Delizene	Toluelle	benzene	Xylenes <sup>1</sup>	1,2-DCA	MIDL	IDA		LIDL	
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				
	02/20/08	34,000	9,100	3,900	6,000	750	4,600	<50	43				
	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	<50	<50
	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	<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 <sup>2</sup>	500	4,500	49	51	5	68	<0.5	0.91	340	<1.0	<1.0	<1.0
	08/12/10 <sup>2</sup>	9,200	2,200	1,400	1,100	52	1,580	<10	18	1,600	<10	<10	<10
	09/20/10 <sup>2</sup>	3,300	5,200	130	18	36	260	<1.0	130	13,000	<1.0	<1.0	1.6
	10/5/2010 <sup>2</sup>	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
	12/22/10	63,000	73,000	6,700	9,600	1,700	8,300	<50	28	<500	<50	<50	<50
	01/12/11	320,000	130,000	4,600	2,900	1,400	13,300	<200	<100	<2000	<200	<200	<200
	2/24/11 <sup>2</sup>	1,600	3,900	110	77	19	188	<1.0	3	2,200	<1.0	<1.0	<1.0
	3/23/11 <sup>2</sup>	3,200	2,900	360	340	28	360	<3.0	7.6	2,400	<3.0	<3.0	<3.0
GMW-O-15	10/16/08	1,700	2,900	550	340	37	34.1	<5	110	2,400	<3.0	<3.0	<3.0
	03/16/10 <sup>2</sup>	530	2,800 8,900	10	1.1	0.64	2.7	<0.50	400	<10	<1.0	<1.0	1.9
		6,700	8,900 62,000	1,700	54		176	<0.50	1,300		<1.0	<1.0	1.9
	04/16/10	650	5,600	,	54 16	120	44		1,300	1,800 1,500			<2.0
	05/25/10			82		8.4		<2.0			<2.0	<2.0	
	06/25/10 <sup>2</sup>	490	900	96	9.7	9.6	33.4	<1.0	240	2,900	<1.0	<1.0	1.1
	07/13/10 <sup>2</sup>	580	250	110	7.5	11	33.7	<1.0	300	5,100	<1.0	<1.0	1.5

#### SUMMARY OF GROUNDWATER ANALYTICAL DATA MARCH 2011 MONTHLY MONITORING EVENT

Defense Fuel Support Point Norwalk

Norwalk, California

Sample ID	Date	TPH-q	TPH-fp	Benzene	Toluene	Ethyl-	Total	1,2-DCA	МТВЕ	ТВА	DIPE	ETBE	TAME
Sample ID	Date	теп-у	теп-тр	Denzene	Toluene	benzene	Xylenes <sup>1</sup>	1, <b>2-DCA</b>	WIIDE	IDA	DIFE	EIDE	IAME
GMW-O-15	08/12/10 <sup>2</sup>	710	370	120	4.1	10	43	<1.0	260	5,300	<1.0	<1.0	1.5
(Cont'd)	09/20/10 <sup>2</sup>	620	500	120	3.3	13	29.4	<1.0	230	6,000	<1.0	<1.0	1.4
	10/5/2010 <sup>2</sup>	14,000	6,000	1,800	280	92	1,120	<20	3,200	3,000	<20	<20	35
	11/23/10												
	12/22/10	28,000	19,000	3,900	610	850	4,200	<40	1,900	1,300	<40	<40	<40
	01/12/11	12,000	15,000	1,300	49	280	1,030	<20	430	12,000	<20	<20	<20
	2/24/11 <sup>2</sup>	12,000	10,000	700	450	310	1,770	<1.0	970	4,100	<1.0	<1.0	20
	3/23/11 <sup>2</sup>	2,400	4,300	210	47	39	250	<2.0	310	3,600	<2.0	<2.0	5.2
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				
	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 0.98	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5				
	10/22/02 04/09/03	<300 <50	<100 <100	1.6 <0.5	<0.98	<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	0.6	<0.5	0.65				
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<10	<1	<1	<1
	10/21/09	<50	250	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	03/16/10	<50	140	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<10	<1.0	<1.0	<1.0
	04/16/10	<50	<100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<10	<1.0	<1.0	<1.0
	05/26/10	<50	120	< 0.50	<0.50	< 0.50	<0.50	< 0.50	0.88	<10	<1.0	<1.0	<1.0
	06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1.0	<1.0	<1.0

#### SUMMARY OF GROUNDWATER ANALYTICAL DATA MARCH 2011 MONTHLY MONITORING EVENT

Defense Fuel Support Point Norwalk

Norwalk, California

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl- benzene	Total Xylenes <sup>1</sup>	1,2-DCA	МТВЕ	ТВА	DIPE	ETBE	TAME
GMW-O-16	07/13/10	<50	<100	0.73	<0.5			<0.5	1.9	.10	<1.0	<1.0	<1.0
(Cont'd)	07/13/10 08/12/10	<50 <50	<100	0.73	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	2.3	<10 <10	<1.0	<1.0	<1.0
(Cont d)	08/12/10	<50 <50	170	0.50	<0.5	<0.5	<0.5	<0.5	3.1	<10	<1.0	<1.0	<1.0
-	10/06/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<10	<1.0	<1.0	<1.0
	11/16/10	<50	160	<0.5	<0.5	<0.5	<0.5	<0.5	4	<10	<1.0	<1.0	<1.0
	12/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	2	<10	<1.0	<1.0	<1.0
-	01/11/11	<50	<100	1	<0.5	<0.5	<0.5	<0.5	1	<10	<1.0	<1.0	<1.0
-	02/24/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1	<10	<1.0	<1.0	<1.0
	03/23/11	<50	100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<10	<1.0	<1.0	<1.0
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		<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	<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	<1	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	<1.0	<1.0	<1.0
	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	<1.0	<1.0	<1.0
-	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 <sup>2</sup>	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 <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
	09/20/10 <sup>2</sup>	290	<100	1	<0.5	<0.5	0.55	<1.0	1.2	23,000	<1.0	<1.0	<1.0
	10/5/10 <sup>2</sup>	4,000	1,100	1,200	420	23	231	<10	670	2,600	<10	<10	<10
	11/16/10 <sup>2</sup>	2,000	120	<0.5	<0.5	<0.5	<0.5	<1.0	1	21,000	<1.0	<1.0	<1.0
	12/22/10												
ľ	1/12/11 <sup>2</sup>	3,000	130	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	29,000	<2.0	<2.0	<2.0
F	2/24/11 <sup>2</sup>	1,400	2,100	60	31	19	123	<0.5	380	1,600	<1.0	<1.0	3.9
ŀ	3/23/11 <sup>2</sup>	110	230	6	1.4	1.1	8.1	<0.5	2.9	3,300	<1.0	<1.0	<1.0
GMW-O-19	11/25/96			<0.5	<0.87	2.8	5.1	<0.5	<5	3,300	<1.0	<1.0	<1.0
0.0100-19	07/16/97	<100		<0.5	<0.67	<0.5	<1	<0.5	<5				
ŀ	01/06/98	<100		<0.5	<0.5	<0.5	<1.5	<0.5	<5				

#### SUMMARY OF GROUNDWATER ANALYTICAL DATA MARCH 2011 MONTHLY MONITORING EVENT Defense Fuel Support Point Norwalk

#### Norwalk, California

		TDU	TRUL		<b>-</b> .	Ethyl-	Total	4		-	DIDE	FTDE	
Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	benzene	Xylenes <sup>1</sup>	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
GMW-O-19	05/20/98	<300		<0.5	<0.5	<0.5	<1	<0.5	2				
(Cont'd)	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	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				
	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	<1	<1	<1
	10/20/09	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	03/15/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	04/16/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	05/26/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	08/12/10	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	09/20/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	10/06/10	<50	340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	11/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	12/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	01/11/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	02/24/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	03/23/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
PZ-5	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				

#### SUMMARY OF GROUNDWATER ANALYTICAL DATA MARCH 2011 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	ТВА	DIPE	ETBE	TAME
PZ-5	09/19/06	480	<100	<1	<1	<1	<1	<2	1,200				
(Cont'd)	12/07/06	480	<100	<1.5	<1.5	<1.5	<1.5	<3	960				
(001110)	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 4	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	<2	<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	53	69	<10	500	50,000	<10	<10	<10
	03/16/10	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
	12/22/10	3,400	1,700	1,600	<10	<10	<10	<20	100	22,000	<20	<20	<20
	01/12/11	4,000	1,200	1,500	<5.0	<5.0	<5.0	<10	130	38,000	<10	<10	<10
	02/24/11	1,400	400	390	<2.0	<2.0	3.8	<4.0	84	27,000	<4.0	<4.0	<4.0
	03/23/11	1,100	820	210	<1.0	<1.0	2.4	<2.0	140	29,000	<2.0	<2.0	<2.0

ETBE = ethyl tertiary butyl ether.

MTBE = methyl tertiary butyl ether.

Notes

1. The total xylenes result is the sum of m,p-xylenes and o-xylenes when detected.

2. Groundwater sample collected through a sampling port.

3. Free product was present.

4. Split groundwater sample analyzed by Calscience 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.

TAME = tertiary amyl methyl ether. J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.

TBA = tertiary butyl alcohol. TPH-fp = total extractable petroleum hydrocarbons quantified using a site fuel product standard. TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13).

1,2-DCA = 1,2-dichloroethane.

DIPE = di-isopropyl ether.

### SUMMARY OF MISCELLANOUS COMPOUNDS DETECTED IN GROUNDWATER SAMPLES MARCH 2011 MONTHLY MONITORING EVENT

Defense Fuel Support Point Norwalk Norwalk, California

Sample ID	Date	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
GMW-36	03/23/11	90	46	<3.0	49	<3.0	<3.0	<3.0
GMW-O-15	03/23/11	98	36	2.8	28	4	10	3
GMW-O-18	03/23/11	2.6	1.2	<1.0	<10	<1.0	<1.0	<1.0
PZ-5	03/23/11	4.3	<2.0	<2.0	<10	<2.0	<2.0	<2.0

### SUMMARY OF TOTAL FLUIDS AND GROUNDWATER EXTRACTION PUMP OPERATION MARCH 2011 MONTHLY MONITORING EVENT

			3/29/11	
Remediation	Remediation	Pump	Pump Status	
Area	Well ID	Туре	(ON/OFF)	Comments
	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	
South-Central	MW-SF-12	TFE	OFF	
Area	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	OFF	
	GMW-O-20	TFE	OFF	
	GMW-O-21	TFE	ON	
	GMW-O-23	TFE	OFF	
Southeastern	GMW-O-15	TFE	ON	
	GMW-O-18	TFE	ON	
Area	GMW-36	TFE	ON	

Defense Fuel Support Point Norwalk Norwalk, California

### <u>Notes</u>

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

# **Abbreviations**

GWE = groundwater extraction. TFE = total fluids extraction.