

April 9, 2009

Mr. Jeffery Hu
Water Resources Control Engineer
California Environmental Protection Agency
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

**Re: 2009 First Quarter Sentry Groundwater Monitoring Results
DFSP Norwalk Facility, Norwalk
NPDES No. CAC834001
File No. 90-02**

Dear Mr. Hu:

Parsons is transmitting the groundwater monitoring results for the 2009 first quarter sentry event at the DFSP Norwalk Facility in Norwalk, California.

Parsons gauged 80 wells for depth to water and the presence of product on February 9 and 10, 2009. Three wells, GW-15, TF-17, and TF-20, contained free product with thickness measured as 0.04, 1.61, and 0.61, respectively, as summarized in Table 1. Following gauging, eleven wells, GMW-47, GMW-57 through GMW-64, MW-14, and MW-22 MID were purged on February 11 and sampled on February 12. A vacuum truck was used to purge a minimum of three well volumes of water from each well until geochemical parameters became stable. The wells were then sampled with new disposable sample bailers. All purged groundwater was transferred to the groundwater treatment system.

All groundwater samples were labeled, entered onto a chain-of-custody form, and delivered to Calscience Environmental Laboratories, Inc., a State-certified analytical laboratory in Garden Grove, California. Groundwater samples were analyzed using U.S. Environmental Protection Agency (EPA) Method 8015 modified for total petroleum hydrocarbons (TPH) as jet propellant 5 (TPH at JP5). Groundwater samples were also analyzed for volatile organic compounds (VOCs) using EPA Method 8260B, which includes methyl-t-butyl ether (MTBE) and oxygenates. Table 2 presents a summary of the analytes detected in the sampled wells.

TPH as JP5 was detected in six (GMW-47, -57, -58, -59, -60, and -62) of the sampled wells, with GMW-59 indicating the highest concentration at 2,600 micrograms per liter ($\mu\text{g/L}$). TPHg was also detected in six (GMW-47, -58, -59, -60, -61, and -62) of the sampled wells, with GMW-62 indicating the highest concentration at 3,600 $\mu\text{g/L}$. Benzene was detected in five wells sampled, with the highest concentration present in GMW-62 (1,800 $\mu\text{g/L}$). GMW-62 also contained the highest concentrations of ethylbenzene, toluene, and xylenes. MTBE was detected in four wells (GMW-58, GMW-59, MW-14, and MW-22 MID) at concentrations ranging from 0.55 $\mu\text{g/L}$ to 18 $\mu\text{g/L}$.

The information presented in this letter-report will also be included in the 2009 first semiannual groundwater monitoring report for the site. If you have any questions, please call me at 602-734-1083.

Sincerely,

PARSONS



Redwan Hassan, PG
Project Manager

Attachments: Table 1 – Groundwater Elevations
Table 2 – Summary of Groundwater Analytical Data
Table 3 – Summary of Miscellaneous Compounds Detected in Groundwater

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Mr. Steve Osborn, KMEP

RAB Members:

Ms. Mary Jane McIntosh
Dr. Eugene Garcia
Mr. Bob Hoskins
Mr. William Miller
Ms. Tracy Winkler

Table 1

**Groundwater Elevations
First Quarter 2009 Sentry Event**

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Elevation (ft msl) ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet) ²	Groundwater Elevation (ft msl) ¹
EXP-1	09-Feb-09	78.44		52.56		25.88
EXP-2	09-Feb-09	79.43		52.81		26.62
EXP-3	10-Feb-09	77.58		52.16		25.42
GMW-5	09-Feb-09	77.61		29.88		47.73
GMW-6	09-Feb-09	77.31		29.62		47.69
GMW-7	09-Feb-09	75.84		26.23		49.61
GMW-12	10-Feb-09	75.21		26.39		48.82
GMW-15	09-Feb-09	76.21		28.51		47.70
GMW-16	09-Feb-09	77.00		29.18		47.82
GMW-17	10-Feb-09	74.66		27.05		47.61
GMW-18	10-Feb-09	75.36		26.50		48.86
GMW-19	10-Feb-09	76.83		27.35		49.48
GMW-21	09-Feb-09	76.23		27.48		48.75
GMW-31	10-Feb-09	76.50		28.87		47.63
GMW-32	10-Feb-09	74.62		26.15		48.47
GMW-33	10-Feb-09	74.88		27.05		47.83
GMW-35	10-Feb-09	76.12		27.70		48.42
GMW-40	10-Feb-09	73.13		25.05		48.08
GMW-41	10-Feb-09	74.46		26.58		47.88
GMW-43	10-Feb-09	74.44		26.79		47.65
GMW-44	10-Feb-09	74.45		26.87		47.58
GMW-45	09-Feb-09	74.45		27.68		46.77
GMW-47	09-Feb-09	75.98		28.07		47.91
GMW-50	09-Feb-09	75.51		27.40		48.11
GMW-51	09-Feb-09	75.93		27.49		48.44
GMW-52	10-Feb-09	75.03		26.95		48.08
GMW-53	10-Feb-09	74.90		26.78		48.12
GMW-54	10-Feb-09	75.16		26.78		48.38
GMW-56	09-Feb-09	76.52		28.59		47.93
GMW-57	09-Feb-09	76.66		28.72		47.94
GMW-58	09-Feb-09	75.48		26.78		48.70
GMW-59	09-Feb-09	75.28		26.05		49.23
GMW-60	09-Feb-09	76.24		28.27		47.97
GMW-61	09-Feb-09	75.60		27.56		48.04

Table 1

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First Quarter 2009 Sentry Event**

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Elevation (ft msl) ¹	Depth to Product (feet) ²	Depth to Water (feet) ²	Apparent Product Thickness (feet) ²	Groundwater Elevation (ft msl) ¹
GMW-62	10-Feb-09	76.34		28.31		48.03
GMW-63	10-Feb-09	77.32		29.08		48.24
GMW-64	10-Feb-09	75.84		27.47		48.37
GW-1	09-Feb-09	75.46		27.06		48.40
GW-2	09-Feb-09	76.39		27.61		48.78
GW-3	09-Feb-09	75.79		27.12		48.67
GW-4	09-Feb-09	74.77		26.05		48.72
GW-5	09-Feb-09	76.99		27.68		49.31
GW-6	09-Feb-09	76.38		27.38		49.00
GW-7	10-Feb-09	75.02		27.75		47.27
GW-8	09-Feb-09	76.15		28.59		47.56
GW-13	09-Feb-09	76.85		28.88		47.97
GW-14	10-Feb-09	76.54		26.62		49.92
GW-15	09-Feb-09	75.36	27.98	28.02	0.04	47.37
MW-10	09-Feb-09	79.12		30.05		49.07
MW-13	09-Feb-09	78.25		29.88		48.37
MW-14	09-Feb-09	78.60		30.77		47.83
MW-16	10-Feb-09	76.87		28.54		48.33
MW-17	09-Feb-09	77.86		29.36		48.50
MW-22(MID)	09-Feb-09	79.57		32.96		46.61
MW-23(MID)	09-Feb-09	79.59		32.78		46.81
MW-24	09-Feb-09	78.51		29.67		48.84
MW-25	09-Feb-09	79.15		30.70		48.45
MW-26	09-Feb-09	77.40		29.11		48.29
MW-27	09-Feb-09	78.46		30.44		48.02
MW-29	10-Feb-09	79.13		30.26		48.87
PZ-3	10-Feb-09	76.17		27.31		48.86
PZ-4	10-Feb-09	76.13		27.05		49.08
TF-8	10-Feb-09	75.60		27.69		47.91
TF-9	10-Feb-09	75.27		27.82		47.45
TF-10	10-Feb-09	74.19		25.94		48.25
TF-11	10-Feb-09	74.95		26.90		48.05
TF-13	10-Feb-09	75.90		26.14		49.76
TF-14	10-Feb-09	74.78		26.91		47.87

Table 1

**Groundwater Elevations
First Quarter 2009 Sentry Event**

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Elevation (ft msl)¹	Depth to Product (feet)²	Depth to Water (feet)²	Apparent Product Thickness (feet)²	Groundwater Elevation (ft msl)¹
TF-15	10-Feb-09	75.40		27.78		47.62
TF-16	10-Feb-09	76.48		27.73		48.75
TF-17	10-Feb-09	75.26	26.05	27.66	1.61	47.92
TF-18	10-Feb-09	73.94		25.88		48.06
TF-19	10-Feb-09	75.61		27.70		47.91
TF-20	10-Feb-09	75.08	27.24	27.85	0.61	47.35
TF-21	10-Feb-09	75.60		26.72		48.88
TF-22	10-Feb-09	74.95		26.32		48.63
TF-23	10-Feb-09	75.31		26.46		48.85
TF-24	09-Feb-09	76.43		29.90		46.53
TF-25	10-Feb-09	74.85		27.62		47.23
TF-26	09-Feb-09	75.85		27.91		47.94

Notes:

¹Feet above mean sea level (MSL), based on Los Angeles County Datum, 1980.

²Below top of casing.

Table 2
Summary of Groundwater Analytical Data
First Quarter 2009 Sentry Event
 Defense Fuel Support Point, Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Well	Sample Date	TPH as JP5 ¹	TPHg ²	Benzene	Toluene	Ethyl-benzene	Xylenes ³	1,2-DCA ⁴	MTBE ⁵
GMW-47	12-Feb-09	460	170	< 0.50 ⁶	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50
GMW-57	12-Feb-09	140	< 100	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50
GMW-58	12-Feb-09	2200	1000	36	< 0.50	0.85	< 1.0	< 0.50	0.55
GMW-59	12-Feb-09	2600	2500	650	< 2.5	< 2.5	< 5.0	< 2.5	3.2
GMW-60	12-Feb-09	490	1600	200	< 1.0	2.5	< 2.0	< 1.0	< 1.0
GMW-61	12-Feb-09	< 100	1100	340	< 2.5	13	57	< 2.5	< 2.5
GMW-62	12-Feb-09	1600	3600	1800	5.1	150	164	< 5.0	< 5.0
GMW-63	12-Feb-09	< 100	< 100	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50
GMW-64	12-Feb-09	< 100	< 100	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50
MW-14	12-Feb-09	< 100	< 100	< 0.50	< 0.50	< 0.50	< 1.0	1.1	1.6
MW-14 (Dup)	12-Feb-09	< 100	< 100	< 0.50	< 0.50	< 0.50	< 1.0	1	1.5
MW-22 MID	12-Feb-09	< 100	< 100	< 0.50	< 0.50	< 0.50	< 1.0	15	18

Notes:

¹TPH as JP5 = total petroleum hydrocarbons against a jet propellant 5 standard.

²TPHg = total petroleum hydrocarbons against a gasoline standard.

³Xylenes = total of m,p-xylene and o-xylene when detected.

⁴1,2-DCA = 1,2-Dichloroethane.

⁵MTBE = Methyl tert-butyl ether.

⁶<0.50 = compound not detected at or above the indicated reporting limit.

⁷Dup = duplicate.

Table 3
Summary of Miscellaneous Compounds Detected in Groundwater
First Quarter 2009 Sentry Event
 Defense Fuel Support Point, Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Well	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Diisopropyl Ether (DIPE)	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Tert-Butyl Alcohol (TBA)	tert-Butylbenzene
GMW-47	12-Feb-09	< 1.0 ¹	< 1.0	< 2.0	8.2	< 10	< 1.0	< 1.0	< 1.0	1.5	< 10	< 1.0
GMW-57	12-Feb-09	< 1.0	< 1.0	< 2.0	1.8	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0
GMW-58	12-Feb-09	< 1.0	< 1.0	< 2.0	43	56	1.9	28	1.9	5.8	< 10	1
GMW-59	12-Feb-09	< 5.0	< 5.0	< 10	18	< 50	< 5.0	16	< 5.0	< 5.0	< 50	< 5.0
GMW-60	12-Feb-09	< 2.0	< 2.0	< 4.0	41	55	2.2	41	< 2.0	8.4	< 20	< 2.0
GMW-61	12-Feb-09	34	5.5	< 10	21	< 50	< 5.0	19	< 5.0	< 5.0	< 50	< 5.0
GMW-62	12-Feb-09	43	< 10	< 20	14	< 100	< 10	11	< 10	< 10	< 100	< 10
MW-22 MID	12-Feb-09	< 1.0	< 1.0	3.1	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	22	< 1.0

Notes:

¹<1.0 = compound not detected at or above the indicated reporting limit.