

September 18, 2012

Mr. Paul Cho, PG, Site Cleanup Unit IV
California Environmental Protection Agency
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

**Subject: 2012 Third Quarter Sentry Groundwater Monitoring Results
Defense Fuel Support Point Norwalk Facility, Norwalk California
NPDES No. CAC834001; File No. 90-02**

Dear Mr. Cho:

Parsons is transmitting the groundwater monitoring results for the 2012 third quarter sentry event at the Defense Fuel Support Point (DFSP) Norwalk Facility in Norwalk, California. A summary of the results is presented here and the details, including field and laboratory reports, will be included in the second 2012 semiannual report that will be prepared by Parsons reporting the data from the entire site, including KMEPs and DLAs. The site location map is shown on Figure 1 and Figure 2 presents the well network.

Groundwater gauging, monitoring, sample collection and laboratory analyses were performed in accordance with the sampling plan. Field activities included measuring water levels and light, non-aqueous phase liquid (LNAPL) thicknesses, low-flow micro purge, and sampling of the designated wells. Eighty six (86) wells were gauged for groundwater levels and LNAPL. Groundwater elevations and LNAPL thickness are presented in Table 1.

Product sheen was observed in three wells (GMW-40, GMW-58, and MW-13) during this groundwater gauging event. LNAPL was measured in ten wells, during the third quarter event at thicknesses ranging from 0.01 feet at TF-20 to 0.43 feet at GMW-62 (located in Holifield Park).

Nineteen wells were purged and sampled on July 9 and 10, 2012. Wells sampled by Blaine Tech Services, Inc. on behalf of Parsons were purged and sampled using low-flow methods in general conformance with ASTM D6771-02. All purged groundwater was transferred to the DLAs onsite 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 as JP5). Groundwater samples were also analyzed for volatile organic compounds (VOCs) using EPA Method 8260B, which includes methyl-tertiary butyl ether (MTBE), tert-butyl

2012 Third Quarter Groundwater Monitoring Results

alcohol (TBA), and oxygenates. Some selected samples were also analyzed for TPH as gasoline (TPHg). Table 2 presents a summary of analytical results for TPH, benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,2-dichloroethane (1,2-DCA), MTBE, and TBA detected in the sampled wells. Table 3 presents a summary of miscellaneous VOCs detected in groundwater.

TPH was detected in groundwater samples collected from the Exposition aquifer monitoring wells, EXP-2 and EXP-3. These two wells also contained detections of TBA at levels of 11 micrograms per liter ($\mu\text{g/L}$) and 9.5J $\mu\text{g/L}$ respectively. These two compounds were not previously detected during the January and April 2012 events. However, TBA did show up in well EXP-3 at a lower level during the fourth quarter 2011 monitoring event.

TPH as JP5 was detected in twelve of the sampled wells, with GMW-18 and GMW-59 indicating the highest concentrations at 7,800 $\mu\text{g/L}$ and 6,300 $\mu\text{g/L}$, respectively. This detected TPH as JP5 concentration is slightly high when compared to concentration reported during previous quarterly sampling events. TPHg was analyzed at the three Exposition aquifer monitoring wells and was not detected at any of these locations.

Benzene was detected in eight wells sampled, with the highest concentration present in GMW-59 (1,100 $\mu\text{g/L}$) which is higher than the previous quarter (930 $\mu\text{g/L}$ in April 2012). Toluene was detected in two wells and at a concentration of 0.42J $\mu\text{g/L}$ in GMW-18 and 0.29J $\mu\text{g/L}$ in well GMW-61. The highest concentration of ethylbenzene was detected at well GW-14 at 16 $\mu\text{g/L}$. The highest concentration of xylene was 10 $\mu\text{g/L}$ detected at well GW-14. MTBE was detected in nine wells with the highest concentration of 9.7 $\mu\text{g/L}$ at GMW-59. In addition to EXP-2, and EXP-3, TBA was detected in seven wells with the highest concentration of 250 $\mu\text{g/L}$ at well GMW-47. 1,2-DCA was detected at four wells with the highest concentration of 6.2 $\mu\text{g/L}$ at GW-2.

Other VOCs detected during this sampling quarter included 1,1,2-trichloroethane, 1,1-DCA, 1,2,4-trimethylbenzene, 2-butanone, acetone, bromodichloromethane, cis-1,2-dichloroethene, carbon disulfide, diisopropyl ether (DIPE), isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, and tert-butylbenzene. Summary of miscellaneous VOCs detected is presented in Table 3.

The information presented in this letter-report will also be included in the 2012 second semiannual groundwater monitoring report for the site. If you have any questions, please call me at 602-734-1083 or Mary Lucas at 626-440-6032.

Sincerely,



Redwan N. Hassan, PG
Senior Project Manager

PARSONS



2012 Third Quarter Groundwater Monitoring Results

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Site Map with Groundwater Well Locations
- Table 1 – Groundwater Elevations
- Table 2 – Summary of Groundwater Analytical Data
- Table 3 – Summary of Miscellaneous VOCs Detected in Groundwater

Distribution:

- Mr. Matthew Young, DLA Energy
- Lt. Col. Tam Gaffney, DLA Energy
- Ms. Leticia Hernandez, URS
- Ms. Adriana Figueroa, City of Norwalk
- Mr. Norman Dupont, City of Norwalk Attorney
- Mr. Charles Emig, City of Cerritos
- Mr. Gary Lynch, Park Water Company
- Ms. Minxia Dong, Norwalk Regional Library
- Mr. Steve Defibaugh, KMEP
- Mr. Mark Wuttig, CH2M Hill
- Mr. Dan Jablonski, CH2M Hill
- Ms. Mary Lucas, Parsons
- Office of Congresswoman Grace Napolitano

RAB Members

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



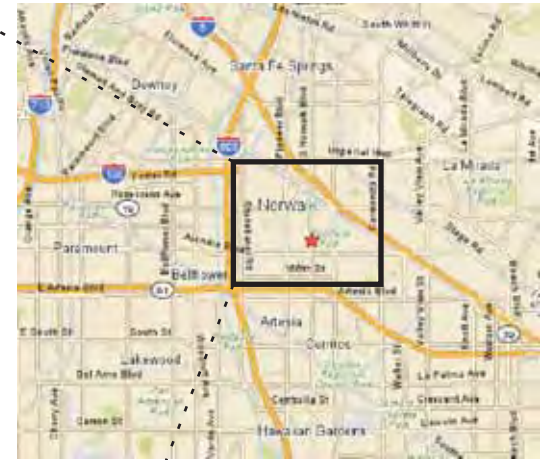


Figure 1
SITE LOCATION MAP

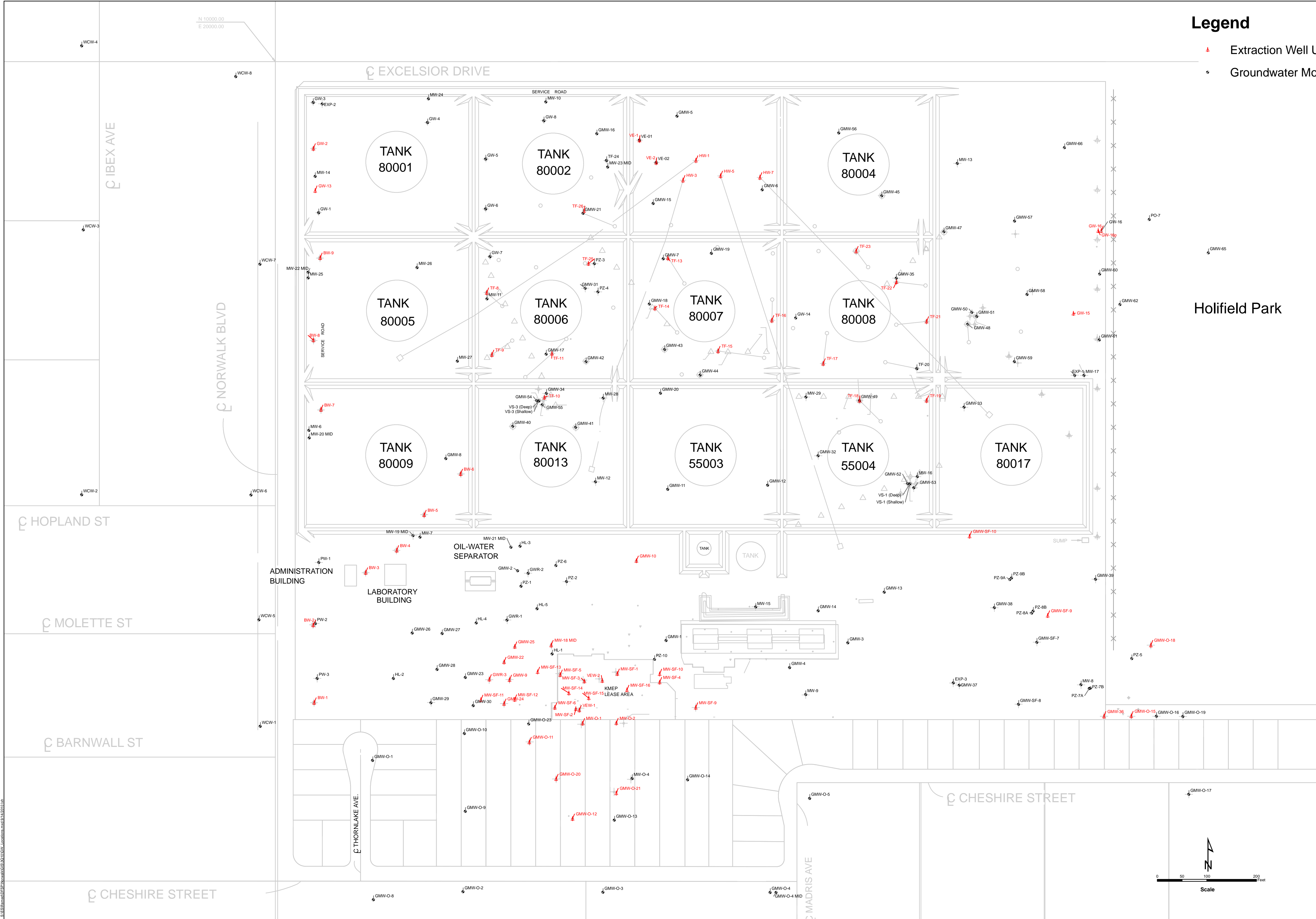
DFSP NORWALK
15306 Norwalk Blvd.
Norwalk, California

PARSONS

Pasadena, California

Legend

- ▲ Extraction Well Used for Site Remediation
- Groundwater Monitoring Well



Holifield Park

FIGURE 2
Site Map with
Groundwater Well Locations
 DFSP Norwalk
 Norwalk, CA
PARSONS
 Pasadena, California

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Table 1
Groundwater Elevations
Third Quarter 2012 Second Semiannual Event

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Diameter (inches)	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	Comments
EXP-1	7/5/2012	4	78.44	--	53.02	--	25.42	
EXP-2	7/5/2012	4	79.43	--	53.37	--	26.06	
EXP-3	7/6/2012	4	77.58	--	52.16	--	25.42	
EXP-4	--	4	79.81	--	--	--	--	
EXP-5	--	4	72.41	--	--	--	--	
GMW-1	--	4	74.77	--	--	--	--	
GMW-2	--	4	73.57	--	--	--	--	
GMW-3	--	4	75.10	--	--	--	--	
GMW-4	--	4	75.45	--	--	--	--	
GMW-5	7/5/2012	4	77.61	--	31.77	--	45.84	
GMW-6	7/5/2012	4	77.31	--	31.32	--	45.99	
GMW-7	7/5/2012	4	75.84	29.86	30.02	0.16	45.95	
GMW-8	--	4	73.20	--	--	--	--	
GMW-9	--	4	74.44	--	--	--	--	
GMW-10	--	4	74.67	--	--	--	--	
GMW-11	--	4	72.90	--	--	--	--	
GMW-12	7/6/2012	4	75.21	--	29.16	--	46.05	
GMW-13	--	4	74.17	--	--	--	--	
GMW-14	--	4	74.72	--	--	--	--	
GMW-15	7/5/2012	4	76.21	--	30.25	--	45.96	
GMW-16	7/5/2012	4	77.00	--	31.09	--	45.91	
GMW-17	7/6/2012	4	74.66	--	28.71	--	45.95	
GMW-18	7/6/2012	4	75.36	--	29.19	--	46.17	
GMW-19	7/5/2012	4	76.83	--	30.87	--	45.96	
GMW-20	7/6/2012	4	75.10	--	29.13	--	45.97	
GMW-21	7/5/2012	4	76.23	--	30.10	--	46.13	Removed cage to verify condition of sock; No change needed.
GMW-22	--	4	74.17	--	--	--	--	
GMW-23	--	4	74.85	--	--	--	--	
GMW-24	--	4	74.04	--	--	--	--	
GMW-25	--	6	74.29	--	--	--	--	
GMW-26	--	4	74.52	--	--	--	--	
GMW-27	--	4	74.41	--	--	--	--	
GMW-28	--	4	74.68	--	--	--	--	
GMW-29	--	4	77.57	--	--	--	--	
GMW-30	--	6	74.91	--	--	--	--	
GMW-31	7/6/2012	4	76.50	--	30.63	--	45.87	
GMW-32	7/6/2012	4	74.62	--	28.56	--	46.06	
GMW-33	7/5/2012	4	74.88	--	--	--	--	Casing damaged; unable to record
GMW-34	7/6/2012	4	75.25	--	29.13	--	46.12	
GMW-35	7/5/2012	4	76.12	30.02	30.17	0.15	46.08	Odor
GMW-36	--	4	74.53	--	--	--	--	
GMW-37	--	4	77.32	--	--	--	--	
GMW-38	--	4	75.47	--	--	--	--	
GMW-39	--	4	75.05	--	--	--	--	

Table 1
Groundwater Elevations
Third Quarter 2012 Second Semiannual Event

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Diameter (inches)	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	Comments
GMW-40	7/6/2012	4	73.13	--	27.23	--	45.90	Sheen
GMW-41	7/6/2012	4	74.46	--	28.58	--	45.88	
GMW-42	7/6/2012	4	75.50	--	29.62	--	45.88	
GMW-43	7/6/2012	4	74.44	--	28.55	--	45.89	
GMW-44	7/6/2012	4	74.45	--	28.85	--	45.60	
GMW-45	7/5/2012	4	75.67	--	29.75	--	45.92	
GMW-47	7/5/2012	4	75.98	--	29.99	--	45.99	
GMW-48	7/5/2012	4	75.03	--	28.20	--	46.83	
GMW-50	7/5/2012	4	75.51	--	29.46	--	46.05	
GMW-51	7/5/2012	4	75.93	--	29.80	--	46.13	
GMW-52	7/6/2012	4	75.03	--	28.89	--	46.14	
GMW-53	7/6/2012	4	74.90	--	28.78	--	46.12	
GMW-54	7/6/2012	4	75.16	--	29.08	--	46.08	
GMW-55	7/6/2012	4	74.60	--	--	--	--	Well damaged
GMW-56	7/5/2012	4	76.52	--	30.46	--	46.06	
GMW-57	7/5/2012	4	76.66	--	30.65	--	46.01	
GMW-58	7/6/2012	4	75.48	--	28.57	--	46.91	Sheen
GMW-59	7/5/2012	4	75.28	--	28.04	--	47.24	
GMW-60	7/6/2012	4	76.24	--	30.08	--	46.16	Odor
GMW-61	7/6/2012	4	75.60	--	29.47	--	46.13	
GMW-62	7/6/2012	4	76.34	29.91	30.34	0.43	46.36	
GMW-63	7/6/2012	4	77.32	--	30.75	--	46.57	
GMW-64	7/6/2012	4	75.84	--	29.23	--	46.61	
GMW-65	7/6/2012	4	76.78	--	30.52	--	46.26	
GMW-66	7/5/2012	4	77.00	--	30.81	--	46.19	
GMW-O-1	--	4	71.45	--	--	--	--	
GMW-O-2	--	4	72.54	--	--	--	--	
GMW-O-3	--	4	72.19	--	--	--	--	
GMW-O-4	--	4	71.95	--	--	--	--	
GMW-O-4 (MID)	--	4	72.24	--	--	--	--	
GMW-O-5	--	4	72.36	--	--	--	--	
GMW-O-6	--	4	71.41	--	--	--	--	
GMW-O-7	--	4	70.98	--	--	--	--	
GMW-O-8	--	4	70.91	--	--	--	--	
GMW-O-9	--	4	73.50	--	--	--	--	
GMW-O-10	--	4	73.98	--	--	--	--	
GMW-O-11	--	4	74.17	--	--	--	--	
GMW-O-12	--	4	73.49	--	--	--	--	
GMW-O-14	--	4	74.08	--	--	--	--	
GMW-O-15	--	4	74.23	--	--	--	--	
GMW-O-16	--	4	74.10	--	--	--	--	
GMW-O-17	--	4	73.78	--	--	--	--	
GMW-O-18	--	4	74.36	--	--	--	--	
GMW-O-19	--	4	74.46	--	--	--	--	
GMW-O-23	--	4	73.63	--	--	--	--	
GMW-SF-7	--	4	75.26	--	--	--	--	
GMW-SF-8	--	4	76.75	--	--	--	--	

Table 1
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Well	Sample Date	Casing Diameter (inches)	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	Comments
GW-1	--	1	75.46	--	--	--	--	
GW-1	7/5/2012	4	75.97	--	30.10	--	45.87	
GW-2	--	1	76.39	--	--	--	--	
GW-2	7/5/2012	4	75.78	--	29.87	--	45.91	
GW-3	--	1	76.56	--	--	--	--	
GW-3	7/5/2012	4	75.79	--	29.97	--	45.82	
GW-4	--	1	74.77	--	--	--	--	
GW-4	7/5/2012	4	73.86	--	--	--	--	Pump in well unable to record.
GW-5	--	1	77.09	--	--	--	--	
GW-5	7/5/2012	4	76.99	--	31.08	--	45.91	
GW-6	--	1	77.41	--	--	--	--	
GW-6	7/5/2012	4	76.38	--	30.51	--	45.87	Concrete collar broken
GW-7	--	1	76.76	--	--	--	--	
GW-7	7/6/2012	4	75.02	--	29.14	--	45.88	
GW-8	--	1	76.88	--	--	--	--	
GW-8	7/5/2012	4	76.15	--	30.25	--	45.90	
GW-13	--	1	77	--	--	--	--	
GW-13	7/5/2012	6	76.85	--	31.11	--	45.74	
GW-14	--	1	76.55	--	--	--	--	
GW-14	7/5/2012	6	76.54	--	30.64	--	45.90	
GW-15	--	1	75.36	--	--	--	--	
GW-15	7/6/2012	6	74.94	29.84	29.86	0.02	45.10	
GW-16	--	1	76.55	--	--	--	--	
GW-16	7/5/2012	6	76.33	--	30.76	--	45.57	
GWR-1	--	4	77.40	--	--	--	--	
GWR-3	--	6	74.93	--	--	--	--	
HL-2	--	4	76.94	--	--	--	--	
HL-3	--	4	76.86	--	--	--	--	
MW-6	--	4	77.20	--	--	--	--	
MW-7	--	4	78.13	--	--	--	--	
MW-8	--	4	76.06	--	--	--	--	
MW-9	--	4	77.11	--	--	--	--	
MW-10	7/5/2012	4	79.12	33.17	33.19	0.02	45.95	
MW-11	7/6/2012	4	78.17	--	32.23	--	45.94	
MW-12	--	4	75.76	--	--	--	--	
MW-13	7/5/2012	4	78.25	--	32.20	--	46.05	Sheen
MW-14	7/5/2012	4	78.60	--	32.75	--	45.85	
MW-15	--	4	76.99	--	--	--	--	
MW-16	7/5/2012	4	76.87	--	30.77	--	46.10	
MW-17	7/5/2012	4	77.86	--	31.81	--	46.05	
MW-18 (MID)	--	4	75.67	--	--	--	--	
MW-19 (MID)	--	4	78.14	--	--	--	--	
MW-20 (MID)	--	4	77.19	--	--	--	--	
MW-21 (MID)	--	4	77.55	--	--	--	--	
MW-22 (MID)	7/6/2012	4	79.57	--	34.74	--	44.83	
MW-23 (MID)	7/5/2012	4	79.59	--	33.67	--	45.92	

Table 1
Groundwater Elevations
Third Quarter 2012 Second Semiannual Event

Defense Fuel Support Point, Norwalk
Norwalk, California

Well	Sample Date	Casing Diameter (inches)	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	Comments
MW-24	7/5/2012	4	78.51	--	32.66	--	45.85	
MW-25	7/6/2012	4	79.15	--	33.12	--	46.03	
MW-26	7/6/2012	4	77.40	--	31.38	--	46.02	
MW-27	7/6/2012	4	78.46	--	32.37	--	46.09	
MW-28	7/6/2012	4	78.53	--	32.48	--	46.05	
MW-29	7/6/2012	4	79.13	--	33.10	--	46.03	
MW-O-1	--	2	75.48	--	--	--	--	
MW-O-2	--	2	71.90	--	--	--	--	
MW-SF-1	--	4	78.93	--	--	--	--	
MW-SF-2	--	4	78.53	--	--	--	--	
MW-SF-3	--	4	78.12	--	--	--	--	
MW-SF-4	--	4	79.38	--	--	--	--	
MW-SF-5	--	4	79.74	--	--	--	--	
MW-SF-6	--	4	76.80	--	--	--	--	
MW-SF-9	--	4	74.10	--	--	--	--	
MW-SF-11	--	4	78.56	--	--	--	--	
MW-SF-12	--	4	78.07	--	--	--	--	
MW-SF-13	--	4	73.4	--	--	--	--	
MW-SF-14	--	4	78.16	--	--	--	--	
MW-SF-15	--	4	78.27	--	--	--	--	
MW-SF-16	--	4	78.21	--	--	--	--	
PW-1	--	4	75.52	--	--	--	--	
PW-2	--	4	74.71	--	--	--	--	
PW-3	--	4	73.71	--	--	--	--	
PZ-2	--	2	73.96	--	--	--	--	
PZ-3	7/6/2012	2	76.17	30.03	30.06	0.03	46.14	
PZ-4	7/6/2012	2	76.13	--	30.21	--	45.92	
PZ-5	--	4	73.97	--	--	--	--	
PZ-8a	--	2	75.81	--	--	--	--	
PZ-8b	--	2	75.69	--	--	--	--	
PZ-10	--	2	74.34	--	--	--	--	
TF-8	--	1.5	75.60	--	--	--	--	
TF-8	7/6/2012	4	74.86	--	28.81	--	46.05	
TF-9	--	1.5	75.27	--	--	--	--	
TF-9	7/6/2012	4	74.47	--	28.31	--	46.16	
TF-10	--	1	74.19	--	--	--	--	
TF-10	7/6/2012	4	73.61	--	27.43	--	46.18	
TF-11	--	1.5	74.95	--	--	--	--	
TF-11	7/6/2012	4	74.40	--	28.36	--	46.04	
TF-13	--	1.5	75.90	--	--	--	--	
TF-13	7/6/2012	4	75.47	--	--	--	--	Bees in well box
TF-14	--	1.5	74.78	--	--	--	--	
TF-14	7/6/2012	4	74.35	--	28.30	--	46.05	
TF-15	--	1.5	75.40	--	--	--	--	
TF-15	7/6/2012	4	74.78	--	28.98	--	45.80	
TF-16	--	1.5	76.48	--	--	--	--	
TF-16	7/5/2012	4	75.89	--	29.80	--	46.09	

Table 1
Groundwater Elevations
Third Quarter 2012 Second Semiannual Event

Defense Fuel Support Point, Norwalk
 Norwalk, California

Well	Sample Date	Casing Diameter (inches)	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	Comments
TF-17	--	1.5	75.26	--	--	--	--	
TF-17	7/5/2012	4	74.88	28.70	28.78	0.08	46.17	Concrete collar broken
TF-18	7/6/2012	4	73.94	27.62	27.69	0.07	46.31	Removed cage and exchanged sock
TF-19	--	1.5	75.61	--	--	--	--	
TF-19	7/6/2012	4	75.07	--	28.72	--	46.35	
TF-20	--	1.5	75.59	--	--	--	--	
TF-20	7/5/2012	4	75.08	29.64	29.65	0.01	45.44	
TF-21	--	1.5	75.60	--	--	--	--	
TF-21	7/6/2012	4	74.96	--	28.77	--	46.19	
TF-22	--	1.5	74.95	--	--	--	--	
TF-22	7/5/2012	4	74.76	--	28.61	--	46.15	
TF-23	7/5/2012	4	75.31	28.95	29.03	0.08	46.35	
TF-24	--	1.5	76.35	--	--	--	--	
TF-24	7/5/2012	4	76.43	--	30.53	--	45.90	
TF-25	--	1.5	74.85	--	--	--	--	
TF-25	7/6/2012	4	74.85	--	28.91	--	45.94	
TF-26	--	1.5	75.85	--	--	--	--	
TF-26	7/5/2012	4	75.85	--	29.45	--	46.40	
VS-1 (Shallow)	--	--	--	--	--	--	--	
VS-1 (Deep)	--	--	--	--	--	--	--	
VS-3 (Shallow)	--	--	--	--	--	--	--	
VS-3 (Deep)	--	--	--	--	--	--	--	
WCW-1	--	4	72.86	--	--	--	--	
WCW-2	--	4	75.34	--	--	--	--	
WCW-3	--	4	76.16	--	--	--	--	
WCW-4	--	4	78.05	--	--	--	--	
WCW-5	--	4	73.49	--	--	--	--	
WCW-6	--	4	75.52	--	--	--	--	
WCW-7	--	4	76.44	--	--	--	--	
WCW-8	--	4	77.34	--	--	--	--	
WCW-9	--	4	77.74	--	--	--	--	
WCW-10	--	4	74.06	--	--	--	--	
WCW-11	--	4	75.29	--	--	--	--	
WCW-12	--	4	76.27	--	--	--	--	
WCW-13	--	4	77.70	--	--	--	--	
WCW-14	--	4	78.81	--	--	--	--	
VE-01	--	--	77.70	--	--	--	--	
VE-02	--	--	77.26	--	--	--	--	

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
Third Quarter 2012 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	Ethylbenzene	O-xylene	P/M-xylene	1,2-DCA ³	MTBE ⁴	TBA ⁵
EXP-1	09-Jul-12	< 100	< 100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
EXP-2	09-Jul-12	210 HD	< 100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	11
EXP-3	09-Jul-12	250 HD	< 100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	9.5 J
GMW-18	10-Jul-12	7800	--	94	0.42 J	0.94	0.59	3.3	< 0.50	3.9	27
GMW-47	10-Jul-12	2600	--	0.15 J	< 0.50	0.29 J	< 0.50	0.31 J	< 0.50	6.5	250
GMW-57	09-Jul-12	330	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
GMW-58	10-Jul-12	890	--	27	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.46 J	18
GMW-59	10-Jul-12	6300	--	1100	< 5.0	1.5 J	< 5.0	< 5.0	< 5.0	9.7	< 100
GMW-59 DUP ⁷	10-Jul-12	--	--	1100	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	9.3	< 100
GMW-60	10-Jul-12	1200	--	5.1	< 0.50	0.7	0.24 J	< 0.50	< 0.50	< 0.50	69
GMW-61	10-Jul-12	510	--	110	0.29 J	0.87	< 0.50	0.28 J	< 0.50	< 0.50	14
GMW-63	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
GMW-64	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
GMW-65	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
GW-2	10-Jul-12	110	--	2.4	< 0.50	< 0.50	0.24 J	< 0.50	6.2	0.69	10
GW-13	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.6	0.78	< 10
GW-14	10-Jul-12	2200	--	18	< 0.50	16	0.57	10	< 0.50	8.2	5.1 J
GW-14 DUP ⁷	10-Jul-12	--	--	18	< 0.50	16	0.54	9.5	< 0.50	7.8	< 10
MW-11	10-Jul-12	780	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
MW-14	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4	0.72	< 10
MW-22 MID	09-Jul-12	< 100	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.4	5.8	< 10
TB-01	09-Jul-12	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10
TB-02	10-Jul-12	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10

Notes:

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

²TPHg = total petroleum hydrocarbons against a gasoline standard.

³1,2-DCA = 1,2-Dichloroethane.

⁴MTBE = Methyl tert-butyl ether.

⁵TBA = Tert-butyl alcohol.

⁶< 100 = compound not detected at or above the indicated reporting limit.

⁷DUP = duplicate.

⁸Bold numbers indicate a detected concentration.

⁹J = Analyte was detected at a concentration below the laboratory reporting limit and above the laboratory detection limit. Reported value is estimated.

¹⁰HD = The chromatographic pattern was inconsistent with the profile of the reference fuel standard.

Table 3
Summary of Miscellaneous VOCs Detected in Groundwater
Third Quarter 2012 Sentry Event
 Defense Fuel Support Point, Norwalk
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Well	Sample Date	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone	Acetone	Bromodichloromethane	c-1,2-Dichloroethene	Carbon Disulfide	Diisopropyl Ether (DIPE)	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
EXP-3	09-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	4.1 J	< 20	< 1.0	< 1.0	< 10	< 2.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GMW-18	10-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	27	0.28 J	< 1.0	0.46 J	< 2.0	4.3	4.6 J	0.31 J	2.3	< 1.0	0.62 J	< 1.0
GMW-47	10-Jul-12	0.4 J	1.1	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	< 2.0	8.9	< 10	< 1.0	0.75 J	< 1.0	1.5	0.77 J
GMW-57	09-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	< 2.0	0.67 J	< 10	0.5 J	< 1.0	< 1.0	< 1.0	0.3 J
GMW-58	10-Jul-12	< 1.0	0.46 J	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	< 2.0	4.1	< 10	< 1.0	1.5	< 1.0	0.43 J	0.31 J
GMW-59	10-Jul-12	< 10	< 10	< 10	< 10	< 100	< 200	< 10	< 10	< 100	< 20	32	< 100	< 10	29	< 10	3.9 J	< 10
GMW-59 DUP ⁴	10-Jul-12	< 10	< 10	< 10	< 10	< 100	< 200	< 10	< 10	< 100	< 20	33	< 100	< 10	29	< 10	3.8 J	< 10
GMW-60	10-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	81	< 1.0	< 1.0	< 10	< 2.0	22	< 10	0.57 J	18	< 1.0	2.7	0.35 J
GMW-61	10-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	18 J	< 1.0	< 1.0	< 10	< 2.0	39	10	1.1	15	< 1.0	5.6	0.74 J
GW-2	10-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	0.79 J	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GW-14	10-Jul-12	< 1.0	< 1.0	26	9.1	< 10	< 20	< 1.0	0.65 J	< 10	< 2.0	24	13	1.3	22	0.57 J	4.9	1.5
GW-14 DUP ⁴	10-Jul-12	< 1.0	< 1.0	25	8.5	< 10	< 20	< 1.0	0.65 J	< 10	< 2.0	23	13	1.3	21	0.54 J	4.7	1.4
MW-11	10-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	< 2.0	8.6	< 10	0.25 J	0.25 J	< 1.0	1.6	0.61 J
MW-14	09-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	1.1 J	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-22 MID	09-Jul-12	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 20	< 1.0	< 1.0	< 10	0.43 J	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

¹ J = analyte was detected at a concentration below the laboratory reporting limit and above the laboratory detection limit. Reported value is estimated.

² <1.0 = compound not detected at or above the indicated reporting limit.

³ Bold numbers indicate a detected concentration.

⁴ DUP = duplicate.