

August 13, 2012

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

**Subject: Remedial System Operational Summary Report for July 2012  
Defense Fuel Support Point Norwalk Facility, Norwalk, California**

Dear Mr. Cho:

Parsons is transmitting the remedial system monthly summary report for July 2012 for the Defense Fuel Support Point (DFSP) Norwalk Facility in Norwalk, California on behalf of the Defense Logistics Agency (DLA) Energy. This report will summarize remedial system operation for the month and include description of down time and individual well statistics.

## Groundwater Extraction System

The groundwater extraction system operated for an estimated 67.6 percent for the month of July 2012. System operation was ceased for 10 days during scheduled quarterly groundwater monitoring and routine system O&M as noted in Table 1. Taking into account the planned and scheduled downtime, the system operated for an estimated 99.9 percent during the reporting month.

**Table 1  
Groundwater Extraction System Operation Summary  
July 2012**

Well ID	Flow Meter Readings							
	GW-2/GW-13		GW-15		GW-16		Discharge Total <sup>1</sup>	
Date/Time	Volume (gal)	Flow (gpm <sup>2</sup> )	Volume (gal)	Flow (gpm)	Volume (gal)	Flow (gpm)	Volume (gal)	Flow (gpm)
7/2/2012 08:30	10390353.0	9.5	6228626	4	3785129.5	4.3	61839080	23
7/13/2012 12:20	10405464.0	9.4	6228626	0 <sup>4</sup>	3785434.2	0 <sup>4</sup>	61852480	38
7/1620/12 12:25	10445850.5	9.4	6228626	0 <sup>4</sup>	3785434.2	0 <sup>4</sup>	61886280	38
7/18/2012 09:00	10470299.5	9.4	6228626	0 <sup>5</sup>	3791548.3	4.4 <sup>6</sup>	61915274	37
7/20/2012 09:45	10498008.5	9.5	6228626	0 <sup>5</sup>	3803919.0	4.4	61952205	35

**Table 1**  
**Groundwater Extraction System Operation Summary**  
**July 2012**

Well ID	Flow Meter Readings							
	GW-2/GW-13		GW-15		GW-16		Discharge Total <sup>1</sup>	
Date/Time	Volume (gal)	Flow (gpm <sup>2</sup> )	Volume (gal)	Flow (gpm)	Volume (gal)	Flow (gpm)	Volume (gal)	Flow (gpm)
7/23/2012 12:30	10540840.0	9.3	6228969	4 <sup>7</sup>	3823697.0	4.3	62008320	31
7/25/2012 12:45 <sup>8</sup>	10560942.5	9.3	6237928	3.5	3832820.0	4.3	62045970	37
7/26/2012 09:35 <sup>9</sup>	10572748.3	9.4	6243310	4	3838364.0	4.4	62068115	37
7/31/2012 09:06	10640150.4	9.5	6272018	4	3869061.5	4.4	62190790	36
<b>Total Volume (Gal) Removed from Well</b>	<b>302600.4</b>		<b>63656.0</b>		<b>107587.5</b>		<b>444939.0</b>	

1. Total Discharge processed under NPDES permit no. CAG994004 CI-7585. Totalizer flow is independent of inlet flows. Inlet well flow is routed to surge tank for storage until water level triggers operation of GWTS.

2. gpm= gallon per minute.

3. System off from 7/2/12 at 0845 to 7/12/12 at 0845 for quarterly ground water sampling event.

4. GW-15/16 not working. Electrical problem with remote signal.

5. GW-15 control box malfunctioning. Repairs pending.

6. GW-16 restarted on 7/17/12 at 0830.

7. GW-15 repairs completed. Restarted on 7/23/12 at 1120.

8. Replaced MX-7 and bag filters.

9. Collected monthly effluent samples.

## Vapor Extraction System

The vapor extraction system operated continuously during the month of July except for 10 days during scheduled ground water sampling. System operation is summarized in Table 2. Vapor extraction wells VEW-32, VEW-33, VEW-34, VEW-35, VEW-36 and VEW-37 (Eastern Boundary Wells) and horizontal wells HW-1, HW-3, HW-5 and HW-7 (covering the expanse of the former above ground storage tank area) where on-line during operation for this reporting period.

**Table 2**  
**Vapor Extraction System Operation Summary**  
**July 2012**

Date - Time	Run Time (Hours)	VES Flow (cfm)	Temp (deg,F)	GAC-1		GAC-2		GAC-3	
				Pres. (In w.c.)	Temp (deg, F)	Pres. (In w.c.)	Temp (deg, F)	Pres. (In w.c.)	Temp (deg, F)
7/2/2012 0835	11291.8	150	116	20	94	14	94	8	90
7/13/2012 1215 <sup>12</sup>	11318.3	147	124	20	106	14	103	8	96
7/16/2012 1215	11390.3	147	126	20	114	14	102	8	96
7/18/2012 0815	11434.1	151	116	20	96	14	94	8	90

Mr. Cho

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**Table 2 (continued)**  
**Vapor Extraction System Operation Summary**  
**July 2012**

Date - Time	Run Time (Hours)	VES Flow (cfm)	Temp (deg,F)	GAC-1		GAC-2		GAC-3	
				Pres. (In w.c.)	Temp (deg, F)	Pres. (In w.c.)	Temp (deg, F)	Pres. (In w.c.)	Temp (deg, F)
7/20/2012 0940 <sup>1</sup>	11483.6	144	136	20	122	14	106	8	102
7/23/2012 1235	11558.6	140	132	20	118	14	110	8	102
7/25/2012 1050	11604.9	146	127	20	114	14	100	8	96
7/26/2012 0945 <sup>1,3</sup>	11627.2	151	117	20	98	14	96	8	90
7/30/2012 0900	11033.6	145	127	20	120	14	106	8	98
7/31/2012 0955	11748.0	147	131	19	119	13	102	8	100

Footnotes:

1. VES weekly PID readings taken.
  2. System off from 7/2/12 at 0845 to 7/12/12 at 0850 for quarterly ground water sampling event.
  3. Collected monthly compliance samples.
- cfm-cubic feet per minute.  
In w.c. - Pressure measured in inches of water column.  
"Hg-Pressure measured in inches of mercury.  
psi-Pressure measured in pounds per square inch.

If you have any questions, please call me at 602-734-1083 or Mary Lucas at 626-440-6032.

Sincerely,

**PARSONS**



Redwan N. Hassan, PG  
Project Manager

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