



Transmittal

Sent Via: Messenger U.S. Mail Overnight Mail

Date: September 15, 2011 **From:** Vladimir Carino
To: Mr. Paul Cho CH2M HILL
California Regional Water Quality 6 Hutton Centre Drive, Suite 700
Control Board – Los Angeles Region Santa Ana, CA 92707
(RWQCB)
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Remediation System Operational Status, August 2011
Project Name: Defense Fuel Support Point (DFSP) Norwalk

Item	Description
1	Table 1 – Remediation Well Construction and Status

Remarks

On behalf of SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), CH2M HILL is transmitting this monthly remediation system operational status for August 2011. As requested in the RWQCB’s July 20, 2010, e-mail, this status report includes the following:

1. Groundwater and soil vapor extracted from individual wells for treatment
2. Treated groundwater discharged under National Pollutant Discharge Elimination System (NPDES)
3. System downtime, wells affected, and reason for downtime

A summary of remediation wells in the south-central, southeastern, and West Side Barrier areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status as of August 30, 2011. Operational status and maintenance of the system are briefly discussed below.

Tasks performed for operation and maintenance of the remediation systems during the reporting period included:

- Weekly maintenance and monitoring of the south-central and southeastern soil vapor extraction (SVE) and total fluids extraction/groundwater extraction (TFE/GWE) wells, and soil vapor and groundwater treatment systems (collectively referred to as remediation systems)
- Inspection of groundwater extraction pumps
- Collection and analysis of treatment system influent soil vapor and groundwater samples
- Collection and analysis of treatment system effluent soil vapor and water samples
- Connection of alarm signals for the SVE and TFE/GWE systems to an automated notification system (automatic dialer)

- Replacement of the total effluent and southeastern area influent flowmeters and flow sensors
- Installation of flow totalizers for all the south-central wells
- Installation of an automatic ball valve upgradient to the oil-water separator (OWS)

During the reporting period, remediation system inspections were performed on a weekly basis and volumes of extracted groundwater, hours of operation, and other system parameters were recorded on an approximately weekly basis during system operation.

Soil Vapor Extraction and Treatment System

The SVE system was operational for approximately 736 hours (99 percent uptime) from August 2, 2011, to September 2, 2011. The SVE wells in operation during August include MW-SF-3, MW-SF-12, MW-SF-16, GMW-10, GMW-24, GMW-25, GWR-3, MW-O-1, MW-O-2, GMW-O-11, GMW-O-12, GMW-O-20, and GMW-O-23 in the south-central area; and GMW-O-15 and GMW-O-18 in the southeastern area. The system was turned off on August 5, 2011, to remove condensate from the SVE well manifold at the treatment pad. The SVE system was also turned off on August 23, 2011, to connect alarm signals from the SVE control panel to an automatic dialer to inform technicians of a system shutdown.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for approximately 370 hours (50 percent uptime) from August 2, 2011, to September 2, 2011. The TFE/GWE wells in operation at the end of August include MW-SF-3, MW-SF-13, MW-SF-15, and MW-SF-16 in the south-central area; and GMW-O-15, GMW-O-18, and GMW-36 in the southeastern area. On August 12, 2011, the system was off on arrival due to a high level in the product tank. Free product was not found inside the product tank. Sludge material in the OWS was causing water to drain into the product tank, which caused a high level to occur. The sludge material was subsequently removed and the OWS was cleaned by the technicians. The product tank was also drained and the system restarted the same day.

On August 15, 2011, the system was off again due to water entering the product tank causing a high level alarm. The product tank was drained and the system restarted the same day. The media inside the OWS was replaced and the OWS was cleaned on September 6, 2011. It is expected that the replacement of the media will reduce the amount of sludge buildup in the OWS, and therefore reduce the number of unexpected shutdowns.

From August 15 through 17, 2011, the TFE/GWE system was turned off for system upgrades, which included installation of an automated 3-inch ball valve upgradient of the OWS, installation of the total effluent and southeastern influent flowmeters and flow sensors, and installation of flow totalizers for the south-central wells. The TFE/GWE system was turned off on August 23, 2011, to connect alarm signals from the TFE/GWE control panel to an automatic dialer to inform technicians of a system shutdown.

On August 29 and 30, 2011, the system was off on arrival due to a high level in the equalization tank upstream of the fluidized bed bioreactors (FBBRs). The filters for the FBBRs were clogged with fine-grained material causing the FBBRs to shutdown; this caused water in the equalization tank to reach a high level and turn the entire system off.

Total groundwater extracted, treated, and discharged under the NPDES permit in August 2011 was 759,510 gallons. The southeastern area influent quantities were not calculated for August 2011 since the southeastern area influent meter was inoperable. The electrical wiring for the new flowmeter is being rerouted to an independent power source. It is anticipated that the new meter will be operational later this quarter.

Please contact Vladimir Carino at 714.435.6017 if you have any questions.

Distribution List

Mr. Steve Defibaugh, KMEP
LTC Tam Gaffney, DLA Energy
Mr. Kola Olowu, DLA Energy
Mr. Redwan Hassan, Parsons
Ms. Mary Lucas, Parsons
Ms. Mary Jane McIntosh, RAB
Dr. Eugene Garcia, RAB
Mr. Bob Hoskins, RAB
Ms. Tracy Winkler, RAB

Ms. Minxia Dong, Norwalk Regional Library
Ms. Adriana Figueroa, City of Norwalk
Mr. Norman Dupont, Richards/Watson/Gershon
Mr. Charles Emig, City of Cerritos
Mr. Gary Lynch, Park Water Company
Office of Congresswoman Grace F. Napolitano
Mr. Tim Whyte, URS
Mr. Mark Wuttig, CH2M HILL
Mr. Dan Jablonski, CH2M HILL

**TABLE 1
REMEDIATION WELL CONSTRUCTION AND STATUS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (ft msl)	Well Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status on August 30, 2011 ¹	
						SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF	---
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON	ON
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF	---
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF	---
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF	OFF
	MW-SF-9	6/15/1995	74.10	NA	SVE	OFF	---
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF	---
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF	ON
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF	OFF
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF	ON
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON	ON
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF	OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON	---
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF	OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	ON	OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	ON	OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	ON	OFF
	VEW-1	NA	NA	NA	SVE	OFF	---
	VEW-2	NA	NA	NA	SVE	OFF	---
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON	OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON	---
	GMW-O-20	6/15/1995	73.32	NA	SVE; TFE	ON	OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	---	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON	OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF	OFF
HW-2	NA	NA	NA	SVE	OFF	OFF	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON	ON
	GMW-36	4/11/1994	74.53	20 - 50	TFE	---	ON
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	---	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	---	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	---	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	---	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	---	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	---	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	---	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	---	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	---	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	---	OFF

Notes

1. Based on information provided by SFPP, L.P.

Abbreviations

--- = not applicable
 NA = information not available
 ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.
 ft bgs = feet below ground surface
 GWE = groundwater extraction
 SVE = soil vapor extraction
 TFE = total fluids extraction