



Transmittal

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Date: June 12, 2012 **From:** Vladimir Carino
To: Mr. Paul Cho
California Regional Water Quality
Control Board – Los Angeles Region
(RWQCB)
320 West 4th Street, Suite 200
Los Angeles, CA 90013
CH2M HILL
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707

Subject: Remediation System Operational Status, May 2012

Project Name: SFPP Norwalk Pump Station, Norwalk, California

Item	Description
1	Table 1 – Remediation Well Construction and Status

Remarks

On behalf of SFPP, L.P., (SFPP) an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), CH2M HILL is transmitting this monthly remediation system operational status for May 2012. 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 the National Pollutant Discharge Elimination System (NPDES) permit
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 May 29, 2012. 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
- Inspection and repairs of soil vapor extraction wells
- Collection and analysis of treatment system influent and midpoint groundwater samples
- Collection and analysis of treatment system effluent soil vapor and water samples

- Upgrading the TFE/GWE system control panel
- Retrofitting well GMW-36 to extract both total fluids and soil vapor.

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. Effluent flow readings for the TFE/GWE system and SVE system temperature and flow readings are recorded daily using the digital chart recorder. These data are downloaded by the KMEP technicians at least weekly.

Soil Vapor Extraction and Treatment System

The SVE system was on for approximately 742 hours (97 percent uptime) from April 30 to June 1, 2012. The SVE wells in operation at the end of May include MW-SF-3, MW-SF-4, MW-SF-9, MW-SF-12, MW-SF-16, GWR-3, MW-O-1, MW-O-2, GMW-O-12, GMW-O-20, and GMW-O-23 in the south-central area; and wells GMW-36, GMW-O-15 and GMW-O-18 in the southeastern area. Well GMW-36 was retrofitted for soil vapor extraction the week of May 4, 2012.

On May 31, 2012, the SVE system was off on arrival due to a blown fuse. On June 1, 2012, the fuse was replaced and the system was restarted.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for approximately 754 hours (99 percent uptime) from April 30 to June 1, 2012. The TFE/GWE wells in operation at the end of May include MW-SF-3, MW-SF-12, MW-SF-14, MW-SF-15, and MW-SF-16 in the south-central area; and wells GMW-O-15, GMW-O-18, GMW-36, and GMW-SF-9 in the southeastern area. The conveyance for GMW-SF-9 and GMW-SF-10 was repaired during the end of April 2012. A groundwater extraction pump was installed in GMW-SF-9 on May 8, 2012 and was started on May 11, 2012.

On May 1, 2012, the system was shut down for approximately 7 hours to perform the electrical upgrades to the TFE/GWE control panel. The system was restarted the same day.

On May 17, 23, and 31, the system was down due to clogged bag filters down stream of the oil water separator and the transfer tank. The bag filters were replaced and the system was restarted shortly thereafter. A second bag filter housing may be installed parallel to the existing bag filter housing, which will extend the life of the bag filters and reduce the frequency of shut downs.

The acid addition system in the influent sump and the effluent tanks of the bioreactors was completed during the week of May 18, 2012. The acid addition at these two points has reduced the carbonate formation in the bioreactors and the solidification of the lead polishing carbon vessel, which has reduced the frequency of shut downs.

Total groundwater extracted, treated, and discharged under the NPDES permit in May 2012 was approximately 638,911 gallons.

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

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**TABLE 1
REMEDATION 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 May 29, 2012 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	ON	--
	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	ON	--
	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	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF	ON
	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	OFF	--
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF	OFF
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	OFF	OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	OFF	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	OFF	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	--
HW-1	9/6/1992	NA	NA	SVE	--	--	
HW-2	9/6/1992	NA	NA	SVE	ON	--	
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	SVE; TFE	ON	ON
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	--	ON
	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	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	NA	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	NA	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