



Transmittal

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Date: August 14, 2012 **From:** Vladimir Carino
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Subject: Remediation System Operational Status, July 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 July 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 July 31, 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
- Installation of an acid delivery system to the fluidized bed bioreactors (FBBRs) and the FBBR effluent tanks

- Collection and analysis of treatment system influent and midpoint groundwater samples
- Collection and analysis of treatment system effluent soil vapor and water samples.

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 turned off from June 21 through July 16, 2012 to facilitate soil vapor sampling in the southern offsite and southeastern areas. The SVE system was on for approximately 359 hours (99.5 percent uptime) from July 16 to July 31, 2012. The SVE wells in operation include MW-SF-3, MW-SF-11, MW-SF-12, MW-SF-15, MW-SF-16, GMW-9, GMW-10, GMW-22, GWR-3, MW-O-1, MW-O-2, GMW-O-11, GMW-O-12, GMW-O-20, GMW-O-23, and HW-2 in the south-central area; and wells GMW-36, GMW-O-15 and GMW-O-18 in the southeastern area.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for approximately 705 hours (90 percent uptime) from July 3 to July 31, 2012. The TFE/GWE wells in operation at the end of July include 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.

On July 9, 19, 25, 27, and 30, 2012, the system was down due to clogged bag filters downstream of the oil water separator (OWS) and the transfer tank. The bag filters were replaced and the system was immediately restarted. On July 19 and 27, 2012, the liquid phase granulated activated carbon (LGAC) vessels after the OWS were backwashed to remove particulates from the interior of the vessels. The polishing LGAC vessels located downstream of the FBBRs were also periodically backwashed throughout the month of July. A second bag filter housing will be installed parallel to the existing bag filter housing in order to extend the life of the upstream bag filters. Two additional bag filter housings and a new filter backwash system will also be installed upstream of the polishing LGAC vessels and downstream of the FBBRs. It is anticipated that these upgrades to the treatment system will extend the life of the bag filters and granular activated carbon, and reduce the frequency of system shut downs. It is anticipated that the upgrades will be completed by the end of the third quarter 2012.

Total groundwater extracted, treated, and discharged under the NPDES permit in July 2012 was approximately 622,112 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)	Well Operation Status on July 31, 2012 ¹	
					SVE	TFE/GWE
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	OFF	--
	MW-SF-2	6/18/1990	78.53	25 - 40	OFF	OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	ON	OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	OFF	--
	MW-SF-5	9/19/1990	79.74	23 - 38	OFF	--
	MW-SF-6	9/19/1990	76.80	25 - 40	OFF	OFF
	MW-SF-9	6/15/1995	74.10	NA	OFF	--
	MW-SF-10	9/23/2003	76.53	10 - 30	OFF	--
	MW-SF-11	6/19/2007	78.56	20 - 40	ON	OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	ON	OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	OFF	OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	OFF	ON
	MW-SF-15	6/21/2007	78.27	20 - 40	ON	ON
	MW-SF-16	6/20/2007	78.21	20 - 40	ON	ON
	GMW-9	7/8/1991	74.44	20 - 50	ON	OFF
	GMW-10	7/8/1991	74.67	25 - 50	ON	--
	GMW-22	8/2/1991	74.17	25 - 60	ON	OFF
	GMW-24	8/5/1991	74.04	25 - 60	OFF	OFF
	GMW-25	1/10/1992	74.29	20 - 50	OFF	OFF
	GWR-3	1/10/1992	74.93	20 - 50	ON	OFF
	VEW-1	NA	NA	NA	OFF	--
	VEW-2	NA	NA	NA	OFF	--
	MW-O-1	1/22/1991	75.48	25 - 40	ON	OFF
	MW-O-2	1/23/1991	71.90	25 - 40	ON	OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	ON	OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	ON	--
	GMW-O-20	6/15/1995	73.32	NA	ON	OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	--	OFF
GMW-O-23	6/25/2007	73.63	20 - 40	ON	OFF	
MW-18 (MID)	6/10/1991	75.67	50 - 60	OFF	--	
HW-1	9/6/1992	NA	NA	--	--	
HW-2	9/6/1992	NA	NA	ON	--	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	ON	ON
	GMW-O-18	7/25/1994	74.36	21 - 40	ON	ON
	GMW-36	4/11/1994	74.53	20 - 50	ON	ON
	GMW-SF-9	4/1/2003	73.00	37 - 46	--	ON
	GMW-SF-10	4/2/2003	75.77	37 - 46	--	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	NA	OFF
	BW-3	5/17/1996	74.16	31 - 50	NA	OFF
	BW-4	5/20/1996	74.61	28 - 47	NA	OFF
	BW-5	5/23/1996	73.59	27 - 46	NA	OFF
	BW-6	5/22/1996	73.48	28 - 47	NA	OFF
	BW-7	5/22/1996	74.65	27 - 46	NA	OFF
	BW-8	5/21/1996	75.08	27 - 46	NA	OFF
	BW-9	5/21/1996	76.19	27 - 46	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