



Transmittal

Sent Via: **Messenger** **U.S. Mail** **Overnight Mail**

Date: January 12, 2011 **From:** Vladimir Carino
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Subject: Remediation System Operational Status, December 2010
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 December 2010. 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 NPDES
3. System down time, 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 at the end of December 28, 2010. Operational status and maintenance of the system is 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 SVE, TFE/GWE, 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; and
- Troubleshooting of the SVE system.

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 350 hours (47% uptime) during December 2010. The following SVE wells in operation during December include MW-SF-9, MW-SF-15, MW-SF-16, GMW-9, GMW-22, 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, from the south-central area; and GMW-O-15 and GMW-O-18 from the south-eastern area. The SVE system was down for part of December due to multiple high temperature alarms. All four thermocouples were replaced as part of the troubleshooting of the alarms. However, it is suspected that the frequent high temperature alarms are the result of faulty wiring of the thermocouples to the control panel. KMEP technicians, with assistance from a remediation system contractor, are in the process of re-wiring the thermocouples. KMEP will continue to troubleshoot the SVE system until it becomes fully operational.

On December 22, 2010, The SVE system was off on arrival. Rainwater entered the control panel for the SVE system causing the system to short circuit and turn off. The SVE system became operational on December 28, 2010. The control panel has since been secured to prevent impacts from future rainfall events.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for 672 hours (90% uptime) during December 2010. The following TFE/GWE wells in operation during December include MW-SF-3, MW-SF-13, MW-SF-14, MW-SF-15, MW-SF-16, GMW-22, and GMW-O-21 in the south-central area; and well GMW-O-18 in the southeastern area. The pumps for southeastern wells GMW-36 and GMW-O18 were pulled and shipped to an outside contractor for routine maintenance. Although the pump for well GMW-O-18 is on, discharge water from this well is not reaching the treatment system since the southeastern area flow meter is not recording flow. It is suspected that backpressure from existing fluids in the southeastern area conveyance line is not allowing flow from well GMW-O-18 to reach the treatment system. Further troubleshooting of this issue will be addressed as soon as the remaining two wells in the southeastern area are back online. It is anticipated that all three southeastern wells will be operational later this month. Additional TFE/GWE wells in the south-central area will be brought online as needed.

Groundwater extracted, treated, and discharged under the NPDES permit in December 2010 was as follows:

- Groundwater extracted from the south-central area wells: 614,217 gallons
- Groundwater extracted from the southeastern area wells: 0 gallons
- Treated groundwater discharged under NPDES: 614,217 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 December 28, 2010 ¹
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	OFF; 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	--	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	OFF; 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; ON
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	ON; 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	ON; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	OFF
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	ON; ON
	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	--	--	--	SVE	OFF
	VEW-2	--	--	--	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	--	SVE; TFE	ON; OFF
GMW-O-21	10/1/1997	71.43	26 - 46	TFE	ON	
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-2	--	--	--	SVE	OFF	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON; OFF
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON; ON
	GMW-36	4/11/1994	74.53	20 - 50	TFE	OFF
	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. The well operations listed correspond to the well functions indicated in the previous column. Based on information provided by SFPP, L.P.

Abbreviations

-- = 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