



Transmittal

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Date: December 15, 2010 **From:** Vladimir Carino
To: Mr. Paul Cho CH2M HILL
California Regional Water Quality 6 Hutton Centre Drive, Suite 700
Control Board – Los Angeles Santa Ana, CA 92707
Region (RWQCB)
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Remediation System Operational Status, November 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 November 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 November 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 315 hours (44% uptime) during November 2010. The following SVE wells in operation during November include MW-SF-3, MW-SF-10, MW-SF-12, MW-SF-15, MW-SF-16, GWR-3, VEW-1, VEW-2, 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 November 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.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for 720 hours (100% uptime) during November 2010. The following TFE/GWE wells in operation during November include MW-SF-3, MW-SF-11, MW-SF-12, MW-SF-13, MW-SF-14, MW-SF-15, MW-SF-16, GMW-O-11, GMW-O-21, and GMW-22 in the south-central area; and wells GMW-O-15, GMW-O-18, and GMW-36 in the southeastern area. Southeastern wells GMW-O-15 and GMW-36 were shut down between November 23 and November 30, 2010 to facilitate the collection of monthly groundwater samples and for routine maintenance of the total fluids extraction pumps. Additional TFE/GWE wells will be brought online as needed. Groundwater extracted, treated, and discharged under the NPDES permit in November 2010 was as follows:

- Groundwater extracted from the south-central area wells: 409,343 gallons
- Groundwater extracted from the southeastern area wells: 435,521 gallons
- Treated groundwater discharged under NPDES: 844,864 gallons

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

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**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 November 22, 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	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	--	SVE	OFF
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	ON
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF; ON
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON; ON
	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	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; ON
	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	--	--	--	SVE	ON
	VEW-2	--	--	--	SVE	ON
	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; ON	
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