

FINAL

Meeting Minutes

Meeting Subject: Norwalk Tank Farm Restoration Advisory Board (RAB) Semiannual Meeting	Meeting Date: <u>25 July 2002</u> Meeting Time: 6:30 p.m. Meeting Place: Norwalk Arts & Sports Complex
RAB, PROJECT TEAM, AND OTHER ATTENDEES	
<u>RAB Community Members</u> D. Caughey E. Garcia B. Hoskins M. McIntosh (Co-Chair) W. Miller W. Sterner	<u>Other Members</u> C. Davis (City of Norwalk) R. Babel (City of Cerritos) A. Townsend (RWQCB)
<u>Other Attendees</u> D. Alsawaf (Shaw E & I Group) E. Conard (KMEP) G. Coppola (Geomatrix) K. Hekimian (HVN Environmental) P. Hernandez (US Rep. Napolitano) S. Seipel (Shaw E & I Group) J. Trani (DESC) T. Whyte (URS) T. Winkler (Citizen) Mr. & Mrs. Zuniga (Norwalk Citizens)	DESC-LA..... Defense Energy Support Center- Los Angeles GSA..... General Services Administration KMEP Kinder Morgan Energy Partners OCCS Offsite Chemicals Cleanup Subcommittee RAB Restoration Advisory Board RBCA..... Risk-Based Corrective Action RWQCB Regional Water Quality Control Board URS URS Corporation WRD Water Replenishment District of Southern California
<u>Absentees</u> J. Leserman (WRD) J. Rifilato Lt Col Wilson (DESC-LA) (Co-Chair)	
<u>Not Attending</u> Dr. Duran (OCCS) Dr. Landolph (OCCS)	
<u>BACKGROUND</u> DESC-LA and KMEP are conducting environmental cleanup activities at the area in and around the former Defense Fuel Support Point Norwalk, also known as the Tank Farm, located at 15306 Norwalk Boulevard, Norwalk, CA. The RAB is an advisory committee of local citizens and project members that reviews and comments on documents relating to the environmental cleanup. All RAB meetings are open to the public and are scheduled semiannually on the last Thursday of the month at 6:30 p.m. in January and July, unless otherwise voted on by the RAB community membership.	

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Item	Description of Discussion and Action Items	Responsible Party	Due Date
1.	<p><u>Introduction</u> Mary Jane McIntosh, Community Co-Chair, Meeting Chair</p> <p>Ms. McIntosh called the meeting to order at 6:32 p.m.</p> <p>Review of Minutes. Ms. McIntosh asked for comments on the minutes of the January 31, 2002 meeting. Ron Babel pointed out that the minutes and agenda should read “Semiannual Meeting” instead of “Quarterly Meeting.” Wanda Sterner made a motion to approve the minutes as amended. Bill Miller seconded the motion. The motion passed without opposition.</p> <p>Ms. McIntosh introduced Perla Hernandez from the Office of Representative Grace Napolitano.</p>	N/A	
2.	<p><u>RBCA Update</u> Gregory Coppola, Geomatrix Consultants</p> <p>Mr. Coppola discussed the response to additional comments from the Regional Water Quality Control Board (RWQCB) and the Office of Health Hazard Assessment (OEHHA) on the Risk-Based Corrective Action (RBCA) report. The initial responses to comments were submitted in October 2000. Additional comments were received from RWQCB in October 2001 and from OEHHA in January 2002. The comments addressed technical clarification and revisions to the sensitivity analysis. KMEP submitted a draft of responses to the additional comments to the Offsite Chemicals Cleanup Subcommittee (OCCS) on February 22, 2002. An OCCS meeting to discuss the draft responses was held on March 7, 2002. The responses were then submitted on March 29, 2002. Ana Townsend of RWQCB said that they would respond to the March 29 submittal in approximately one month. Ms. McIntosh requested that when the responses come in that they are distributed to the RAB membership.</p>	KMEP	Aug. 2002
3.	<p><u>KMEP Update</u> Gregory Coppola, Geomatrix Consultants</p> <p>Remediation Update. Mr. Coppola discussed the soil vapor extraction system, which has 16 onsite and 7 offsite vapor extraction wells in the South-Central Plume area and 2 vapor extraction wells in the 24-inch Valve area. The system removed and destroyed by thermal oxidation 7,605 gallons equivalent of fuel since the January 2002 RAB meeting and</p>		

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	<p>384,175 gallons equivalent of fuel since September 1995. The system was shut down between November 2001 and April 2002 for system repairs and conversion to catalytic oxidation.</p> <p>Mr. Coppola described the groundwater/product extraction system. There are eight groundwater wells in the West-Side Barrier area, in addition to six groundwater/product wells in the South-Central Plume area and two groundwater/product wells in the 24-inch Valve area. A total of 373,900 gallons of groundwater have been extracted from the South-Central Plume area, 410,800 gallons were extracted from the 24-inch Valve area, and approximately 1.6 million gallons were extracted from the West-Side Barrier area since the January 2002 RAB meeting. No free product was removed in this period. Total groundwater removed since September 1995 includes 23.5 million gallons from the South-Central and the 24-inch Valve areas and 7.6 million gallons from the West-Side Barrier area, for a total of 31.2 million gallons. In addition, 8,735 gallons of free product have been removed since September 1995. The soil vapor extraction system was shut down between November 2001 and April 2002 pending repairs. The West-Side Barrier groundwater extraction system continued to independently operate during the shut down.</p> <p>Mr. Coppola discussed remediation system enhancements. KMEP will install a catalyst in the thermal oxidizer upon completion of oxidizer repairs. They completed the successful installation and operation of flow meters in eight West-Side Barrier wells. This will help to assure that the wells are working properly. They also moved some pumps around in the South-Central Plume area to enhance product recovery.</p> <p>Ms. McIntosh asked about the flattening of the cumulative product extracted curve. Mr. Coppola said that they are not recovering a lot of product. Even with the moving of pumps, product recovery is decreasing. Ms. McIntosh asked if we could take the system offline and get more bang for the buck elsewhere. Mr. Coppola said that soil vapor extraction is where they are getting bang for the buck. He also said that the thermal oxidizer does get oxygen into the soil which helps bioremediation. Ms. McIntosh requested that KMEP track bioremediation for six months.</p> <p>Mr. Coppola said they could track it with the addition of one</p>	KMEP	Jan. 2003

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	<p>piece of equipment.</p> <p>Bob Hoskins asked about the phytoremediation trees. Mr. Coppola said that the roots should be down to the groundwater level by now based on the size of the trees. However, they can not clearly say there is water uptake yet.</p>		
4.	<p><u>Semiannual Monitoring Event</u> Gregory Coppola, Geomatrix Consultants</p> <p>Mr. Coppola said that for the April 2002 Semiannual Monitoring Event, 99 wells were sampled, including 5 Exposition wells. No chemicals were detected in the Exposition wells. Free product was found in 20 wells. The North-Central free-product plume decreased in lateral extent and separated into two smaller plumes. The South-Central free-product plume decreased in lateral extent and decreased in mass. Free product was found in the 24-inch Valve area.</p> <p>The extent and concentration of Total Petroleum Hydrocarbons (TPH) has also decreased. TPH continued to decrease in wells GMW-28 and GMW-O-10 (west and southwest of the South-Central free-product plume). TPH also decreased in well GMW-57 (northeast of the North-Central free-product plumes). TPH was detected at a high concentration in well MW-15 near the truck fill stands. This well will be resampled during the next Sentry Event. The data will be distributed to the RAB after the Sentry Event. Mr. Coppola said they were still having trouble accessing the wells on the offsite Chang property. They have not been able to contact Mr. Chang. A condominium complex is now on the former Chang property. Ms. McIntosh suggested KMEP check with the City for help in gaining access. Ms. Sterner said the property is next to a vacant lot. There was a murder in the area last week which she believes was due to drugs being sold at the vacant lot. She suggested KMEP look into installing a well in the vacant lot.</p> <p>Benzene concentrations decreased or remained low in wells north and west of the South-Central free-product plume. Concentrations increased in four wells surrounding the South-Central free-product plume and in well GMW-36 near the 24-inch Valve area. This increase may be due to the non-operation of the South-Central remediation system during repairs.</p> <p>The 1,2-Dichloroethane (1,2-DCA) plume decreased</p>	KMEP	Aug. 2002

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	<p>tremendously in size and concentration since May 2001. 1,2-DCA was not detected in well WCW-13, and concentrations continue to decrease in wells WCW-3 and WCW-7. The decreases are probably due to the redevelopment of the West-Side Barrier wells in October 2001. The lateral extent of 1,2-DCA also receded from the south.</p> <p>Ms. McIntosh said that the 24-inch Valve area is a concern. Mr. Coppola said they would do some more sampling in the area and send out the data with the next Sentry Event data.</p> <p>Methyl-tertiary-Butyl-Ether (MTBE) was detected for the first time in well GMW-O-14, located southeast of the South-Central free-product plume. This is a concern and the well will be resampled during the next Sentry Event. MTBE was also detected in the north central plume area. They were surprised to find it there because the initial source was very small, centered near 24-inch Valve and had traveled downgradient to some wells. KMEP is looking into it and will get a report to RWQCB. They should have more information by the next RAB meeting.</p>	KMEP	Aug. 2002
5.	<p><u>DESC-LA Update</u> Dr. Daoud Alsawaf, Shaw E & I Group</p> <p>Ms. Sterner asked about depth to groundwater. Daoud Alsawaf said that the water level is 26 to 30 feet below ground surface. Compared with Spring of 2001, groundwater has dropped by approximately 1.5 feet in the east and by 1 foot in the Exposition aquifer due to this year's drought. This declining water level (reduced recharge) could reduce the annual dilution in the upper five feet of the aquifer. It could also cause the release of submerged free product leading to an increase in product thickness in the wells and an increase in dissolved chemical concentrations.</p> <p>Central Plume Remediation System Update. Dr. Alsawaf said that since 1996, the Central Plume remediation system has recycled and destroyed approximately 137,209 gallons of fuel. This includes 55,534 gallons of free product recovered, which is unchanged from the previous period. Approximately 80,288 gallons of hydrocarbons have been destroyed in the thermal oxidizer. Approximately 38 million gallons of water have treated and discharged through the storm drain. In addition, 1,387 gallons of dissolved phase hydrocarbons have been removed. Joe Trani said that approximately 100,000 gallons have been removed through</p>		

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	<p>bioremediation.</p> <p>Ms. McIntosh asked about the plateau in the recovery curve of free product. She asked if the system should be taken offline or if other options should be explored. Dr. Alsawaf said they have the vapor extraction system on for air sparging and containing vapors from the groundwater. Mr. Trani said that it costs one-quarter of a million dollars per year for operation and maintenance of the system and hydrocarbon extraction costs of \$30 per gallon. He suggested the RAB look into using the money on biovent wells instead. Ms. McIntosh said she was concerned about containment if the system is shut down. Dr. Alsawaf said that due to the presence of submerged product within groundwater, as groundwater levels decrease (similar to winter 2002), product plumes will reappear requiring further product recovery.</p> <p>Truck Fill Stand Area Investigation. Dr. Alsawaf said that the Truck Fill Stand Area Assessment was performed in September 2001. Fifteen direct push sample locations were advanced to 28 feet below ground surface (in the unsaturated soil). Forty-seven soil samples were retained from 12 borings. Three samples were used for soil physical properties analysis. One boring was advanced in the Vehicle Maintenance Area; one was advanced near the Vapor Recovery Underground Storage Tank; and one west of the Septic Tanks Area. Data interpretation revealed the presence of two separate hydrocarbon plumes. One is located west of the Truck Fill Stand and the other was near the water tank area. No benzene or MTBE was detected in soil, which indicate it is an older release. No free product was found.</p> <p>Bulk Fuel Tanks Assessment. Dr. Alsawaf said that the Bulk Fuel Tanks Assessment was performed from February 11 to March 5, 2002 to screen petroleum hydrocarbons in soils beneath the tanks. One borehole was advanced in the central location of each of the eight perimeter tanks and four locations within the three central tanks. Free product was observed under Tank 80008. This was expected since a plume was in this area in the past. Three samples were analyzed for volatile organic compounds (VOCs). Results show TPH in concentrations greater than 1,000 mg/kg in shallow soils of Tank 80001 and Tank 80009, at intermediate soils of tanks 80007 and 80008, and at deeper soil (near groundwater) of tanks 80001, 80007, 80008, and 80013. TPH concentration greater than 1,000 mg/kg was also found</p>		

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	<p>under tank 55004. Soil under four tanks (80001, 80007, 80008, and 80009) indicated fuel contamination from ground surface to groundwater. Shallow soils beneath Tank 80013 were impacted with TPH and groundwater was impacted by MTBE (probably not from tank).</p> <p>Ms. McIntosh said that previously Paul Rogers of DESC indicated that if data was available to prove removing the tanks would help remediation, then there would be good cause to have them removed. Dr. Alsawaf said that if the tanks were removed, vertical wells could be installed, which are cheaper than horizontal wells, for soil remediation. The vapor extraction system would still be needed. He also said that if the tank shells were removed, the bottoms could remain as a cap during vapor extraction. Ken Hekimian asked if there was a cost estimate for removing the tanks. Ms. McIntosh said no, since the tanks are property of the Air Force, tank removal would be the responsibility of the Air Force. Dr. Alsawaf also said that the soil beneath the perimeter tanks still needs more assessment, since there was only one boring at the center of each tank. Ms. Townsend said that RWQCB is still reviewing the report.</p> <p>The RAB requested that they explore the costs of remediation and removal of the four central tanks. They also requested that they explore the feasibility of taking the free product extraction system offline, and if feasible, could the contamination still be contained.</p>	DESC	Jan. 2003
6.	<p><u>Set Date and Agenda for Next Meeting</u></p> <p>The next RAB meeting will be held Thursday, January 23, 2003, at 6:30 p.m. in the Norwalk Arts & Sports Complex.</p>	All	1/23/03
7.	<p><u>Public Comment Period</u></p> <p>Ms. Townsend said that she would be out for a few months and Jeffery Hu would be filling in for her. Eric Conard said that Catherine Quinn has left KMEP, so they will be getting a new project manager soon. Ms. McIntosh said Theresa Devoy had a baby boy. Jill Anderson left the City of Norwalk for a job with the City of Seaside. Ms. Devoy will replace Ms. Anderson. Col. Wright has returned to DESC-LA as a civilian employee and is now Deputy Commander. Ms. McIntosh said she spoke to Mr. Rogers to have the weeds taken care of along the access road. In addition, a "No Parking" sign will be installed so the access road will</p>	N/A	

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	not be blocked by people going to Holifield Park. Mr. Hoskins moved to adjourn the meeting. The motion was seconded and passed without opposition. Ms. McIntosh adjourned the meeting at 8:07 p.m.		