

# FINAL

## Meeting Minutes

<b>Meeting Subject:</b> Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting	<b>Meeting Date:</b> <u>27 January 2000</u> <b>Meeting Time:</b> 6:30 p.m. <b>Meeting Place:</b> Norwalk Arts & Sports Complex
<b>RAB, PROJECT TEAM, AND OTHER ATTENDEES</b>	
<b><u>RAB Community Members</u></b> D. Caughey E. Garcia B. Hoskins M. McIntosh (Co-Chair) W. Miller J. Rifilato W. Sterner	<b><u>Other Members</u></b> J. Anderson (City of Norwalk) R. Babel (City of Cerritos) S. Kilkenny (KMEP) J. Leserman (WRD) A. Townsend (RWQCB)
<b><u>Other Attendees</u></b> T. Devoy (Norwalk) T. Harder (Geoscience) J. Jefferson (KMEP) M. Koury (DESC-LA) E. Lehto (March ARB) D. Swensson (GTI) J. Trani (DESC-LA) T. Whyte (URSGWC) D. Williams (Geoscience)	DESC-LA....Defense Energy Support Center- Los Angeles GTI.....Groundwater Technology, Inc.; a wholly- owned subsidiary of IT Corporation KMEP .....Kinder Morgan Energy Partners OCCS .....Offsite Chemicals Cleanup Subcommittee RBCA.....Risk-Based Corrective Action RWQCB.....Regional Water Quality Control Board URSGWC ...URS Greiner Woodward Clyde WRD .....Water Replenishment District of Southern California
<b><u>Absentees</u></b> M. Young	
<b><u>Not Attending</u></b> Dr. Duran (OCCS) Dr. Landolph (OCCS)	
<b><u>BACKGROUND</u></b> DESC-LA and KMEP are conducting environmental cleanup activities at the area in and around the 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 quarterly on the last Thursday of the month at 6:30 p.m. 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>Mary Jane McIntosh presided over the meeting in place of Michael Koury. Ms. McIntosh called the meeting to order at 6:40 p.m.</p> <p>Ms. McIntosh asked for comments on the minutes from the October 28, 1999, RAB meeting. Wanda Sterner recommended a change to the last sentence on page five. Ms. Sterner moved to accept the minutes with the one change. Gene Garcia seconded. The motion passed without opposition.</p> <p>The part that read “Ms. Sterner asked if they were anaerobic bugs. Mr. Sandstrom said yes, they are anaerobic...” will now read “Ms. Sterner asked if they were anaerobic bugs. Mr. Sandstrom said no, they are aerobic...”</p>	N/A	
2.	<p><u>RBCA Update</u> Scott Kilkenny, KMEP</p> <p>Mr. Kilkenny distributed comments from the Regional Water Quality Control Board (RWQCB) and the Office of Environmental Health Hazard Assessment (OEHHA) on the Risk-Based Corrective Action (RBCA) plan. The comments are very technical. Mr. Kilkenny recommended the RAB members review the comments and contact him or Jill Jefferson with any questions or comments. KMEP plans to meet with RWQCB and OEHHA in the next few weeks. The OCCS will meet on Thursday, March 2, 2000, at 4:00 p.m. in Room 4 of City Hall to start the process of addressing the comments. They will present an overview to the RAB in April</p> <p>The OCCS members who were at the meeting were recognized: Scott Kilkenny, Jill Jefferson, Gene Garcia, and Bill Miller. Mary Jane McIntosh and Ron Babel also attend the meetings when possible.</p>	<p>OCCS Members</p> <p>OCCS</p>	<p>03/02/00</p> <p>04/27/00</p>
3.	<p><u>KMEP Update</u> Jill Jefferson, KMEP</p> <p><b>Remediation Operations Update.</b> Ms. Jefferson said that the remediation systems were placed in operation in September 1995 and have operated for 23,830 hours. There are 16 onsite and 7 offsite vapor extraction wells online in</p>	N/A	

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	<p>the south-central plume area and 2 vapor extraction wells plus air sparge-trenches online in the 24-inch valve area. Approximately 291,900 gallons equivalent of fuel has been removed from the soil and destroyed by thermal oxidation, including 17,100 gallons since the October RAB meeting.</p> <p>There are 5 product/groundwater extraction wells online in the south-central plume area. Product recovery canisters have been installed in wells GMW-4 and MW-9. The pumps in wells GMW-O-21 and MW-O-2 that were disconnected due to property redevelopment are due to be reconnected in February. There is one product/groundwater extraction well online in the 24-inch valve area, and there are eight West Side Barrier wells in operation (not including DESC wells).</p> <p>Approximately 16.8 million gallons of water have been pumped and treated by the south-central and 24-inch valve systems, including 0.5 million gallons since the October meeting. Approximately 2.4 million gallons of water were pumped and treated by the enhanced West Side Barrier treatment system, including 0.2 million gallons since the October meeting. This totals approximately 19.2 million gallons of water treated by all systems since startup, including 0.7 million gallons since October. Approximately 8,500 gallons of liquid fuel has been recovered, including 100 since October.</p> <p><b>EXP Wells Update.</b> Ms. Jefferson said KMEP committed to monitor all EXP wells monthly for six months beginning July 1999. In November, all constituents were ND except MTBE, which was detected at 0.6 ug/l in EXP-4. In December, all constituents were ND. KMEP has renewed their commitment to monthly monitoring for an additional six months. Mr. Kilkenny said they met with the city's consultants to review the sampling. Ms. Jefferson said the method they were using to purge might have been aerating the samples. They have taken measures to ensure it will not happen in the future.</p>		
4.	<p><u>Groundwater Monitoring Update</u> Joe Trani, DESC-LA</p> <p>Joe Trani said that during the Semiannual Groundwater Monitoring event, there were no big changes with the 11 Sentry wells. He also recapped briefly the EXP wells sampling results. Water and free product levels were measured in 148 on- and off-site monitoring wells. There were 23 wells that contained free product, ranging from 0.01</p>	N/A	

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	<p>to 8.1 feet in thickness. This was all good news. Liquid hydrocarbon thicknesses decreased almost one-half a foot in the northern area and over one foot in the southern area. The eastern and northern boundaries of the southern product plume have receded since May 1999. No free product was found in the 24-inch valve area.</p> <p>The groundwater gradient is the same as the previous event. The gradient has changed in the southwest area, showing the remediation systems are doing their jobs. The groundwater elevation has dropped three-quarters of a foot since May 1999.</p> <p>Ninety-nine wells were sampled in November 1999. Nothing has really changed. There was some minor plume movement, but nothing alarming.</p> <p>Ms. McIntosh asked about the MTBE in the 24-inch valve area. This was the third report that has shown an increase in most of the wells in that area. Do we have an explanation? Ms. Jefferson said that when KMEP started air sparging, they saw mounding which may have pushed MTBE and caused an increase. They backed off on the sparging and increased pumping in extraction well GMW-15 to decrease the mounding. Mr. Garcia asked if the results since the adjustments coincide with what you thought would happen. Ms. Jefferson said no; the MTBE has not decreased yet. Ms. McIntosh would like to see these wells monitored at the next event in May 1999. If concentrations have not decreased next time, we should look into it. Ms. Jefferson said those wells are regularly monitored.</p>		
5.	<p><u>DESC-LA Update</u> Joe Trani, DESC-LA</p> <p>Mr. Trani said DESC has recovered a little more than half of what was estimated in the northern plume area. Biodegradation should pick up with the start of the biosparge system, which was started last Wednesday, January 19. Mr. Garcia asked how they estimated the biodegradation. Daniel Swensson said that Neil Irish goes through the estimation process. Mr. Trani said he would check on it and present it at the next meeting.</p> <p>Approximately 111,000 gallons of hydrocarbons have been recovered and destroyed, including 53,100 gallons of free product and 56,900 from soil vapor extraction. Approximately 87,000 gallons have been biodegraded.</p>	DESC	4/27/00

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	Approximately 21 million gallons of water has been pumped and treated. Approximately 735 gallons of dissolved phase have been recovered.		
6.	<p><u>Geoscience Update</u> Dennis Williams, Geoscience</p> <p>Dennis Williams and Tom Harder review the Norwalk data periodically and advise the cities of Norwalk and Cerritos. Mr. Williams discussed the regional setting of the site and the series of aquifers beneath it. He described his recent activities including observation of sampling. They evaluated the groundwater levels, plumes, and water in the Exposition Aquifer and provided analysis. The shallow groundwater elevations in September 1995, July 1997, and May 1999 show that the remediation systems are working in the shallow groundwater. The West Side Barrier system is also effective. A cross section showed a 30-foot difference from the shallow to the deep aquifer. Therefore it is possible that the contamination could get pushed to the lower aquifer. The downward hydrologic gradient is a concern. Cerritos wells C1 and C2 are downgradient.</p> <p>Mr. Williams described the status of the plumes. 1,2-DCA is shrinking somewhat, and the lateral extent has not changed much. MTBE shot up in the north in 1997, which was probably due to pumping. Then in May 1999 it was experienced in the southeast area and was shooting up towards the northwest. It was also detected in the EXP well, but that may be due to lab error. It has declined in the EXP wells since May 1999, and they are keeping a watchful eye on it. Mr. Harder said that benzene and MTBE in the EXP wells is possibly due to downward migration. Ms. McIntosh as if vertical migration was occurring, wouldn't we see some type of contamination in the last sampling, or is it hit and miss? Mr. Williams said it is elusive. They have not seen a steady increase, but they saw things that should not be there.</p> <p>Mr. Harder said they observed the sampling procedure during November and did not see any cross contamination. Entrained air bubbles were observed in the split samples. Mr. Williams said that since the high concentrations detected in the EXP wells in May 1999, MTBE concentrations have been declining. The high concentrations in May 1999 may</p>	N/A	

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	<p>have been due to inadequate decontamination of equipment; declining water levels; or entrained air in the samples. Mr. Harder said the declining water levels is why they requested an additional six months of sampling. Ms. McIntosh said they would still monitor the EXP wells on a quarterly basis.</p> <p>For the shallow aquifer, Mr. Williams recommended exploration of emerging techniques for hydrocarbon remediation and the removal of offsite contaminants using vertical or horizontal extraction wells. For the EXP wells, he recommended continued monthly monitoring for at least one year and installation of an additional offsite monitoring well. Mr. Garcia asked if installation of a new well could become another source of contamination. Mr. Williams said that they could use techniques to seal off the well to prevent contamination.</p>		
7.	<p><u>Set Date and Agenda for Next Meeting</u></p> <p>Mr. Koury said there will soon be a new commander at DESC-LA, Lt Col Edward Wilson, who will report to Col Russell. Mr. Koury said that in the interim, just because there is no commander or other high-ranking military officer in attendance, the RAB still remains of high importance to DESC. Mr. Koury said that DESC is made up mostly of a civilian workforce and that these civilians are totally committed to the DFSP Norwalk remediation and site closure efforts.</p> <p>The next quarterly RAB meeting will be held <b>Thursday, April 27, 2000, at 6:30 p.m.</b> in the Norwalk Arts &amp; Sports Complex.</p>	All	4/27/00
8.	<p><u>Public Comment Period</u></p> <p>Mr. Babel moved to adjourn the meeting. Mr. Garcia seconded. The motion passed without opposition. Ms. McIntosh adjourned the meeting at 7:43 p.m.</p>	N/A	