

# FINAL

## Meeting Minutes

<b>Meeting Subject:</b> Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting	<b>Meeting Date:</b> <u>29 July 1999</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 M. McIntosh (Co-Chair) W. Miller L. Smith W. Sterner M. Young	<b><u>Other Members</u></b> J. Anderson (City of Norwalk) R. Babel (City of Cerritos) S. Kilkenny (KMEP) A. Townsend (RWQCB)
<b><u>Other Attendees</u></b> M. Bartee (KMEP) L. Bourgoïn (Resident) Mr. Bourgoïn (Resident) T. Devoy (Norwalk) N. Gonzalez (Los Cerritos News) J. Jefferson (KMEP) M. Koury (DESC-LA) E. Lehto (March ARB) W. Phillips (RWQCB) J. Trani (DESC-LA) T. Whyte (URSGWC) Col Wright (DESC-A)	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> Dr. Duran (OCCS) B. Hoskins Lt Col Hover (DESC-LA) Dr. Landolph (OCCS) J. Leserman (WRD) J. Rifilato	
<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> Scott Kilkenny, KMEP, Co-Chair, Meeting Chair</p> <p>Mr. Kilkenny called the meeting to order at 6:41 p.m. He asked for comments on the minutes from the April 22, 1999, RAB meeting. Bill Miller moved to accept the minutes without changes. Mary Jane McIntosh seconded. The motion passed without opposition.</p> <p>The Community Co-Chair election was held. The two nominees, Mary Jane McIntosh and Laurie Smith, each gave a short statement. By a vote of five to two of the community members, Ms. McIntosh was reelected to another two-year term.</p>	N/A	
2.	<p><u>RBCA Update</u> Scott Kilkenny, KMEP</p> <p>Mr. Kilkenny said the Risk-Based Corrective Action (RBCA) plan was finalized and sent to the Regional Water Quality Control Board (RWQCB). Ana Townsend of the RWQCB said they sent it to the Office of Environmental Health Hazard Assessment (OEHHA) for review. They hope to get comments back from OEHHA by September. Mr. Kilkenny said to let him know if there was anything that KMEP could do to help get comments back sooner.</p>	N/A	
3.	<p><u>KMEP Update</u> Mark Bartee, KMEP</p> <p><b>Phytoremediation Update.</b> Mr. Bartee said that phytoremediation is a relatively new technology that takes advantage of a tree's ability to influence biological, chemical, and physical processes that reduce environmental contaminants in groundwater and soil. It provides hydraulic influence equivalent to a 10 gallons per minute pump and treat system. It also reduces operation and maintenance costs.</p> <p>The initial phytoremediation installation at Norwalk occurred on July 13 through July 16. They planted 80 phreatophytic (cottonless) Lombardy poplar trees. There were two plots planted. They planted 56 trees in the western plot and 24 trees in the eastern plot. They also installed a automated irrigation system.</p> <p>Pre-planting activities included contacting Underground</p>		

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	<p>Service Alert to determine if any underground utilities were in the area. The conceptual design was reviewed by a state-certified arborist. A 20-foot core sample was collected and evaluated by a soils scientist. The soil was screened for chemicals of concern, the results of which were non-detect. They drilled 80 borings, 3 feet in diameter, approximately 15 feet below ground surface. The western plot consists of 7 rows of trees in a 60-foot by 100-foot area; the eastern plot consists of 3 rows of trees in a 20-foot by 70-foot area.</p> <p>The trees were 13 to 15 feet tall, weighed approximately 300 pounds each, and were delivered in 24-inch boxes. The trees were lifted by crane into the holes and were planted 10 feet below ground. The holes were then backfilled with nutrient-enriched soil. KMEP plans to add one or two new monitoring wells in the area and will conduct continuous moisture monitoring. They also plan to have a “phytoremediation day” for public viewing of the trees.</p> <p><b>Remediation Operations Update.</b> Mr. Bartee said the KMEP remediation systems have operated for 21,150 hours since startup on September 15, 1995. There are 16 onsite and 7 offsite soil vapor extraction wells online in the south-central plume area. There are two vapor extraction wells plus air-sparge trenches online in the 24-inch valve area. Approximately 258,000 gallons of fuel has been removed from the soil and destroyed by thermal oxidation. Approximately 10,000 gallons of total fuel was removed since the April RAB meeting.</p> <p>There are eight groundwater/free product extraction wells online in the south-central plume area. The new pump in well GMW-O-12 has shown a decrease in measured product thickness. A new pump was installed in well GMW-24 after the pipeline work was completed. There was one product/groundwater extraction well (GMW-O-15) online in the 24-inch valve area. There are eight wells in the Westside Barrier System (not including the DESC wells).</p> <p>There were approximately 15.2 million gallons of water pumped and treated by the south-central and 24-inch valve systems, including 1.1 million gallons since the April RAB meeting. Approximately 1.5 million gallons of water was treated by the enhanced Westside Barrier treatment system since startup, including 0.6 million gallons since the April meeting. This totals 16.8 million total gallons pumped by all systems, including 1.7 million gallons since the April</p>		

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	<p>meeting. There has been approximately 8,400 gallons of liquid fuel recovered, including approximately 80 gallons since the April meeting.</p>		
4.	<p><u>Groundwater Monitoring Report</u> Jill Jefferson, KMEP</p> <p>Ms. Jefferson said the Groundwater Monitoring Report, which was distributed yesterday and today, has two sets of data. First is the sentry wells, consisting of 11 wells plus wells EXP-4 and EXP-5. These wells were monitored in February 1999. They are located along the edge of plumes or where there have been variable concentrations. The sentry wells provide seasonal data and provide early warning of significant changes. The chemical concentrations found in the February sampling were similar to previous sampling events.</p> <p>The second set of data was from the May 1999 semi-annual monitoring event. Water and/or free product levels were measured in 153 wells, of which 27 contained free product. The three plumes were similar to previous the monitoring event. There was no free product found in the 24-inch valve area.</p> <p>The groundwater gradient was found to be approximately 0.002 feet/foot to the west-northwest. There were local gradients found to vary in direction and magnitude. The recent increase in pumping created an expected drawdown along the western edge of the site and the north-central plume area. The gradient changed from west/northwest to east/northeast due to the pumping of the Westside Barrier wells.</p> <p>In the May monitoring event, 104 wells were sampled. In general, TPH, benzene, MTBE and 1,2-DCA concentrations were similar to previous events. There were a few low benzene and MTBE detections in the offsite and Exposition Aquifer wells.</p> <p>The data for the Exposition Aquifer wells sampling was as follows:</p> <ul style="list-style-type: none"> <li>• EXP-1 had no detections.</li> <li>• EXP-2 had low BTEX on 5/7/99 and no BTEX on 5/26/99 and 7/21/99. It also had MTBE in</li> </ul>		

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	<p>concentrations of 1.7 parts per billion (ppb), 1.4 ppb, and 0.83 ppb on 5/7/99, 5/26/99, and 7/21/99 respectively.</p> <ul style="list-style-type: none"> <li>• EXP-3 had 0.89 MTBE on 5/7/99 and no MTBE detected on 5/26/99. All other constituents were non-detect.</li> <li>• EXP-4 had low BTEX and no MTBE on 5/7/99. It then had no BTEX and no MTBE detected on 7/21/99.</li> <li>• EXP-5 had low BTEX on 5/7/99 and no BTEX on 7/21/99. It had 140 and 150 ppb (two samples) of MTBE on 5/7/99 and 11 ppb MTBE on 7/21/99.</li> </ul> <p>Eugene Garcia asked how come 153 wells were measured but only 104 wells were sampled. Mr. Kilkenny said that samples are only taken from wells that do not contain free product. A short discussion on the workings of the sampling device followed.</p> <p>Mr. Garcia asked how come only one sample was taken at EXP-2. He said there should be two samples taken at each well to see if there is a significant variance. Mr. Kilkenny said they took duplicate samples at one well to determine if the equipment is operating correctly. They are mainly looking for trends with these samples. Wendy Phillips said the RWQCB likes to do spot checks on the samples from time to time. Mr. Garcia said he has no problem calling the EXP well data “qualitative.”</p> <p>Ms. Townsend said the RWQCB has concern about the numbers and suggests quarterly monitoring for the EXP wells. Ms. Jefferson said there is no suspected source for the detections. It is possible it could have come from another source. She said there is no delineation yet, since this was the first time these wells had detections. The wells are scheduled for resampling on August 9<sup>th</sup> and 10<sup>th</sup>. This will help to determine if this was just a one-time spike. Mr. Kilkenny said they had some concerns over the sampling technique, so they want another round of sampling. Then they can make a plan of action, including possibly installing additional wells. If the new samples are non-detect, the previous hit could have been due to laboratory error.</p> <p>Ms. McIntosh suggested another meeting after the August sampling. Ms. Townsend said she will be there for the August sampling, and the RWQCB will try to get comments back prior to the next RAB meeting. Mr. Kilkenny said that</p>		

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	<p>Jill Anderson said the City of Norwalk would like their consultant, Geosciences, to review the data as well.</p> <p>Ms. McIntosh had two requests for information to be discussed at the next meeting. First, did the increase in pumping in the Westside Barrier system contribute to the new detections? Second, can KMEP check with DESC to see if they have noticed anything different in their treatment system, and to make sure the two systems are working together properly.</p> <p>Ron Babel asked if phytoremediation would effect MTBE. Mr. Kilkenny said they do not know yet.</p>		
5.	<p><u>DESC-LA Update</u> Joe Trani, DESC-LA</p> <p><b>Fuel Release Update.</b> To recap how the fuel release was discovered, Mr. Trani said they noticed discolored soil near the water tank. They excavated the area and found two 6” pipelines that were not shown on the facility blueprints. Approximately 6,500 cubic yards of soil were impacted at about 25 feet below ground surface (bgs). TPH concentrations were found to be 1,860 parts per million (ppm) at 25 feet bgs. There was no free (floating) product found. They found benzene at concentrations from 0.005 ppm to 5 ppm at 10 feet bgs. No TPH was detected below 20 feet bgs. No 1,2-DCA or MTBE was detected.</p> <p>DESC recommends no further action until the facility closes. The fuel is not very volatile, since it is old and degraded. It also would be more cost effective to treat after closure. Then they can remove the tank and surrounding piping, excavate the soil and biotreat onsite or treat in a thermal unit.</p> <p><b>Central Area Remediation Update.</b> The central plume remediation system started up in April 1996. Since then, approximately 102,500 gallons have been recovered and destroyed. Approximately 84,000 gallons have biodegraded. Approximately 18.4 million gallons of water have been treated, and 515 gallons of dissolved phase hydrocarbons have been recovered. Mr. Trani said the important fact to note is that since the original estimate was 400,000 gallons in the area, they have recovered about half of it. Approximately 200,000 gallons remain in the subsurface.</p> <p>Mr. Trani said system enhancements include installing 16 bio-sparging wells to enhance bioremediation. GTI has been</p>		

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	<p>funded for the work and is ready to install the wells. He also said once the tanks are removed, they could do more. "Hot zones" could then be accessed for excavation and onsite treatment.</p> <p>Mr. Trani showed a graph of the product recovery. He said they have recovered approximately 3,000 gallons since the April RAB meeting. The curve is flattening out, so that is why they are doing the enhancements.</p> <p>Ms. Townsend asked if he had a map of the new wells and if he will have an assessment report. Mr. Trani said the wells will be installed prior to the next meeting. A workplan will be distributed which will contain a well map.</p>	DESC	10/28/99
6.	<p><u>Set Date and Agenda for Next Meeting</u></p> <p>A tour and meeting will be held on <b>Thursday, September 2, 1999</b>. A tour of the phytoremediation will begin at 4:30 p.m. at the Tank Farm. Following the tour, an interim RAB meeting to address the latest groundwater monitoring report will be held at 6:30 p.m. at the Norwalk Arts &amp; Sports Complex.</p> <p>The next quarterly RAB meeting will be held <b>Thursday, October 28, 1999, at 6:30 p.m.</b> in the Norwalk Arts &amp; Sports Complex.</p>	All  All	9/2/99  10/28/99
7.	<p><u>Public Comment Period</u></p> <p>Ms. McIntosh moved to adjourn the meeting. Mr. Garcia seconded. The motion passed without opposition. Mr. Kilkenny adjourned the meeting at 7:57 p.m.</p>	N/A	