

FINAL

Meeting Minutes

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| Meeting Subject: Norwalk Tank Farm Restoration Advisory Board (RAB) Quarterly Meeting | Meeting Date: <u>22 April 2004</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> Col Alexander (DESC-AMW) (Co-Chair) T. Devoy (City of Norwalk) J. Holdren (City of Cerritos) N. Matsumoto (WRD) A. Townsend (RWQCB) T. Ryland (KMEP) (Co-Chair) |
| <u>Other Attendees</u> S. Chou (Geomatrix) R. Hassan (Parsons) K. Olowu (DESC) C. Silver (Parsons) T. Whyte (URS) | DESC-AMW . Defense Energy Support Center Americas West 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. Rifilato | |
| <u>Not Attending</u> Dr. Duran (OCCS) Dr. Landolph (OCCS) | |
| <u>BACKGROUND</u> DESC-AMW 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 quarterly on the last Thursday of the month at 6:30 p.m. in January, April, July, and October unless otherwise voted on by the RAB community membership. | |

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1. Introduction Mary Jane McIntosh, Community Co-Chair, Meeting Chair

Mary Jane McIntosh called the meeting to order at 6:36 p.m.

Ms. McIntosh asked if there were any comments on the January 22, 2004, meeting minutes. Bob Hoskins made a motion to accept the minutes as written. Joe Holdren seconded the motion, and the motion was passed.

2. RBCA Update Terri Ryland, KMEP Co-Chair, and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Terri Ryland said the Regional Water Quality Control Board (RWQCB) accepted the Risk-Based Corrective Action (RBCA) Plan in July 2003. In response to a request from Theresa Devoy of the City of Norwalk, KMEP is preparing a human health risk assessment (HRA) for the southern portion of the facility. Ann Holbrow of Geomatrix prepared a work plan outline, similar to what was done for the RBCA. The Offsite Chemicals Cleanup Subcommittee (OCCS) met last week to discuss the outline. Ana Townsend of RWQCB suggested they look at the 1993 HRA and evaluate it based on current site conditions. Ms. McIntosh said to make sure that they have new data on the latest releases. Gene Garcia asked about one of the issues discussed at the meeting, "calculating risk vs. developing risk-based remediation goals". Ms. Holbrow said that this shows two different angles of how to come to a conclusion on whether or not to take action at a site. Mr. Garcia asked what can we do after the plan has been submitted to the RWQCB? Ms. Ryland said that we could try to remediate to Maximum Contaminant Levels (MCLs) and show that site conditions are stable, then request closure. Ms. Townsend said that we probably cannot get to MCLs, but we can get to risk levels. Mr. Garcia then asked what happens if we get to risk levels, and the RWQCB says to keep going? Ms. Ryland said then we would re-evaluate the site and the operating program. Mr. Garcia said that he wants to see definitive goals. Ms. Townsend said that some areas are below MCLs right now. When other areas get to risk levels, they can take a look at things, such as future land use. Mr. Garcia said he thought the City wants the site to be mostly park area. Wanda Sterner said that future land use is up to the City to decide, so she is not sure why this group is discussing it. Ms. McIntosh said the HRA will look at future land use when determining health risks. Ms. Sterner said it would be wise to find out what the City is planning before doing the HRA for residential land use. Ms. McIntosh said she would check with Theresa Devoy to give a land use update at the next meeting. Mr. Hoskins said that he has heard many times over the years that this group was to talk about remediation only, not land use. He said that the west side plume seems to go around his property. He is still concerned about it and would volunteer his property for tests. Ms. Townsend said that there is not much product left; the dissolved phase is probably what is migrating. Mr. Garcia asked about decreasing concentrations in the southeast. Shioh-Whei Chou said that levels are similar to one year ago. Some wells had increases, but not much. Ms. Ryland said that the increases are a flag for them to evaluate the results carefully.

3. KMEP Update Terri Ryland, KMEP Co-Chair, and Shioh-Whei Chou, Geomatrix Consultants, Inc.

Remediation Operations Update. Ms. Chou showed a map of the current remediation systems. She said the soil vapor extraction (SVE) system has 17 onsite and 6 offsite wells in the South-Central Plume area and 2 wells in the southeast 24-Inch Block Valve area. The system removed and destroyed 5,220 gallons equivalent of fuel since the January 2004 RAB meeting and 403,460 gallons equivalent of fuel since September 1995. Ms. Chou showed a graph of cumulative fuel removed by vapor extraction. The levels stabilized in the past year, but more fuel was recovered towards the end of the year due to the new SVE well. Ms. Chou showed a second cumulative fuel recovered graph, showing the most recent nine-month period. The new SVE well was installed in October 2003. An increase in recovery rates was then experienced. Then a blower broke, and the system had to be shut down in early March 2004.

Ms. Chou said the groundwater/product extraction system has eight groundwater wells in the West-Side Barrier area, eight groundwater/product wells in the South-Central Plume area, and three groundwater/product wells and two groundwater extraction wells in the southeast 24-Inch Block Valve area. This includes new total fluids wells installed in the previously inaccessible wells MW-O-2 and GMW-O-21 in the South-Central area during February 2004. Since the January 2004 RAB meeting, a total of approximately 81,000 gallons of groundwater have been extracted from the South-Central Plume area. A total of 537,200 gallons of groundwater were extracted from the southeast 24-Inch Block Valve area, and approximately 1,055,000 gallons were extracted from the West-Side Barrier area. These numbers have doubled since they redeveloped the wells. It is helping to prevent offsite migration. No free product was recovered during the period. Total groundwater removed since September 1995 includes 22 million gallons from the South-Central Plume area, 4.4 million gallons from the 24-Inch Block Valve area, and 12.2 million gallons from the West-Side Barrier area, for a total of 38.7 million gallons. Ms. Chou said 8,745 gallons of free product have been removed since September 1995. Ms. Chou next showed a graph of total groundwater and product extracted. The free product recovery line has been flat since February 2000.

Phytoremediation Update. Ms. Chou showed a chart of the phytoremediation process. The poplar trees are located near the southwestern portion of the site. The roots extract groundwater containing volatile organic compounds (VOCs). The VOCs are phytotransformed in the trees or evapotranspired through the leaves. KMEP is currently performing maintenance activities including irrigating and weeding. A question was asked at the last meeting about leaf analysis. Several methods exist to examine VOC accumulation in plant tissue. However, poplars do not hyperaccumulate VOCs, so it is not practical to analyze the leaves. Instead they will continue to monitor the wells in the area to see if concentrations change. Mr. Hoskins read a paragraph from Joe Trani's phytoremediation project in San Pedro. They know that it is working in that location.

4. DESC-AMW Update Redwan Hassan, Parsons

Central Plume Remediation System Update. Redwan Hassan said that during the past three months, the Central Plume remediation system removed a total of approximately 3,373 gallons of hydrocarbon mass. Approximately 805 gallons of fuel were recycled and destroyed through soil vapor extraction. No free product was recovered during the quarter, and virtually no dissolved phase hydrocarbons were recovered. An estimated 2,568 gallons were removed through bioremediation. Approximately 26,387 gallons of water were treated and discharged offsite. No free product was recovered because of the decrease in thickness; more water is being recovered right now. In addition, the system was shut down for a period of time for repairs.

Cumulative totals since April 1996 include 261,367 gallons of hydrocarbon mass removed. Approximately 143,475 gallons of fuel have been recycled and destroyed, including 55,536 gallons through free product recovery, 86,542 gallons through soil vapor extraction, and 1,397 gallons of dissolved phase hydrocarbons. In addition, an estimated 117,892 gallons have been removed through bioremediation. Approximately 41.9 million gallons of water have been treated and discharged offsite. The biosparge totals continue to increase, so the way to go may be to enhance biosparging and treat the hotspots. Mr. Hassan showed a graph of the free product and soil vapor extraction recovery. The product recovery line has leveled off for a while. He does not expect it to go back up, because the product thicknesses are one foot or less, which makes it hard to extract.

Oily Waste Area. Mr. Hassan said that a report on the oily waste area was submitted to RWQCB in February 2004. Two borings were installed to 30 feet below ground surface. No contamination was found between the bottom of the oily waste area and the top of the groundwater. Therefore, no further action is recommended. They are awaiting response from the RWQCB. Ms. Sterner asked if a deed restriction could be placed on the area. Ms. Townsend said yes, that is what they are planning.

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Truck Fill Stand VES Implementation. Mr. Hassan said a vapor extraction system was installed at the former truck rack area. It included five soil borings, three vapor monitoring points, and eight vapor extraction wells (including two existing). Seven of the wells are connected, and the eighth will be connected next week. The wells are connected to the central treatment plant using HDPE pipe. The extracted vapors are treated in the thermal oxidizer. Extraction started on April 20, 2004. Initial measurements indicate elevated vapor levels, which is what they expected. They anticipate a decrease over time.

Aboveground Storage Tank Activities. Mr. Hassan said that they recently began cutting open tanks for installation of vapor extraction wells and sampling. Three tanks were chosen for access based on previous investigation results. These are the three tanks that are thought to have the most shallow contamination below them. They will conduct slant borings underneath the other tanks. They started shearing activities two weeks ago. They started on Tank #8 on the east. The initial cut is difficult because the tank walls are flexible and have to be cut into small pieces. In addition, the metal is thick, so it is a slow process for the shear to cut it. They have completed the first tank, and the second tank is almost complete. They expect to start on the third tank next week. The debris was cleared and hauled offsite. The opening is 15 to 24 feet wide and about 40 feet high. Mr. Hoskins said that no notices were distributed to the community before-hand. The work can be very loud. Mr. Hassan said the contractors work from about 6:00 AM to 3:30 PM. The noisy work usually starts about 7:00 AM.

Eastern Boundary Well Installations. Mr. Hassan said that RWQCB requested new groundwater wells on the eastern boundary of the site. Two wells were installed on April 14, 2004, as close as possible to the middle of the roadway along the site perimeter. The wells were developed on April 26. They are awaiting soil and groundwater sampling results.

Ms. McIntosh asked about security at the facility. Mr. Hassan said there is a security guard on site 24 hours, and they make regular patrols around the facility every half-hour.

5. Set Date and Agenda for Next Meeting

The next RAB meeting will be held **Thursday, July 29, 2004, at 6:30 p.m.** in the Norwalk Arts & Sports Complex. The agenda will include an update on proposed future land use by Theresa Devoy.

6. Public Comment Period

There were no other comments. Mr. Hoskins moved to adjourn the meeting. The motion was seconded. The motion was passed, and Ms. McIntosh adjourned the meeting at 7:44 p.m.

ACTION ITEMS

| Item | Responsible Party | Due Date |
|------------------|-------------------|----------|
| Next RAB meeting | All | 7/29/04 |