

PROJECT REVIEW MONTHLY CALL SUMMARY
FORMER DEFENSE DEPOT MEMPHIS, TENNESSEE
16 June 2015
10:30-11:30 AM ET/9:30-10:30 CT

LOCATION: Conference Call

ATTENDEES:

Army, Base Realignment and Closure Division (DAIM-ODB): Carolyn Jones

USACE: Tulsa - Tyler Jones; Mobile – Laura Roebuck

CALIBRE: BEC - Joan Hutton

TDEC Division of Remediation, DDMT Project Manager: Jamie Woods

U.S. Environmental Protection Agency, Region 4, DDMT Project Manager: Diedre Lloyd

HDR EOC: Tom Holmes

GENERAL

Ms. Hutton opened the call by announcing all team members were present on the call. (Ms. Lloyd was driving and not able to view hand-outs during the call.)

MAIN INSTALLATION

Remedial Action - No current remedial action

Supplemental Remedial Investigation/Focused Feasibility Study

Mr. Holmes reviewed SRI Phase 1 well installation status as well as the hydrogeological and analytical results. Draft figures provided just prior to the call consisted of well location, top of clay and concentration maps for tetrachloroethene (PCE) and trichloroethene (TCE); the figures were modified from the April 2015 LTM report. Nine wells were installed during the Phase 1 work to date. All are located in the eastern section of the former Depot; access for three off-site locations was not granted prior to completion of field work. The well locations were close to the locations in the final work plan. All were within 40 feet of the proposed coordinates, except for MW-264 and MW-271 which were shifted approximately 90 feet for utility clearance. Ms. Lloyd and Mr. Woods stated that shifts of 90 feet were not significant.

Mr. Holmes stated the total footage of the borings was very close to the estimate, but individual well depths based on the top of clay were significantly different. Two new features were noted for the top of clay map: a channel in the clay surface was indicated at MW-263, MW-264 and MW-265 in the northeastern MI, and an extended ridge was indicated at MW-270 on the southeastern MI boundary. Mr. Holmes noted the top of clay data was important because the clay forms the base of the fluvial aquifer and impacts groundwater flow in the aquifer. A groundwater elevation map had not been prepared because of a question about the measured elevation at MW-264, which was about 10 feet lower than at nearby wells. The measurement was repeated and confirmed and makes sense when the top of clay at that location is considered

PCE concentrations at the new wells were generally low and did not change the isopleths on the April 2015 LTM map. Higher TCE concentrations were observed at two locations, 30.3 micrograms per liter (µg/L) at MW-263 along the northeastern boundary and 164 µg/L at MW-270 along the northeastern boundary. The concentration at MW-270 was higher than anticipated; Mr. Holmes

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stated that a confirmation sample will be collected when additional SRI Phase 1 wells are installed. TCE concentrations at nearby wells, which are generally low, were discussed in response to a question from Ms. Hutton. Further investigation near MW-270, including an off-site well location, was discussed and considered appropriate; recommendations for Phase 2 well installation will be provided in the SRI Phase 1 summary report.

Access for planned off-site wells was discussed. Mr. Holmes stated that an access agreement for the planned location of intermediate aquifer (IAQ) well MW-262 was no longer being pursued due to difficulty in negotiating with the property owner, RLR Investments. Alternate locations were provided to the team in a 6/4/15 email from Ms. Hutton. The USACE-Mobile real estate division is assisting with access agreements for two locations: a residential property held by Shelby County and a school property held by Shelby County Public Schools. The county has not responded on the residential property but approval for the school property appears to be moving forward. A third location is within a power line right of way on the former Depot property; the drilling contractor needs to view the location to determine if drilling is feasible.

Mr. Woods agreed to contact Shelby County if the USACE real estate manager thought it would help. Ms. Lloyd also offered to provide a letter requesting access if that would be helpful.

Mr. Woods suggested that a well location in the Dunn Avenue right of way also be considered; the roadway has four lanes allowing traffic to pass a drill rig in the right lane. Mr. Holmes stated that an off-road location was preferred for safety during installation and sampling events, but that a location in the roadway would be considered.

Ms. Hutton noted that access has been granted for MW-269, a fluvial aquifer well location, west of TTA-1N in the southwestern MI.

In response to Ms. Hutton's question about SRI schedule impact from delay in well installations, Mr. Holmes stated that if access is granted the wells will be installed in mid-July and suggested that the SRI Phase 1 report be delayed until the additional wells are installed. The Phase 1 report, a FFA secondary document, is being prepared now based on the work completed and will be revised if the remaining wells are added. Installation of the wells is considered important to allow Phase 2 planning to provide more complete site information for the feasibility study. The SRI was delayed a few weeks due to extended work plan review; once the Phase 1 field work is completed, the impact on submittal of the SRI Report, a FFA primary document, can be reviewed and discussed with the project team.

DUNN FIELD

Remedial Action - FSVE system shut down in 2012. AS/SVE system operating.

Mr. Holmes discussed the status of AS/SVE operations. The AS system is off during June in accordance with the current operating schedule. A coupler on the AS compressor broke during maintenance on 6/3/15 but will be repaired in time to operate the AS wells in July. One SVE blower is operating 12 hours per day while the AS system is off; the two SVE blowers will alternate for operations 24 hours per day when the AS system is on. A quarterly report will be prepared for AS/SVE operations for March to June.

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LONG TERM MONITORING

LTM continuing with 99 wells on the MI and 86 wells on Dunn Field/Off Depot Area.

April LTM Results

Mr. Holmes reviewed April semiannual LTM event results. A draft report has been submitted for internal review; selected tables and figures from the report were provided prior to the call. Mr. Holmes briefly stated the concentration levels reported for the primary contaminants and reviewed the CVOC concentration maps for the MI and Dunn Field.

The completion of EBT injections in August of 2014 appeared to impact the analytical results on the MI; PCE and TCE concentrations increased as a result of residual contamination in the loess or adsorbed in the aquifer, and cDCE and VC concentrations decreased due to less reductive dechlorination from EBT. The concentration changes were not large but were noticeable in review of the data. The figures showed the MI plumes to be consistent with past results. CVOC concentrations in MW-256, the IAQ well in the northwest corner of the MI, were similar to past results; PCE concentrations have been 38 to 44 µg/L since October 2012.

CVOC concentration decreased slightly in most Dunn Field LTM wells. The maximum CVOC concentrations were observed at MW-159, just upgradient of AS/SVE system, as in previous LTM events. The number of wells exceeding MCLs or target concentrations (TC) decreased to 11 from 14 in October 2014. The main features noted on the CVOC concentration maps are the high concentrations at MW-159, rebound at MW-06 and MW-87 on the western boundary of Dunn Field, and the off-site plume on the northern boundary of Dunn Field. Concentrations, primarily chloroform, remain elevated at MW-06 and MW-87 but have not increased much since October 2014.

Mr. Holmes and Ms. Hutton stated that additional work was being considered to reduce CVOC concentrations around MW-159. Additional AS wells are the likely alternative since the remedy has been successful but injections for in situ chemical oxidation are also being considered. Additional funding would be required for planning and implementation.

Ms. Hutton stated that little rebound in concentrations was observed in the Off Depot Area even though the AS/SVE system had been off for a year. Mr. Holmes noted that a couple of wells (MW-246 and MW-249) installed on the downgradient edge of the system during construction had increased during the shutdown but decreased to low levels in April after operations were re-started in March.

Ms. Lloyd asked about the plan for abandonment of MW-33. Ms. Hutton indicated that this will be done under a new contract and that we are currently programming funds for this task.

LTM Well Classification

The LTM well classification criteria from the 2014 annual report were provided as a hand-out in response to a comment on the annual report. Mr. Holmes noted that wording in the Boundary classification criteria, only used for the MI, was repeated in the Background classification criteria. Although not defined in the LTM plan, two subsets have been defined for Dunn Field, Background-

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NE and Performance-FSVE and are similar in concept. Discussion was limited since Ms. Lloyd was not able to view the criteria; the issue will be discussed at a later date.

Precipitation/Water Level Review

Mr. Holmes briefly discussed the precipitation/water level review. The tables and figures provided for discussion are included in the April LTM report. The precipitation data, obtained by Mr. Woods, show actual monthly rainfall totals and long-term and short-term averages; the averages had the highest totals in April-May and December, and the lowest total in August. The actual totals and averages were plotted over time to show the variability. The actual rainfall totals were also plotted with water levels from 21 monitoring wells located throughout DDMT and screened in the fluvial aquifer, IAQ and MAQ. The fluvial wells showed long-term trends in water levels, but no correlation with seasonal or monthly changes in rainfall. In addition the LTM wells show limited range in water levels over time. Based on the review, Mr. Holmes considered the current LTM sample schedule appropriate.

Mr. Woods felt the review was a good summary although it was not what he expected. Ms. Lloyd appreciated the effort to gather and present the data and will review the data when the report is submitted.

OTHER ISSUES

Ms. Hutton noted the Army has made some changes to streamline reports and reduce the number of submittals, but is at a loss for further changes. Recommendations for further streamlining were requested. There were no initial suggestions. Mr. Woods stated the number of reports had been somewhat overwhelming a few years ago and was happy with the current level. Ms. Lloyd stated the intent was appreciated and that she would provide suggestions as appropriate.

Mr. Jones suggested that the Monthly Community Information Line (CIL) Log doesn't serve a purpose and did not need to be distributed since it generally showed that no calls had been received. The team agreed the CIL was helpful in providing a means for community outreach, but generally felt that the submittal log was not necessary unless calls had been received. Ms. Lloyd considered it important for due diligence. It was decided that the monthly log would be kept by HDR and submitted to Ms. Hutton, who will forward it to Ms. Lloyd; other members will be copied only when there is something to report. An annual summary will be provided to all.

Ms. Lloyd asked if she was included in the mailing list for the annual newsletter. Mr. Holmes confirmed that her contact information had been added to the mailing list.

Ms. Hutton noted that EPA had published vapor intrusion guidelines that appeared to provide a sound approach. The Army will be preparing a plan for VI monitoring at the MI; the results are to be available for the Five-Year Review which is to be final in January 2018.

Ms. Hutton stated that Army was updating a review of the off-site plume on the north end of Dunn Field. The review will be provided to the team and will be a topic on the July call.

Ms. Lloyd asked if there was a Community Involvement Plan for DDMT. Mr. Holmes stated that several revisions had been made over the years and that the latest was prepared in 2010 when site responsibility was transferred from DLA to Army. Ms. Hutton agreed to provide a copy.