

SITE REVIEW MEETING MINUTES

FORMER DEFENSE DEPOT MEMPHIS, TENNESSEE

13 June 2013

Location: U.S. EPA Region 4, Atlanta/Conference Call

ATTENDEES:

CALIBRE: BEC - Joan Hutton

TDEC Division of Remediation, DDMT Project Manager: Jamie Woods

U.S. Environmental Protection Agency, Region 4, DDMT Project Manager: Julie Corkran

USACE, Tulsa: Tyler Jones

HDR EOC: Tom Holmes

Mr. Jones and Mr. Woods attended by conference call.

INTRODUCTIONS

Ms. Hutton summarized project roles and responsibilities for Carolyn Jones in the BRAC office, Mr. Tyler, Mr. Holmes and herself. Ms. Corkran noted that she was working to become familiar with DDMT and would identify a hydrogeologist to assist. In the meantime, EPA does not want the work underway to slow-down for their review of previously submitted reports.

Mr. Holmes then discussed the site history and status of restoration activities illustrated with figures from reports submitted or in preparation.

SITE REVIEW

The physical setting and remedial action areas were noted on an aerial photograph. Actions taken prior to the records of decision areas were noted on maps of the Main Installation (MI) and Dunn Field. The sections of DDMT covered by the 6 Findings of Suitability to Transfer (FOSTs) were shown on a map. All of DDMT has been included on one of the FOSTs, and all property has been transferred except for the western and northern portion of Dunn Field (FOST 5).

RESTORATION ACTIVITIES

MAIN INSTALLATION

Additional Enhanced Bioremediation Treatment (EBT) began in November 2012; MI Long Term Monitoring.

Recent Documents:

Annual LTM Report-2012 Rev 0 (Jan13) approved by TDEC 4/5/13.

EBT Injection Summary Report February 2013 (Apr13) submitted to EPA and TDEC 4/30/13.

April 2013 LTM Summary Report site wide report in internal review.

EBT Injections.

Isopleth maps from the RAWP Addendum were reviewed for the distribution of parent CVOCs prior to re-starting EBT: tetrachloroethene (PCE), trichloroethene (TCE), and carbon tetrachloride (CT). The previous round of EBT in 2006-2009 was briefly discussed along with source investigations for the plumes.

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Figures from the February 2013 EBT summary report were reviewed for locations of injection wells (IWs) and performance monitoring wells (PMWs) and groundwater elevations in each of the current treatment areas. EBT is currently conducted with 45 IWs and 13 PMWs, fewer than in the initial EBT from 2006-2009; some former MWs are being used for injections. Monitoring and injections are performed quarterly.

Analytical results from February 2013 were reviewed. Sampling was performed prior to injections so results show effect of the initial injections in November 2012. Results for the May 2013 are being reviewed and a summary report prepared.

MI LTM

The MI LTM well location map was reviewed for distribution of wells and the well classifications. MI LTM includes 97 monitoring wells; 20 former LTM wells being used as IWs or PMWs in EBT were omitted from LTM in 2013 and 5 PMWs omitted from EBT are now included in LTM.

The site hydrogeology was briefly discussed regarding connections between the shallow fluvial aquifer and the intermediate aquifer (IAQ) and the deeper Memphis aquifer (MAQ); the 'window' in the north-central MI provides a connection. The importance of the MAQ as the primary drinking water supply was noted.

Figures showing analytical results for the April 2013 LTM semiannual event (PCE, TCE and CT) were reviewed. Samples were collected from 56 wells. The presence of CVOCs in deeper wells in the northwest portion of the MI was also noted; concentrations have increased, and are above MCLs, in IAQ well MW-256 but remain below MCLs in the two MAQ wells, MW-254 and MW-255, on the MI. The highest CVOC concentration in the two MAQ wells was TCE at 3.13 µg/L in MW-254. Mr. Woods questioned whether that was a maximum seen in that well. [Per historical results in the 2012 annual report: previous TCE concentrations in MW-254 have ranged from 1.8 to 2.63 µg/L since initial sampling in August 2010.] A cross-section through the window showing PCE and TCE results was also reviewed.

The locations for two new fluvial aquifer wells (MW-260 and MW-261) and the rationale for the locations were discussed. Mr. Woods noted he had verbally approved the proposed wells and would provide written approval as well. Mr. Holmes stated that EBT might be considered in the area of MW-260 based on the CVOC concentrations in MW-258 and proximity to the 'window'.

The expected schedule for the MI was discussed. The current schedule calls for LTM through 2015 with a year of compliance monitoring in 2016. It is not clear that the schedule will be met; it is to be reviewed in the annual EBT report to be prepared after the performance monitoring event in November 2013.

DUNN FIELD

AS/SVE operations (Year 4); Dunn Field Long Term Monitoring

Recent Documents:

Fluvial SVE Annual Operations Report Year Five Rev 0 (Sep12) approved by EPA and TDEC
Dec12. FSVE shut down Jul12

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Annual LTM Report-2012 Rev 0 (Jan13) approved by TDEC 4/5/13.

Off Depot AS/SVE System Annual Operations Report, Year Three Rev 0 (Feb13) approved by TDEC 5/15/13.

Off Depot AS/SVE Year 4, 1st Quarter Operations Report (Jun13) submitted to EPA/TDEC 6/4/13.

April 2013 LTM Summary Report site wide report in internal review.

A map of Dunn Field was viewed to note locations for implementation of the selected remedy components.

AS/SVE Operations

The AS/SVE system layout was reviewed and changes made to system operations in 2012 based on LTM results were discussed. A trend plot showing field PID measurements and analytical results for total VOCs and total CVOCs was discussed as was a table showing mass removal of VOCs from groundwater since system startup. LTM results are used as the primary evaluation of AS/SVE system operations.

April 2013 Dunn Field LTM Results

The Fluvial SVE system layout on Dunn Field was reviewed along with locations of LTM wells used to monitor rebound following system shutdown in 2012.

Reduction in total CVOC concentrations since beginning remedial actions for subsurface soils in 2007 was discussed with a figure showing plume maps in 2007, 2009, 2010 and 2011. Maximum groundwater concentrations were reduced from 12,219 µg/L to 364 µg/L.

The Dunn Field LTM well location map was reviewed to see the distribution of wells and the well classifications. Dunn Field LTM includes 86 monitoring wells and all were sampled in the biennial LTM event in April 2013. The draft report for April 2013 LTM on the MI and Dunn Field has been reviewed by Ms. Hutton and Mr. Jones and will be submitted in the next week.

Draft figures with analytical results for total CVOCs, 1,1,2,2 tetrachloroethane (TeCA), TCE and PCE were reviewed. The plume originating on Dunn Field continues to shrink, while the offsite plume coming on to Dunn Field from the northeast has remained stable. The highest total CVOC concentration, away from the northeast plume, was 258 µg/L at MW-159, located upgradient and near the AS/SVE system.

ADMINISTRATIVE AND COMMUNITY RELATIONS ACTIVITIES

Recent Documents:

2013 Site Management Plan Rev 0 (Nov12) approved by EPA and TDEC Jan13.

Third Five-Year Review, signed 1/23/13

The Master Schedule from the 2013 SMP was reviewed. The primary and secondary documents on the schedule were noted. Mr. Holmes stated that there were few primary documents on the schedule other than annual site management plans, remedial action completion reports once remediation goals are met and five year reviews. He also noted that summary reports describing operations and monitoring results are submitted after field events (semiannual LTM, quarterly AS/SVE operations

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and quarterly EBT monitoring/injections). Summary reports are not prepared when an annual report is required.

Ms. Corkran stated that the Fourth Five Year Review at DDMT should be scheduled for completion on 22 January 2018 per EPA requirements.

Annual LUC Inspections will be performed by HDR in July.

OTHER ISSUES

Mr. Woods noted that TDEC's budget for site assessment had been reduced significantly but that determining the source of the off-site northeast plume coming on to Dunn Field remained a priority and that additional investigation would probably be performed in July 2013. The investigation is expected to focus on a closed mechanics shop on Person Avenue and to include passive soil gas detectors and sampling existing TDEC monitoring wells.

Ms. Hutton noted that the Army is interested in transferring the remaining Dunn Field property as soon as feasible and has discussed preparation of a draft deed with the USACE. The draft deed will be provided to EPA for review.

Ms. Corkran stated she needs to update the DDMT information on EPA's NPL website and will provide a draft for review to ensure accuracy.

The possibility of a site visit by Ms. Corkran in Fall 2013 was discussed.