
Department of Environmental Protection acknowledged receipt of the reports on May 2, 2017, via electronic stamp on the transmittal form. Currently, the site is in Temporary Solution status and, therefore, Post-temporary Solution Status and Remedial Monitoring Reports are required to be submitted to the Massachusetts Department of Environmental Protection every six months, by May 2 and November 2 of each year, with evaluations of the Temporary Solution conducted every five years.

Additional details related to Release Tracking Number 3-0518 (comprehensive release history, site assessment, and remedial activities completed) can be found in reports previously submitted to the Massachusetts Department of Environmental Protection, specifically the Phase II Comprehensive Site Assessment (AECOM Technical Services, Inc., 2017b), Phase III Remedial Action Plan (AECOM Technical Services, Inc., 2017c), and Temporary Solution Statement (AECOM Technical Services, Inc., 2017a).

1.2 OBJECTIVE

The objective of this Post-temporary Solution Status Report Number 15 is to document the monitoring activities conducted at the site during the six-month reporting period of May through October 2024, in accordance with the operations, maintenance, and/or monitoring plan detailed in the Temporary Solution Statement submitted to the Massachusetts Department of Environmental Protection in May 2017 and the updated post-temporary solution operation, maintenance, and/or monitoring groundwater monitoring plan in Post-temporary Solution Status Report Number 10 and Periodic Review of the Temporary Solution dated May 4, 2022, as well as in Post-temporary Solution Status Report Number 14 dated May 1, 2024.

1.3 LIST OF CONTACTS

This section identifies the potentially responsible party, the Licensed Site Professional-of-record, and the owner of the site.

Potentially Responsible Party:

Lockheed Martin Corporation
2550 N. Hollywood Way, Suite 406
Burbank, CA 91505-5047
Contact: Ms. Erika Parsons
Phone: (781) 460-3095

Eastern Parking Lot (EPL). The current conceptual site model indicates that the presence of LNAPL in these wells is typically observed during periods of low water levels which apparently allows small amounts of residual LNAPL to weep from petroleum impacted bedrock into the wells. Table 2-1 includes a summary of the historical LNAPL measurements, and Figure 3-1 depicts the reduction of the LNAPL plume onsite from 1992 to the present.

Although the very limited LNAPL plume size has not changed significantly in some time, it continues to generate a dissolved plume of petroleum hydrocarbons as reported in prior status reports. These extractable petroleum hydrocarbon and volatile petroleum hydrocarbon (VPH) fraction concentrations are meaningful indicators of natural source zone depletion. As noted below, long term changes in these concentrations will be monitored in wells adjacent to the LNAPL plume to determine the effect MNA has on the plume.

3.2.2 Change in Conditions Affecting Light Non-Aqueous Phase Liquid Monitored Natural Attenuation

During this reporting period, there have been no changes in conditions affecting LNAPL MNA. As shown on Figures 3-2 through 3-5, detectable LNAPL thicknesses generally coincide with lower water levels. The depths to water measured in monitoring wells during this reporting period are similar to past periods when little to no measurable LNAPL was detected. The depth to groundwater water measured in monitoring wells during this reporting period are an average of 2.16 feet lower than in 2023, and as deep as it has been since 2017 and 2020 in each of the wells gauged.

3.2.3 Verification that the Light Non-Aqueous Phase Liquid Plume is not Expanding

Response actions have previously been performed to assess LNAPL mobility and to meet the requirements of 310 Code of Massachusetts Regulations (CMR) 40.1003(7)(b). Based on the extensive measurement and evaluation of the LNAPL present at the site, it is apparent that the LNAPL is stable, as defined at 310 CMR 40.0006. As shown in Figure 3-1, the LNAPL footprint is not expanding, nor is LNAPL migrating through any subsurface strata or discharging to a surface water body, structure, or utility. The extent of LNAPL has been well defined and measured regularly, with successful product removal via three former recovery wells operating between 1992 and 2002 and through subsequent manual and passive measures from 1999 to present. LNAPL at the site has micro scale mobility, as it continues to be observed in small amounts intermittently in

19 responded “no” that they did not wish to continue receiving notifications and 7 responded “yes” that they would like to continue receiving the mailings. Given the 19 “no” responses combined with the 57 non-responses, this demonstrates dwindling interest and the fact that notification mailings are not necessary as the mailing list has been informed that site related documents are available online on both the MassDEP and Lockheed Martin webpages, and at the PIP repository. Therefore, Lockheed Martin is contemplating following the MCP process to terminate involvement in the joint PIP for this site.

TABLES

- Table 2-1 Summary of Historical LNAPL Gauging and Removal Results 1994 – 2024**
- Table 6-1 Post Temporary Solution Operations, Maintenance, and Monitoring Schedule
2022-2027**

APPENDICES

Appendix A—LNAPL Field Notes, September 2024

Appendix B—Public Notification Documentation, November 2024

**APPENDIX A
LNAPL FIELD RECORD, SEPTEMBER
2024**

**APPENDIX B
PUBLIC NOTIFICATION DOCUMENTATION,
NOVEMBER 2024**