

EXECUTIVE SUMMARY

The Phase II Site Inspection (SI) for Operable Unit 9 (OU 9) North Area was conducted to more clearly delineate the nature and extent of past releases of hazardous constituents to the environment identified during the Phase I sampling program. The objective of this report is to categorize those areas of concern, as described in the *Work Plan Technical Memorandum for Operable Unit 9 North Area*, and to provide recommendations for further investigation and remedial action. These recommendations are preliminary, and may be subject to change as additional information is collected. OU 9 North Area consists of approximately 4,400 acres and occupies about two-thirds of Hill Air Force Base (AFB). OU 9 North Area includes the former Ogden Ordnance Depot, the former Ogden Arsenal, the former Air Force Plant 77, portions of the original Hill Field, the Missile Assembly, Maintenance and Storage area, the current administration complex in the west-central portion of the Base, the main runway and flightline area north of the 388th Fighter Wing, and the area between the eastern Base boundary and the main runway.

The Phase II SI field effort included a cone penetrometer/Hydropunch® sampling program for subsurface lithologies and ground-water sampling, a direct push soil boring program and a surface soil sampling program. The results of the Phase II SI field effort indicate that there are four primary categorizations and recommended further actions. The following is a brief summary of the areas that will be investigated during Phase III and subsequent investigations at OU 9 North Area.

Category 2A-Ground Water. Based on the Phase II investigation, ground water beneath the following areas has been recommended for further investigation and analysis during the upcoming Phase III monitoring well installation program because it contains volatile organic contaminants above current maximum contaminant levels:

- Zone 7, Golf Course Maintenance Area
- Zone 16, Munitions Storage Area
- Zones 11 and 12, Western Base Boundary.

These areas of concern will be carried forward into the Phase III ground-water monitoring well installation to better determine the nature and extent of the ground-water contamination, and to determine the ground water flow direction.

Category 2A-Soil. Based on the Phase II investigation, soil beneath and/or adjacent to the following facilities has been recommended for further investigation and immediate implementation of institutional controls because they contain contaminant concentrations that are above industrial RBALs, however the extent of the contamination is not clear:

- Zone 9, Transformer Storage Yard (PCB)
- Zone 20, Building 2005 (TPH)
- Zone 24, Building 2402 (PCB)
- Zone 24, Building 2403 (PCB).

A screening level investigation should be performed at these areas of concern to determine the lateral and vertical distribution of contaminants in the soil surrounding each facility. After the additional investigation, these sites will be re-categorized, and appropriate corrective actions will be taken. In the interim, institutional controls should be implemented to insulate workers at Hill AFB from contacting the elevated levels of contaminants at these facilities.

Category 2B-Soil. Based on the Phase II investigation results, soil beneath and/or adjacent to the following facilities has been recommended for no further investigation and implementation of institutional controls because the contaminant levels are above residential RBALs, but below industrial RBALs:

- Zone 9, Building 786 (Pesticides)
- Zone 15, Building 1503 (PCB)
- Zone 24, Building 2401 (PCB)
- Zone 24, Building 2405 (PCB)
- Zone 24, Building 2406 (PCB)
- Zone 24, Building 2407 (PCB)
- Zone 24, Building 2408 (PCB)

The contaminant concentrations detected to date at the above facilities do not pose an immediate threat to part-time workers who may visit for routine maintenance. However, institutional controls should be implemented to ensure that workers are aware of the contamination, and that intrusive activities, such as construction, should not be performed in the immediate area without proper controls.

Category 1-Soil. Based on the Phase II investigation, Building 2214 is recommended for an early response action because lead concentrations in the surface soil immediately adjacent to the building are substantially above the industrial RBAL. Samples collected during the Phase I and II investigations confirmed that lead concentrations are consistent across the loading dock area, and the extent to the contamination is fairly well understood.