
EXECUTIVE SUMMARY

Three underground storage tanks were removed at site 40002, Utah test and Training Range (UTTR), an off-base facility operated by Hill Air Force Base (HAFB). The presence of total petroleum hydrocarbon and other petroleum components were detected in the closure samples collected after the removal of the USTs at Site 40002. The contamination was reported to the Division of Environmental Response and Remediation (DERR) and a Reporting and Remediation Schedule for the site was issued to HAFB. The site is not identified by the Utah Department of Environmental Quality as a leaking underground storage tank site.

Petroleum contamination was detected under the dispensing islands just north of the excavation pit; total petroleum hydrocarbon was present at the concentration of 4,300 micrograms per gram (ug/g) The tank pit was excavated to the approximate depth of 12 feet and under the dispensing islands excavation reached approximately eight feet. Soil contamination is still present in the area of the former dispensing islands. The tank pit and the dispensing were filled with clean backfill material and a new above ground storage tank facility and dispensing islands were constructed on top.

The depth to groundwater beneath the site is known to be between 160 feet and 200 feet below the ground surface. Regional surface drainage and inferred groundwater flow direction is east, toward the Great Salt Lake. Shallow groundwater may be present at 15 feet according to the UTTR Civil Engineering staff.

No groundwater wells are present within a radius of 1,400 feet of the site. The nearest surface water is a small un-named surface lake approximately 3.5 miles to the north of the site and the Great Salt Lake approximately 13.5 miles to the east. These water sources should not be impacted by any contamination that may be present beneath the site.

The risk of exposure to the surrounding population or environment is minimal considering the remote location of the site and moderately deep occurrence of groundwater beneath the site.

A subsurface investigation should be performed to define the extent of contamination beneath the site. Six soil borings should be drilled and sampled and one monitoring well installed in the groundwater and sampled to determine soil contamination concentrations and the impact to groundwater beneath site 40002, if any. If groundwater occurs at 15 feet it may be prudent to install up to five shallow wells to better define the extent of the contamination.

Engineering-Science, Inc. was contracted by the Operational Contracting Office, HAFB on behalf of Environmental Management Directorate to prepare this Abatement and Initial Site Characterization Report. Information concerning tank removal activities was obtained from HAFB records. The status of the site is presented in the format established by the DERR and the report presents the information required in that document, Federal rule Title 40 Code of Federal Regulations Part 280 Subpart F, and the Reporting and Remediation Schedule issued for the site.