

**SUMMARY REPORT
1998-2000**

**PASSIVE SOIL VAPOR EXTRACTION
AT OPERABLE UNIT 6, HILL AIR FORCE BASE, UTAH**

November 30, 2001

Wayne C. Downs, Principle Investigator

EXECUTIVE SUMMARY

Passive Soil Vapor Extraction (PSVE) activities have been underway since September 1997 at Operable Unit 6 (OU 6) at Hill Air Force Base (AFB), Utah. This End-of-Project Activity Report summarizes the operation, sampling, and monitoring activities performed during the project.

Four shallow vadose-zone wells were emplaced in the area believed to be the source of groundwater contamination currently being recovered and treated at OU 6. These wells were screened at 5-foot intervals generally between 18 to 23 feet below land surface (bls) and instrumented with PSVE monitoring equipment. An automated data acquisition system recorded measurements of atmospheric pressure and venting flow at 30-minute intervals continuously during the project. Periodic (approximately monthly) samples of soil-gas venting from these wells were analyzed by the Hill AFB laboratory for hydrocarbon (BTEX) and volatile organic compounds (chlorinated solvents).

During 1998 only one well was operated at a time, other wells being capped. During the 169 days of venting activity, a total of 13.78 grams of BTEX and 48.46 grams of chlorinated solvent were vented.

During 1999 a total of 1.98 grams of BTEX and 99.52 grams of chlorinated solvent were vented from four wells operating all year.

During the year 2000, 2.22 grams of BTEX and 108.45 grams of solvent were removed.

For the project, there were 17.98 grams of BTEX and 256.43 grams of solvent were removed.

These summary data show that over the course of the demonstration the mass of BTEX removed dropped significantly, while the mass of solvent removed increased each year.