

# TAG'S POWER EQUIPMENT



**Project Size:**  
+\$600,000  
**Project Service Dates:**  
December 1998 - July 2010  
**Project Location:**  
Holbrook, Arizona



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## Project Description:

This turn-key design/build project required (1) leaking underground storage tank (UST) release confirmation; (2) site characterization sampling plan preparation; (3) site characterization & remedial investigation; (4) remedial engineering design and excavation of a +2500 yd<sup>3</sup> hydrocarbon soil contaminant plume; (5) design and installation of a full-scale air sparge (AS) / soil vapor extraction (SVE) system using thermal and catalytic (therm-cat) off-gas treatment; and (6) operation & maintenance of a 250-scfm AS/SVE therm-cat system to treat residual capillary fringe and groundwater contamination.

Completed under direct supervision and cost control of the Arizona Department of Environmental Quality, this motor vehicle fueling station remediation project required the integration of ex-situ remedial solutions using soil excavation and disposal, and in-situ remedial solutions using air sparge / soil vapor extraction to holistically address soil and groundwater contamination at the historic Route 66 Brownfield site.

Project work tasks included:

- leaking UST release confirmation & reporting;
- site characterization sampling plan design & preparation;
- site characterization & remedial investigation;
- site characterization report preparation;
- groundwater monitoring & reporting;
- soil boring installation & sample collection;
- monitor well, SVE well, and air sparge well design & installation;
- contaminated soil excavation & disposal;
- remedial excavation backfill, compaction, and resurfacing;
- management and disposal of investigative derived waste and construction debris;
- in-situ remedial infrastructure design & installation;
- AS/SVE remedial system design & operation;
- thermal & catalytic oxidation off-gas treatment;
- remedial progress reporting;
- management of state assurance fund cost recovery.

