



U.S. Environmental Protection Agency

Region 9: Charnock MTBE Cleanup

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Charnock MTBE Cleanup

Work is underway to clean up groundwater polluted with the gasoline additive MTBE in Southern California's Charnock Sub-Basin. Responsible parties are paying over \$3 million per year to provide replacement water to Santa Monica and Culver City residents.



The Charnock groundwater sub-basin is located in [Southern California](#) PUBLIC RECORD within the communities of West Los Angeles and Culver City ([Site Location Map](#) PUBLIC RECORD, 111 KB PDF) and is an important source of drinking water for the cities of Santa Monica and Culver City. The City of Santa Monica sought assistance from EPA after shutting down a number of its drinking water wells in 1996 due to the presence of increasing levels of the gasoline additive Methyl tert Butyl Ether (MTBE). Affected residents of Santa Monica and Culver City are currently receiving replacement water.

The Charnock Project involves the investigation and cleanup of MTBE and other gasoline-related pollution in areas affecting water quality in the Charnock Sub-basin (see map listed in the Table of Contents below) and the restoration of this sub-basin for use as a drinking water supply.



SOIL-THERM Model 2010-LR
Location: Sepulveda & Venice



SOIL-THERM Model 2010-LR (1000 scfm)
Location: Sepulveda & Palms



SOIL-THERM
EQUIPMENT, INC.

MTBE Cleanup Equipment

SOIL-THERM EQUIPMENT, INC has designed & built two multi-blower SVE thermal systems currently installed at two former gasoline stations in the vicinity of Charnock in West Los Angeles, CA. These systems operate continuously and draw vapor and liquid for destruction of VOC's, with one system operating in catalytic mode and the other in thermal mode.

Sepulveda & Venice This system has been installed within the former service bay at an operating gasoline station. Equipment features 2-high vacuum blowers (60 hp @ 1000 acfm and 40 hp @ 750 acfm) with catalyst, heat exchanger, and advanced electrical controls.

System #2: A powerful two blower (both 60 hp @ 1000 acfm) SVE thermal system for higher VOC & MTBE concentration removal and destruction. This system has demonstrated destruction efficiencies of >99.9998% for Benzene and >99.99% for MTBE, and greater than 100 pounds per hour VOC's destroyed.



SOIL-THERM Model 2010-LR THERMAL OXIDIZER PERFORMANCE

- Benzene Destruction: >99.999% (non-detect)
- MTBE Destruction: >99.99% (non-detect at stack)
- Total VOC's: >99.9% (non-detect at stack)



**SOIL-THERM
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More Information: <http://www.epa.gov/region09/charnock/>