

Research Projects

Processes Affecting the Natural Attenuation of Gasoline in Ground Water -- Galloway Township, New Jersey [Completed]

Gasoline spills from leaking underground storage tanks is the most common mechanism of subsurface point source contamination. Nationwide, leaking underground petroleum storage tanks threaten shallow ground-water supplies and allow gasoline vapors to move into underground structures. A representative regular gasoline spill from a leaking underground storage tank in Galloway, New Jersey, has been the focus of Toxics Program research on regular gasoline. A shallow sand aquifer at the site has been contaminated. Investigators have developed methods to determine the rate at which gasoline degrades to less toxic compounds in the subsurface and to simulate the movement of gasoline vapors in soil using computer models developed specifically for that purpose. These methods are used to evaluate the potential for the natural attenuation and to design remedial strategies for gasoline in the subsurface.

Related Science Feature Articles

- USGS Scientists Contribute to the Landmark "Treatise on Geochemistry"
- Toxics Program Scientist Selected as 2003 USGS Engineer of the Year
- How do you Clean Up Gasoline Spills Naturally?
- <u>Relying on Nature to Clean Up Contaminated Ground Water</u>

More Information

- Project Bibliography
- Project Photo Gallery

Project Remediation Related Activities

- Vapor Extraction Optimization
- Quanitfying Natural Attenuation at the Plume Scale

Related Investigations

- Processes Affecting the Natural Attenuation of Fuel Oxygenates in Ground Water -- <u>Laurel Bay, South Carolina</u> [Completed]
- Crude Oil Contamination in the Shallow Subsurface -- Bemidji, Minnesota
- Environmental Impacts Associated with Disposal of Saline Water Produced During Petroleum Production <u>Osage-Skiatook Petroleum Environmental Research Project, Oklahoma</u> [Completed]

Back to Investigations Page

Back to Petroleum Related Contamination Research Projects

Back to Subsurface Point-Source Contamination Investigations

USGS Home V	Water	Climate Change	Science Systems	Ecosystems	Energy and Minerals	Environmental H	lealth Haz	zards

U.S. Department of the Interior | U.S. Geological Survey URL: toxics.usgs.gov/sites/gall_page.html Page Contact Information: <u>Webmaster</u> Page Last Modified: Monday, 27-Jun-2016 07:21:23 EDT



Project Bibliography 56 Publications Project Photo Gallery Toxics Home

About The Program

GeoHealth Newsletter

Science Features

News Releases

Investigations

Publications

Search the Bibliography Browse the Bibliography New Pubs

Photo Gallery Site Map