



GHD Site

Thin-Walled Sampler

Summary

Media:	LNAPL in soil
Study Type:	Other
Technology:	Thin-walled soil sampler (grab)
Peer Reviewed:	No
Publication Date:	Unpublished

Study Description

- Site: Historical diesel releases at a railyard fueling facility in Arkansas.
- Contaminants of concern: Light non-aqueous phase liquid (LNAPL) (diesel)
- Sampling frequency of contaminants of concern: One time
- Technology used: Thin-walled sampler

Remedial Phase

Thin-walled samplers were used in mobility assessment of LNAPL to provide evidence in support of the risk management of LNAPL in place as an appropriate and effective remedy for the site.

Outcome

The LNAPL saturation and residual saturation (via water drive testing) results indicated that no LNAPL was produced during any of the water drive testing. This indicated that the LNAPL at the tested locations was at or below residual saturation, or effectively immobile.

Case Study Source

GHD unpublished source.

References

- API (American Petroleum Institute). 2001. Methods for Determining Inputs to Environmental Petroleum Hydrocarbon Mobility and Recovery Models, Publication Number 4711, July 2001.
- API (American Petroleum Institute). 2002. Evaluating Hydrocarbon Removal from Source Zones and Its Effect on Dissolved Plume Longevity and Magnitude. Regulatory Analysis and Scientific Affairs Department, Publication Number 4715, September.
- API (American Petroleum Institute). 2004. API Interactive LNAPL Guide, Version 2.0. American Petroleum Institute, Washington, DC, August 2004.
- ASTM (ASTM International). 2007. E 2531 06: Standard Guide for Development of Conceptual Site Models and Remediation Strategies for Light Nonaqueous Phase Liquids Released to the Subsurface. ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action, ASTM International, West Conshohocken, PA, February.
- ITRC (Interstate Technology & Regulatory Council). 2018. LNAPL Site Management: LCSM Evolution, Decision Process, and Remedial Technologies, LNAPL. Washington, D.C.: Interstate Technology & Regulatory Council. LNAPL Update Team.