

Ground Water, Surface Water, and Leachate

Sprinkler Irrigation

Introduction:

This technology entails the pressurised distribution of VOC contaminated water through a sprinkler irrigation system.

Description:

Sprinkler irrigation is a basic treatment process designed to volatilise VOCs from contaminated water. It transfers VOCs from the dissolved aqueous phase to the vapour phase, where VOCs are released to the atmosphere. Subsequent capture and containment may be required.

Applicability:

Sprinkler irrigation is applicable for any contaminant that easily transfers from the dissolved phase to the vapour phase (VOCs).

Limitations:

- Regulatory approval may be difficult to obtain because of the potential of direct release for contaminants to the atmosphere.
- Ponding of wastewater may result from heavy irrigation.
- Metal contaminated wastewater can't be treated.
- Performance may be affected by temperature.
- As CAA requirements become stricter, this technology may become obsolete.

Data Needs:

Standard sample characterisation is required.

Cost:

Not currently known.