Fuel Product Terminal Site Assessment & Remediation

Following the identification of a fuel release by the client whilst conducting a site-wide Groundwater Monitoring Event (GME), Kleinfelder was engaged to investigate the contaminated area and direct the emergency response work.

PROJECT RESULTS

Kleinfelder's rapid response limited migration of the fuel release to within three meters of the release location.
An Extent Assessment Report (EAR) was prepared for the Queensland Department of the Environment and Science. In the report Kleinfelder detailed the fuel recovery work, findings of the soil bore and groundwater investigation, and the extent of impacts from the fuel release. A conceptual site model of the release area was also included. Following submission of the EAR, government oversight of the project was ended within six months of the release.

EMERGENCY RESPONSE REQUIRED

Closer inspection of the site revealed that a conduit and fuel line supplying a diesel-powered fire pump had failed, causing a release of fuel into the ground adjacent to a major river and shipping berth. The emergency response nature of the project presented several challenges that Kleinfelder had to manage including identifying suitable contractors to carry out the work at short notice, organising necessary inductions for all site personnel, and liaising with key stakeholders (including the environmental regulator, Queensland Department of the Environment and Science).

IDENTIFYNG EXACT LOCATION OF THE FAILED FUEL LINE

Kleinfelder began by installing a recovery trench adjacent to the source of contamination a camera survey to identify the exact location of the failed fuel line and to determine where recovery wells were to be installed. Soil bores were used to define the extent of the impact from the release and then converted into groundwater monitoring wells. Fingerprint analysis of product recovered from the trench and wells was used to determine the age of the fuel.

Location:
Queensland

Owner:
Major Oil Company

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