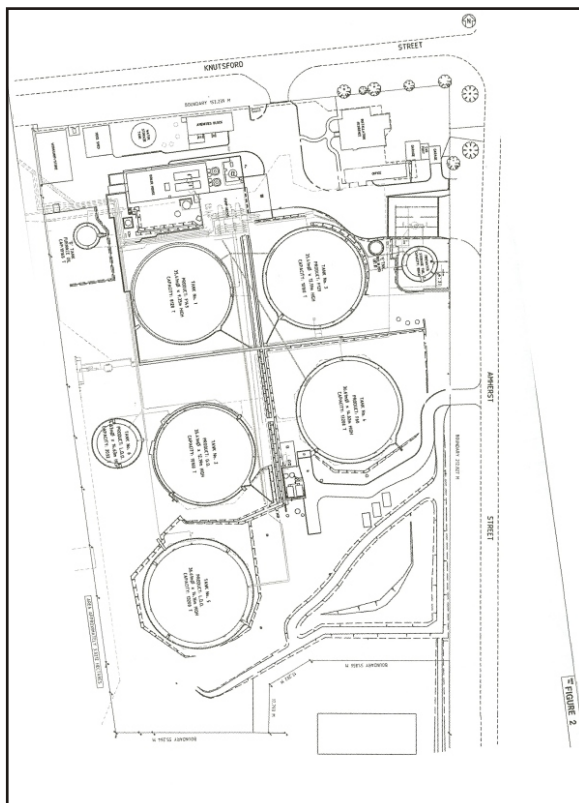


CONTAMINATED SITES AUDIT, Former Fuel Bunkering Terminal, Fremantle



A Contaminated Sites Audit (CSA) was undertaken on behalf of the site owner, of a former marine fuel bunkering terminal. The Site had been leased since 1921 to various oil companies, who had operated a storage terminal for marine fuels in large capacity above ground storage tanks (ASTs), storing light diesel and bunkering oils. As a condition of the lease, the site was to be returned to the owner in a condition suitable for residential development.

The former site operator undertook demolition works during 2005. Investigation and remedial works occurred between January and October 2005.

The audit reviewed completed reports for the Stage 1 (PSI), Stage 2 (DSI), Stage 3 (SMP) and Stage 4 (RVoM) work undertaken by the former operator. Investigation works included soil and groundwater monitoring bores.

Hydrocarbon impacted soils above applicable guidelines for residential development were identified at various locations at former tank footprints, pipeline corridors and Anpress unit. Groundwater was impacted by Phase Separated Hydrocarbons (PSH) and dissolved phase hydrocarbons present in both on-site and offsite bores.

A Site Management Plan involved the removal of impacted soils above guideline levels to depths in excess of 2mBGL for off-site disposal and replacement with clean fill. Unsuccessful attempts were made to recover PSH from the water table. A long term management plan via Monitored Natural Attenuation (MNA) was proposed.

Due to identified shortcomings in the remedial works undertaken, the site was classified as 'Contaminated - Remediation required'.

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