



Our Services

Contaminated Site Management



At Pattle Delamore Partners Ltd, we specialise in contaminated site management where chemicals have spilled into the ground, such as at gasworks, petroleum storage, timber treatment and chemical processing sites. We assess the sites and provide best practical solutions.

Contaminated site services that we provide include:

- Phase 1 audit (desk top study) for contamination
- Phase 2 site investigation of air, soil and water conditions
- Environmental risk assessment
- Assessment of environmental effects
- Design, construction and supervision of remedial works (e.g. excavation, land farming, pumping and treating of groundwater)
- Resource consent application
- Monitoring of air and water
- Training programmes on the management of contaminated sites
- Provision of expert evidence for hearings
- Investigation and design of remedial works for sites with contaminated soil and groundwater, including: gasworks, timber treatment plants, petroleum storage facilities, landfills, metal smelters, agricultural chemical stores, chemical processing sites and horticultural sites

Typical PDP projects:

- Specialised remedial works: detailed engineering design and construction management of HDPE liner and gas venting system beneath industrial warehouse to prevent vinyl chloride gas from contaminated groundwater entering the building.
- Providing advice to regional health officers and local and regional council staff.
- Development of national guidelines for contaminated site management for New Zealand government.
- Soil and groundwater sampling, human and ecological risk assessment for an industrial site which used chlorinated solvents and a variety of other chemicals as part of their manufacturing process.
- Design and implementation of air quality monitoring programme for petrochemical discharge from a service station to a residential receptor.
- Fate and Transport computer modelling of volatile organic compounds in groundwater and indoor air for human health risk assessment.
- Investigation of BTEX, TPH, PAH, and lead in soil, water and air at petrol stations, refuelling depots and bulk storage facilities. Design and construction of remedial measures such as pump and treat, vacuum enhancement, interception trenches, air sparging, land farming, biopiles, and dig and haul.

Contact us for more information on our contaminated site services or to discuss how we can help you with your project.

www.pdp.co.nz

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