

Contaminated Land Capabilities



HYDROSOLUTIONS
PTY LTD
Hydrogeological & Environmental Consultants

Western Australia's independent groundwater & environmental consultancy, with a proven track record in groundwater, surface water, environment, risk assessment, contaminated land management & auditing. We combine reliable expertise with regulatory knowledge, delivering high-quality output on time & on budget.



SITE INVESTIGATION

Our team is highly specialised in geology, hydrogeology and environmental science and offer technical expertise in all aspects of contaminated land investigations, such as:

- ◆ Desk assessments, Preliminary Site Investigations (PSI) and Sampling Analysis and Quality Plans (SAQP)
- ◆ Design and supervision of drilling programs and bore construction
- ◆ Detailed Site Investigations (DSI) for soil, sediment and groundwater
- ◆ Groundwater/surface water levels, flow and chemistry
- ◆ Soil vapour assessments
- ◆ Landfill waste characterisation, landfill gas potential (LFG) and geotechnical properties
- ◆ Dust/air quality monitoring
- ◆ Monitoring programs, Site Management Plans (SMP), Groundwater Operating Strategies
- ◆ Risk Assessment for Human Health (HRA) and Ecological (ERA), Conceptual Site Models (CSM)
- ◆ Fate & transport modelling
- ◆ Remediation and Validation, RVoM reporting
- ◆ All reporting for regulatory bodies, Department of Environmental Regulation, WA Planning Commission, local governments

ACID SULFATE SOILS

- ◆ Desk studies/risk assessment
- ◆ Department of Environmental Regulation ASS risk maps
- ◆ ASS investigations: soil, groundwater, sediment sampling, field testing
- ◆ Laboratory analysis
- ◆ Acid Sulfate Soils Management Plans (ASSMP)
- ◆ Dewatering modelling & management plans



CONTAMINATED SITES AUDITING

Our team includes the first Western Australian Accredited Contaminated Sites Auditor, and are qualified to ensure your projects satisfy the environmental requirements of the regulators and statutory bodies. We are uniquely qualified & experienced to assist clients & consultants with:

- ◆ Contaminated Sites Auditor (WA based)
- ◆ Liability assessments
- ◆ Public/Consultative Environmental Reviews
- ◆ Environmental impact assessment
- ◆ Pre-acquisition assessment
- ◆ All regulatory & legislative compliance
- ◆ Works approvals & Notices of Intent

Our past audits include:

- ◆ BHP Billiton: audit of Pilbara Iron operations
- ◆ Commonwealth Dept of Defence: consite audit, NAVCOMMSTA Harold Holt
- ◆ Department of Housing: Quattro residential development
- ◆ Fonterra Australia: consite audit of dairy operations
- ◆ FQM Australian Nickel: audit of groundwater monitoring requirements



ASBESTOS

- ◆ Investigation, sampling & licensed disposal
- ◆ Laboratory analysis of ACM & fibres
- ◆ Remediation in compliance with DoH (2009) & NEPM (2013 amendment) guidelines



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