



PETROLEUM

Capability Statement





Your Trusted Partner for Petroleum Environmental Services

The Talis Environmental Team provides comprehensive contaminated land, risk assessment, remediation, and auditing and compliance services to the petroleum industry across Australia.

With a track record in supporting both midstream and downstream petroleum infrastructure, we partner with asset owners, operators, developers, and regulators to identify, assess, and manage environmental risks associated with legacy contamination and ongoing petroleum operations.

Our team comprises experienced environmental scientists, hydro-geologists, engineers, and auditors with technical expertise and regulatory insight.

We have provided services nationwide across:

- Pipelines and transfer stations
- Fuel storage and distribution facilities
- Bulk fuel terminals and depots
- Service stations and truck stops

1 UNPARALLELED EXPERTISE

We deliver comprehensive petroleum contamination assessments, remediation strategies, and compliance solutions with proven success across diverse sites.

2 TAILORED TO YOUR NEEDS

Site-specific strategies for petroleum contamination management, designed to meet your unique operational and regulatory requirements.

3 COMPLIANCE DRIVEN

Our expertise covers permitting processes, regulatory submissions, and ongoing compliance monitoring to keep projects legally sound and operationally efficient.



Our Petroleum Environmental Services

Every petroleum project carries environmental responsibility. From initial site investigations to remediation closure, we deliver tailored solutions that protect both your operations and the environment. Our end-to-end services integrate stakeholder expectations, commercial realities, and environmental best practice.

Our areas of specialisation include:

Site Investigation & Contaminated Land Assessment

- Preliminary and Detailed Site Investigations (PSI/DSI) in line with NEPM (2013) guidelines, including detailed CSM development and tiered risk assessments.
- Comprehensive soil, groundwater, vapour, and sediment sampling using accredited methodologies.
- Remediation Action Plans (RAPs) tailored to site-specific conditions and stakeholder objectives, including validation and close-out reporting.

Risk Assessment & Management

- Quantitative and qualitative human health and ecological risk assessments (HERA/ERA) for petroleum-impacted media.
- Vapour intrusion modelling and indoor air risk assessments.
- Development of risk-based site management frameworks including exposure mitigation, institutional controls, and land use planning advice.

Compliance Auditing & Due Diligence

- Environmental audits and site reviews for mergers, acquisitions, divestments, and regulatory enforcement responses.
- Regulatory compliance assessments addressing state-specific environmental legislation, licensing, and lease handover obligations.
- Fuel system risk assessments based on AS1940, AS4897 and state UPSS guidelines, supported by asset integrity reviews and leak history investigations

Remediation Design & Monitoring

- Design and implementation of in-situ and ex-situ remediation technologies including soil vapour extraction (SVE), chemical oxidation, and bioremediation.
- Long-term and compliance groundwater monitoring programs, with trend analysis, data visualisation, and adaptive monitoring protocols.
- Remediation system performance verification including rebound assessment, Operations and Maintenance (O&M) optimisation, and exit strategy planning

Service Station Specific Services

- Decommissioning, validation, and reporting for underground petroleum storage systems (UPSS), including soil vapour and groundwater assessments.
- Investigation of suspected or confirmed fuel losses using historical usage data, leak detection analytics, and forensic hydrocarbon analysis.
- Environmental and compliance support during construction, refurbishment, or rebranding of operational service station sites.
- Portfolio compliance audits across state jurisdictions including assessment of bunding, spill response, and infrastructure integrity.
- Risk-based management planning for legacy and active sites with known or suspected contamination.

Stakeholder Engagement & Regulatory Liaison

- Preparation and delivery of community and stakeholder engagement plans aligned with best practice guidance.
- Preparation of regulatory submissions, compliance reports, and responses to notices for EPA and other regulatory agencies
- Liaison with local councils, state EPAs, and Commonwealth regulators to expedite approvals and build trusted relationships.

Environmental Solutions Backed by Petroleum Industry Experience

Our Team of Environmental Specialists



DARRELL NEWTON

Investigations Team Lead (East Coast)

Darrell has over 25 years' experience in the environmental investigation industry. He has managed and delivered complex projects in both Australia and the UK, specialising in contaminated land investigations and remediation of soil and groundwater.

Key Petroleum Projects:

- Shell (NSW) – Investigation, remediation, and validation for a former service station involving in-situ remediation of impacted groundwater and on-going groundwater monitoring
- Exxon Mobil (NSW) - Ex-situ remediation of lead leachable impacted soils via chemical fixation for a former service station
- Exxon Mobil (UK) – Investigation, remediation, and validation of over 20 former service station sites across the UK as part of an Exxon Mobil closed service station decommissioning program



GEORGE KING

Investigations Team Lead (West Coast)

George is an environmental professional with over 24 years' experience, specialising in contaminated land management. He has delivered numerous investigation projects across sectors such as waste, power, mining, and marine. He also maintains strong relationships with regulators, government agencies, and industry leaders.

Key Petroleum Projects:

- Puma/Chevron (PNG) - Due diligence assessment prior to acquisition of petroleum industry assets (refining, storage & distribution)
- BP (WA) - Project Director of an environmental monitoring program contract at a refinery and fuel storage facility in Kwinana
- Puma Energy (QLD & WA) - Due diligence of over 50 service station and bulk fuel storage facilities
- Caltex (Ampol) (Multiple Sites, WA) - Investigation and remediation of WA portfolio of petroleum retail sites in conjunction with contaminated sites accredited auditors
- Akzo Nobel Pty Ltd (WA) - Soil vapour investigation for a closure program of a former paint manufacturing facility for proposed future residential land use

Our Team of Environmental Specialists



MICHAEL TICKLE

Principal Environmental Consultant

Michael has over 15 years' experience in contaminated sites and environmental consultancy. He navigates regulatory site-classification processes and develops strategies for clients to manage environmental liabilities associated with their site or portfolio.

Key Projects:

- Shell Global Environmental Services Strategy Contract (WA) - Soil & groundwater investigation, remediation & monitoring of bulk fuel terminals, fuel depots & service stations
- Gull Petroleum (WA) - Development & implementation of sampling and analysis plans to investigate & manage groundwater hydrocarbon plumes & in-situ soil contamination
- Caltex (WA) - Development of Remediation Action Plans and undertaking remedial activities
- Sanzone Retail Group (WA) - Environmental/contamination investigations across 10+ retail service station sites
- Ausfuel/Puma Energy (WA) - Responsible for progressing a portfolio of 20+ assets towards their remedial and site classification targets



Our Team of Environmental Specialists



MIA BURKETT

Senior Environmental Consultant

Mia brings 28 years' experience across state government, private consultancy, and the petroleum sector. She specialises in managing contaminated site assessment and remediation projects and is killed in development & implementation of project safety systems.

Key Petroleum Projects:

- BP (WA) - Investigation and remediation projects at BP retail, depot, commercial, terminal, and Air BP sites across WA in accordance with DWER requirements and guidelines
- BP (WA) - Managed and supervised all facets of decommissioning of BP Retail sites
- BP (WA) - Issued safety permits under BP's Permit to Work system and prepared project health and safety plans
- BP (WA) - Liaised with stakeholders including government agencies, other oil companies, and the local community impacted by BP's operations



MIGUEL ANGEL ZAVALETA-ROMERO

Site Contamination Specialist

Miguel brings over 40 years of experience in environmental site assessment, contamination analysis, and compliance. He is a CEnvP Site Contamination Specialist recognised by Queensland EPA's former Chief Scientific Advisors for managing complex petroleum sites.

Key Projects:

- Contributed to planning, remediation, and peer review of 250 contaminated sites across QLD, NSW, and NT
- Assessed and submitted numerous site investigation and validation reports to administering authorities in QLD and NSW for statutory decisions
- Worked as a project and process engineer of a petroleum terminal, leading tetraethyl lead (TEL)-contaminated soil investigations with support from Ethyl Corporation
- Delivered training on hazardous ground gases investigation/assessment, chlorinated solvents, and asbestos investigations



Our National Footprint

25+ Consultants

Specialising in approvals, compliance, and investigations.

+300 Investigation Projects Delivered

Successfully completed environmental investigation projects across the nation.

Multiple Auditing Projects Accomplished

Successfully completed audits, ensuring compliance across various sectors.

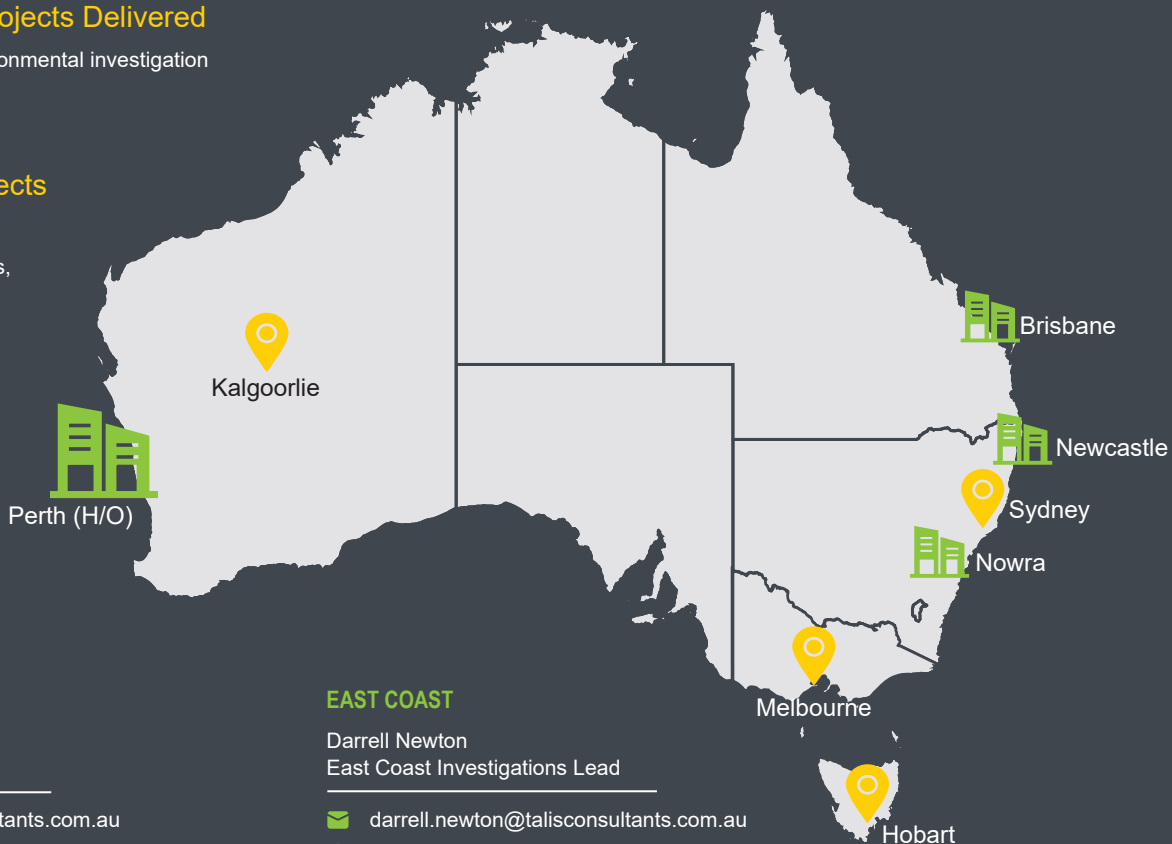
LEGEND



Offices



Operating Bases



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Environment
Institute of
Australia and
New Zealand



IPWEA

INSTITUTE OF PUBLIC WORKS
ENGINEERING AUSTRALIA

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NOWRA

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Hamilton NSW 2303

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OPERATING BASES

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