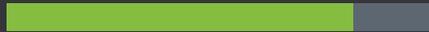




SKILLSETS

Contaminated Land & Remediation



Groundwater



Acid Sulfate Soil



MARKET SECTORS



Construction



Property



Industrial



Government



Resource



Waste Management

CONTACT

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Tamara Ashford

Associate Environmental Scientist

Tamara has 12 years' experience as an environmental consultant in the contaminated land industry. She has strong field, report writing and project management skills across a range of project types including contaminated land, groundwater, landfill, acid sulfate soil, remediation, risk assessment and audits. Tamara has experience in multiple jurisdictions including Queensland, NSW and Victoria.

Tamara is a dedicated team member committed to the delivery of the highest quality work through expert technical ability and science led approaches.

QUALIFICATIONS

2009 University of Queensland / Bachelor of Environmental Science (Honours)

2020 Melbourne Business School / Master of Business Administration

MAJOR PROJECTS

- Lead author – Tamara was the lead author of risk assessment for PFAS in soil to support a residential estate development. The risk assessment required a comprehensive understanding of the conceptual site model and considered several potential pathways, including home-grown produce and eggs.
- Project Manager – Tamara project managed a site investigation in Doncaster, Vic prior to development of a former service station site for commercial and residential purposes. The project spanned a number of phases to address multiple legacy issues at the site including preparation of a groundwater quality management plan (GQMP) and groundwater assessment to support cessation of monitoring, investigation to assess the presence of asbestos, underground storage tanks, waste classification to support offsite disposal and soil vapour risk assessment.
- Project Manager – Tamara project managed a coastal acid sulfate soil investigation in Somerville, Vic. Conducted soil and groundwater sampling and interpreted acid sulfate soil results and groundwater chemical and physical data. Integrated data to develop conceptual site model to assess risk of sulfides to the proposed marina development. Tamara also assisted in preparation of expert witness statement for VCAT hearing.
- Project Manager – Tamara project managed the assessment of a former industrial site in South Kingsville, Vic under Audit. The main contaminants included chlorinated hydrocarbon plume in groundwater extending off-site. Phases of work spanned soil, groundwater and two-stage vapour investigation.
- Project Manager – Tamara project managed the bioremediation of tar impacted soil at a former gasworks site in Cootamundra, NSW. Tamara also delivered groundwater monitoring and management post remediation.

AFFILIATIONS

- Certified Professional Soil Scientist (CPSS)
- Member, Soil Science Australia
- Member, Australian Contaminated Land Consultants Association (ACLCA)

EXPERIENCE

CONTAMINATED LAND INVESTIGATIONS

- **Project manager, former industrial site, Toowoomba, Qld.** Tamara project managed an investigation of a former industrial site involving offsite soil disposal and site remediation in order to remove the site from the EMR.
- **Project manager, former service station, Inverell, NSW.** Tamara undertook an investigation of a former service station including soil and groundwater sampling, interpretation of results and preparation of a report to comply with NSW legislation requirements.
- **Project manager, service station, Toowoomba, Qld.** Tamara project managed a preliminary site investigation comprising desktop and site history review and site inspection for of an operating service station for due diligence purposes.
- **Project manager, railway yards, Toowoomba, Qld.** Tamara project managed a detailed site investigation of a railway site including a soil investigation, groundwater bore installation and sampling.
- **Author, EIS, Cootamundra, NSW.** Tamara prepared an environmental impact statement (EIS) for the development of a soil treatment facility demonstrating an understanding of legislation and approvals required.
- **Project manager, industrial site, Alice Springs, NT.** Tamara project managed a due diligence assessment of an industrial site to provide an understanding of risks associated with contaminated land prior to acquisition of the land.
- **Field support, Council depot, Mackay, Qld.** Tamara undertook soil investigation and validation sampling of a former Council depot under remediation.
- **Project manager, childcare centres, multiple sites, Vic.** Tamara has project managed numerous preliminary soil assessments for childcare centres in suburbs around Melbourne, in accordance with the Department of Education and Early Childhood Development.
- **Project manager, industrial site, South Kingsville, Vic.** Tamara project managed a detailed site investigation, comprising multiple stages of soil, groundwater, and vapour assessment of a former industrial site under Environmental Audit, with chlorinated hydrocarbon impact.
- **Lead author and field manager, brickworks, multiple sites Vic, NSW and SA.** Tamara was part of a national team completing preliminary and targeted site investigations at 13 brickworks sites for due diligence purposes, under a tight timeframe. Tamara was the lead field and report author for four of those sites located in Vic, NSW and SA.
- **Project manager, former service station, Pascoe Vale, Vic.** Tamara project managed a soil and groundwater assessment of a site adjacent to a former service station.
- **Project manager, property divestment, multiple sites, Vic.** Tamara project managed several soil investigations around Melbourne (Moorabbin, Bayswater North, Dandenong, Mordialloc, Norlane, Pascoe Vale South) for due diligence purposes to assist in property transactions including sale and lease of land.
- **Project manager, sawmill, Diggers Rest, Vic.** Tamara project managed a waste characterisation of uncontrolled imported fill to support the client in response to a pollution abatement notice.
- **Project manager, industrial site, Brunswick, Vic.** Tamara project managed a detailed site investigation at former industrial site.
- **Project manager, service stations, Kyneton, Tally Ho, Ballarat, Strathdale, and Doncaster, Vic.** Tamara has project managed several detailed site investigations comprising soil, groundwater, and soil vapour monitoring at both active and inactive service stations for a major petroleum company.
- **Project manager, service stations, multiple sites, Vic.** Tamara project managed an annual groundwater monitoring program across 11 sites in Victoria for a major petroleum company. Tamara successfully managed multiple deliverables and was responsible for executing and documenting strict health and safety protocols.
- **Project manager, metal recycling, Ringwood, Vic.** Tamara project managed an investigation for a site formerly leased by a metal recycling company. The assessment comprised soil and groundwater sampling targeting several areas of potential concern, including bore installation targeting the regional groundwater as well as a perched water table at the site.
- **Field support, service station, Charlton, Qld.** Tamara undertook a groundwater bore installation program at a new service station site to establish baseline groundwater quality.
- **Project manager, former defence, Maidstone, Vic.** Tamara project managed preliminary and detailed site investigations at a former pyrotechnics manufacture site including assessment of arsenic leachability to determine health and ecological risks.
- **Project manager, illegal dumping, Werribee, Vic.** Tamara project managed a soil and waste classification and the preparation of a remediation feasibility options assessment to support local Council in managing historically illegally dumped material along a sensitive ecosystem.

- **Project manager, infrastructure, Rosebud, Vic.** Tamara project managed a soil assessment of a 6 ha linear site along a major water pipeline corridor to support divestment decisions by the water authority.
- **Field support, defence, Katherine, NT.** Tamara undertook soil and groundwater sampling for PFAS at an active air force base.
- **Project manager, former service station, Doncaster, Vic.** Tamara project managed multiple stages of investigation including soil classification, asbestos assessment, UST investigation, vapour intrusion assessment and preparation of a groundwater quality management plan (GQMP) to support development of a former service station site for commercial development.

HEALTH AND ENVIRONMENTAL RISK ASSESSMENT

- **Lead author, residential subdivision, Werribee, Victoria.** Tamara was the lead author for a health and ecological risk assessment of PFAS in soil originating from a former incinerator. The assessment considered a range of land use settings, including residential with potential for home grown produce.
- **Project Manager, former gasworks, Cootamundra, Victoria.** Tamara prepared a vapour intrusion risk assessment of a former gasworks site considering residual tar impact in soil and groundwater. The outcome of the risk assessment facilitated use of the remediated site for community recreational purposes.
- **Project Manager, former industrial site, Flemington and Box Hill, Victoria.** Tamara prepared health and ecological risk assessments for metals and BaP in soil at Council owned parks.
- **Project Manager, former service station, Doncaster, Victoria.** Tamara prepared a soil vapour risk assessment for hydrocarbon chemicals at a former service station site, prior to development of a commercial property with basement carpark.
- **Project Manager, former industrial site, Port Melbourne, Victoria.** Tamara prepared a vapour intrusion risk assessment for chlorinated solvents for a multi-storey residential development.

LANDFILL INVESTIGATIONS

- **Project Manager, operating landfills, Inverell and Walcha, NSW.** Tamara project managed and carried out field and reporting tasks for quarterly groundwater monitoring at operational landfills in northern NSW.
- **Project Manager, operating and closed landfills, Logan Shire and Scenic Rim Shire, Queensland.** Tamara project managed and carried out field and reporting tasks for quarterly groundwater and gas monitoring at several operational and closed landfills.
- **Project Manager, coal mine, Hazelwood, Victoria.** Tamara reviewed and reported on long term hydrogeological data of overburden dump at mine site as part of annual monitoring requirements. The project included an annual presentation to local stakeholders.
- **Project Manager, development sites, various sites, Victoria.** Tamara carried out preliminary landfill gas risk assessments at multiple sites in northern and western suburbs of Melbourne. The objectives were to assess the potential gas risk from former landfills in the area and assist the clients in meeting planning permit conditions.
- **Project Manager, operating landfill, Altona North, Victoria.** Tamara project managed investigations at an operating landfill which spanned multiple tasks including groundwater and landfill gas monitoring and reporting, design and installation of landfill gas monitoring network, preparation of management plans and ongoing assistance to the client to meet their environmental obligations under their landfill licence. Tamara's responsiveness and consistent delivery to the client resulted in successive contracts being awarded for the site.
- **Project Manager, closed landfill, Dandenong, Victoria.** Tamara project managed groundwater and gas monitoring of capped and lined mound at former sewage treatment plant. The scope was expanded to include installation of groundwater bores and update to management plans as required throughout the development of the larger site surrounding the landfill.
- **Project Manager, closed landfills, Kangaroo Ground and Plenty, Victoria.** Tamara project managed and led field staff for a multiyear contract providing groundwater and gas monitoring for two closed landfill to meet aftercare management obligations.

GASWORKS INVESTIGATION AND BIOREMEDIATION

- **Project Manager, former gasworks, Bega, NSW.** Tamara project managed a detailed site investigation incorporating soil, groundwater, and vapour assessment for land adjacent to a former gasworks.
- **Project Manager, former gasworks, Cootamundra, NSW.** Tamara was the project manager for both consulting and contracting components of the Cootamundra Gasworks remediation. Tamara oversaw the excavation and

bioremediation of the most heavily tar impacted soils at the site. Tamara continued the relationship with the client to develop post remediation management plans and groundwater monitoring.

- **Project Manager, former gasworks, Stawell and Castlemaine, Victoria.** Tamara project managed groundwater monitoring programs at the Stawell and Castlemaine former gasworks, to assist the client in meeting post remediation requirements. This required assessment of long-term groundwater trends including the chemicals of interest (hydrocarbons) and hydrogeochemical indicators of biodegradation. Demonstration of plume stability allowed cessation of regular groundwater monitoring under the management plans.
- **Project Manager, timber treatment plant, Takura, Queensland and Grafton, NSW.** Tamara project managed and oversaw bioremediation of creosote impacted soils at two timber treatment plants.

GROUNDWATER

- **Project Support, industrial site, Townsville, Queensland.** Tamara assisted with fate and transport modelling of contaminants in groundwater.
- **Project Support, industrial site, Maryborough, Queensland.** Tamara undertook groundwater sampling and field slug tests to support a groundwater investigation at a foundry. Tamara provided support with interpretation of chemical and physical groundwater data to assess potential risks to receptors of groundwater.
- **Project Manager, service station, Brighton, Victoria.** Tamara undertook a groundwater investigation at an active fuel station, with specific objective of assessing groundwater recharge and origin to identify stormwater and sewer influences on shallow groundwater beneath the site.

AUDIT SUPPORT

- **Audit assistant, Abbotsford, Vic.** Tamara project managed and prepared a 53X Audit report including an environmental management plan (EMP) to manage lead and PAH impact in fill material.
- **Audit assistant, Mordialloc, Vic.** Tamara project managed and prepared a 53X Audit report including a groundwater quality management plan (GQMP) and environmental management plan (EMP) to manage residual chlorinated hydrocarbon impact (in groundwater) and asbestos (in soil).
- **Audit assistant, Tamworth and Merrylands, NSW.** Tamara project managed and prepared a site audit report for two former grain processing plants.
- **Audit assistant, Parkville, Vic.** Tamara project managed and prepared a 53X Audit report for the old Royal Children's Hospital.
- **Audit (expert witness) assistant, Somerville, Vic.** Tamara project managed and assisted in the preparation of an expert witness statement for a VCAT hearing.
- **Audit assistant, Mentone, Vic.** Tamara project managed and prepared an Auditors Verification letter to cease groundwater monitoring in accordance with existing Groundwater Monitoring and Management Plan.
- **Audit assistant, Mordialloc, Vic.** Tamara project managed and prepared a 53X Audit report including CUTEP determination of a property with an Environmental Audit Overlay.
- **Audit assistant, Port Melbourne, Vic.** Tamara project managed and prepared a 53X Audit report including CUTEP determination of a property with an Environmental Audit Overlay in the Fisherman's Bend Precinct.
- **Audit assistant, Glen Waverley, Vic.** Tamara project managed and prepared a 53X Audit report of a commercial property prior to residential development.
- **Audit assistant, Elsternwick, Vic.** Tamara prepared a 53X Audit report including Auditor determined CUTEP due to offsite groundwater contamination.

ACID SULFATE SOILS AND LAND CAPABILITY

- **Project Manager, saleyards, Inverell, NSW.** Tamara project managed investigations at a saleyard to monitor the potential impacts of effluent irrigation on soil and groundwater, including modelling of water and nutrient balance in soil.
- **Project Manager, Numurkah, Victoria.** Tamara project managed a soil and land capability assessment for an outdoor free range piggery. The scope included review of desktop resources, field investigation and soil sampling and provision of report indicating land capability to tolerate waste inputs.
- **Project Director, residential subdivision, suburb, Victoria.** Tamara project directed a broad scale land capability assessment for a x ha residential subdivision.
- **Project Manager, infrastructure, Essendon, Victoria** Tamara conducted a desktop review of background metal concentrations in various Melbourne geologies to support waste classification for a linear infrastructure project.

- **Project Manager, mariner, Somerville, Victoria.** Tamara prepared a SAQP, undertook soil and groundwater sampling including bore installation and interpretation of groundwater chemistry and slug tests. Included important consideration of the conceptual site model and the potential for sulfides to be present based on the geology.
- **Author, development site, Mascot, NSW.** Tamara prepared an acid sulfate soil management plan to facilitate development of a site with potential acid sulfate soils.
- **Project manager, former quarry, South Kingsville, Victoria.** Tamara project managed an assessment of a former quarry with waste acid sulfate soil and sludge disposal. The project involved multiple stakeholders with competing interests.
- **Field staff, Deebing, Qld.** Tamara assisted with a soil classification survey for reclassification of an area based DERM bioregional areas.
- **Project manager, cattle dip, Terranora, NSW** Tamara project managed and was the lead field staff for delineation of a cattle dip site to assist in developing remediation plan for the identified arsenic and DDT contamination.

MINING

- **Project Support, mining, Cloncurry, Qld.** Tamara undertook the field program and contributed to the environmental report investigating potential lead impact in surface soils about a major haulage route for a large mining company.
- **Project manager, large development site, Hexham, NSW.** Tamara project managed the remediation of >100,000 m³ of Coal Wash Rejects and acid sulfate soils. As the project manager, Tamara was responsible for regular communications and progress reporting both internally and externally with the client.

POSITION SUMMARY

● 2021 - Present	Associate Environmental Scientist	Epic Environmental Pty Ltd
● 2018 - 2021	Associate Environmental Scientist	Environmental Earth Sciences VIC
● 2016 - 2018	Senior Soil Scientist	Environmental Earth Sciences VIC
● 2013 - 2016	Soil Scientist	Environmental Earth Sciences VIC
● 2009 - 2012	Soil Scientist	Environmental Earth Sciences QLD