



SARAH FITZPATRICK

Project Environmental Scientist

Sarah Fitzpatrick is a qualified Environmental Scientist with six years' experience in contaminated land and environmental consulting throughout Australia. Sarah has acted as a Suitably Qualified Person (SQP) in accordance with Section 564 of the Queensland Environmental Protection Act 1994 on a range of soil contamination projects.

Sarah has successfully project managed a range of soil and groundwater investigations, landfill gas investigations, asbestos in soil investigations and soil classification assessments for off-site disposal. Sarah is able to identify and address contamination risk issues across a variety of sites, with significant experience in the construction and industrial areas. Sarah has completed work of this nature across Australia and New Zealand, with much of the work undertaken in Queensland, New South Wales and Victoria.

SKILLSETS

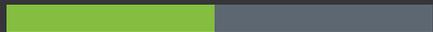
Contaminated land & remediation



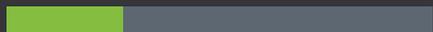
Groundwater



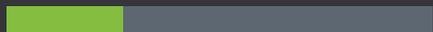
Asbestos



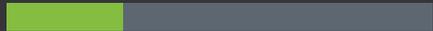
Acid sulfate soil



Landfill Design and Waste



Construction Management



MARKET SECTORS



Construction



Property



Industrial



Government



Waste Management



Defence

CONTACT

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QUALIFICATIONS

2012 University of Queensland / Bachelor of Environmental Science (Honours First Class)

MAJOR PROJECTS

- Cross River Rail - Environmental and Contaminated Land Baseline Assessment
- Toowoomba Foundry - Contaminated Land Investigation & Remediation
- Webb Dock Redevelopment - Contaminated Land Advice & Management
- Mackay Ring Road Stage 1 - Contaminated Land Advice & Management

AFFILIATIONS

- Young Professional Committee Co-Chair, Australian Contaminated Land Consultant Association QLD
- Committee Member, Professional Environmental Women's Association (Brisbane Branch)
- Member, Australasian Land and Groundwater Association
- Member, Environment Institute of Australia and New Zealand

EXPERIENCE

CONTAMINATED LAND INVESTIGATION AND REMEDIATION

- **Project Manager, Mackay Ring Road Stage 1, Mackay, Queensland.** Sarah managed contaminated land issues arising during the development of the Mackay Ring Road (Stage 1). Sarah developed contamination management strategies to confirm that soil contamination previously identified within the project area was either remediated or appropriately managed. This required close liaison with the client to ensure that proposed in-situ contamination management strategies were complementary to the project design specifications.
- **Project Manager, Edens Landing Investigation, Edens Landing, Queensland.** Sarah project managed the investigation of a property listed on the Department of Environment & Science (DES') Environmental Management Register (EMR). The property was listed on the EMR as it historically formed part of a rail alignment. As a Suitably Qualified Person (SQP) in accordance with Section 564 of the Queensland Environmental Protection Act 1994, Sarah developed a sampling plan to assess the site for contamination. Based on the findings of the assessment, Sarah subsequently prepared a Contaminated Land Investigation Document (CLID) which was certified by an auditor and submitted to DES. The outcome of the investigation resulted in the site being removed from the EMR.
- **Project Manager, Archerfield Airport Investigation & Remediation, Archerfield Airport, Queensland.** To satisfy end of lease requirements, Sarah developed and undertook a contaminated land investigation at a property which comprises part of the Archerfield Airport. The investigation detected contamination at the site and as such Sarah subsequently developed and implemented a remediation action plan. All work was required to be undertaken with approval from the Archerfield and Commonwealth Airport Environment Officers and required Sarah to closely liaise with the Airport Environment Officers.
- **Project Manager, Toowoomba Foundry Redevelopment, Toowoomba, Queensland.** The former Toowoomba foundry was listed on DES' EMR and was subject to a Site Management Plan (SMP). As part of the redevelopment of the property, the site was reconfigured with two of the new lots removed from the EMR. The remaining lots remained on the EMR with a revised SMP prepared. Sarah was responsible for managing and undertaking the bulk of the fieldwork during this assessment. Sarah also responsible for preparing the bulk of the three CLIDs submitted to DES with auditor approval.
- **Project Manager, Former Vehicle Depot, Redland Bay, Queensland.** Sarah project managed the investigation of a property listed on DES EMR for historical fuel storage. Sarah was responsible for undertaking field works and was responsible for preparing the bulk of the CLID submitted to DES with auditor approval to facilitate EMR removal. The project required Sarah to closely liaise with the auditor to ensure that auditor approval was achieved in a timely manner. The outcome of the investigation resulted in the site being removed from the EMR.
- **Field Manager, Steel Manufacturing Facility, Auckland, New Zealand.** An investigation was required to be completed at the site as part of the due diligence process for the proposed sale of the site. As field manager, Sarah was responsible for completing soil and groundwater sampling at the facility as well as managing the other consultants and contractors working on site. Sarah was also responsible for preparing the investigation report, which required Sarah to familiarise herself with New Zealand contaminated land guidelines and guidance documents.
- **Assistant Project Manager, Webb Dock Redevelopment, Port Melbourne, Victoria.** Sarah acted in the position of assistant project manager during the redevelopment of Webb Dock. Webb Dock is located in area of significant historical industrial land use and also on a former landfill. As such a variety of contaminated land issues including contaminated soil and groundwater, asbestos in soil, acid sulfate soils and landfill gas, were required to be managed during the redevelopment process. As assistant project manager, Sarah was responsible for managing staff availability for fieldworks, budgeting and the quality and consistency of reports issued to the client. In conjunction with the project director and project manager, Sarah also assisted in the development of client tailored solutions which took into account the complexities of the site and the restrictions associated with working on a major construction site.

ASBESTOS INVESTIGATION

- **Project Manager, Spotswood Train Depot, Spotswood, Victoria.** Sarah project managed and undertook validation works following removal of buried asbestos insulation at the Spotswood Train Depot. Following completion of the removal of asbestos, validation samples were collected from the excavation, which indicated that friable asbestos fibres remained on site. In conjunction with the Project Director, Sarah developed a remediation strategy which involved the establishment of an on-site asbestos laboratory. As such validation samples collected were analysed on site, which allowed for real-time feedback to be provided regarding the

extent of the excavation. This strategy ensured that the residual asbestos was removed in the second mobilisation to site and prevented further mobilisations from being required.

- **Field Manager, Level Crossing Removal Project, Melbourne, Victoria.** Sarah was required to undertake field works at a number of train stations across Melbourne which were proposed to be upgraded as part of the Level Crossing Removal Project. By completing intrusive sampling within the proposed project areas, Sarah was able to identify where asbestos was present that would be required to be managed as part of construction works. The majority of sampling locations were located within the rail alignment, and as such site works were required to be undertaken adhering to very stringent safety standards and under the supervision of a spotter. Sarah also contributed to the development of site specific Asbestos Management Plans created for train stations where asbestos was identified.

GROUNDWATER INVESTIGATION

- **Project Manager, Fuel Storage Terminals, Queensland.** The fuel storage terminal sites were each subject to environmental licences issued by DES. The environmental licences required that regular monitoring be undertaken at each of the fuel storage sites across Queensland. As Project Manager, Sarah was responsible for co-ordinating field works and preparing groundwater monitoring reports which demonstrated that the client had met their obligations under their environmental licence.
- **Project Manager, Former Highett Gasworks, Highett, Victoria.** The site was subject to a Groundwater Quality Management Plan due to the presence of known groundwater contamination at the site. The management plan required that groundwater sampling be undertaken on an annual frequency to monitor contamination trends within groundwater at the Site. Sarah was responsible for undertaking field work and for preparing the report issued to the Environment Protection Authority (EPA) Victoria to satisfy EPA's requirements. During the investigation, anomalous cyanide groundwater results were detected. Sarah was responsible for initiating and undertaking an investigation into the cause of the anomalous results which was determined to be related to the incorrect use of laboratory equipment during analysis. Sarah's investigation prevented the client from having to undertake further investigative work at a significant cost to the client.
- **Project Manager, Steel Recycling Facility, Laverton North, Victoria.** The Site operated under an Environmental Licence issued by EPA Victoria. Licence conditions stipulated that bi-annual groundwater monitoring was required to be undertaken at the facility with the groundwater investigation report issued to EPA Victoria. As project manager, Sarah was responsible for undertaking the groundwater monitoring and preparing the groundwater assessment report to a standard suitable for submission to EPA Victoria.

POSITION SUMMARY

● 2016 - Present	Project Environmental Scientist	Epic Environmental Pty Ltd
● 2016	Environmental Consultant	Prensa Pty Ltd, Brisbane
● 2013 - 2015	HSE Consultant	Prensa Pty Ltd, Melbourne