

Kate Robinson

Associate Environmental Engineer

Qualifications & Certifications

Bachelor of Environments (Engineering Systems),
The University of Melbourne, 2018



Career Profile

Kate is Contaminated Land Site Audit Assistant and an Associate Environmental Engineer with five years' experience in environmental consulting, statutory environmental auditing, contaminated land site assessment and remediation, and project management.

Kate has worked on a broad range of projects including infrastructure, rail corridors, landfills, chemical manufacturing plants, and land development projects. These projects have involved a range of contaminants including chlorinated hydrocarbons, PFAS, heavy metals, asbestos, and petroleum hydrocarbons. Major clients Kate has worked for includes Orica Australia and Transport for New South Wales.

Kate has project managed and undertaken a variety of fieldwork including drilling works, groundwater and landfill gas well installation, soil and groundwater sampling, soil vapour sampling, soil validation, soil classification, and sediment sampling.

Expertise

Statutory environmental audit support
Land and groundwater contamination assessment, management and remediation
Project management

Key Industry Sectors

Transport and Infrastructure
Manufacturing
Property and Construction

Employment History

2023 – (current): Senversa
2018 – 2023: WSP-Golder

Professional Training & Development

- ACLCA Ecological Risk Assessment Workshop 2023
- First Aid, St John Ambulance Australia 2021.
- Occupational Health and Safety, Construction Industry Induction Training Course, Australian Industry Group 2009 (White Card).

Project Experience

EXPERT WITNESS – LANDFILL ENGINEERING

- **Confidential client, QLD** - Kate assisted in preparing an Expert Witness Report for a significant criminal case relating to odour nuisance in contravention of the Environmental Protection Act and an Environmental Authority. Kate assisted the lead expert in preparing evidence to provide advice to legal counsel in the areas of landfill capping, landfill gas management, leachate management, stormwater management and the excavation of landfilled waste.

CONTAMINATED LAND AUDIT PROJETS

Auditor assistant to EPA-appointed environmental auditors in New South Wales and Western Australia for the following sites:

- **Liddell Power Station, NSW** – As part of the site closure and transition of the former coal-fired power station into an energy hub, Senversa is the NSW EPA contaminated site auditor to review all existing investigation works at the site and assess the consultants' proposed approach to characterising and remediating the remainder of the site.



Kate has undertaken a review of investigation reports for the proposed remediation which involves asbestos, hydrocarbons and PFAS.

- **Argyle Diamond Mine, WA** – As part of closure execution of the Rio Tinto Argyle Diamond Mine, Senversa has been engaged as the auditor to review all investigation, remediation and validation reports to make the site suitable for post-mine uses. As the audit assistant, Kate has prepared a progress Mandatory Auditor's Report following review of the validation report associated with phase 1 of mine infrastructure removal.
- **BHP Nelson Point, WA** – To facilitate the redevelopment of the former Powerhouse site located at the BHP Nelson Point port facility, Kate reviewed the investigation reports and prepared a Mandatory Auditor's Report which was subsequently endorsed by DWER.
- **Rutherford, NSW** – Review of investigation reports to determine the required remediation to enable divestment of the former waste oil refinery. This includes assessment of the off-site migration of PFAS impacted groundwater and surface water.
- **Sydney Metro Western Sydney Airport, NSW** – Review of investigation, remedial and validation reports to facilitate the development of the new metro line. The works included cleanup of asbestos impacted material for on-site encapsulation in the form of a landscaped mound. Issue of several Site Audit Statements.
- **Former BP Petrol Station, NSW** – Review of investigation, remedial and preliminary validation reports for the remediation of hydrocarbon impacted groundwater and soil. Remediation involved on-site landfarming of excavated impacted soil, and groundwater remediation via powder activated carbon is currently underway.
- **Former Defence land, NSW** – Review of SAQP, investigation, remedial and validation reports relating to UXO and contamination (asbestos and heavy metals) to facilitate the change in land use for the site.
- **Health Infrastructure, NSW** – Review of investigation and remedial reports for the redevelopment of the hospital involving remediation of asbestos impacted soil for on-site cap and containment.
- **Green Square Town Centre, NSW** – Review of investigation and remedial reports for redevelopment of the former quarry and subsequent landfilling at the site.
- **Schools Infrastructure, NSW** – Issue of Section A Site Audit Statements following review of investigation, remedial, validation reports as well as long-term environmental management plans for the redevelopment of schools across Sydney.

CONTAMINATED LAND ENVIRONMENTAL ASSESSMENTS

- **Orica Botany Groundwater Cleanup Project, NSW (2020 – 2023)** – Kate was the project and field manager for the Orica Botany Cleanup Project which involves the on-going chemical and hydraulic monitoring of a large network of groundwater wells in the Botany area. The program is focussed on the assessment of mercury and volatile chlorinated hydrocarbons contamination in groundwater to support operation of a Groundwater Treatment Plant and assessment of risk to human health and environmental receptors. Kate provided ongoing assessment of hydrogeological conditions for optimization of the pump-and-treat system as well as establish changes in contaminant distribution between monitoring events.
- **Transport for NSW, Sydney Metro West, Australia (2021 – 2023)** – Kate was involved as the contamination field manager for the geotechnical investigations for the Sydney Metro West project. Kate worked collaboratively with the joint venture team to collect soil, rock, groundwater, and surface water samples for contamination testing, concurrently with geotechnical sampling and logging at over 200 locations along the proposed alignment, including on James Hardie legacy sites.
- **Home, Precinct 75 Soil Vapour Assessment, Australia (2022)** – Kate was the field engineer for the chlorinated soil vapour site investigation works at the Precinct 75 redevelopment site in St Peters. The works involved the assessment of soil vapour migration to on-site and off-site receptors.
- **Hawkesbury City Council, Hawkesbury Landfill Monitoring, Australia (2020 – 2021)** – Kate was the field manager for the regulatory monitoring at the two landfills in the Hawkesbury City Council area. Kate undertook the quarterly environmental compliance monitoring which involved groundwater, surface water, surface gas, subsurface gas, and noise monitoring, and assisted in preparing the reports to meet the requirements of the environmental protection licence.
- **Transport for NSW, Parramatta Light Rail Stage 1, Australia (2019)** – Kate was the contamination field engineer for the Parramatta Light Rail Stage 1 site investigations. Kate undertook and coordinated contamination sampling at the various drill rigs and was responsible for the data management. The project posed many challenges, including drilling on James Hardie legacy sites and within the rail corridor.