

CURRICULUM VITAE



Michelle Battam

Senior Environmental Scientist

Michelle is a Senior Environmental Scientist with over 18 years experience focusing on contaminated land management as a consultant and regulator. She has successfully led projects in contaminated land assessment, remediation, groundwater investigation and monitoring for a range of sites including Defence facilities, chemical manufacturing facilities, government facilities, petroleum terminals, depots and service stations.

Michelle has years of experience across both the private and public sector and has been responsible for the supervision and management of numerous contamination investigation and environmental monitoring projects. She and has provided environmental advice to major petroleum companies regarding the status of their facilities and future management options.

Michelle manages a range of contamination assessment and remediation projects undertaken by the Metech team as well as providing training oversight for junior staff members. Michelle is a member of ALGA.

PROFESSIONAL QUALIFICATIONS

Bachelor Science – Geology, University of Wollongong (1999)

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Australian Land and Groundwater Association

PROJECT EXPERIENCE

Michelle has extensive experience and has been responsible for the assessment and/or remediation of 300+ contaminated sites, within NSW, ACT and Victoria. Selected project experience includes:

- **Lendlease, Barangaroo Reserve, Sydney NSW.** Remediation Project Manager for construction of open space/ recreational use of north portion of Barangaroo. Key duties included implementation of the preferred remedial strategy as 'cap and contain' asbestos contaminated soils onsite, site validation and preparation of the site validation report and long-term environmental management plan (EMP). Other tasks included management of a team of five onsite staff, assessment and characterisation of waste materials for offsite disposal, validation of suitability of imported materials to be used at the site (including ENM, VENM and materials under various other resource recovery exemptions). The site was subsequently signed off as suitable for use by NSW EPA accredited auditor subject to implementation of the long-term EMP.
- **Laing O'Rourke, Auburn Stabling Yard, Auburn NSW.** Remediation Project Manager for construction of the stabling yard. Key duties included management of detailed site investigations, preparation of the remedial action plan for asbestos contaminated soils, implementation of the



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preferred remedial strategy as 'cap and contain' asbestos contaminated soils onsite, site validation and preparation of the site validation report and long term environmental management plan (EMP). Other tasks included presenting asbestos awareness training to Laing O'Rourke Staff and contractors, assessment and characterisation of waste materials for offsite disposal, validation of suitability of imported materials to be used at the site (including ENM, VENM and materials under various other resource recovery exemptions). The site was subsequently signed off as suitable for use by NSW EPA accredited auditor subject to implementation of the long-term EMP.

- **Stockland, Residential Estate, Thirroul NSW.** Remediation Project Manager for assessment and remediation of residential estate at former brickworks at Bulli / Thirroul where unexpected asbestos contaminated soils were uncovered during civil works. Key duties included preparation and implementation of sampling, analysis and quality plan (SAQP) for 15 hectare property including the installation of approximately 1,500 test pits for asbestos quantification and chemical analysis, preparation of the remedial action plan, implement the preferred remedial strategy as 'remediate bonded ACM to below the adopted HSL and offsite disposal of friable asbestos contaminated soils, site validation and preparation of the site validation report. Other tasks included management of a team of four onsite staff, assessment and characterisation of waste materials for offsite disposal, validation of suitability of imported materials to be used at the site (including ENM, VENM and materials under various other resource recovery exemptions). The site was subsequently signed off as suitable for residential use by NSW EPA accredited auditor.
- **James Hardie Legacy Asbestos Program, Western Sydney NSW:** Senior Officer responsible for delivery of asbestos sampling and remediation program funded by the NSW government and managed by NSW EPA for properties affected by James Hardie legacy asbestos disposal. Role included desktop review of James Hardie records, historical background information to determine likely properties of asbestos disposal, engagement with affected residential, commercial and open space property owners and occupiers to obtain approval for voluntary sampling, evaluation of results and determination of management requirements (over 200 residential properties), management of consultants and contractors undertaking the works and stakeholder engagement with the community, affected property owners / occupiers and various government agencies.
- **Petroleum Facilities, Various NSW, ACT, VIC:** Responsible for project management and delivery of contamination assessment, remediation and validation works and associated reports for 150+ former or operating services station sites and depots for major petroleum clients including Mobil and Shell. Hydrocarbon contamination issues related to removal of source fuel infrastructure, soil impact, phase separate hydrocarbons (PSH), dissolved phase groundwater impact and off-site migration.
- **WestConnex (M4-M5 Link) and Sydney Gateway, NSW:** Provided technical project support and independent review of contamination investigation programs for the provision of advice relating to contamination risk, liability, risk mitigation measures and appropriateness of design elements. Provided technical support on the assessment and management of contamination issues pertinent to landfill legacies, in particular ammonia, phosphates and PFAS.

EMPLOYMENT HISTORY

2019 – current

Senior Consultant, Metech Consulting Pty Ltd

Responsible for commercial and technical delivery of contaminated site assessment and remediation projects within a privately owned consulting firm specialising in contaminated land management.

2016-2019

Senior Operations Officer, NSW Environment Protection Authority, Sydney

Operations and Senior Operations officer in Contaminated Land Management and Strategic Regulation PFAS. Project management of sites where voluntary soil sampling and interim management measures were being implemented for residential properties for the James Hardie Legacy Asbestos Program. Stakeholder engagement with residents, council and other government agencies during the re-assessment and management of James Hardie legacy sites and PFAS contaminated sites.

Assessment of sites notified to the EPA under s60 of the *Contaminated Land Management Act* (CLM Act) 1997. Regulatory officer of sites declared and regulated under the CLM Act. Assessment of PFAS contaminated sites including technical review of consultant reports and engagement with stakeholders (affected property owners, other government agencies, community).

2010-2015

Associate, JBS&G Australia Pty Ltd

Responsible for the technical output of contaminated site assessment/remediation projects and provision of technical guidance to scientists/engineers. Conducted senior project management of environmental site assessments, monitoring programs and remediation programs. Responsible for the technical development of junior scientists / engineers.

2003-2010

Coffey Environments (Australia) Pty Ltd (incorporating IT Environmental (Australia) Pty Ltd from 2006). Business Manager (ACT) (Canberra Office)

Acting Business Manager in Canberra Office including management of five staff. Works included location in Canberra three days per week in conjunction with Team Leader NSW role. Responsible for delivery of contaminated land projects for industrial, government and petroleum clients within the ACT and surrounding areas. Liaising with ACT EPU regarding endorsement of Coffey Environments reports. Financial management, business development, people management including recruitment and training. Panel representative for various government clients.

Team Leader NSW (Sydney Office)

Team leader for management of all environmental and remediation works under the National Contract for Mobil Oil Australia Pty Ltd and Shell Oil Australia Pty Ltd. The programs included the management of all sites in NSW under these programs (up to 50 sites at one time) including assessment and remediation of retail service station and depots for divestment or due diligence purposes. Financial control, supervision and training of team members. Management to ensure compliance with Mobil, Shell and Coffey Environments health, safety, environment and quality requirements.

Team Leader VIC (Melbourne Office)

Team Leader for National Remediation team based in Melbourne office. Management of

the team of eight staff to deliver long term in-situ remediation projects for industrial and petroleum clients. Primary responsibilities include staff, financial and delivery management of remediation projects through each project phase (including design, approvals, construction, installation, commissioning, monitoring and closure).

Senior Project Manager (Sydney Office)

Management of three long term remediation projects under the National Contract for Mobil. The works included the management of in-situ soil and groundwater remediation projects for former petroleum facilities in rural NSW. Management of environmental site assessments, site validation works, monitoring programs, construction and installation of in-situ Multi Phase Vacuum Extraction (MPVE) remediation systems, asbestos assessment and removal, noise monitoring, stakeholder engagement with various government agencies and the community.

2002-2003

IT Environmental (Australia) Pty Ltd, Senior Environmental Scientist

Responsible for the design and supervision of environmental site assessments, soil and groundwater remediation programs and environmental monitoring programs. Conducted fieldwork including drilling, soil sampling, installation of groundwater monitoring wells and supervision of drillers using drilling techniques such as rotary auger drilling, rock drilling (core drilling and rock roller) using mud and air recovery and surface water sampling. Responsible for the preparation of technical reports including investigation reports, validation reports, remediation action plans and environmental management plans.

2000-2002

IT Environmental (Australia) Pty Ltd, Environmental Scientist

Responsible for environmental fieldwork including installation of groundwater monitoring wells, soil assessments, ground and surface water sampling, soil validation works, data analysis and reporting for industrial, government and petroleum clients.

COURSES/CERTIFICATIONS

40 hour US Occupational Safety and Health Administration (OSHA) Course for Hazardous Waste Activities.

NSW Course in Bonded Asbestos Removal (Construction) – 91233

TAFE Plus Statement in Bonded Asbestos: Nominated Supervisor

WorkCover OH&S, General Induction for Construction Work in NSW

Rail Industry Safety Induction (RISI) (2011)

Defensive Driver Training Program, Drive Safe Australia