



## CAPABILITY STATEMENT

PROTECTING HEALTH  
& THE ENVIRONMENT  
THROUGH SCIENCE

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# CORE COMPETENCIES

We are the trusted market-leader for hazardous materials and environmental management in regional NSW.

**Whether it is asbestos, noise and vibration, silica, contaminated sites, chemicals or mould, EnviroScience Solutions can resolve your issue, on time and on budget.**



Our specialised team applies world-class technical and scientific expertise to provide sustainable solutions for your workplace or environmental issue, with benefits for both the environment and health and safety of the community. And with an in-house NATA accredited laboratory, we also have a dedicated R&D team based strategically in regional NSW.

EnviroScience's speciality is the identification, monitoring, and management of contaminants and hazardous materials in soil, water, air and materials. We help you comply to regulations now, and into the future, with a pragmatic approach, including the use of the latest technologies for productivity and accuracy.

We proudly partner with government, commercial and universities who look to us for the highest level of technical and scientific skills, as well as a professional and confidential approach. We are recognised for our vision to invest and undertake research into the IoT including live sensing network solutions to improve productivity and real-time worker safety.

## TECHNICAL

Competent in an extensive range of site complexities, especially those unique to regional Australia. Skills include health risk and exposure assessments, site investigations, hazardous materials, monitoring, registers and management plans.

## R & D

Research & investment in IoT including live sensing network solutions to improve productivity and real-time worker safety.

## SITE SPECIFIC TRAINING

Worksite, workshop and online training in hazardous materials, including asbestos awareness training.



## WE WORK WITH ISSUES INVOLVING:

ASBESTOS • SILICA • CHEMICALS • MOULD & FUNGI • BACTERIA • METH LABS  
AIR • WATER & SOIL QUALITY • CONTAMINATED SITES • NOISE AND VIBRATION

### SERVICE

We are available 24/7 and our team are quickly mobilised being strategically located within regional NSW & VIC.

### ACCREDITATION

We have our own in-house NATA laboratory services for quick and confidential results and are ISO 14001, ISO 9001 and ISO 45001 accredited.

### CULTURAL

Our solutions-orientated methodology means we are practical in our approach, delivering results that align with site usage and are within budget and time constraints.



# WHY CHOOSE ENVIROSCIENCE?

EnviroScience Solutions is proudly Australian owned and committed to helping keep people and the environment safe from hazardous substances. In all corners of the state, we have strategically based specialists to deliver projects with an innovative, progressive and problem-solving approach. Our strong connection to regional areas ensures we act seamlessly, practically and with client goals at the forefront.



## 24/7 Service

24/7 service – based in five strategic locations to cover regional NSW – Dubbo, Wagga Wagga, Orange, Newcastle, Tamworth, Maitland and Canberra – and quick to respond and deploy teams across regional NSW.



## Regional Based

As a regionally based firm, we have a solid understanding of the challenges and expectations of rural and regionally based organisations and clients who are dealing with sensitive issues.



## Training For Your Team

We offer both face-to-face and online asbestos awareness training including record keeping, so you can ensure both you and your contractors meet legislative requirements.



## Our Team

We have an experienced team who will listen to your needs and add value to your directive. Our team are personable and genuinely helpful in their approach.



## Innovation

We deliver innovative solutions to asbestos management, including our online documentation portal for our client's convenience.



## NATA Laboratory

We manage our own National Association Testing Authorities (NATA) accredited laboratory for specific scientific procedures - the highest standard in Australia.



## Mobile Laboratory Training

Our laboratory is mobile so we can provide timely and accurate results for safety and to minimise (if any) downtime.



## Our Own Equipment

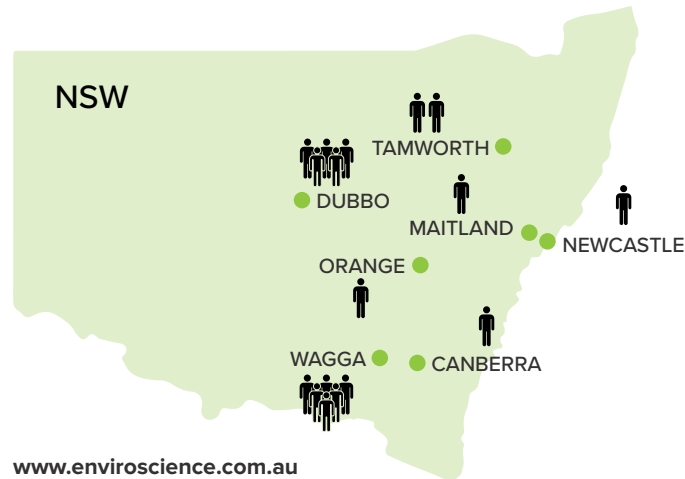
We own and calibrate the majority of our testing equipment ensuring accuracy and confidence in results.

Membership of Australian Institute of Occupational Hygienists (AIOH), National Safety Council of Australia (NSCA), Safety Institute of Australia (SIA), Clean Air Society of Australia & NZ (CASANZ), Australasian Land & Groundwater Association (ALGA), Australasian College of Toxicity & Risk Assessment (ACTRA).



## Research Partners

Research partners with Sydney University (Asbestos Diseases Research Institute, Sydney Medical School) and University of New South Wales (School of Materials Science and Engineering) in product development.



## Training & Development

Our staff are professionally developed as part of our ongoing business objectives and maintain membership and accreditation with professional organisations and associations.



## Fully Equipped

Field staff are supplied with fully maintained and stocked vehicles ensuring reliability, compliance, and the highest standards delivered on-site.



## Risk Expertise

Experts in evaluating and managing risk and delivering innovative strategies to meet regulatory and legislative requirements.



## New Technology

Investment and research in the IoT including tailored live sensing network solutions for our clients.



## Accredited Systems



EnviroScience has ISO accredited quality, environment and WHS systems.

We are approved under NSW Government Prequalification Schemes and for Consultants in Construction and are members of the Schools Infrastructure NSW Panels for Occupational Hygiene and Environmental Services.

EnviroScience is an approved Consultant Hygienist under a NSW Land and Corporation panel of providers for assessment, remediation or replacement of public housing in NSW.

# INNOVATION AWARDS



EnviroScience Solutions is an award-winning consultancy, with more than 150 years of combined experience serving public and private industry sectors.

In 2022, EnviroScience was recognised for outstanding innovation at the annual BGIS Global Supplier Innovation Awards for work completed for the NSW Government. We were awarded the first place in Australia and third place in the world, for an innovative project at the NSW Corrective Service Wellington Jail site, which was significantly impacted by a mouse plague in 2021.

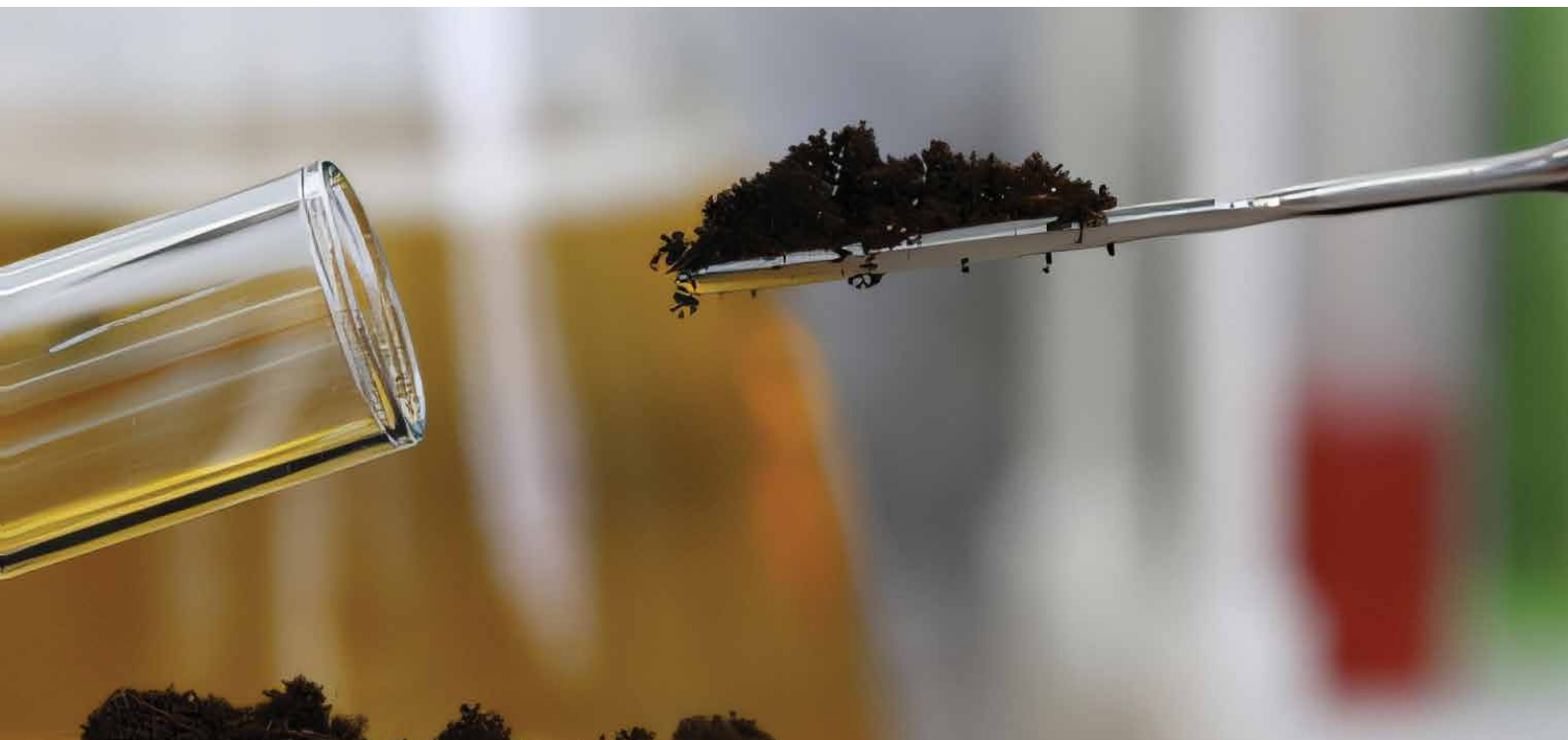
EnviroScience developed an Adenosine Triphosphate (ATP) luminometer to measure bioluminescence and detect the presence of contamination during the plague event, by utilising the reaction of ATP with luciferase and is reported in relative light units (RLU).

This is a cost-effective, quick and easy method which is used extensively by industries for cleaning and validation. Highly efficient process using minimal equipment and resources.



In 2017 and 2018, EnviroScience Solutions was named in the Financial Review Fast 100 List which recognises the fastest growing large, established companies in Australia.







# CASE STUDY

## CONTAMINATED SITE



**EnviroScience Solutions was commissioned to work on an area of contaminated water and soil near the Wallerawang Sewage Treatment Plant in the Central West of NSW.**

The source of the contamination was a 20,000-litre caustic soda tank, which lost approximately 12,000 litres of product into the ground. The caustic soda migrated from the tank bund along an unnamed, largely dry, watercourse.

In response to a NSW EPA Clean-Up Notice, the project and subsequent reporting were reviewed and, in part, authored by EnviroScience Solutions' Certified Environmental Practitioner: Site Contamination Specialist.

The works included undertaking a comprehensive investigation of the site, a remediation options appraisal, a remediation action plan, remedial works and validation reporting to restore the parcel of land.

The remediation works comprised the excavation and off-site removal to an appropriately licenced landfill of the impacted soils and vegetation. The lateral and vertical extent of the excavation was determined by the collection of soil samples every

five metres along the length of the watercourse and field testing for pH, on both sides and at the base of the excavation.

The waste soil (1,379 tonnes, approximately 800 m<sup>3</sup>) was classified by EnviroScience and removed off-site to an appropriately licenced landfill. The remediation excavation was backfilled with virgin excavated natural material taken from stockpiled quarried material.


The pH field screening and the validation laboratory results demonstrated that the remediation excavation has been conducted successfully. Water monitoring of the nearby Pipers Flat Creek also indicated there had been no off-site impact.

During the project, daily monitoring of the creek found there was no residual impact to the waterway.



# CASE STUDY

## SILICA DUST MONITORING



EnviroScience Solutions was engaged to undertake personal respirable, inhalable and crystalline silica dust assessments for a large quarry operation across NSW. The testing was part of the client's yearly obligations to comply with safety regulations for workers' health and exposure levels.

EnviroScience worked with the client to replicate the full operational capabilities of each quarry to determine the potential exposure for employees on site. The assessment was carried out over an eight-hour period – the same as a standard working day.

Prior to pumps and sampling heads being installed on employees, a general toolbox meeting was held to explain why the assessment was being conducted, the benefits, what was being assessed and what was required from the employees throughout the testing. Once the pumps had been set up, EnviroScience personnel noted the environmental conditions on the day, as these can directly affect the creation, movement and attitude of airborne dust.

To gain a better understanding of the site, EnviroScience also conducted a visual assessment of the site to identify key areas where excessive dust could be created by specific machinery, potentially posing a risk of exposure to employees.

The on site-specific recommendations developed by EnviroScience after the assessment, found the quarry complied with the expected standards and that the site was a safe working environment for employees.

# INTRODUCING SOME OF OUR LABORATORY TEAM



**Ken Archer**

**MAIMS FACBS MASM**

Ken is a Medical Scientist with 40+ years' experience, previously in charge of Orana Pathology at Dubbo Hospital, and has brought his wealth of knowledge to EnviroScience ensuring the appropriate standards of quality systems and controls in operations and the laboratory.



**Simone Lobo**

**BMLS**

LoboBMLSSimone is a medical and Quality Control scientist previously working at Thermo Fisher Scientific with Experience in Microbiology, Biochemistry and Cell Culture. This multi-discipline work along with experience in a quality controlled environment bring a wealth of knowledge to Simone's role at EnviroScience Solutions



**Jeff Sargent**

**BAppSc AACB MASM**

MASMJeff is a Medical Scientist who previously worked at the Orana Pathology where he was in charge of two departments, Biochemistry and Microbiology. These two disciplines bring a wealth of experience to Jeff's role at EnviroScience, especially in mould, bacterial assessments and water testing.





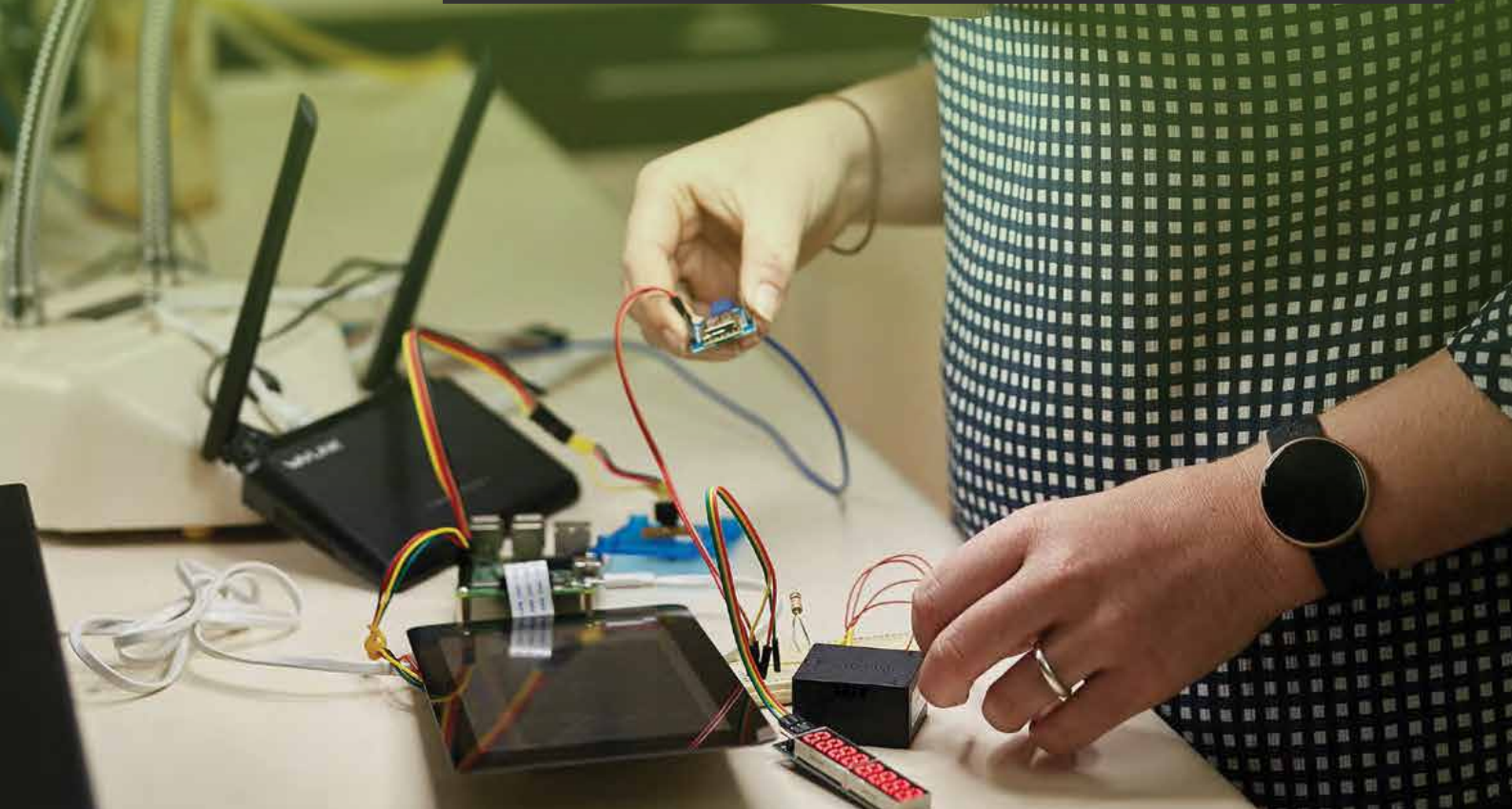


### Juliet Duffy

DIRECTOR MSM (USYD) MAICD.  
Occupational Hygienist MAIOH.  
NATA Signatory, LAA 000102  
2018 NSW Regional Woman of the Year  
2018 AFR 100 Women of Influence

Juliet is the founding director of EnviroScience Solutions and holds a Master of Sustainable Management. Juliet has been managing Asbestos, hazardous materials and environmental issues since 1988, when the first National Co advocate for regional Australia and women in STEM. Juliet is also considered an expert in the field of naturally occurring asbestos and is a sought-after speaker at industry conferences nationally and internationally, frequently traveling the state educating government organisations, including councils on management of this issue.

*A multi-disciplinary scientific team with  
a broad project understanding and  
solutions for most project challenges.*



# INTRODUCING SOME OF OUR FIELD STAFF



## John Bartholomew

**BAppSc CertOHSProf.SIA  
MAIOH. LAA 001156**

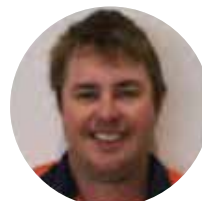
John is an Occupational Hygienist (MAIOH) and is a Certified OHS Professional with the Australian Institute of Health and Safety. John has worked in multi-disciplinary environments including consulting and operational positions in state government, mining, construction and the agriculture sectors.



## Gemma Murphy

**BSc (Geosciences)  
LAA 00122**

Gemma is an Occupational Health and Environmental Consultant with previous experience in the Geotechnical and Environmental Fields. Gemma facilitates the Project Management of large-scale projects and manages tendering and quotations. Gemma has a specific interest in Naturally Occurring Asbestos Management and Contaminated Sites Remediation and is also a Licensed Asbestos Assessor.



## Michael Williamson

**BGeoSc. LAA 001347**

Michael is an Occupational Health & Environmental Consultant with several years of practical farming experience, soil science, GIS mapping skills and project management experience. Michael is a Licensed Asbestos Assessor, performing a range of on-site technical duties and remediation supervision roles. He is passionate about Natural Occurring Asbestos Management, contaminated sites and conducts Preliminary and Detailed Site Investigations.



## Noellie Bourdoiseau

**BPCN AssEnBiBPCN AssEnBi  
LAA 001434**

Noellie is an experienced environmental project manager with expertise in soil and underground water remediation and rehabilitation, particularly in the areas of hydrocarbon and chemical pollution. Noellie is based in our Wagga office, providing high level contaminated site expertise to the team.



## Mark Challoner

**BSc Hons CEnvP  
Contaminated Site Practitioner**

Mark has twenty-five years of experience as an environmental consultant advising multi-national and national companies on contaminated land issues. Mark is a Certified Environmental Practitioner: Site Contamination Specialist (CEnvP: SCS SC40106) accredited by Environmental Institute of Australia and New Zealand (EIANZ) and an EIANZ Site Contamination Accreditation Scheme Registrar.



## David Abbott

**BAppSc (Land Science)  
AssDipAppSc (Biology)  
LAA 001517**

David has a strong background in government and community relations, particularly in the resources sector. He is an experienced LAA and Project Manager based near Canberra and serves the South Coast, South-east and Riverina regions as required. He has extensive experience asbestos management for our NSW Schools Infrastructure and Land and Housing Corporation projects, as well as in a range of other hazardous materials projects throughout the regions.





## DIVERSITY & INCLUSION

At EnviroScience we are proud of our diverse team. We offer regionally based career opportunities for young and mature-aged workers, men and women, in the fields of science, technology, engineering and maths (STEM). We are passionate advocates for women (in STEM), driven by Director Juliet Duffy and our field team of women science graduates.



### Andrés Ortega

**BEng MSc**  
**LAA 001346**

Andrés is a Licensed Asbestos Assessor and Work Health and Safety consultant with experience in hazardous materials, indoor air quality, environmental monitoring, occupational hygiene, and contaminated land assessments. As an environmental scientist, he has developed strong skills in field sampling and laboratory analysis of soil, water and air quality.



### Sam Ramsey

**BEnv Sc (Physical Systems)**

Sam is an Occupational Health & Environmental Consultant with previous experience focusing on Contaminated Land - Site Assessment and Remediation. Sam has experience in Waste Classification and Resource Recovery Orders as well as performing a range of on-site assessments and supervisory roles. Sam manages our Newcastle office.



# HOW WE HELP



Solutions



Site Assessment



Stockpile  
Assessment



Project  
Management



Preliminary and  
Detailed Site  
Investigations



Pollution  
Incidents



Change of  
Land Use



Dust, Noise  
& Vibration  
Monitoring



Mould  
Assessment



Asbestos Air  
Monitoring



Highway  
Corridors



Contaminated  
Sites



EMP's



Naturally  
Occurring  
Asbestos



In River Projects



Heritage



Risk  
Assessments



Waste  
Classification



Site Specific  
Training



Meth Lab  
Assessment



Site Remediation



Industrial Site  
Compliance



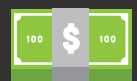
ENM & VENM  
Assessment



Asbestos &  
Silica Awareness  
Training

## EXPERIENCE

\$18+ MILLION  
PROJECTS



50+ STAFF  
TEAM



15 YEARS  
OPERATION



30,000+  
PROJECTS



2000+  
TRAINED IN  
ASBESTOS AWARENESS



12,500+  
SITES



40,000+  
SUSPECT SAMPLES  
TESTED FOR ASBESTOS





# NATURALLY OCCURRING ASBESTOS

EnviroScience Solutions are industry-recognised experts in the identification and management of naturally occurring asbestos (NOA). High risk NOA areas are located in all states of Australia.

## ASBESTOS & SILICA AWARENESS TRAINING

Online and face-to-face Awareness Training Courses designed and delivered by our experts in keeping people safe from hazards. Suitable for all levels of staff, contractors and community.

We work daily to help keep people and the environment safe from hazards including asbestos, silica and other chemical and physical hazards. This means we are completely up to date with the necessary legislation, technology breakthroughs and emerging threats (e.g. Asbestos Imports) as they apply in real life situations.

Our online courses are continuously updated to reflect ongoing developments in our industry. We are not a training company but a trusted partner who helps clients manage asbestos exposure and risk. We simply believe we have the most in-depth content, presented in an easy to follow and comprehensive format.



# PROJECTS

## CONTAMINATED SITES

Preliminary and detailed site contamination reports for a broad range of contaminants including pesticides, herbicides, PFAS/PFOS, hydrocarbons, heavy metals and acids, PCBs, chemicals, in-river concreting, asbestos brakes, bacteria, mould and fungal contamination and clandestine laboratory chemicals.



## NATURAL OCCURRING ASBESTOS

Naturally occurring asbestos compliance project management, airborne asbestos, air monitoring for naturally occurring asbestos abatement, roadworks, dam upgrades, water pipeline installations, NBN, agricultural and forestry ground disturbance.



## STOCKPILE MEASUREMENT AND ANALYSIS

Using technology to determine accurately size and composition of stockpiles for appropriate sampling plans and testing requirements.



## RODENT INFESTATION REMEDIATION

Rodent residue assessment, remediation and post remediation validation for NSW Corrective Service, Wellington Jail Site. Development and implementation of preventative strategies for future infestations.

## ASBESTOS BUILDING REGISTERS

Asbestos audits, work specification development, compliance project management, monitoring and validation within the buildings of the Tamworth, Bingara, Dubbo, Wagga, Forbes, and Gulgong Hospitals. Numerous asbestos building registers for commercial and residential properties.



## ASBESTOS & SILICA AWARENESS TRAINING

Face-to-face and online awareness training for frontline staff, supervisors, management and directors of government and commercial organisations, including tier 1 contractors. Over 2,000 people trained.







### LEAD IN SOILS

Lead-based paint works for Bourke Heritage Government Offices building, Wellington and Dubbo Councils and Harden Hospital including project scope, air monitoring and lead clearance sampling and certification.

### MOULD REMEDIATION

Ascertain the taxa and concentrations of fungi present both indoors and outdoors of several properties and compare and report the results to health standards to determine safety for human habitation.

### METH LABS

Clandestine (Meth) lab diagnosis, remediation and clearance including rental properties, commercial properties and housing stock for a wide range of regional property managers.



### CLEAN AREA CLEARANCE

Several new operating theatre suites in regional NSW Health sites have used EnviroScience to provide a cleanliness and microbiological background assessment for airborne bacteria, fungal and dust particles, prior to commissioning.

### DUST & SILICA MONITORING

Dust monitoring for mining, roadworks and other soil disturbance. Developing strategies to reduce incidence of dust in operations without affecting productivity.



### CORRIDOR MANAGEMENT

Environmental and hazardous material analysis, planning & management for rail, road, upgrades and flood remediation on a range of sites across rural and regional NSW.

# ASBESTOS AT WORK – YOUR RESPONSIBILITIES

Asbestos was once used in Australia in more than 3,000 different products, and breathing in asbestos fibres can cause asbestosis, lung cancer and mesothelioma.

If asbestos fibres are in a stable material, such as fibro, they pose little health risk. However, when the fibro is damaged or disturbed in some way, fibres can become loose and airborne, and pose a health risk. There are specific laws about working with asbestos. Here is a summary provided by Safework:

## WORKING WITH ASBESTOS

Don't allow workers to work with asbestos, except under prescribed circumstances or until they are properly trained. Also, make sure the exposure standard for asbestos is not exceeded.

## FIND ASBESTOS IN THE WORKPLACE

Get a licensed asbestos assessor, to inspect your workplace for asbestos. If unsure whether it is present, assume it is. If necessary, have a sample checked by a NATA-accredited laboratory. Once identified, make sure all asbestos is clearly labelled.

## KEEPING AN ASBESTOS REGISTER

If your workplace was built before 31 December 2003, you must keep a register that outlines when and where asbestos has been located, what type it is, and what condition it's in. The register should be available to anyone involved in work at the workplace.

## PREPARE AN ASBESTOS MANAGEMENT PLAN

If asbestos has been identified at your workplace, you must prepare and maintain an asbestos management plan, which is reviewed at least every five years or when requested by a health and safety representative or if the asbestos is removed, disturbed, sealed or enclosed. The plan must be available to anyone involved in work at the workplace.

## MONITOR WORKERS' HEALTH

You must provide and pay for health monitoring for all those working with, or exposed to, asbestos.

## TRAIN WORKERS

Your workers must be trained in identifying and handling asbestos safely and understanding suitable control measures.

## WHAT NOT TO DO

When you're working on or near asbestos, you must not use high-pressure water sprays or compressed air – and you must control the use of power tools, brooms or anything else that might release asbestos into the air.



NATURALLY  
OCCURRING  
REGIONAL  
ASBESTOS  
EXPERTS



# FOUND ASBESTOS OR OTHER CONTAMINANTS OF CONCERN? HERE'S WHAT TO DO!

Many exposures in the workplace happen when workers unintentionally disturb hazardous materials. In the event of a significant disturbance or unexpected find, the following steps should be undertaken:

1. Stop work, vacate the immediate area and alert others.
2. Isolate the area and restrict access, ideally with a 10m exclusion zone and sediment controls.
3. Signpost the exclusion zone with asbestos warning signs or similar.
4. Contact Regional Enviroscience 1300 372 436 to assess the area, test the material and provide clear management recommendations.
5. Testing of air, soil water & sediment through a NATA Accredited Laboratory.
6. Assessment & Scope for Managing the contaminant.
7. Clearances or Site Validation required after remediation works to ensure that the area is safe to re-occupy for its intended use.



**STOP WORK,  
VACATE AND ALERT**



**ISOLATE AND  
RESTRICT ACCESS**



**SIGNPOST & EROSION /  
SEDIMENT CONTROL**



**CONTACT ENVIROSCIENCE  
SOLUTIONS**



**SAMPLING OF SOIL,  
AIR AND WATER**



**SCOPE OF WORKS  
REMOVAL**



**CLEARANCE, SITE  
VALIDATION, ONGOING  
MANAGEMENT PLANS**

## OUR LOCATIONS

- Dubbo
- Wagga Wagga
- Tamworth
- Orange
- Newcastle
- Maitland
- Canberra





**1300 372 436**

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