

## New Study Proves that PFAS Remediation using RemBind® is Stable Long-Term

**Adelaide, Australia, 25 February 2021** A ground-breaking study published in the highly regarded *Science of the Total Environment* proves the durability of RemBind® as a remediation solution for soils contaminated with Per- and Polyfluoroalkyl Substances (PFAS). This paves the way for the safe, sustainable, and cost-effective management of PFAS contaminated soils.

In the peer-reviewed study by researchers at the University of Adelaide (<https://doi.org/10.1016/j.scitotenv.2020.144718>), two soils from PFAS-contaminated sites in Australia were treated with 5% RemBind®, a powdered reagent that binds up and neutralises PFAS toxins in soil.

Using US EPA Methods 1313, 1314 and 1320 recognised by regulatory authorities worldwide, untreated and treated soils were subjected to multiple rounds of leaching to simulate years of rainfall under a wide range of environmental conditions.

Results showed that RemBind® was highly effective in significantly reducing the leachable concentrations of all PFAS. For a highly contaminated clay soil, concentrations of leachable PFAS was reduced by up to 99% after remediation. Reductions in a sandy soil were 100%, with no detectable concentrations of PFAS found after remediation.

The authors concluded that this remediation appears robust against changes in pH (2-12), extreme temperatures (-15°C to 45°C), high ionic strength and high concentrations of organic matter in the environment, and that remediation of soils with RemBind® will be stable for extended periods under a wide range of environmental variables that should encompass most site conditions.

To give the greatest level of confidence to site owners and regulatory authorities, the study recommended that *“these simulations should be validated under field conditions over at least a few years”*. This has already been achieved in a separate US field study where PFAS leaching from RemBind® treated soil was monitored using US EPA methods, and no PFAS leaching was detected after more than 22 months.

This independent validation of the long-term stability of RemBind® gives peace of mind to site owners, regulators and future generations that PFAS contaminants will remain permanently neutralised by RemBind®, providing a cost-effective and safe solution for PFAS contaminated soils – this reduces the need for expensive thermal and soil washing technologies, especially for large volumes of PFAS-impacted soils.

### About RemBind Pty Ltd

RemBind Pty Ltd ([www.rembind.com](http://www.rembind.com)) is a technology company headquartered in Adelaide, South Australia. It manufactures and sells RemBind®, a powdered reagent for the remediation of PFAS in soil. RemBind® works by binding strongly to the PFAS contaminants to prevent them leaching into groundwater where they can cause harm to human health and the environment. RemBind® has been successfully applied at full commercial scale in Europe, North America and Australia with full regulatory approvals. The patented RemBind® technology was developed in collaboration with the CSIRO.

### Contact Information:

RemBind Pty Ltd, Media Officer, +61 8 152 9390



Dr Richard Stewart sampling PFAS-impacted soil neutralised with the Australian technology RemBind®



PFAS-impacted soil from a RAAF base being neutralised with the Australian technology RemBind®