



Emily Buckle

Sustainability Director DBA Hydraulics

Qualifications:

Certificate IV in Plumbing and Services, TAFE SkillsTech (2015)

Graduate Diploma in Education (Secondary), Macquarie University (2011)

Bachelor of Science (Honours), University of Technology Sydney (2002)

Bachelor of Science (Environmental Biology), University of Technology Sydney (2001)

Affiliations:

Australian Society for Fish Biology

Association of Hydraulic Services Consultants Australia (NSW) Inc.

Certifications:

Perform Diving for Scientific Purposes (AHCLPW305A)

Boat License (General)

Follow Defined OHS Policies and Procedures (PUAOHS001C)

Plan for Minimal Environmental Impact (SISOOPS304A)

Bronze Medallion / Certificate II in Public Safety (Aquatic Rescue) (PUA21012)

NSW White Card (construction certificate)

Professional Overview:

Emily Buckle has over 10 years' experience as an Environmental Scientist and Hydraulic Services Consultant. Since commencing work at DBA Hydraulics in 2009, Emily has trained on the job to become a Hydraulic Designer whilst also completing a Certificate IV in Plumbing Services. She has expertise in project management, computer modeling, AutoCAD drafting, scientific reporting, research proposals, experimental design and statistical analysis. Additionally, Emily administers the Association of Hydraulic Services Consultants (AHSCA) NSW website and membership database.

Key Skills:

- 🔗 Project management
- 🔗 Water audits
- 🔗 Water network modeling
- 🔗 Advanced digital drafting
- 🔗 Water consumption analysis
- 🔗 Training and education
- 🔗 Experimental design and analysis
- 🔗 Information management
- 🔗 Scientific diving techniques
- 🔗 Data collection and collation

Significant Projects:

- 🔗 **Subtidal survey of fish assemblages** at Wagonga Head, NSW. An underwater census incorporating visual surveys, videography and transects was conducted to develop a list of fish species found within the vicinity of the breakwall (Client: Manly Hydraulics Laboratory).
- 🔗 **Water efficiency modeling.** Development of a sophisticated water consumption benchmarking system and flexible water modeling tools. (Client: Macquarie University)
- 🔗 **Management and operation of coastal environmental data programs** in New South Wales. The work involved the collection, collation and analysis of environmental data (water quality, tidal levels, rainfall and sewerage investigations), along with instrument calibration, routine maintenance of water level stations, data quality assurance, statistical analysis and scientific reporting. (Client: Various. Predominantly Sydney Water and Sydney Catchment Authority)
- 🔗 **Water network modelling.** This is an ongoing project involves the maintenance of water network models and valve schedules for Macquarie University. (Client: Macquarie University)
- 🔗 **Development and maintenance of building services plans.** Services infrastructure drawings were developed using AutoCAD software and include water, fire, gas and electrical services. They are used for planning and maintenance throughout Macquarie University. (Client: Macquarie University)
- 🔗 **Stormwater drainage design** for Reece Taren Point retail center. This project involved the design and documentation of stormwater drainage in accordance with relevant codes, standards and authority requirements. (Client: Steve-Watt Construction Pty Ltd)