



Gabriela Lumiatti

Project Engineer

Gabriela is a Project Engineer with over 4 years of experience in the Australian water industry. As part of the WRL team, she has contributed to a range of projects within the coastal, environmental and hydraulics fields. These include beach scraping feasibility studies; environmental data collection and classification; and 2D and 3D physical modelling testing of stormwater systems and coastal structures. Gabriela is also proficient in the use of spatial data and GIS tools in a range of applications. Prior to joining WRL, she worked in the field of underwater inspections of urban infrastructure assets in Australia, where she managed the entire portfolio of condition assessments and inspection projects applying a detailed analytical approach.

Qualifications

BE Hons 1 (Environmental Engineering), Unesp - Rio Claro, 2015
Diploma of Marketing, MnM Institute - Sydney, 2017

Professional history

2018-Current: Project Engineer, UNSW WRL
2016-2017: Environmental Engineer & Marketing Coordinator, Abyss Solutions
2015: Environmental Consultant, FP Quintães Environmental Engineering, Brazil

Expertise

- GIS investigations
- Environmental engineering
- Coastal processes and management
- Physical model design, construction and testing
- Advanced instrumentation for field & laboratory studies
- Performance testing of stormwater treatment devices
- Environmental data collection
- Inspection and condition assessment of urban infrastructure assets
- Life cycle analysis

Summary of relevant experience

Coastal structures and processes

2022: Pittwater Beach erosion and shoreline recession assessment
2022: Nature based seawalls for Sydney Harbour
2020: Mackerel Beach coastal management options
2019: Umina-Ocean Beach erosion management study
2018: Palm Beach, NSW, scraping feasibility study

2D and 3D physical modelling

2022: Somerset Dam 3D model
2022: Pasay Harbour City physical modelling
2021: Kyowa rock bag seawall physical modelling
2021: DSTORM performance testing
2019: Lake Macdonald Dam 3D model
2019: SPEL Hydrosystem performance evaluation
2019: Halgan stormwater performance testing

Environmental studies

2021: NSW stormwater guidelines
2017: Stormwater discharge analysis, Port of Newcastle
2019: Impacts of oils and greases in ocean environments

Wetland hydrology and restoration

2020: Coastal floodplain prioritisation study, NSW

Numerical modelling

2018: Lucky Bay wave modelling
2020: Sydney deepwater outfalls, NSW

Under/above water asset condition assessment

2017: Ship propeller corrosion quantification
2017: Transport tunnels ceiling inspection
2017: Inspection of sewer rising mains
2017: Water treatment plant baseline study