



PARRAMATTA RIVER REAL-TIME DATA COLLECTION – Data Collection and Quality Assurance

Monitoring program design
Data analysis and near field modelling
Interpretation and reporting

Client: Sydney Water (via Marine and Earth Sciences Pty Ltd)

Dates: March 2021 to April 2022



Project Description:

Sydney Water required real time water quality data collection from two locations in the Parramatta River. Each mooring comprised current speed and direction throughout the water column (using an Acoustic Doppler Current Profiler), conductivity, temperature, depth (CTD) data from three locations in the water column and surface pH, dissolved oxygen, turbidity, chlorophyll-a and phycoerythrin. Data were provided in real-time at 10-minute intervals. Sydney Water required the data to help calibrate and validate a numerical model of a section of the Parramatta River.

Work undertaken by WQ Data:

- Organise and manage to provision of the data to Sydney Water.
- Quality assurance of all data.
- Removal and patching of bad or suspect data.
- Provision of a technical report detailing the operations, problems and interpretation of the data. This included explanations of unusual features observed in the data, particularly those observed during rain events.
- Delivery of quality assured data.

Project outcomes:

- Successful delivery of (virtually) 100% of the data.
- Technical report detailing the work undertaken, problems encountered and supply of the data.
- Some teething problems were encountered in the first day or so of the operations. We undertook additional field trips (at no additional cost to the client) to remedy these problems.

