

CASE STUDY

Surface Water Quality & Real Time Telemetry Flow Monitoring – Point Lonsdale

Quick Facts

Client: WSP Environmental Pty Ltd
Location: Point Lonsdale, Victoria

Date: 2013
Ref: HT 13-3852

Products: Eureka Manta water quality probe, Sontek IQ Plus Acoustic Doppler flow sensor, UniData Telemetry, Mace FloPro Ultrasonic Doppler flow meter, Algae Tow Net

Services: Water Quality, Flow, telemetry, DataStream, Rental, Surface Water Sampling, Algae tow Net Sampling and project management

Assignment

- To undertake continuous water quality monitoring at an interval of 15 minutes, and to collect water quality samples once a fortnight to verify conditions at 5 locations
- Using a handheld flow tracker, continuous flow measurements were taken once every 2 weeks
- Weather conditions were monitored every 15 minutes at 1 location
- DataStream was used as a data management platform to monitor telemetry data from all 5 locations from the Point Lonsdale site.

HydroTerra Solution

- HydroTerra constructed rugged telemetry enclosures that allowed Eureka Manta units, 2 flow meters and a weather station to log data through the DataStream platform, giving WSP data, field notes and photos direct to their office.
- HydroTerra also travelled to site once a fortnight to undertake cleaning and calibration of instruments and to take samples to verify instruments were operating within specified error ranges.

Eureka Manta Probe



UniData Telemetry Enclosure



Field Sampling

