

DESIGNING & IMPLEMENTING CRITICAL CONTROL POINT MONITORING FOR A WATER UTILITY

“We forget that the water cycle and the life cycle are one” – Jacques Cousteau

Industry
Utility

Sector
Water & Sewerage

Segment
Water Quality



Project

- The client manages over \$2bn worth of water and sewerage assets.
- Focusing on Australian Drinking Water Guidelines, the client identified several Water Treatment Plants (WTPs) required Critical Control Points (CCPs) to ensure the effectiveness of barriers to control any potential water quality hazards.
- To implement the CCPs, an upgrade of the existing water monitoring instrumentation was required.
- Instrumentation included Turbidity, pH, Chlorine and Fluoride as well as improvements to the way these instruments initiated their interlock controls in the plant and alarming to their local and state-wide SCADA systems.
- Cromarty Automation was engaged to implement the CCPs.

Solution

Cromarty Automation worked collaboratively with the client to:

- Develop a wet rack design standard.
- Develop electrical design and general arrangement drawings
- Supply and install the analysers complete with accessories onto a new wet rack multi-analyser panel at each WTP.
- PLC & SCADA programming.
- Installation and commission of the CCPs.



Outcome

Due to the installation of the Critical Control Points at the WTPs, the client achieved improved visibility of the CCPs. This contributed to an improvement in management of water quality, increased the operational awareness and assisted in compliance with the Australian Drinking Water Guidelines (ADWG) and resulted in a reduction of CCP breaches.