sgcaustralia

CASESTUDY LEXIA BOREFIELD SCADA UPGRADE

PROJECT PROFILE

The Lexia Borefield is part of the overall Lexia Groundwater Scheme (constructed circa 2001).

The borefield collection system is comprised of twelve (12) operational bores, which all deliver water to the Lexia Groundwater Treatment Plant (GWTP).

PRODUCTS HANDLED

Ground Water

WATERCORP STANDARDS

- DS 42-03 SCADA Radio Equipment and Installation
- DS 42-04 Communications Power Supplies
- DS 80 WCX CAD Standard
- DS 20 Design Process for Electrical Works
- DS 24 Electrical Drafting
- DS 26-09 Type Specification for Low Voltage Switchboards -General Requirements

PRODUCTS USED

- Schneider SCADAPack 535E
- 4RF Aprisa SR+ IP Radios
- Weidmuller DC UPS



SCOPE OF WORKS

The existing hardware and software in these sites have been deemed obsolete and in need of an upgrade which involved:

- Upgrade of existing PLC, RTU and Serial Radio
- Modification of existing panel wiring
- Upgrade of RTU code to latest standard
- Update of bore standard SCADA template
- Installation of new RF Infrastructure
- Installation of new Gateway Cubicle in the GWTP

OUR INVOLVEMENT

Perform in-situ upgrade within the bore control and instrumentation cubicles involving: • Site Audits

- Site Audits
- Electrical design to Water Corporation Standards
 Replacement of existing Miri AD2000 RTU/Radio and Koyo DL205 PLC with
- Schneider Electric SCADAPack 575 RTU and 4RF Aprisa SR+ IP Radio
- Upgrade of IO to latest Water Corporation Standards
 Modification to Motor Control Circuits
- INIODIFICATION TO INIOTOR CONTROL CIRCU
- Installation of new RF Infrastructure
- Design, supply and installation of new Gateway Cubicle in the GWTP
- Onsite commissioning
- As-built Documentation

