



PROJECT REFEREE
 Ray Filardo
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CLIENT
 Eurobodalla Shire
 Council

ROLE
 Principal Contractor

VALUE
 \$5.3M

LOCATION
 Potato Point, NSW

TIME FRAME
 September 2020 –
 current

INDUSTRY
 Wastewater

CAPABILITIES
 Renewals Water &
 Wastewater
 Treatment
 Infrastructure
 Sewer & Water
 Reticulation

Potato Point Sewage Pumping Station, Sewer Rising Main and Water Main

Overview

The SPS and SRM is part of the new sewerage scheme for Potato Point. Potato Point's sewer system is being upgraded to a new pressure system. Sewerage will be collected at the SPS and pumped via the SRM to the Bodalla Sewer Treatment Plant (STP).

The water main upgrade will be in the form of gravity supply main, commencing downstream of the new SPS and running predominately in the same alignment at the sewer gravity main.

Works Undertaken

Sewage Pumping Station

- Construction of a cast in-situ concrete wet well and emergency storage tank
- Access driveway and hardstand areas
- An activated carbon type odour control unit with extraction duct work, volume control dampers, and extraction fan
- Installation of progressive cavity pumps with macerators, flowmeter, and ancillary equipment
- All suction and discharge pipework and valves including the incoming sewer connection from Potato Point
- A Ferric Chloride dosing system including storage tank with built-in containment, dosing pumps, pipework and valves and eye wash unit
- Construction of the pump station building to house the pumps and switch room
- Electrical switchgear and control gear assemblies
- New potable water connection from the town water supply, installation of RPZ and pipework and Wet Well washer system
- Monorail lifting system
- Final connection works at the Bodalla STP

Potato Point Sewage Pumping Station, Sewer Rising Main and Water Main

Sewer Rising Main

- Open Trench Construction of approximately 3,898m of DN75 and DN90 pressure sewer
- Horizontal Direction Drilling of approximately 2,675m of DN75 and DN90 pressure sewer
- Open Trench Construction of approximately 32m of DN315 pipework in a buffer pipe arrangement after the highpoint of the system
- Installation of air release and scour valves in precast concrete pits
- Installation of gate valves
- Construction of flow meter and plug valve pits at Bodalla STP including all pipework, fittings and control systems
- Construction of a DN80 barometric loop/stand pipe at the Bodalla SST
- Final connection works at the Bodalla STP

Water Main

- Open Trench Construction of approximately 5,189m of DN125 water main
- Horizontal Direction Drilling of approximately 1,904m of DN160 water main
- Connection of the DN160 main to the existing Potato Point supply main downstream of the SPS
- Construction of bypass pit and connection of the DN160 main to existing AC pipework at the Big Rock Reservoir to supply to Potato Point
- Connection of the DN160 main to existing AC pipework at the Big Rock Reservoir to receive upstream supply from Bodalla
- Installation of air release and scour valves in precast concrete pits
- Installation of gate valves
- Connection to the existing DN450 supply main at Bodalla

Highlights, Innovations and Key Risks

Key risks included:

- Excavation and pipe laying in proximity to existing infrastructure
- Working within existing roadways
- Directional drilling activities
- Working within a National Park
- Cut-Ins to live services
- Excavation uncovers Aboriginal heritage items