

Dosing System Installation



Bright Group was engaged to supply and install three coagulant dosing systems at Mineral Resources' Wodgina site, including tanks, skids, piping, structural supports, and electrical and instrumentation works, executing all tasks safely and efficiently within a brownfield environment.

Scope of work

The scope of work required us to supply and install three coagulant dosing systems at Mineral Resources' Wodgina site, one for each production train. This included storage tanks, dosing and dilution skids, associated piping, structural supports, and modifications to existing systems, as well as electrical and instrumentation works such as MCC modules, VSDs, and cabling to enable full system operation.

The project was carefully planned and executed within a brownfield environment to minimise disruptions. We self-performed all scaffolding, mechanical, electrical, and instrumentation works, ensuring compliance with safety and quality standards. Full construction verification was completed, and ongoing support was provided to the vendor commissioning team, demonstrating our ability to deliver complex projects safely and efficiently.

Overview

CLIENT

Mineral Resources

LOCATION

Wodgina, Western Australia

SERVICES

SMP, Electrical, Scaffolding

CAPABILITY

Project Services

INDUSTRY

Mining and Resources

Key activities completed

- Supply and installation of coagulant storage tanks and dosing & dilution skids
- Installation of steel and HDPE piping, including modifications to existing systems
- Structural works to support new installations
- Supply and installation of MCC modules and VSDs in substation switch rooms
- Installation of cable support systems and all associated cables for each train



Safety initiatives

Safety was a top priority throughout the coagulant dosing system installation at Wodgina, with zero incidents recorded and full compliance with JHA hold points. Daily pre-starts focused on key risks including working in a brownfield environment, line of fire awareness, and managing shared work fronts. Crews demonstrated proactive safety leadership through effective housekeeping, careful coordination of mechanical, electrical, and instrumentation works, and supporting other teams to ensure all areas were left safer than they were found.

Points of difference

We meticulously planned and executed all works within a brownfield environment, ensuring no disruptions and demonstrating our understanding of the critical importance of uninterrupted operations for the client.

Self-performed all aspects of the project, managing scaffolding, access, and the full scope of mechanical, electrical, and instrumentation works with complete control and accountability.

We provided ongoing support to the vendor commissioning team, ensuring the system operated as intended and met all performance requirements.

“I’m proud of our team for delivering three coagulant dosing systems in a live brownfield environment safely, on schedule, and performing exactly as intended.”

Senior Project Manager, Bright Group