

PROJECT FACT SHEET

Customer: Rio Tinto

Project: Cribs Pilot Plant

Project Profile: Nilsen Engineering Services was the key partner to Rio Tinto Technology and Innovation in successfully building a unique copper extraction pilot plant to test a copper extraction process called heap leaching on ore mined from the company's La Granja mine in Peru.

This was the ultimate design-and-construct project, starting from a concept without technical drawings or building plans.

Operating to a tight budget and timeline within a small site footprint, Nilsen worked collaboratively with Rio's in house project team and other project contractors to create the required technical information and detailed design plans. We also played a key integrative role in melding the plant's various systems into an operating facility. Our work was further complicated by the plant going live three months into the build.

Works included; Manufacture and install main switchboard and distribution boards; Cabling and connection of all VDS, pumps and electrical motors; Selection and installation of 2000amp/6V rectifier in electrowinning room; Instrumentation cabling to 340 instruments and sensors; Installation of Optical Fiber; Power reticulation to 10 hot water units; Installation of earthing grid system; Supply and installation of 10kVA UPS; General lighting and power.

