



CORNELL PUMP COMPANY

APPLICATIONS

MINING



SP SLURRY PUMP IS GOING STRONG AFTER THREE YEARS IN SERVICE

An Australian sand quarry began using a Cornell 6SP rubber-lined slurry pump in May of 2012, and it has run without a seal leak as of 2020! The sand quarry extracts approximately 50 tons per hour of materials fed through the Cornell 6SP as a slurry, then spun in a cyclone separator to remove the usable sand. The detritus is separated from the sand and returned to the quarry area.

The sand is used in general construction projects throughout Australia as fill and often as an additive for concrete production.

The operation is active five days a week, about nine hours daily, pumping a slurry of approximately 30% solids. The rubber liner and impeller help extend the pump life. Since its installation, the 6SP has been subject to more than 9,800

start and stop instances. The pump has worked flawlessly. General wear parts such as the impeller and liner have been replaced in the three years of operation, but the Cyclo Seal® sealing system has not had to be replaced once. No leaks in the sealing system have occurred, and the pump has been in operation for close to 19,000 hours. The quarry manager is very impressed with the durability and reliability of the 6SP and happy that he doesn't have to contend with pump leaks common on competitors' slurry pumps.

The 6SP is part of the SP series, with pumps from 2" to 12", handling pH levels of 1 to 14 (varies depending on the lining and impeller material.) The SP series is available in rubber or metal liners and impellers, with heads up to 235' feet at best efficiency and flows of up to 14,000 GPM, and the ability to handle a 3.5" solid.



Cornell 6SP pump in operation at quarry site sending slurry for sand extraction. The pump has operated with no leaks for almost 19,000 service hours.