

SX Kinetics designed and manufactured this modular SX pilot plant for a project to demonstrate bacterial heap leaching of chalcopyrite ore



Project: sxk-131
Client: Rio Tinto
Location: Utah, USA
Stages: 4
Capacity: 100 L/min of PLS
Recycle: Option for organic or aqueous

Items Provided:

- Modular frames with elevated operator platforms to house the pilot plant
- Mixer-settlers with coalescing baffle, and adjustable aqueous weir
- High efficiency SX impellers coupled to in-line speed reducers and TEFC motors
- Coalescers with multiple layers of coalescer media for removal of entrainment.
- Organic surge tank with aqueous coalescer baffle and LED aqueous indicator
- Exhaust header connected to each tank for removal of organic vapours
- Feed and transfer tanks with low level switches and magnetic drive pumps
- SX feed filters and strip liquor multi-media filters with activated carbon columns
- Crud treatment system with air compressor, crud pumps, filter, and crud tanks.
- Process control to include temperature controllers, level and flow indication
- Completely assembled inside modular frames

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