

SX Kinetics, Inc. designed and manufactured this solvent extraction pilot plant for a copper project in northern Peru. A steel building was also provided for the SX plant.



Project: sxk-72
Client: Rio Tinto & SNC Lavalin
Location: Northern Peru
Stages: 12 extraction, 4 stripping
Capacity: 40 L/min (O+A)
Recycle: option included for aqueous and organic recycle.

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 vessel for removal of organic vapours
- Feed and transfer tanks with magnetic drive pumps
- SX feed and strip liquor filters with a supply of filter media
- 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 and tested prior to shipment

SX Kinetics, Inc.

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