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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