

DENSE MEDIA SEPARATION (DMS)

DIAMOND EXPLORATION SERVICES

SITE FACILITIES AND ENVIRONMENTAL PERMITTING

- Fully serviced and permitted processing facility
- On-site crushing using Cedar Rapids jaw/roll crusher (8" feed/15-20 t/hr capacity)
- Tailings disposal available

DMS PLANTS

- 1 and 15 t/hour throughputs
- 2 x 1 t/hr plants - 100 mm cyclone for recovery of diamonds up to 6 mm
- 1 x 15 t/hr plant – 360 mm cyclone for recovery of diamonds up to 25 mm
- Plant operating efficiency monitored using density tracers

PROCESSING CIRCUIT

- Sample crushing and scrubbing circuits to match DMS capacity
- Scrubbing/desliming @ 0.8 mm bottom screen size
- Recycle/regrind on primary recovery circuit to recover locked diamonds



DIAMOND RECOVERY

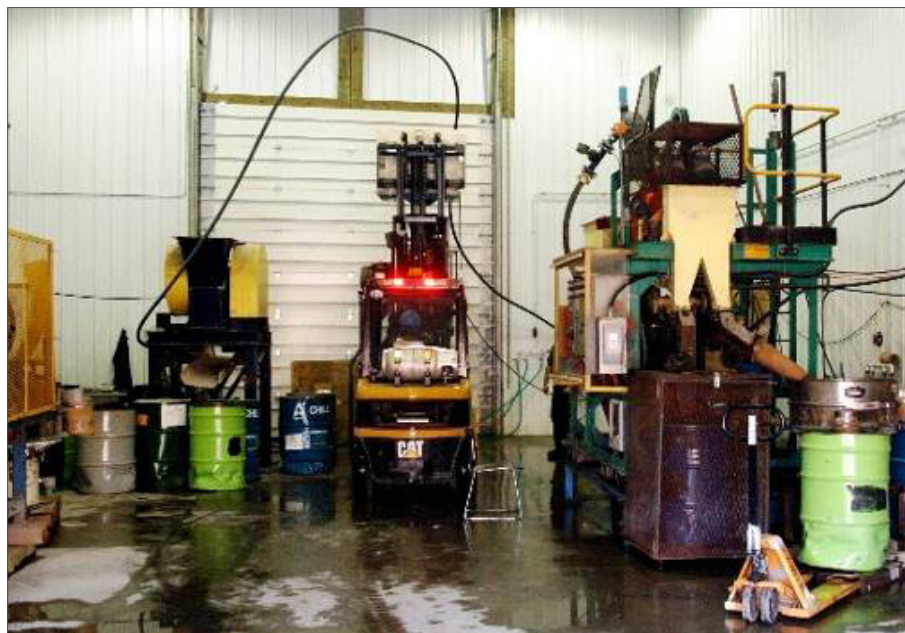
- Grease table and SORTEX™ recovery of diamonds
- Recycle/regrind of DMS tails, grease table and SORTEX™ rejects
- QA/QC program using natural diamond spikes (currently 99.5% recovery)
- Final diamond recovery from grease table and X-ray concentrates in secure, limited access facility
- Caustic dissolution of process concentrates

SITE SECURITY INCLUDES

- Locked compound and coded swipe-card access
- Contract security service: 24 hr/day, 7 days/week
- Multiplex recording facilities with 9 camera portals

CONTACT INFORMATION

Email us at minerals@sgs.com
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WHEN YOU NEED TO BE SURE

SGS