

SGS SERVICES FOR THE FERTILIZER INDUSTRY

OVERVIEW OF SGS' FERTILIZER CAPABILITIES

The fertilizer market segment includes all types of dry bulk fertilizers and chemicals used in agricultural production and elsewhere. SGS has the technical expertise to assist with any fertilizer-related project from exploration to closure.

Our core services and industrial expertise help you improve your operational efficiencies while our global technical leadership helps minimize operational and financial risk. With our global technical network, SGS has the capability to provide you with unrivalled experience through a wide range of services including:

EXPLORATION SERVICES

- Geochemical exploration services
- Project management
- Environmental baseline studies
- Core drilling and logging
- Orebody modeling and resource estimation
- Geometallurgy and metallurgical testing
- NI 43-101 and JORC Technical Reports



ANALYTICAL SERVICES

- Geochemical and related laboratory analysis
- Proficiency testing programs
- Due diligence reviews

PRE-FEASIBILITY & FEASIBILITY SERVICES

- Metallurgical flow sheet development and pilot plant testing
- Geometallurgy and variability studies
- Orebody modeling, resource and reserve estimation and audit
- Process simulation
- Plant design services
- Mine closure planning



PROCESSING SUPPORT

- Grinding
- Gravity and magnetic separation
- Flotation
- Process control systems and audits
- In-plant audits and troubleshooting



PRODUCTION SUPPORT

- On-site laboratories
- High definition mineralogy
- Advanced systems and process control
- Meter and tank calibration
- AHEAD asset management

SAMPLING

- Sample collection, lot sub-sampling and preparation
- Manual and auger sampling
- Mechanical sampling systems

TRADE & INSPECTION SERVICES

- Settlement and umpire services
- Quality inspection
- Visual inspection
- Hold & hatch inspection
- Conditional and bunker survey
- Marine services
- On/ Off hires
- E-Reporting
- Moisture inspection
- Rust evaluation
- Quantity assessment
- Tally grading
- Weight verification and draft survey
- Stockpile inventory management
- Warehousing and Collateral Management Agreements (CMA)

ENVIRONMENTAL SERVICES

- Comprehensive environmental analysis
- Environmental baseline studies, auditing and permitting
- Water usage, testing and treatment services
- Industrial hygiene, silica, dust, air quality and noise analysis
- Land reclamation and mine closure planning
- Greenhouse gas emission verification

CROP SERVICES

- Laboratory services
- Research services
- Fertility management

AUDITING & CERTIFICATION

- Benchmark new suppliers
- ISO 9001:2008 Quality Management Systems
- ISO 14001:2004 Environmental Management Systems
- OHSAS 18001 Occupational Health and Safety Management System
- BS EN 16001:2009 Energy Management

CONTACT INFORMATION

Email us at minerals@sgs.com
www.sgs.com/mining

