

# SGS SERVICES FOR THE **COAL INDUSTRY**

## AN OVERVIEW OF SGS' COAL CAPABILITIES

SGS works hand-in-hand with your operations to provide cost-effective solutions to minimize operational and financial risk. Our global technical leadership and industrial expertise provides an unrivalled global benchmark of experience and value and help you control your coal operations. SGS has the capability to provide you with a wide range of services including:

### LABORATORY TESTING

- Proximate, ultimate and the full range of coal, ash and mineral analysis
- Solid biomass analysis
- Sink-float/washability testing
- High Definition Mineralogy including reflectance studies
- Physical and particle size analysis
- Toxicity and TCLP testing
- Coke strength and stability testing
- Rheology testing
- Analysis of steam coal, pet and met coke and ash
- Operating on-site and near-site laboratories
- Proficiency test programs
- Customized quality assurance programs, audits and training

### SAMPLING SERVICES

- Sample collection
- Lot sampling
- Channel sampling
- Manual and auger sampling
- Design, construction and operation of mechanical sampling systems
- Sampling system audits and preventative maintenance
- Bias testing

### TRADE SERVICES

- Hold inspection
- Loading and discharge supervision
- Rail, vessel and barge assessment
- Vessel and barge gauging
- Draft surveys
- Quality and quantity evaluations

### COAL PREPARATION PLANT SERVICES

- Plant audit/efficiency tests and plant sampling
- Optimization and troubleshooting consulting
- Process simulations

### REAL TIME ANALYSIS

- Design, commission, install, operate and calibrate on-line analysis systems
- Real-time control of quality using sorting and blending systems
- Engineering services to develop capital justifications for these systems

### RESERVE EVALUATION

- Design of drilling programs, logging and core sampling
- Core analysis
- Geostatistics and reserve calculations
- Mapping of deposit variability
- Conditional simulation and evaluation
- Moisture-holding capacity and rank determination
- Rock mechanics and geotechnical testing
- Coal bed methane gas analysis



**ENVIRONMENTAL SERVICES**

- Comprehensive environmental analysis
- Air, water and soil hazard analysis
- Environmental baseline studies, monitoring and auditing
- Water and effluent testing, treatment and management
- Independent data hosting
- Acid rock drainage prediction and mitigation
- Environmental mineralogy
- Industrial hygiene, silica, dust, air quality and noise analysis
- Greenhouse gas emission verification
- Land reclamation and mine closure planning

**AUDIT AND CERTIFICATION**

- ISO 14001:2004 environmental management systems
- ISO 9001:2008 quality management systems
- OHSAS 18001:2007 occupational health and safety management systems
- BS EN 16001:2009 Energy Management



**CONTACT INFORMATION**

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WHEN YOU NEED TO BE SURE

