BHP Billiton
Building a world class potash business

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Key messages

- Strong financial position with a long term focus
- Targeting potash production of 16 mtpa with room to grow
- Jansen Project start up projected in 2015
- Leveraging technology to ensure delivery
- Port, logistics and marketing plans well advanced
Diversified by commodity, geography and customer

- **Aluminium**
  - Aluminium operations across all three stages of the value chain

- **Iron Ore**
  - One of the world’s premier suppliers of iron ore

- **Base Metals**
  - One of the world’s largest producers of silver, lead and copper

- **Manganese**
  - Operations produce a combination of ores, alloys and metal

- **Stainless Steel Materials**
  - Supplies nickel to the stainless steel industry

- **Metallurgical Coal**
  - Produce and market high quality hard coking coals for the international steel industry

- **Energy Coal**
  - One of the world’s largest producers and marketers of export thermal coal

- **Petroleum**
  - A significant oil and gas exploration and production business

- **Diamonds & Specialty Products**
  - EKATI Diamond Mine, titanium minerals, Potash development and exploration

- **Uranium**
  - Olympic Dam is the world’s largest uranium deposit

*Project and Exploration activities are not shown on this map.*
Extensive land holding in the world’s premier potash basin

BHP Billiton potash tenements (~14,500 km²)

- Burr
- Jansen
- Young
- Boulder
- Melville
A global potash business

• Based in Saskatchewan with a significant project hub in Toronto

• Intensive project selection and definition process combined with a comprehensive exploration program underpins a commitment to grow this business to 16 mtpa, and beyond

• Total of ~US$2 billion invested in potash in Saskatchewan in the past four years

• Jansen Project most advanced

• Young and Melville projects are in the concept study phase

• Exploration work is continuing at Boulder and Burr and in other areas

• Logistics and marketing to serve customers around the world well advanced

![BHP Billiton potash production profile](image)

BHP Billiton potash production profile
(KCl million tonnes per annum)

- Jansen current development plans
- Other development options

Note: Conceptual representation of our conveyor belt of growth options.
Jansen Project

- Conventional underground mine
- SNC-Lavalin retained as EPCM contractor
- All shaft sinking contracts in place
- Saskatchewan Ministry of Environment has approved the EIS
- Submission to Board for approval to proceed to execution expected 2012
- First production targeted in 2015
- To be built in stages to grow to 8 mtpa capacity in ~8 years
Jansen stage 1 project – site (January 2012)

- ~250 people on site
- 89 freeze and monitoring wells have been drilled for the ground freezing program to enable sinking of shafts
- Freeze plant construction completed in August 2011
- Ground freezing commenced in September 2011 and the outside diameters of the shafts are now completely frozen
- Production facilities site preparation commenced September 2011
- Shaft excavation commenced
Jansen shaft sinking technology

- High sinking rates, expected to average approximately three metres per day
- Step change in safety with the removal of personnel from the shaft bench
- Integrated mechanical excavation, muck removal and ground support installation
- Full exploitation of sedimentary geology through mechanical excavation
- Engineering currently 85 per cent complete, fabrication is well underway
- Planning a full scale test in 1H 2012
Multiple pass mining

- Conveyor design needs to facilitate the goal of keeping the borers producing
- Borer design minimizes the setup time for conveyor establishment
- Highest productivity unit available in the market
- Manages the adjustable height required for the Jansen ore body
- Single pass mining in the vertical plane minimizes safety exposures
**Project description – Stage 1 scope**

**Mine and plant site**
- Two 6.5 metre shafts to about 1 kilometre depth
- Fully equipped service shaft, head frame and hoist
- Six underground borers
- 10,000 tonne raw ore storage
- Tailings management system
- Processing plant
- Partial administration/mine dry/maintenance facilities

**Infrastructure on site**
- 100,000 tonne product storage building
- Rail loading facility
- Site accommodation
- Utility tie-ins (power, water, gas)
Jansen – complete

Artist’s impression Jansen surface structures at capacity

Tim Cutt, President Diamonds and Specialty Products, 19 January 2012
Port, logistics and marketing

- Port of Vancouver, Washington USA, selected as preferred port location
- Permitting process under way
- In discussions with Canadian Pacific and BNSF for rail haulage
- New generation rail cars – continuous loading and unloading to speed up delivery
- BHP Billiton’s model includes independent and customer-focused marketing. We intend to market our own potash production
Building a world class potash business

- Great portfolio of projects in Saskatchewan
- Global experience to build capacity for 16 mtpa and beyond
- Jansen is on track to be a modern high capacity mine starting production in 2015
- Jansen and our other potash developments are backed by the balance sheet of BHP Billiton
- Logistics and marketing experience will leverage new technologies to ensure efficient and safe delivery to customers around the world