

GEMFIELDS

Gübelin Gem Lab partners with GEMFIELDS to introduce Emerald Paternity Test



London, 27 March 2017

A new traceability technology creating independent proof of provenance for emeralds.

The Emerald Paternity Test is a true game-changer for the coloured gemstone industry. This new technology uses customised DNA-based nanoparticles enabling traceability of emeralds back to the exact place of mining.

This breakthrough technology uses DNA-based nanoparticles that are applied directly at the mine, onto the rough emerald crystals. Developed specifically to survive the usual procedures, which an emerald undergoes before reaching the end consumer (such as cleaning, cutting, polishing, transportation, setting), the nanoparticles can be retrieved and decoded at any stage along the supply chain. This technology offers miners (both big corporates and cooperatives of small and artisanal miners), governments, trade organisations, industry watchdogs, jewellery brands and final customers a completely new level of transparency when sourcing emeralds, instilling confidence and creating trust.

The Gübelin Gem Lab invited Gemfields, a leading producer of responsibly sourced coloured gemstones, to join the project as a test partner. Gemfields is the majority owner of Kagem, the world's largest emerald mine and thanks to Gemfields' already robust supply chain and established standards of responsible sourcing, they were chosen to help provide the testing conditions for the technology in the field.

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ENQUIRIES:

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About GEMFIELDS:

Gemfields is a leading supplier of responsibly sourced coloured gemstones.

Gemfields is the operator and 75% owner of both the Kagem emerald mine in Zambia (believed to be the world's single largest producing emerald mine) and the Montepuez ruby mine in Mozambique (one of the most significant recently discovered ruby deposits in the world). In addition, Gemfields also holds a 50% interest in the Kariba amethyst mine in Zambia, as well as controlling interests in various other gemstone mining and prospecting licenses in Zambia, Mozambique, Colombia, Ethiopia, Madagascar and Sri Lanka.

Gemfields' outright ownership of Fabergé an iconic and prestigious brand of exceptional heritage enables Gemfields to optimise positioning, perception and consumer awareness of coloured gemstones, advancing the wider group's "mine and market" vision.

Gemfields has developed a proprietary grading system and a pioneering auction and trading platform to provide a consistent supply of quality coloured gemstones to the global downstream markets. This is a key component of the company's business model and has played an important role in the appropriate distribution and associated resurgence of the global coloured gemstone sector.