VERACIO™ BY BOART LONGYEAR™ | Case Study

Junior Explorer,
USA, 2023

US$1Bn Capital Cost Reduction

By harnessing the power of Scan by Veracio's XRF and our Global network of Geoscientific Experts, a Project in the USA was able to identify substantial cost-saving opportunities through ore sorting during the study phase.

Optimizing Capital Profile, Mining Footprint and ESG levers through an Ore Sorting Amenability Study

The ore sorting amenability study, facilitated by the unique capabilities of Scan by Veracio (formerly TruScan), revealed that a substantial portion of the total mined mass was barren or near-barren, while the majority of recoverable metal was concentrated in a smaller fraction of the ore.

By uncovering the distribution of valuable metals within the orebody, the company was able to strategically plan an ore sorting circuit, leading to significant capital cost reductions and improved mine economics.

> *"Our approaches to selective mining, preconcentration (sorting) circuits and flowsheet design were informed by Scan by Veracio's unique ability to capture the orebody's small-scale variability in chemistry. Capturing grade deportment at sub-block granularity. Scan by Veracio appears to be the only tool in the world capable of this."*
>
> Gavin Yeates
> FAusIMM CP
> Mine Strategy Consultant

SCAN BY VERACIO'S UNIQUE CAPABILITIES

Sub-block size sampling and high-resolution assessment of grade deportment, makes Scan by Veracio a critical technology during the study phase for ore sorting amenability assessments.

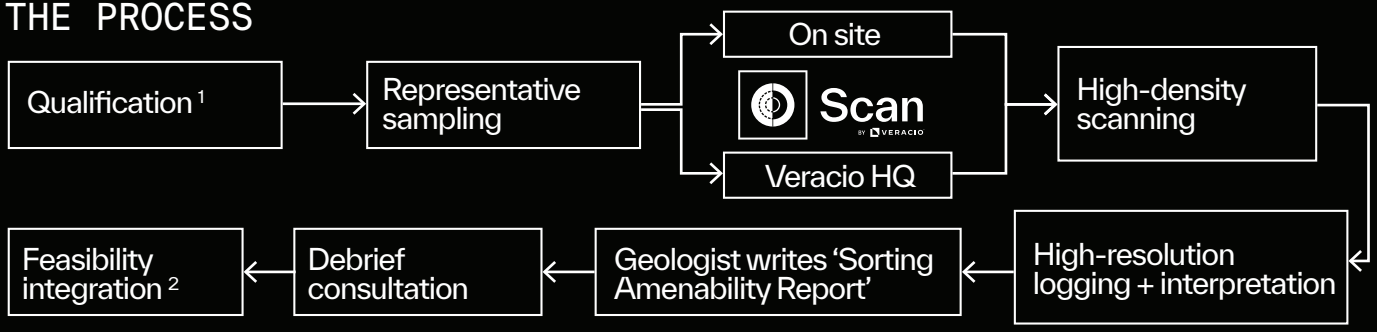
ENABLED DESIGN DECISIONS

Armed with this critical insight, the Junior mining company incorporated an ore sorting circuit into their feasibility study, allowing for a more targeted and efficient extraction process.

CAPITAL COST REDUCTION

As a result of the ore sorting study, the company was able to reduce the capital cost profile by over USD$1 billion, optimizing the project's economics. and enhancing its overall viability.

THE PROCESS



1. Please note that while TruScan offers a wide geochemical range, XRF technology is limited in its ability to measure popular elements such as Gold and Lithium.
2. Illustrative purposes only, Feasibility Integration is the responsibility of the client

Completed using:

TruScan™