

CAPABILITY STATEMENT:
MINERAL RESOURCE ESTIMATION

From geological data to a defensible Mineral Resource estimate.

Geological interpretation, geostatistical analysis, and resource modelling that turn complex geological data into reliable estimates, supporting informed mine planning, investment decisions, and resource reporting.

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THE VALUE OF AN ESTIMATE IS IN THE DECISION IT SUPPORTS.

A Mineral Resource estimate can influence exploration investment, mine planning, technical disclosure and the next project stage. Changes in data quality, geological interpretation or estimation assumptions can materially affect reported grade and tonnage.



FROM GEOLOGICAL UNCERTAINTY TO A CLEARER TECHNICAL BASIS

Our role is to make the evidence traceable, the uncertainty understandable, and the implications clear to the people making the next decision.

01

EXPLORATION INVESTMENT

02

MINE PLANNING

03

RESOURCE DECLARATION

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START WITH EVIDENCE THAT CAN BE TRUSTED

Reliable estimates begin with reliable inputs. VBKOM consolidates exploration, sampling, and analytical data, then tests that information before it is carried into a geological model.

DATA INTEGRITY

Raw and desurveyed drillhole records are checked for duplicate entries, overlapping intervals, elevation errors and survey inaccuracies.

A defined data cut-off establishes which information is used.



GEOLOGICAL INTERPRETATION & DOMAINING

Structural, lithological, weathering, and grade boundaries inform three-dimensional wireframes and estimation domains. Verified interpretations guide drillhole coding and sample compositing.

A DEFENSIBLE ESTIMATE IS BUILT IN STAGES

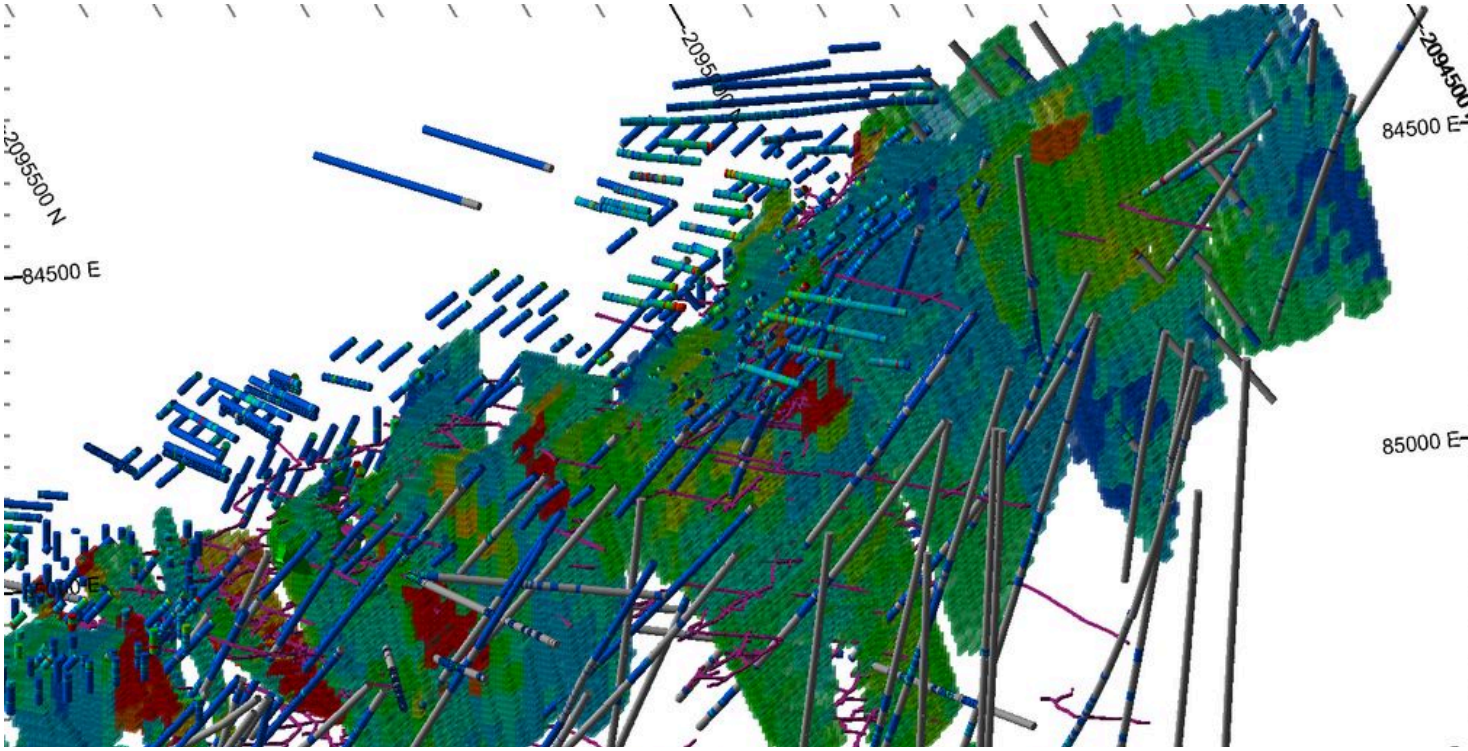
Each stage tests a different part of the technical picture. The value lies in how the information, interpretations, and estimates hold together under review.

DATA PREPARATION	Validation, cut-off and quality checks.
GEOLOGICAL MODEL	Domains, wireframes, and compositing.
STATISTICS	Distributions, skewness, and populations.
VARIOGRAPHY	Continuity by distance and direction.
BLOCK MODEL	KNA, size, and parameter optimisation.
ESTIMATION	Linear or non-linear techniques.
VALIDATION	Local trends, global means and support.
CLASSIFY & RECONCILE	Grade-tonnage, reporting, and updates.

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BUILD THE MODEL.
TEST THE RESULT.

Block model dimensions and estimation parameters are selected in relation to geological geometry and drillhole spacing. Kriging Neighbourhood Analysis (KNA) and conditional bias statistics can inform parameter optimisation.



ESTIMATE

Linear and non-linear estimation approaches are applied as appropriate to the dataset and deposit.

VALIDATE

Local grade patterns, global means, distributions, spatial trends, and changes in support are reviewed.

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REPORT THE RESOURCE WITH APPROPRIATE CONFIDENCE

A defensible declaration should communicate the limits of the data as clearly as the estimate itself. Classification reflects geological knowledge, data quality, continuity, and estimation confidence. VBKOM also offers independent Competent Person and Qualified Person reporting, where applicable

DATA & CONTINUITY

Geological understanding, data spacing and sample quality underpin the confidence assessment.

GRADE & TONNAGE

Cut-off grades, exclusions and grade-tonnage sensitivities clarify the implications of reporting assumptions.

CLASSIFICATION

The resource category reflects the level of confidence justified by the available evidence.

REPORTING FRAMEWORKS

SAMREC | JORC | NI 43-101 | S-K 1300

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KEEP THE MODEL CONNECTED TO MINING REALITY

Reconciliation compares updated estimates with earlier declarations and depleted mining tonnages. Understanding these changes can guide model updates, infill drilling, and exploration.

VBKOM also provides grade control modelling and support for operational Mineral Resource teams.



THE FEEDBACK LOOP

EARLIER DECLARATION

Historical grades, tonnes, and assumptions.

NEW EVIDENCE

Mining depletion, sampling, and drilling.

UPDATED UNDERSTANDING

Explain changes and refine priorities.

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MAKE THE NEXT DECISION ON A DEFENSIBLE BASIS.

Whether you are defining a deposit, updating a Mineral Resource declaration, or assessing the next project stage, speak to VBKOM about the evidence, uncertainty, and confidence behind your estimate.

LET'S TALK ABOUT YOUR RESOURCE ESTIMATE

Talk to VBKOM about the geological evidence, estimation uncertainties, and reporting requirements behind your next Mineral Resource declaration.

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