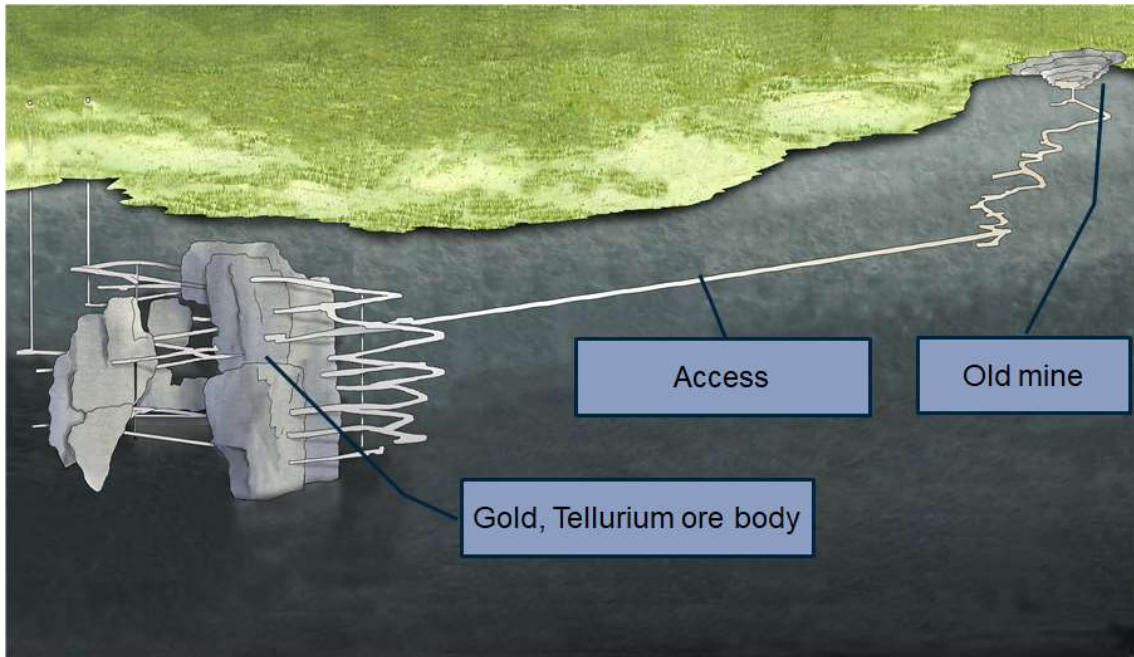


# Boliden Summary Report

Mineral Resources and Mineral Reserves | 2024

## Kankberg



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Prepared by  
Birger Voigt & Suzanna Falshaw

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## 1 SUMMARY

This annual summary report concerns Boliden’s wholly owned Kankberg mine (Sweden) and is a summary of underlying technical reports which have been prepared in accordance with the guidelines set out in the Pan-European Reserves and Resources Reporting Committee (PERC) “PERC Reporting Standard 2021”. The report is updated and issued annually to provide the public (stakeholders, shareholders, potential investors and their advisers) with:

- An overview of the Kankberg mine and Boliden Area Operations; and
- Mineral Resource and Mineral Reserve statements for the mine and an overview of methods used to estimate these.

A summary of Mineral Reserves and Mineral Resources is presented in Table 1. The block model that was used as a basis for the estimation of Mineral Resources and Mineral Reserves was prepared in November 2023 and updated with new metal prices in February 2024.

The effective date of this report is 31 December, 2024.

Table 1: Mineral Reserves and additional Mineral Resources from the Kankberg Mine 31-12-2024 and comparison against previously reported on 31-12-2023.

Classification	2024					2023				
	kt	Au (g/t)	Ag (g/t)	Te (g/t)	Bi (g/t)	kt	Au (g/t)	Ag (g/t)	Te (g/t)	Bi (g/t)
<b>Mineral Reserves</b>										
<b>Proved</b>	1 900	3.6	11	200	99	1 900	3.7	12	204	100
<b>Probable</b>	2 600	3.3	6	145	100	1 900	4.0	7	183	125
<b>Total</b>	4 500	3.4	8	168	100	3 800	3.8	9	194	113
<b>Mineral Resources</b>										
<b>Measured</b>	210	4.1	9	154	101	170	4.4	10	156	103
<b>Indicated</b>	460	4.1	6	192	134	190	5.4	8	204	135
<b>Total M&amp;I</b>	670	4.1	7	180	124	360	4.9	9	182	120
<b>Inferred</b>	850	3.0	5	117	79	870	4.0	6	158	98

See also Section 3.14, ‘Comparison with previous year’.

- *Mineral Resources are reported exclusive of Mineral Reserves.*
- *Mineral Resources and Mineral Reserves are summaries of resource estimations and studies made over time adjusted to mining situation of December 31.*
- *Mineral Resources are reported as inside optimized stopes above a cut-off NSR value of 400 SEK/t and inside solids Outside\_LoMP 2024.*
- *Mineral Resources include dilution from blocks with an NSR below 400 SEK/t that falls within optimized stopes.*
- *Mineral Resources include sill pillars and Inferred Mineral Resources that lie both within and outside the LoMP.*
- *Mineral Reserves are selected and reported from the parts of the block model which fall within mining design volumes (LoMP).*

- *Mine design is guided by a cut-off of 520 SEK/t for sublevel stoping and a cut-off of 620 SEK for cut and fill, as a basis for conversion to Mineral Reserves.*
- *Existing tailings capacity is sufficient to include material from the LoMP up to and including 2029. Application of new tailings storage solutions beyond 2029 is submitted to competent authorities and is expected to be decided during 2025.*
- *Tonnes and grades are rounded which may result in apparent summation differences between tonnes, grade and contained metal content.*

## 1.1 Competence

The compilation of this report has been completed by a team of professionals who work directly for Boliden Mineral AB and are listed as contributors in Table 2, along with responsible Competent Persons (CP).

Table 2. Contributors and responsible competent persons for this report

Report Section	Contributors	Competent Persons
Overall report compilation	Birger Voigt	Gunnar Agmalm
Geology	Birger Voigt, Susanne Holmen Fröberg	
Resource Estimation	Suzanna Falshaw	Suzanna Falshaw
Mineral Processing	Markus Hedlund	
Mining & Reserve Estimation	Kenneth Nyström	
Environmental and legal permits	Marcus Sundin	Seth Mueller

The report has been verified and approved by Gunnar Agmalm who is employed by Boliden as Senior Project Manager and has over 30 years of experience in the mining industry. He is a member of the Australian Institute of Mining and Metallurgy (AusIMM) and Fennoscandian Association for Metals and Minerals Professionals (FAMMP) and qualified as a Competent Person under PERC.

Suzanna Falshaw is employed by Boliden as a Senior Resource Geologist and has over 10 years of experience in the Exploration and Mining industry. Suzanna is a member of AusIMM and qualified as a Competent Person under PERC.

Seth Mueller is employed by Boliden as a Specialist Engineer in the Sustainability Department with over 20 years of experience in geochemistry, water management, and environmental permitting. Seth is a Competent Person under PERC for reporting of Environmental Aspects and a professional member of FAMMP.

## 2 GENERAL INTRODUCTION

### 2.1 Introduction

This report is issued annually to inform the public (shareholders and potential investors) of the mineral assets in the Kankberg mine held by Boliden Mineral AB (Boliden). The report is a summary of internal / Competent Persons' Reports for Kankberg. Boliden's method of reporting Mineral Resources and Mineral Reserves intends to comply with the Pan-European Reserves and Resources Reporting Committee (PERC) "PERC Reporting Standard 2021".

The PERC Reporting Standard is an international reporting standard that has been adopted by the mining associations in Sweden (SveMin), Finland (FinnMin) and Norway (Norsk Bergindustri), to be used for exploration and mining companies within the Nordic countries.

## 2.2 Boliden is reporting Mineral Resources exclusive of Mineral Reserves. Pan-European Standard for Reporting of Exploration Results, Mineral Resources and Mineral Reserves – The PERC Reporting Standard

PERC is the organization responsible for setting standards for public reporting of Exploration Results, Mineral Resources and Mineral Reserves by companies listed on markets in Europe. PERC is a member of CRIRSCO, the Committee for Mineral Reserves International Reporting Standards, and the PERC Reporting Standard is fully aligned with the CRIRSCO Reporting Template.

The PERC standard sets out minimum standards, recommendations and guidelines for Public Reporting of Exploration Results, Mineral Resources and Mineral Reserves in Europe.

## 2.3 Definitions

Public Reports on Exploration Results, Mineral Resources and/or Mineral Reserves must only use terms set out in the PERC standard.

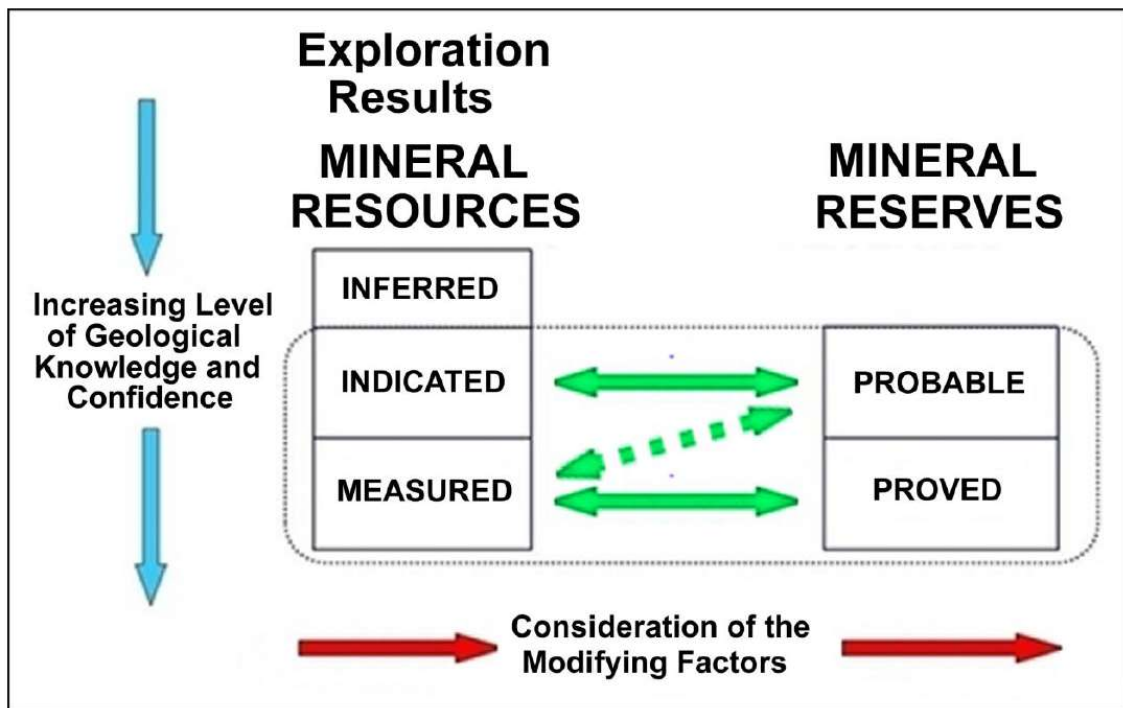


Figure 2.1. General relationship between Exploration Results, Mineral Resources and Mineral Reserves (PERC 2021)

### 2.3.1 Mineral Resource

A Mineral Resource is a concentration or occurrence of solid material of economic interest in or on the Earth’s crust in such form, grade or quality and quantity that there are reasonable prospects for eventual economic extraction (RPEEE). The location, quantity, grade or quality, continuity and other geological characteristics of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge, including sampling.

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### 2.3.2 Mineral Reserve

A Mineral Reserve is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at Pre-Feasibility or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be justified.

## 3 KANKBERG

### 3.1 Project Outline

The Kankberg mine is located 41 km northwest of Skellefteå in Västerbotten county, northern Sweden. Ore is hosted by an alteration zone in a suite of felsic volcanic and volcanoclastic rocks.

In 2024, Kankberg mined 455 kt of ore with an average grade of 3.82 g/t Au, 10 g/t Ag and 172 g/t Te. In 2024 the processing of Kankberg ore delivered 2t of payable gold. The mine has been producing continuously since 2012 through underground cut and fill methods. In late 2024, production through sublevel stoping method was initiated. Mining takes place between depths of -612 m and -300 m level, via a ramp-drive system from the historic Kankberg open pit mine to the north. The mine's lifetime production amounts to 5 260 kt of ore, with an average grade of 3.63 g/t Au, 9.6 g/t Ag and 164 g/t Te.

Production from Kankberg is stockpiled on surface before being trucked to the Boliden Area Operations Processing Plant (BAOPP), a distance of 10 km from the mine. Processing is carried out in campaigns or batches, each of which may take a few weeks. Tailings from Kankberg is deposited at the Hötjärn tailings management facility close to the BAOPP.

Concentrates and precious metal sludge containing gold and silver from the BAOPP are transported roughly 50 km to Boliden's Rönnskär smelter at the port of Skelleftehamn, from where the refined metals are marketed. Tellurium is sold as a concentrate mainly to China.

### 3.2 Major changes

#### 3.2.1 Technical studies

The technical studies during the year can be summarized as follows:

- Metallurgical tests on material below the old Åkulla Östra mine are ongoing and expected to be completed in Q1 2025. This is outside the reported area for Mineral Resources and Mineral Reserves.

### 3.3 Location

The Kankberg mine is located at latitude 64°55'20" N longitude 20°16'00" E in the north of Sweden, the province and county of Västerbotten and in the Skellefteå Municipality.

A road and topography map of the Kankberg - Boliden area is presented in Figure 2. The coordinate system used here is the Svenska Rikssystemet RT 90 2.5 gon väst, and is the older national standard, but is similar to the present national cadastral standard SWEREF99 TM. The location of the 'New' i.e. present Kankberg mine is shown as a blue mine symbol, while the 'Old' Kankberg Mine, which provides access, is shown as an exhausted (upside-down)

mine symbol. Ore from the mine is transported 10 km southeast to the Boliden Area Operations Processing Plant (BAOPP), shown as a blue square near the small town of Boliden.

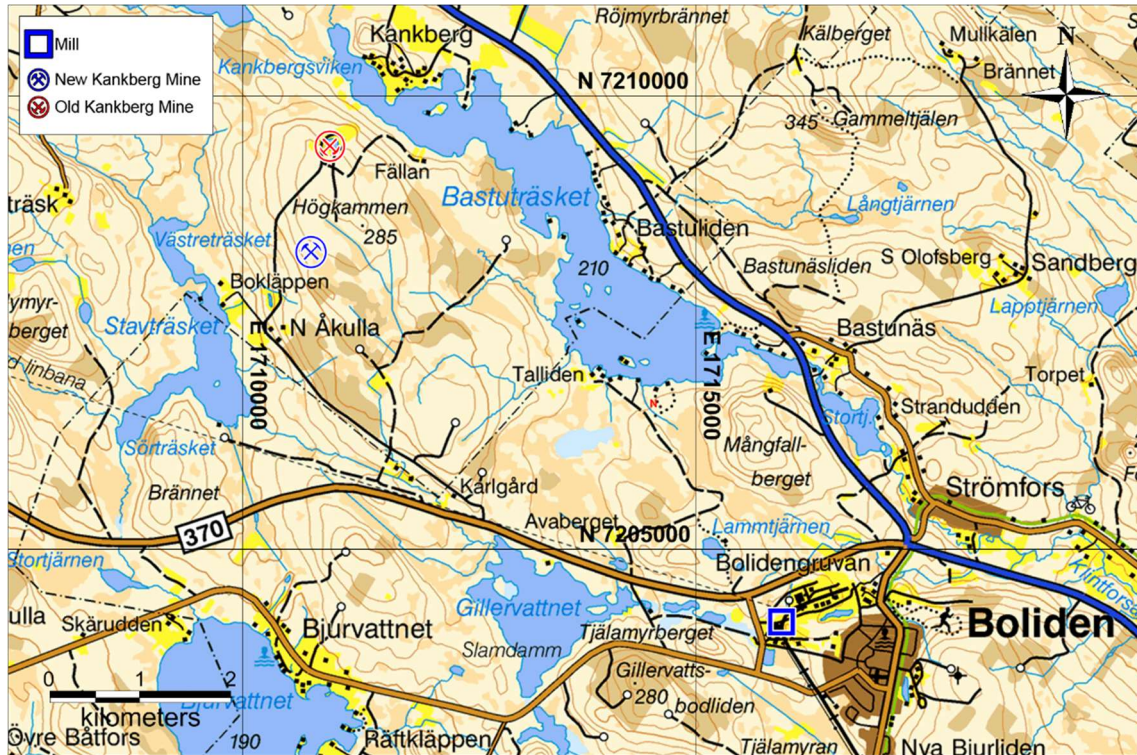


Figure 2: Index Map of the “Kankberg - Boliden” area

### 3.4 History

Sulfide-hosted copper, gold, silver and zinc were mined from the three historic open pits; Åkulla Östra, Åkulla Västra and Kankberg gruvan, which is now also called ‘The Old Kankberg Mine’. Respectively, their ore tonnages were 197 kt, 967 kt and 1.17 Mt. The former two open pits were mined during 1997 to 1998 and 1947 to 1956 respectively. These open pits have been filled and reclaimed. The Old Kankberg Mine was mined in two periods, from 1966 to 1969 and 1988 to 1998. This pit now provides access to the (New) Kankberg Mine, via a decline ramp from the base of the pit to the underground orebody.

Mineralization characteristic of the Kankberg gold mine was first intersected by drilling in 1995 and was followed by exploration development in 1997. Systematic drilling and metallurgical test work culminated in a feasibility study, which was completed in January 2011. Production from Kankberg commenced in January 2012.

### 3.5 Ownership and Royalties

Boliden owns the land and has full surface rights surrounding and immediately adjacent to the mine. The main relevant plots are Kankberg 1:35 and Akulla 1:9, Boliden also owns surrounding plots. Since Boliden owns all relevant surface and mineral and mining rights, only an annual royalty of 0.05% is payable to the State, based on contained metal in run of mine ore and average commodity price over the year. No landowner royalties are payable.

## 3.6 Environmental, Social and Governance (ESG)

### 3.6.1 Existing Permits

Boliden Mineral AB is in possession of all required permits to mine at the Kankberg Mine and the necessary land use designation from the Mining Inspectorate. Mining concessions and exploration permits are issued by the Mining Inspectorate of Sweden (Bergsstaten) which is part of the Geological Survey of Sweden (SGU). Summary details of these permits and concessions are presented below and can be found at <https://www.sgu.se/en/mining-inspectorate/>.

#### 3.6.1.1 Exploitation Concessions

Exploitation concessions at Kankberg held by Boliden Mineral AB are presented in Table 3 below.

Table 3: Mining concessions at Kankberg held by Boliden Mineral AB

Name	Diary No.	Area (ha)	Valid from	Valid to
Östra Åkulla nr 1	BS 22-66-2000	45.1598	2001-02-05	2026-02-05
Östra Åkulla nr 2	BS 22-945-2009	2.8158	2009-11-10	2034-11-10
Kankberg K nr 1	BS 22-694-1998	95.384	2000-01-01	2035-01-01
Åkulla K nr 1	BS 22-64-2000	33.7698	2001-02-05	2026-02-05

It is notable that two of these concessions are due to expire in 2026, some ten years prior to the end of forecast production, according to the current life of mine plan (LoMP). Boliden intends to apply for a ten-year extension to these licenses in good time and in accordance with standard operating procedure. Whilst the detailed terms of any extension are uncertain at this stage, Boliden is not aware of any current or impending material impediments that would negatively influence a decision from the relevant permitting authorities and would reasonably expect an application for extension to be granted.

#### 3.6.1.2 Exploration Permits

Table 4 presents the exploration permits held by Boliden in the Kankberg area.

Table 4: Exploration permits held by Boliden Mineral AB in the nearby area of the Kankberg Mine

Name	Diary No.	Area (ha)	Mineral	Valid from	Valid to
Kankberg nr 1006	BS 200-666-2017	358.20	Au, Cu	2017-11-07	2025-11-07
Kankberg nr 1007	BS 200-745-2018	222.62	Au, Cu, Zn	2018-11-14	2026-11-14
Gillervattnet nr 1007	BS 200-88-2016	293.83	Au	2016-04-14	2028-04-14
Gillervattnet nr 1006	BS 200-67-2016	266.73	Au	2016-03-10	2028-03-10

#### 3.6.1.3 Environmental Permits

In accordance with the Environmental Law, a new permit was approved 2023-11-16, case nr. M2636-22. The permit entered legal force 2024-02-01.

The permit cover matters including:

- Condition 1: “Unless otherwise provided by this judgment, facilities, etc., shall be constructed and the operations – *including measures to reduce water and air pollution and other disturbances to the surroundings* – shall be designed in substantial compliance with what Boliden Mineral AB has presented in its application in the case and otherwise stated or undertaken”



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- Extraction of up to 650 ktpa for existing and expanded operations
  - Backfill with waste rock, tailings, sludge from water treatment, or paste
  - Diversion of infiltrating groundwater from the mine and installation of facilities needed for this diversion
  - Diversion of groundwater for shower and wash water, etc.,
  - Deepen, re-route, and fill in existing ditches and construct new ditches
  - To store a maximum of 150 ktonnes of ore and 80 ktonnes of backfill material at any one time
  - Adhere to maximum total concentrations of elements in discharged water (there is no limitation on quantity)
  - The provided security in the form of a bank guarantee dated October 2, 2023 (DNB Bank ASA, Sweden branch bank guarantee no. 00420-02-0006923) amounting to SEK 49 114 000, as security for Boliden Mineral AB's obligations for remediation of environmental damage and other restoration measures.

### **3.6.2 Necessary Permits**

The capacity of the tailings management facility at BAOPP is sufficient to include material from the LoMP up to and including 2029. The final years of production are expected to exceed the existing tailings dam capacity. Application of new tailings storage solutions is submitted to competent authorities and a decision is expected to be decided 2025. Capacity will cover current LoMP, approx. 2036, and some additional years.

### **3.6.3 Environmental, Social and Governance considerations**

#### **3.6.3.1 ESG Commitments**

Our business model set our ESG priorities, and take into consideration the risks and opportunities identified by business intelligence and risk mapping, as well as applicable requirements and expectations such as:

- Stakeholder expectations
- Current and potential legislative trends
- ISO 9001, 45001, 14001 and 50001 standards and Forest Stewardship Council (FSC® COC-000122)
- OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-affected and High-risk Areas
- GRI Standards (Global Reporting Initiative)
- UN Sustainable Development Goals (SDGs)
- UN Global Compact
- ICMM Mining principles

We regularly consult prioritized stakeholder groups on our sustainability performance from a broader perspective. These stakeholders are asked to comment on Boliden's performance to drive further improvement.

Boliden is a member of ICMM and the national mining associations in the countries where Boliden Mines operates. These commitments imply implementing relevant international and national Environmental Management System (EMS) standards and guidelines, such as, e.g., the Global Industry Standard on Tailings Management on an international level and Mining

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RIDAS on a national level. In addition to this, Boliden Mines is certified according to a series of standards, such as:

- ISO 14001:2015 - Environmental management systems.
- ISO 45001:2018 - Occupational health and safety management systems.
- ISO 50001:2018 - Energy management systems.

Boliden has implemented an integrated management system (Boliden Management System, BMS) which sets a common base for all activities developed within the company. Boliden strive to run a responsible business and expect it's business partners to do the same. Good business ethics is essential for sustainable and successful business. Boliden has an ethics and compliance department to boost its compliance work. The department is responsible for the strategic development and coordination of Boliden's work regarding anti-money laundering, anti-corruption, competition law, sanctions, human rights, data protection, whistleblowing and Boliden's employees and management work together to create a compliance culture in which everyone knows what is expected of them - Boliden's codes of conduct. Regular risk assessments, trainings, audits and effective controls are important parts of Boliden's compliance efforts. The Group's whistleblower channel enables all employees and external stakeholders to report suspected and actual misconduct confidentially and anonymously. If misconduct is proven, disciplinary actions must be taken. Reprisals against anyone reporting misconduct in good faith will not be tolerated. Group management and the Board of Directors receive regular reports on risks, non-compliance and the status of initiatives in progress.

Boliden's Code of Conduct provides a framework for corporate responsibility based on the company's values and ethical principles. All employees and members of the Board are subject to the Code, which is based on international standards and relevant legislation. As a complement to the Code, there are internal policies that all employees are expected to comply with. Boliden strives for a sustainable value chain and therefore applies an overarching business ethics and risk management strategy when selecting business partners. The Business Partner Code of Conduct reflects the requirements placed on Boliden's own organization and sets the lowest standard of ethical conduct required of all parties in the value chain, whether Boliden is the buyer or seller. As with the internal Code of Conduct, this code is based on international standards such as the UN's Global Compact, the ILO's standard core conventions and guidance from the OECD. Compliance and sustainability risks are assessed when selecting business partners. If there is a risk of non-compliance by a business partner, a more detailed review is made. Depending on the outcome, an action plan may be developed and agreed upon, or the business relation may be terminated or rejected.

Boliden is a member of the United Nations Global Compact and works constantly to implement its ten principles, including preventing and limiting negative impact in the own operations and those of its external business partners. Boliden runs operations in countries where the risk of human rights violations is considered low. No operations are conducted anywhere in UNESCO's World Heritage List. Boliden supports the right of indigenous peoples to consultations under Svemin's interpretation of Free, Prior and Informed Consent (FPIC). Other important aspects are fair working conditions and the position Boliden has adopted against any form of harassment, discrimination and other behaviors that may be considered as victimization by colleagues or related parties. In addition to this, aspects such

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as child and forced labor as well as the freedom to form and join trade unions are taken into account when evaluating business partners.

Anti-corruption forms a central part of the ethics and compliance work, and Boliden has a zero tolerance policy regarding all types of bribery and corruption. Boliden has an anti-money laundering policy for identifying and managing risks in various parts of the business and to strengthen its anti-money laundering efforts.

### 3.6.3.2 Socio-economical impact

The Kankberg mine is one of three producing mines owned by Boliden in northern Västerbotten. Together with the BAOPP and Rönnskär smelter, these facilities generate an important source of direct employment and more broadly represent an engine for the local and regional economy. Massive-sulphide ore was initially produced from an open pit close to the current Kankberg mine in the mid-1940's. The current underground mine has operated continuously since 2012, is an important workplace in the district and continues to have a significant positive impact on the socio-economic situation in Skellefteå municipality.

In addition to jobs and tax revenues, Boliden contributes to social sustainability and the socio-economic situation in many other ways. Boliden, for example, is involved in, and supports, many local activities and organizations. The effects of these commitments are difficult to quantify but are considered to contribute positively to the development of the area. Northern Sweden has a long tradition of mining and extractive industries, which has resulted in acceptance and tolerance for even some of the negative effects caused by the industry.

### 3.6.3.3 Communities and landowners

The Kankberg mine is located south of lake Bastuträsket. On the north side of the lake is the village of Kankberg, which is a village established independently of mining operations. The nearest urban area is Boliden, Skellefteå Municipality. In addition to mining, forestry as well as some agriculture take place in the local area.

Surrounding land constitutes a reindeer herding area with grazing rights for Mausjaure Sami village. The forest environments are largely affected by modern forestry and the wetlands are to some extent affected by trenching. There are also several historic mines, once operated by Boliden.

In addition to forestry and reindeer herding, the most common land use is hunting, fishing, berry picking and recreation. The Kankberg mine and associated facilities at the BAOPP have a moderate impact on land use in the local area.

There are no areas with high conservation value, such as Natura 2000, close to the Kankberg mine.

### 3.6.3.4 Indigenous people

The Kankberg mine is located within the Mausjaure Sami village reindeer grazing area. Mausjaure Sami village is a forest Sami village that operates between the cultivation boundary<sup>1</sup> and the Gulf of Bothnia.

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<sup>1</sup> The boundary for farming as decided by the Swedish government to prevent low productivity farms from interfering with reindeer herding areas.

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Mausjaure Sami village keeps its reindeer in the traditional way in close contact with the environment where a fundamental aspect is access to coherent and functional pastures with undisturbed grazing for the reindeer. Within the lands used by the community there are areas that have been declared to be of national interest for reindeer husbandry. In general, with respect to reindeer husbandry, it is not necessarily a single activity that leads to disruption, it is more the accumulated effects. For example, mining affects reindeer husbandry in various ways, such as land requirements, noise, dust and transportation. This often results in the reindeer avoiding certain areas. Boliden is well-aware of the consequences and problems that mining causes for reindeer husbandry. To minimize and compensate for these negative effects, a dialogue is maintained between Boliden and the Sami villages concerned. As part of this dialogue, mutual understanding of the two activities is favored and measures to minimize and compensate for the impacts are developed. In cases where disturbances to reindeer grazing occur, Boliden endeavors to compensate by providing alternatives that are developed together with the Sami village concerned. Examples of measures can be reindeer pastures in strategic locations.

There are also agreements between Boliden and the Sami community concerning, among other things, regulation of financial compensation for losses caused by Boliden's operations. In addition to this, Boliden conducts research projects and compensation measures to, among other things, improve forestry to increase the growth of lichen or facilitate the movements of reindeer herds.

#### **3.6.3.5 Historical Legacy**

Production from the current Kankberg mine has continued uninterrupted since 2012, together with processing of ore at the BAOPP and storage of tailings at the near-by tailings facilities.

### **3.7 Geology**

#### **3.7.1 Regional**

The Kankberg Mine lies within the eastern part of the Skellefte mining field, one of the most important mining regions in Sweden, where Boliden has been active since the 1920s. It's significance in relation to 52 other known deposits in the field is shown in Figure 3 from a paper by Allen et al (1996) that describes the marine volcanic arc setting of these Zn-Cu-Au-Ag polymetallic massive sulfide deposits, vein Au deposits and porphyry Cu-Au-Mo deposits.

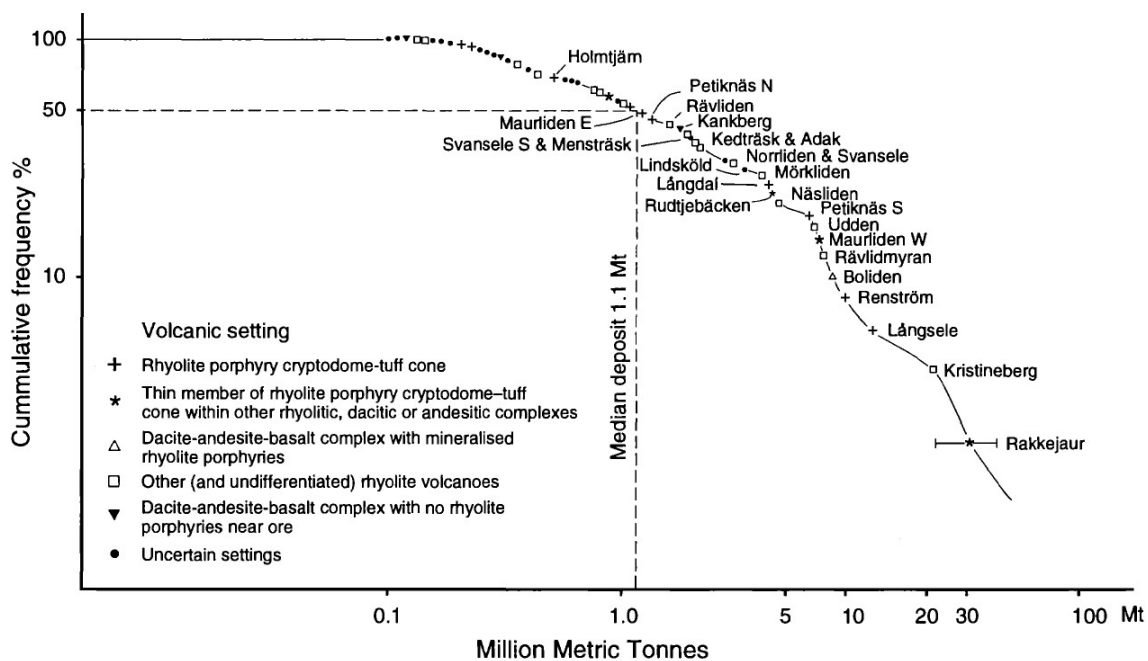


Figure 3: Tonnage-frequency distribution and volcanic setting of the 52 known massive sulphide deposits of 0.1 Mt or more in the Skellefte district (modified from Allen et al (1996)).

The majority of known ore deposits in the Skellefte field occur within the upper parts of the Skellefte group, which is a regionally dominant sequence of volcanic rocks that were formed during a period of intense, extensional, continental margin arc volcanism about 1.89 Ga ago.

### 3.7.2 Local & Property

The host rock in the Kankberg area is dominated by volcanic rocks of primarily dacitic and rhyolitic compositions forming quartz-feldspar porphyritic, rhyolitic and dacitic rock types. The felsic magmas forming these volcanics intruded as shallow (subvolcanic) dykes and sills and extruded as lavas at the surface where they mixed with sediments and mass flows derived from volcanic slopes. The volcanism initiated a convection of solutions through the rocks. These solutions dissolved and transported minerals and metals to sites of deposition.

After the major volcanic period had ended the area was subsequently deformed and folded. This resulted in a dominantly vertical trend of the rocks and structures. At a later stage, brittle deformation took place. Fractures and fissures were intruded by mafic magma forming basaltic and andesitic dykes, which are common in the Kankberg area.

### 3.7.3 Mineralization

Gold mineralization is hosted in a complex mix of volcanic rocks consisting primarily of quartz-feldspar porphyry, volcanoclastics and breccias. The host rocks are strongly altered by silicification, andalusite  $\pm$  topaz alteration and to a varying degree sericitization. The strong alterations form a highly competent body, which is surrounded by dacites. The contact zone is characterized by sericite  $\pm$  chlorite alteration associated with pyrite  $\pm$  pyrrhotite.

The economic mineralization is contained in 'metallic' minerals primarily located within the quartz-andalusite  $\pm$  topaz alteration. It includes fine-grained native gold alloyed with silver at proportions of between 0 to 20%. More commonly, gold occurs as gold-tellurides including

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petzite ( $\text{Ag}_3\text{AuTe}_2$ ), calaverite ( $\text{AuTe}_2$ ) and sylvanite ( $\text{AuAgTe}_4$ ). Another common telluride is tellurobismuthite ( $\text{Bi}_2\text{Te}_3$ ). Several more telluride minerals have been identified through microscopy. Sulfides, pyrite with less pyrrhotite, sphalerite and chalcopyrite, are of minor significance but generally increase upwards through the deposit.

## 3.8 Drilling procedures and data

### 3.8.1 Introduction

The present orebody has no surface expression and has been predominantly explored by drilling, at first from surface and later from underground. Sampling of in-situ rock is done almost exclusively by diamond core drilling. However, face sampling (production drill cuttings) of selected blasts of marginal material is carried out to support grade control.

### 3.8.2 Drilling techniques

Exploration and infill drilling are carried out by wireline double-tube diamond core drilling. At present, drilling is done mainly from underground sites using three to four rigs equipped with the Wireline 56 system that produces 39 mm diameter drill core. The Near Mine Exploration Department (UGN) uses contracted drilling company Protek AB for exploration drilling. Protek AB use Diamec U6 drill rigs. The mine uses two in-house drill rigs (Diamec U6 and Diamec S6) for infill drilling. Exploration drilling has also been performed from surface with NQ dimension. Drilling from surface was carried out by Protek AB using U8 rigs either on tracks or moved with an assistant vehicle.

### 3.8.3 Downhole surveying

Hole collars are surveyed before drilling and again afterwards. For exploration drilling, downhole deviation surveying is carried out by Protek AB personnel using gyro instruments from Devico. For infill drilling, deviation surveying is carried out by Kankberg personnel using a Devico DeviGyro instrument.

### 3.8.4 Sampling

Apart from drilling, there are no other samples routinely taken of in-situ rock. Selection of samples from core drilling for assaying is as follows.

Exploration holes are generally sampled (and assayed) to about 65% of their total length. Infill drill-holes are generally drilled from either side of, and outside the alteration that characterizes the ore envelope. The start of the hole is generally not sampled. When the logging geologist identifies alteration that indicates proximity to the ore envelope, sampling starts two core boxes up-hole from the contact. It will continue until the end of the hole, even if it seems that the drill hole has emerged from the other side of the ore envelope into unmineralized rock.

Exploration holes are sampled as half-cores, where core is split length-ways by diamond saw and one half is sent for assaying. The other half is stored for reference. From infill drilling, of those intersections that are sampled, the whole core is submitted as samples. Unsampled core is stored for a year, after which it is discarded.

Primary samples and QAQC samples (inserted as described below), are bagged and sent by contracted courier service to the ALS geochemistry laboratory in the town of Piteå, about

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100 km to the north, where sample preparation – drying, crushing and pulverizing - is carried out using procedure PREP – 22. Sample pulps are returned to Boliden where they are stored.

Because the gold and other economic mineralization is so fine grained, the excellent core recovery and drill spacing of 10m x 10m, it is considered that the sampling is representative of the in-situ material collected.

### **3.8.5 Logging**

Drill core is logged at Boliden Mineral AB's core logging facilities in Boliden. Logging data is captured in WellCAD™ software and data is uploaded to an acQuire™ database.

The following fields are logged:

- Rock type acronym. There are 58 standardized rock types, of which the following 14 are most frequent: quartz-feldspar-porphyry, volcanoclastic, sericite-quartzite, sericite-schist, chlorite-quartzite, dacite, andesite, andalusite-quartzite, topaz fragment rock, breccia, basalt (outside mineralization) and clastic sedimentary
- Alteration types – andalusite, topaz, sericite, chlorite, silicic
- Mineral proportions of talc and muscovite on a scale of 1 to 5, as these affect rock stability and, but of less concern, flotation
- Other minerals – garnet, tourmaline, sphalerite, galena, chalcopyrite, arsenopyrite, pyrrhotite, pyrite, gold
- Sulfosalts – tellurides
- Rock mechanical structures – gouge, core discing, crushed drill core – on a 1 to 5 scale: rare, moderate, common, abundant, pervasive
- Additional comments
- The start and ends of samples are assigned and length is adjusted to fit with lithological contacts. Length of samples are aimed at 2 m and usually vary between 0.5 and 2 m. Locally, typically where alteration is weak, the length of samples can approach 3 m

All core is photographed, and the photos are available on-line to Boliden staff.

### **3.8.6 Density**

The Kankberg mine applies a three-stage approach for determining sample density, as outlined in priority order below:

1. Measured density (pycnometer);
2. Regression formula (based on mineralogical rock classification); and
3. Default densities of 2.9 for material within the block model\* and 2.8 for material outside the block model.

*\* In practice the number of default densities applied to mineralized material is negligible.*

### **3.8.7 Hardness model**

A hardness model has been developed based on the drilling rates of production drillholes and some exploration drillholes. The hardness model supports production planning and scheduling.

### 3.8.8 Analysis and QAQC

Sample preparation and measurements of specific gravity are carried out by ALS Piteå, Sweden, and chemical assaying is carried out by ALS Loughrea, Ireland. These procedures are identical for the mine infill drilling and exploration group drill holes.

All ALS geochemical hub laboratories are accredited to ISO/IEC 17025:2017. Table 5 shows an overview of the methods used. The “Over-range method” applies to samples where assay result reached upper detection limit of the primary method or within the range where the method is best suited.

Table 5. Overview of ALS’s designation of analytical methods.

	Method	Over-range method
Preparation	PREP – 22	
Assay Au	Au-ICP21	Au-GRA21, Au-AA25, Au-SCR21
Assay other	ME-MS61(m)	Ag-OG62/Ag-GRA21, S-IR08, Te-AA62, (As, Cu, Pb, Zn)-OG62, (Hg-ICP42)
Specific gravity (core)	OA-GRA08	
Specific gravity (pulp)	OA-GRA08c	

Au-ICP21 is a package of fire assay with an ICP-AES analysis. ME-MS61 is a package of a 4-acid digestion process with an ICP-MS analysis. Package ME-MS61m includes analysis of Hg, which is used for the exploration drillholes. The Periodic table of elements in Table 6 show which elements (marked in yellow) are assayed for at the Kankberg mine. Results are available in the drilling database, held in acQuire™ software.

Table 6. Periodic Table, highlighted to show assayed elements.

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Ku	Ha													
*		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
..		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	

The aims of the exploration and infill drilling differ slightly and standards/certified reference materials (CRM’s) and QAQC procedures that are applied differ to address these aims.

Infill drilling insert QAQC samples according to the following guidelines:

- Blanks: 1<sup>st</sup> blank as the 5th - 10th sample, rate 1:50, and after visible gold and/or particularly strongly mineralized zones;
- Standards/CRM’s: rate 1:50, grade of standard reflecting suspected grade of mineralized zone. Added in proportion; 10% low grade, 80% medium grade and 10% high grade. About 10 different international and in-house standards are or have been used.



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This results in an average QAQC usage of approximately 5.4% (standards = 2.7%, blanks = 1.7%).

Exploration drilling generally follows the QAQC recommendation given by the Exploration department, which is documented in Boliden's internal business management system (BMS), as stated below:

- Standards: In-house and CRM (certified reference material) ca. 4.5%
- Blanks 2%

An evaluation is underway to assess the merits of preparing standard material from Kankberg mineralization.

QAQC is checked for every sample batch before it is approved in the database. In case of deviations appropriate actions are taken such as re-assay of samples or submission of new samples in case of suspicion of contamination. Issues with long-term trends are reviewed.

### 3.9 Exploration activities and infill drilling

Exploration mainly focused on drilling in both the upper and lower parts of the main mineralization which currently lie outside the LoMP. Drilling was also carried out on outlying targets which in some cases was supported by geophysical surveying.

Infill drilling is focused on increasing the drill hole density within the existing mineralized zones and LoMP. Infill drilling aims at maintaining a lead time of approximately three years ahead of planned production in the cut and fill mining areas. During this year focus was exclusively towards drilling of areas where sublevel stoping is to occur.

### 3.10 Mining methods, mineral processing and infrastructure

#### 3.10.1 Mining methods

The Kankberg orebody consists of five local orebodies. Kankberg employs two mining methods, cut and fill and sublevel stoping (introduced 2024), for extracting the ore. The orebodies are divided into mining blocks with 2 to 7 levels in each block. The top level of each mining block is the sill pillar, which separates the different mining blocks.

In the cut and fill method, the ore is mined in 6 m high horizontal stopes (7 m if it is a bottom stope). Four to six stopescut are stacked vertically into each level, which are accessed from the ramp, as shown in Figure 4 (left). The mining starts from a bottom undercut and advances upwards. As shown in Figure 4 (right), the mining cycle is comprised of drilling of the ore, loading of blast holes, blasting, loading of the ore, cleaning of the exposed rock and reinforcing with cemented iron rods and shotcrete.

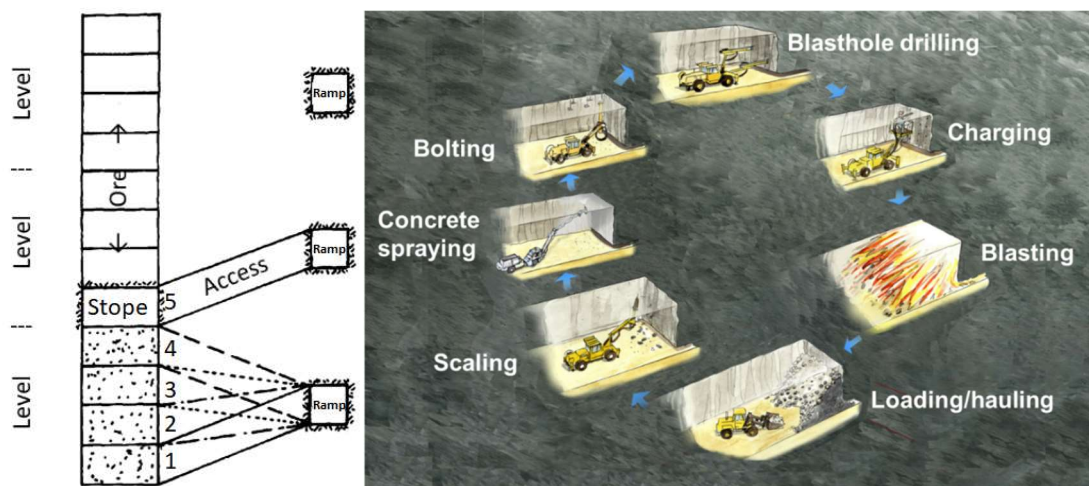


Figure 4: (Left) Sketch profile showing stope access. (Right) Illustration of the cut and fill mining cycle.

Once the stope is mined, media like water, power supply and ventilation are retreated, as the stope is backfilled with waste material. The fill material serves both as support for the stope walls and as working platform for the next stope. The width of stopes varies between 4.5m to 10m. Where the width of the stope exceeds 10 m, pillars of 6 x 6 m are left at 10 m intervals within the stope. On average 4 to 5 different stopes are in production at any given time with one primary backfill area. Pillars on successive levels are vertically aligned.

In the sublevel stoping method, the ore is mined in 24(30) m high stopes between 6 m high drifts. Most areas are mined with transversal sublevel stoping, where the drifts and stope axis are perpendicular to the strike of the ore body. In some more narrow areas, longitudinal sublevel stoping is used, which is parallel or subparallel to the strike of the ore body. Effectively, in the sublevel stoping method one level consists of a series of primary and secondary stopes and bottom drifts oriented parallel to each other. The primary and secondary stopes of the mining block are mined in a predefined order and pyramid shape sequence.

Backfill uses waste rock either from elsewhere in the mine, which comprises around 51% of the total requirement, or waste material sourced from other Boliden sites.

Ground support is through rock bolting and shotcreting with fiber-reinforced concrete.

### 3.10.2 Mineral processing

The ore is delivered by truck to the BOAPP, weighed by truck weigh-bridge and either delivered directly into the plant or stockpiled separately from ore from other mines. Ores from the different mines are processed in batches or campaigns. The feed tonnage to the processing plant is measured using a weighing system with a stationary belt scale. The feed tonnage and the truck weights are used to determine current tonnage in the stockpiles.

As shown in Figure 5 below, there are two stages of grinding. The primary mill is a fully autogenous mill and the secondary mill is a pebble mill fed with pebbles extracted from the primary mill. The ground ore is classified using screens and hydro-cyclones. A gravimetric concentrate containing coarse grained gold bearing minerals is produced in the grinding

circuit. The gravimetric concentrate is packed in bags of about 800 kg and delivered to the Rönnskär smelter by truck.

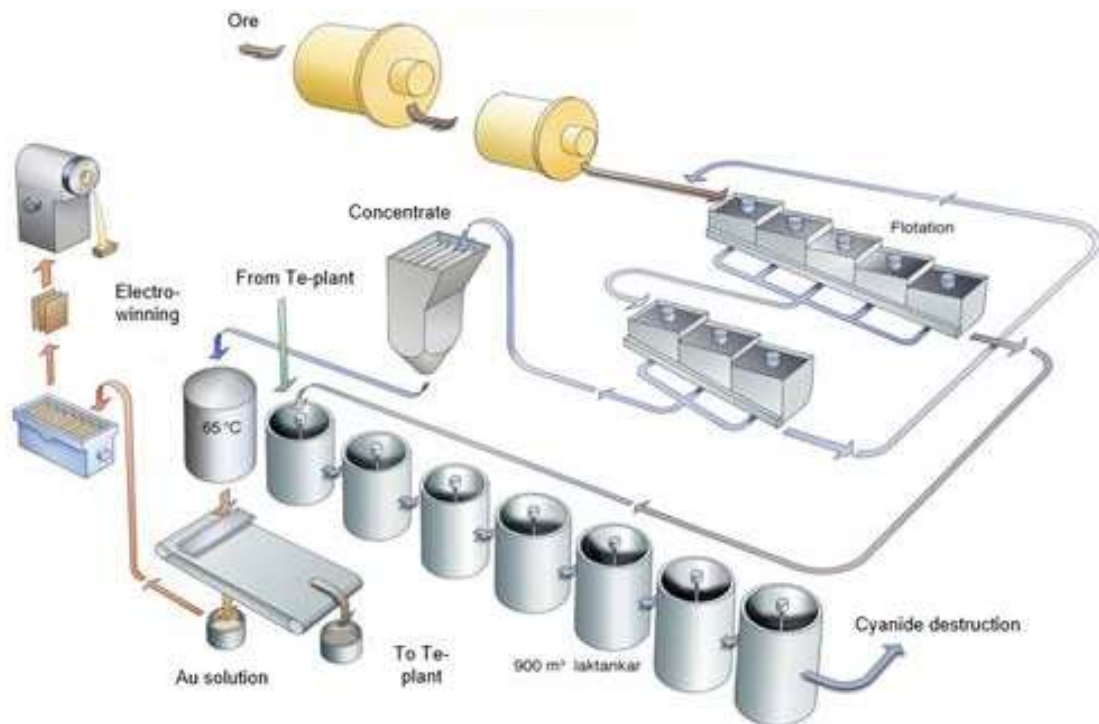


Figure 5: Simplified overview of the different stages of Kankberg ore processing at BAOPP.

Flotation is used to produce a precious metals and tellurium concentrate. The concentrate is accumulated in a leaching tank over a four to five-week campaign. After the completion of a campaign, the concentrate is hot cyanide leached to extract precious metals as a solution. This is done as a batch process. This solution is then separated from the tellurium-rich leach residue using a belt filter. The solution is pumped through a column containing active carbon to recover precious metals. These are then stripped from the carbon as a solution. Electrowinning is used to precipitate the precious metals in the solution to a sludge. This sludge is transported to the Rönnskär smelter for further processing.

The tellurium-rich leach residue is stored in a tank so that onward processing can proceed continuously. The residue is leached again in a proprietary process to recover the tellurium to a tellurium concentrate 'cement'. This is a grey-black powder containing principally tellurium and bismuth oxides with 10% moisture. It is packed in steel drums for sale.

The flotation tailings are cyanide-leached at ambient temperature in a CIL process using active carbon. The active carbon is stripped to produce a solution containing precious metals. In the same process, but not at the same time as the batch described above, electrowinning is used to precipitate the precious metals in the solution to a sludge that is sent to the Rönnskär smelter for further processing.

Metallurgical accounting where a sum of products calculated using assays from daily composite samples of main process streams and assays and tonnage for delivered products together with feed tonnage is used to determine the head grade of the ore.

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Metallurgical recoveries are presented in Table 7 below.

Table 7: Metallurgical Recoveries 2024

Metal	Average Metallurgical Recovery
Au	88%
Ag	47%
Te	50%

### 3.10.3 Infrastructure

Mine access is via a decline from the historic Kankberg open pit. The run of mine ore is transported by truck to stockpiles at surface before onward transport by truck to the BAOPP.

Air intake to the mine is via a ventilation shaft equipped with two 1800 mm fans on surface. To avoid freezing during winter months, air is heated with a heat exchanger between intake and return air and two propane gas burners as required during the coldest winter temperatures. Current capacity amounts to approximately 600,000 m<sup>3</sup>/h.

Air is distributed underground via 900 or 1000 mm fans to individual stopes. Active stopes with no activity are ventilated with around 5 m<sup>3</sup>/s and 16 m<sup>3</sup>/s during loading.

Return air from the south ramp exits the mine via an exhaust air shaft located in the south ramp area. Return air from the north ramp exits the mine either via the exhaust shaft or the mine ramp system.

The underground facilities for managing water at the mine consist of a system of pump stations and sumps, where mine water is collected and pumped to surface in stages. Several oil separators are installed adjacent to workshops and filling stations. Surface water from the industrial areas flow via drainage ditches to collection ponds for subsequent pumping to the mine water treatment plant.

## 3.11 Prices, terms and costs

### 3.11.1 Metal prices

Boliden's planning prices, which are an expression of the anticipated future average prices for approximately 10 years, are presented in Table 8 below.

Table 8. Long-term metal prices and currency exchange rates

<b>Metal prices</b>		<b>LTP 2026-&gt;</b>
Gold	USD/tr.oz	1 600
Silver	USD/tr.oz	23.0
Tellurium	USD/kg	35

<b>Currency rates</b>		<b>LTP 2026-&gt;</b>
USD/SEK		9.00

### 3.11.2 Costs

Mining, transportation, and processing costs are summarized in Table 9.

Table 9: Mining, transport and process operating costs

	<b>Cut and fill (SEK/t)</b>	<b>Sublevel stoping (SEK/t)</b>
Mining (including transport of ore in mine)	285	185
Ore transport (from the mine to BAOPP)	20	20
Process (without depreciation)	315	315
<b>Total</b>	<b>620</b>	<b>520</b>

The total of these costs gives the break-even cut-off used for mine planning.

### 3.11.3 Net Smelter Return

For revenue evaluation, a 'Net Smelter Return' (NSR) value is effectively the value in Swedish Kronor (SEK) for each gram of each contained product or by-product metal attributed to ore arriving at the BOAPP from Kankberg, within Boliden's accounting system. Being a combined product value, it is used as a grade to describe tonnages in terms of SEK/t and is derived from long-term metal prices, metallurgical recoveries (Table 7) and smelter terms.

The long-term NSR Factors (24LTP26) are given for 1 gram of each metal below:

- Au = 390 SEK
- Ag = 2.70 SEK
- Te = 0.18 SEK

### 3.11.4 Cut-off grades

The operational costs and NSR factors provided above together define the cut-off grade, which is expressed as a combined NSR value/tonne. The relative contribution of individual metals to this cut-off grade will vary according to location, but in general Au accounts for around 97% of the revenue for any single block.

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### 3.12 Mineral Resources

Three-dimensional grade shells are created in Leapfrog Geo 2023.1 and used in Datamine Studio RM 1.10.200.0 as estimation domains for grade interpolations. The grade shells are based on the following Au grades:

- Very high-grade domain = Au  $\geq$ 20 ppm
- High grade domain = Au  $\geq$ 2 ppm
- Low grade domain = Au  $\geq$ 1 ppm
- Waste grade domain = Au  $\geq$  0.5 ppm

These threshold grades roughly reflect historic cut-off grades and are used to reduce smoothing and produce a more local grade estimate. In addition, a high Sulphur and Zinc domain is also created to provide a more local S and Zn estimate within the Au-rich zones. This grade shell is based on a cut-off grade of S  $\geq$  5% and Zn  $\geq$  0.15%

Histograms and log probability plots were used to identify the presence of outlier grades for Au, Ag, Te and Bi. The top-caps for Au, Ag, Te, Bi were retained from the previous update.

- Au = 75 ppm (VHG zone only)
- Au = 50 ppm
- Ag = 200 ppm
- Te = 1500 ppm
- Bi = 1500 ppm

Drill core samples are usually taken at 2 m length within geological domains. Length-weighted composites with a target length of 2 m were calculated for the grade estimation process, as for previous estimations.

Previous variogram parameters were reviewed in Snowden Supervisor and were deemed reasonable to retain in this update. The structural trend planes that influence the surface anisotropy were updated in 2022 to extend to surface and include more localized planes than previously defined (based on observed structural features and high-grade Au trends). The same planes are used as inputs in both the grade shell build and dynamic anisotropy within the Au domain. Search parameters were also retained from the previous estimate. In general, the minimum number of composites required for a block estimate is five, although this is reduced to one for the final search pass.

Ordinary Kriging was used for the grade estimation of Au, Ag, Te, Bi, Cu, S, Al and Fe. Inverse distance weighting (IDW) was used for grade estimation of Sb, Hg, Pb, As, Zn and Density. Any Au estimates within the high-grade zone that were estimated with a negative Au grade were re-estimated with IDW however, in practice, this affected an insignificant number of blocks.

A parent block size of 6 x 6 x 6 m is utilized with sub-blocking to 1.5 x 1.5 x 1.5m based on QKNA completed in Snowden Supervisor and an approximate drillhole spacing of 10-20m.

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To check the estimation strategy is appropriate, the block model is validated using various techniques:

- Statistical comparison of raw composite data against block model estimates
- Validation (swath) plots comparing the block model estimates against input data
- Visual validation of block estimates against informing composite data

Overall, the global block estimates are slightly conservative, however, reasonable correlation exists between the sample data and the block estimate to consider the resource estimate reliable.

Mineral Resources are classified into Measured, Indicated and Inferred categories. The Mineral Resource classification is based upon key indicators including the quality and quantity of informing data, confidence in the block estimates, and assurance in the reasonable continuation of mineralization.

In general, a minimum sample spacing of 60 x 60m is required for Inferred, 20 x 20m for indicated and 10 x 10m for Measured. Classification strings are manually reviewed and updated in Datamine Studio RM according to these key indicators.

Mineral Resources are reported from Deswik CAD 2023.1 as inside optimized stopes. The optimized stopes are defined in Deswik Stope Optimizer according to the following criteria:

- (a) inside constraining volumes Outside\_LoMP
- (b) above a cut-off NSR value of 400 SEK/t
- (c) stope parameters according to mining method

Mineral Resources may include sill pillars and Inferred material that lie within the LoMP.

Mineral Resources are reported with a weighted average of 19% waste rock dilution.

The Mineral Resource statement is presented in Table 1 above.

### 3.13 Mineral Reserves

Mineral Resources are converted into Mineral Reserves when the stopes that will mine them are planned. Mineral Reserves are selected and reported from the parts of the block model which fall within mining design volumes (LoMP), which could include Inferred Mineral Resources. Vertical pillars are included in the mine design, but Mineral Resources within these are not converted into Mineral Reserves and are not reported.

Mineral Resources within the LoMP are converted into Mineral Reserves according to the principles in figure 2.1 above. The LoMP may include small quantities of Inferred Mineral Resources, that are not converted into Mineral Reserves and remain as Mineral Resources.

The Mineral Reserves are reported with a weighted average of 3.8 % waste rock dilution.

Material that falls outside the mine design (i.e. above and below LoMP levels) is defined by optimized stopes and is reported as Mineral Resources exclusive of Mineral Reserves.

Mineral Resources are always reported as additional to Mineral Reserves.

All other modifying factors, namely processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors, that are required to transfer Mineral Resources to Mineral Reserves are already in place and considered to be favorable.

Using NSR as calculated above, a break-even mining cut-off grade of 520 SEK/t or 620 SEK/t (subject to mining method) is used to guide mining design and in Mineral Reserve Estimation. The entire room must average at least the cut-off grade to be mined. When rock below either cut-off grade must be mined, mainly to access higher-grade material, a marginal cut-off of 400 SEK/t is applied, and this material is trucked as ore. Rock below this cut-off would be mined as waste and used within the mine as backfilling material.

The Mineral Reserve statement is presented in Table 1 above.

### 3.14 Comparison with previous year/estimation

The total Mineral Reserve tonnes for 2024 have been increased by 690 kt in comparison with the 2023 statement (Figure 6). Depletion through production accounts for 455 kt (“Mined (total)”). Technical adjustments account for the addition of 1 145 kt.

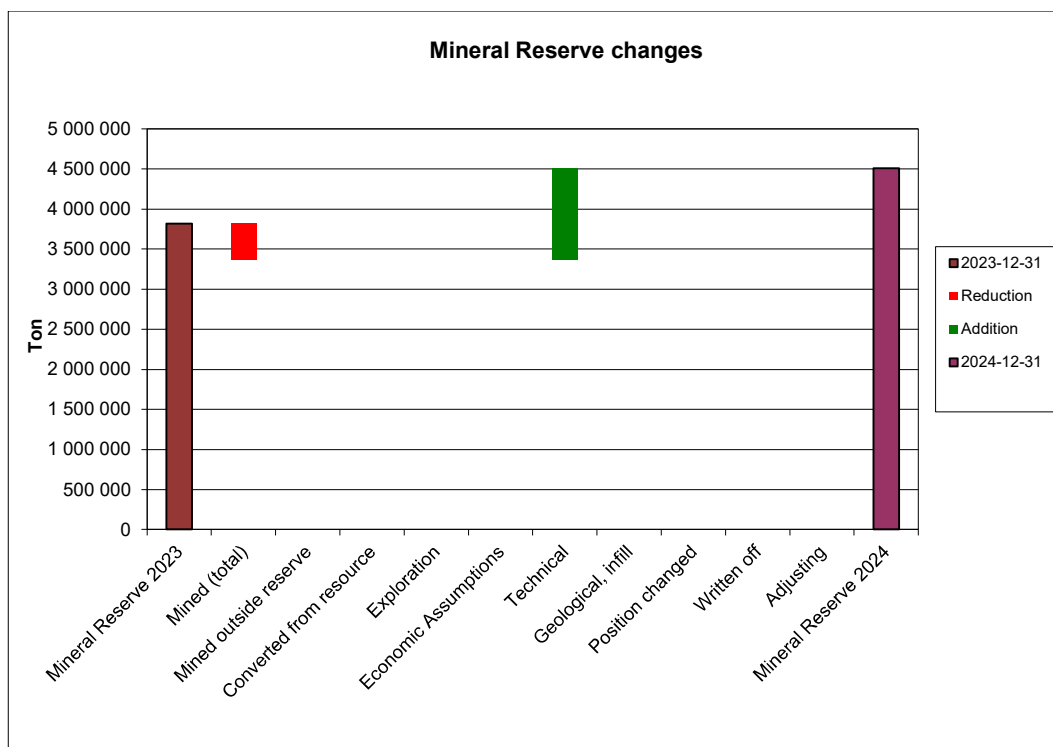


Figure 6: Changes to Mineral Reserves

In total the Mineral Resources have increased by 282 kt. Economic assumptions and new geological information account for an addition of 374 kt whereas technical adjustments account for a reduction of 92 kt (Figure 7).



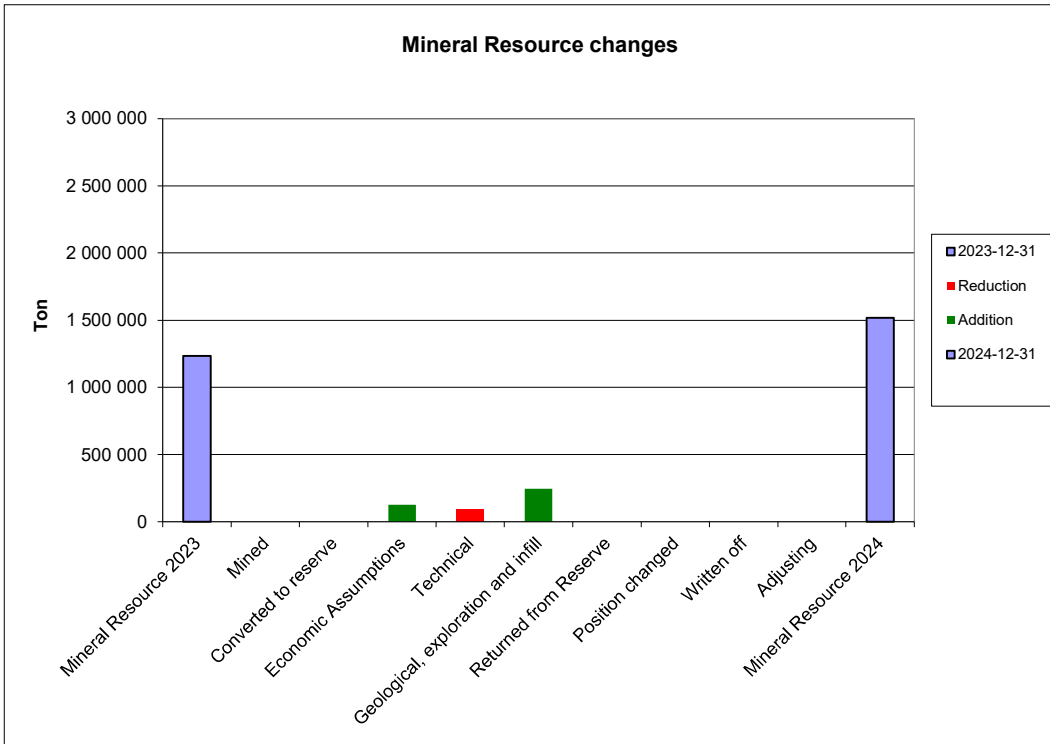


Figure 7: Changes to Mineral Resources

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### 3.15 Reconciliation

Reconciliation at the Kankberg Mine is completed for every month of production and aggregated for the year. Mined grades and tonnages are read from the block model for every position that has been mined. These predicted grades are then summarized, where the average grade for that month is compared with the average grade and tonnage which has been reported by the BAOPP.

The reconciliation data for the reporting year (Table 10 below), demonstrates performance within tolerance for tonnage and grades.

Table 10: Kankberg Reconciliation 2024 (DMS #1150727)

<b>2024 Reconciliation - Kankberg</b>				
<b>Category</b>	<b>Tonnes kt</b>	<b>Au g/t</b>	<b>Ag g/t</b>	<b>Te g/t</b>
<b>Mined (Kankberg)</b>	455	3.8	10.2	172
<b>Processed (BAOPP)</b>	490	4.6	11.1	188
<b>Difference (Mined vs. Processed)</b>	35	0.8	0.9	16
<b>Difference (Mined vs Processed %)</b>	8%	20%	9%	9%

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## 4 REFERENCES

### Internal References

- DMS #1150727, Kankberg reconciliation file.
- DMS #1589509, Resources and Reserves Kankberg 2019-12-31

### External References (public domain):

- Kankberg Annual Summary Report 2023 ([resources-and-reserves-kankberg-2023-12-31.pdf \(boliden.com\)](#))
- Pan-European Standard for reporting of Exploration results, Mineral Resources and Mineral Reserves (The PERC Reporting standard 2021.) [www.percstandard.eu](http://www.percstandard.eu)