UNLOCKING A MAJOR SOURCE OF CRITICAL MINERALS





FEBRUARY 2023 | AIM: SVML | ASX: SVM | ABN: 71 120 833 427

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COMPETENT PERSONS STATEMENT

The information in this presentation that relates to Production Targets, Processing, Infrastructure and Capital and Operating Costs, is extracted from the announcement dated 16 June 2022 which is available to view on <u>www.sovereignmetals.com.au</u>. SVM confirms that: a) it is not aware of any new information or data that materially affects the information included in the announcement; b) all material assumptions and technical parameters underpinning the Production Target, and related forecast financial information derived from the Production Target included in the Announcement continue to apply and have not materially changed; and c) the form and context in which the relevant Competent Persons' findings are presented in this presentation have not been materially modified from the Announcement.

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The information in this presentation that relates to the Exploration Results is extracted from the announcement dated 8 September 2022, 26 October 2022 and 30 January 2023. The announcements are available to view on <u>www.sovereignmetals.com.au</u>. Sovereign confirms that a) it is not aware of any new information or data that materially affects the information included in the announcements; b) all material assumptions included in the announcements continue to apply and have not materially changed; and c) the form and context in which the relevant Competent Persons' findings are presented in this report have not been materially changed from the announcements

Globally significant deposit of two critical minerals

Kasiya – the world's largest rutile resource and one of the largest graphite resources

Two minerals critical to the world's development and decarbonisation targets



Decarbonisation is a central theme for governments and corporations





Europe has also the great opportunity to become the continent of climate innovation. For this, the European Commission will mobilise massive investments in new and transforming industries over the next decade. - Ursula von der Leyen, President of the European Commission

Titanium industry is following...



Rio Tinto partners with Voltalia for renewable solar power at Richards Bay Minerals (October 2022)

Rio Tinto partners with Government of Canada to decarbonise RTFT and boost critical minerals processing (October 2022)



Decarbonising the global economy is the greatest opportunity for innovation the world has ever seen." - Bill Gates, Founder of Breakthrough Energy



Tronox announces significant renewable energy project in South Africa

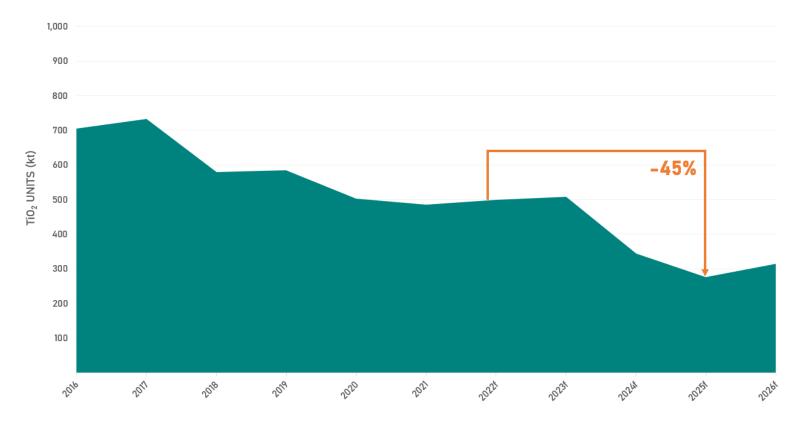
Natural rutile (TiO_2) is a genuinely scarce commodity



The natural rutile market is completely constrained by available supply. Key uses include feedstocks for titanium dioxide pigment, welding flux and titanium metal

One of the most significant supply crises in the world of natural resources has emerged and is accelerating in the natural rutile space

- No major discoveries in over 50 years
- Two major western mines likely coming offline in the near term
- Limited new supply no pipeline of significant projects
- Titanium industries forced to shift to 'dirtier' feedstocks ie ilmenite, titanium slag and syn-rutile



Natural Rutile – the purest natural form of titanium

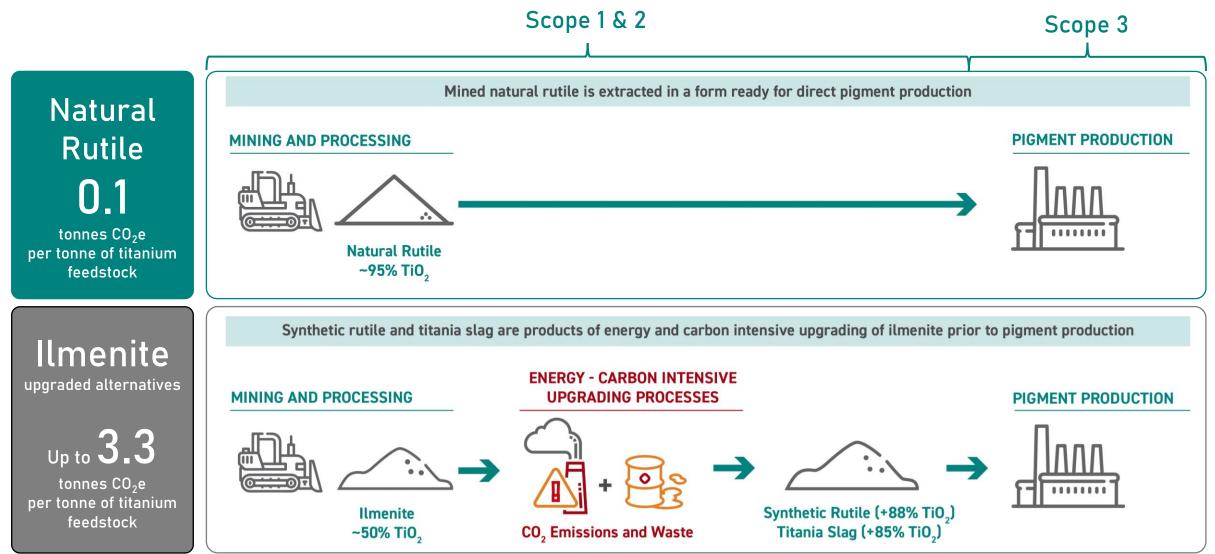


HIGH GRADE CHLORIDE PIGMENT FEEDSTOCK (+80% TiO₂) SUPPLY BY TYPE ~2.7Mt TiO, Market Size (2020) Natural Direct use Rutile material 10% Natural Rutile +US\$2,070/t * UGS 11% Syn-Rutile Upgraded via 27% energy and carbon intensive processes: Titania Slag Ilmenite (+85% TiO₂) Chloride Synthetic Rutile +US\$350/t * Slag (+88% TiO₂) 52%

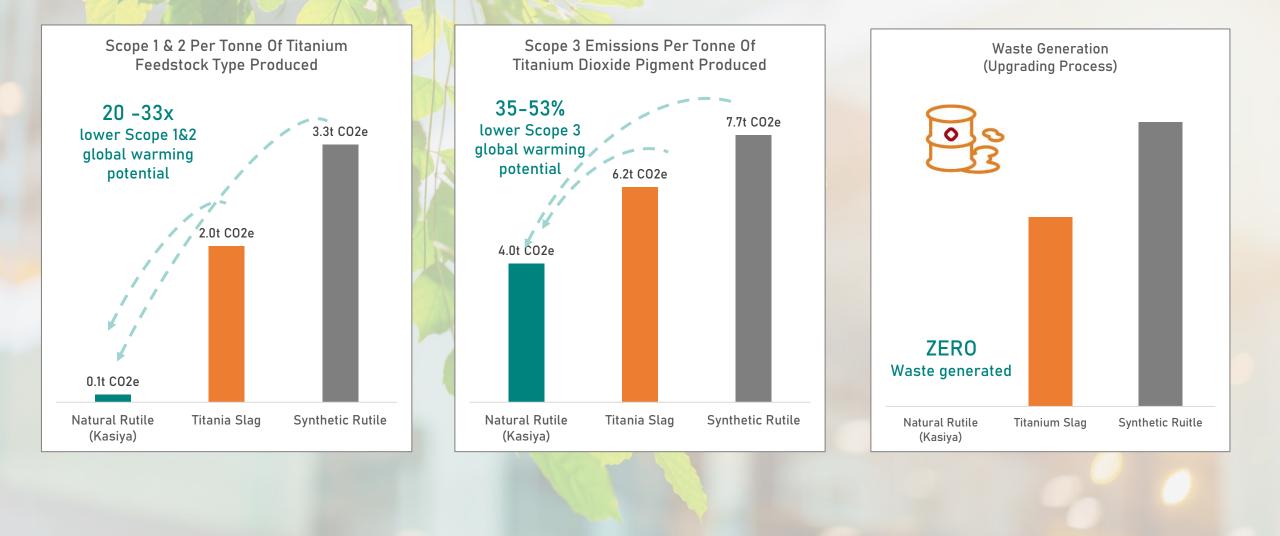
Source: Sovereign Metals; TZMI * Spot price: Ruidow

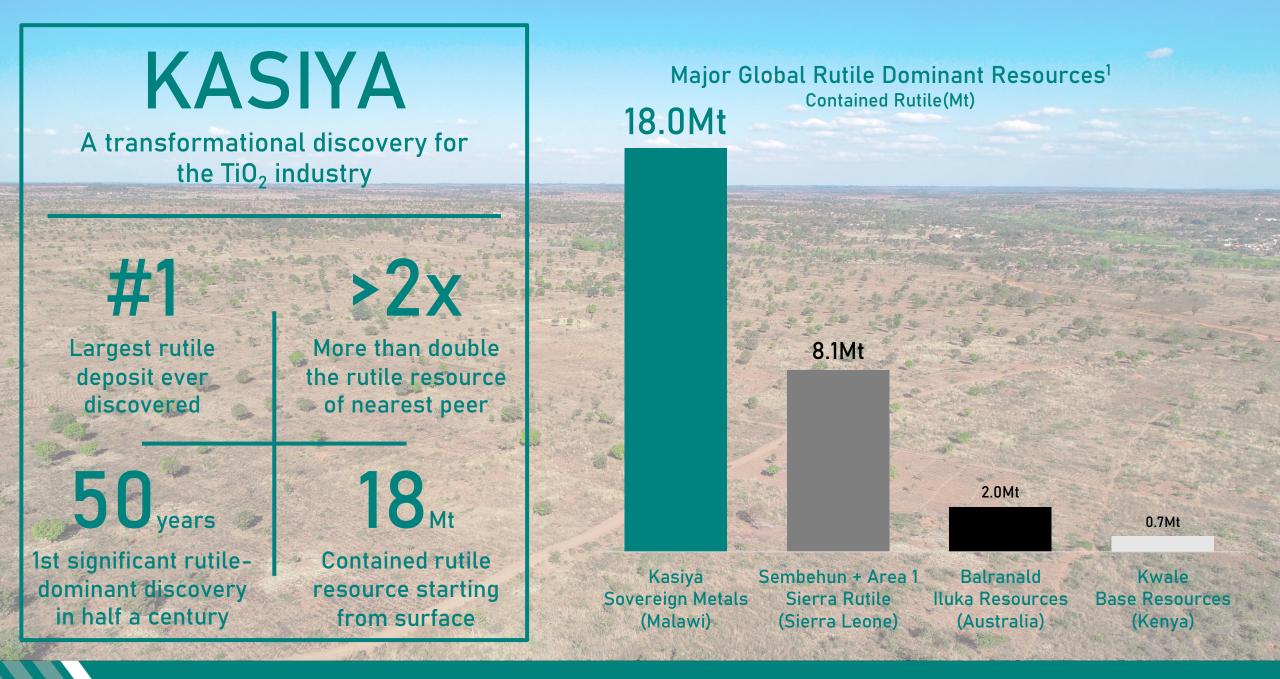
Natural Rutile – orders of magnitude lower carbon footprint than other titanium feedstocks





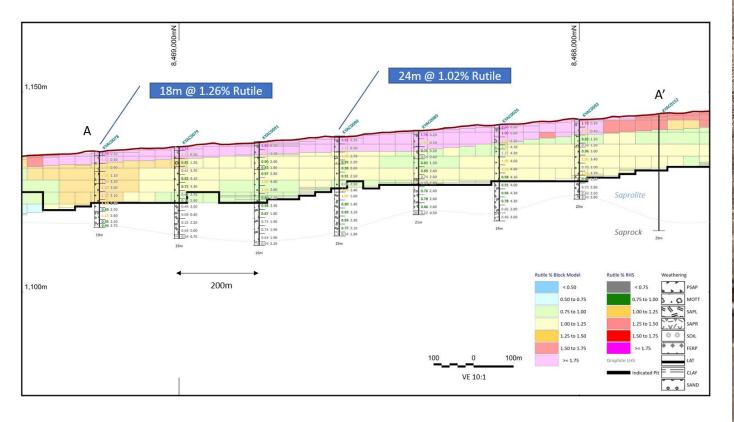
Life Cycle Assessment shows Carbon Emissions Reduction Potential





Kasiya - Huge and Robust Deposit

- Mineralisation lies in laterally extensive, near surface, flat "blanket" style
- Widespread, high-grade mineralisation from surface to up to 25m

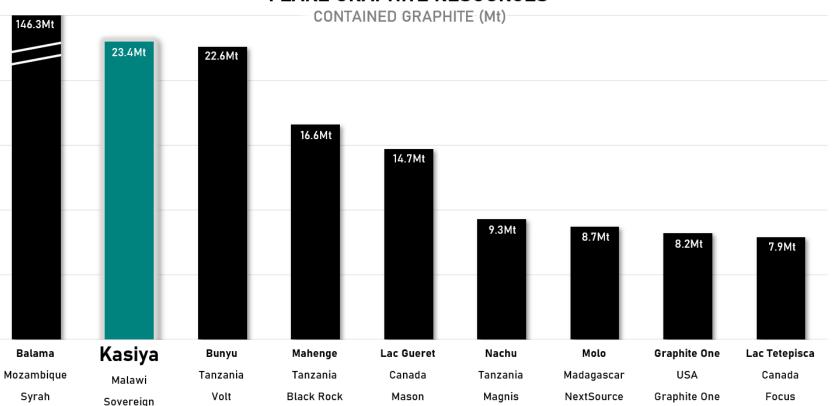




Kasiya: One of the Largest Flake Graphite Resources in the World



- Graphite occurs in broad association with rutile
- Kasiya graphite is highly crystalline and of high purity – important features required for use in lithium-ion battery anodes



FLAKE GRAPHITE RESOURCES

Potential future major producer of both natural rutile and graphite

Large-scale, high-grade operation with a conventional flow sheet and low-cost profile supported by excellent existing infrastructure





| | Key Ec | onomic Results – 20 | 22 Expanded Scopi | ng Study | | |
|--|-----------------------------|----------------------------|-----------------------------------|---|--|----------|
| US\$1,537M After Tax NPV ₈ | 36% After Tax IRR | US\$12,038M LOM Revenue | US\$323M Ave. Annual EBITDA | US\$320/t Operating Cost per tonne of product | US\$372M Capex to 1 st Production | |
| Two stage approach Stage 1: 12Mtpa o | re processed in yea | rs 1-5 | Annual Production – Rutile | | | 242ktpa* |
| Stage 2: Increase (funded from pro | • • | cessed in years 5-25 | Annual Production – Graphite | | | 155ktpa* |
| Life of Mine 25 years | | | Head grade – Rutile | | | 1.14% |
| Throughput (LOM) 21.6Mtp | | | Head grade – Graphite | | | 1.52% |

Kasiya is placed as one of the best undeveloped projects

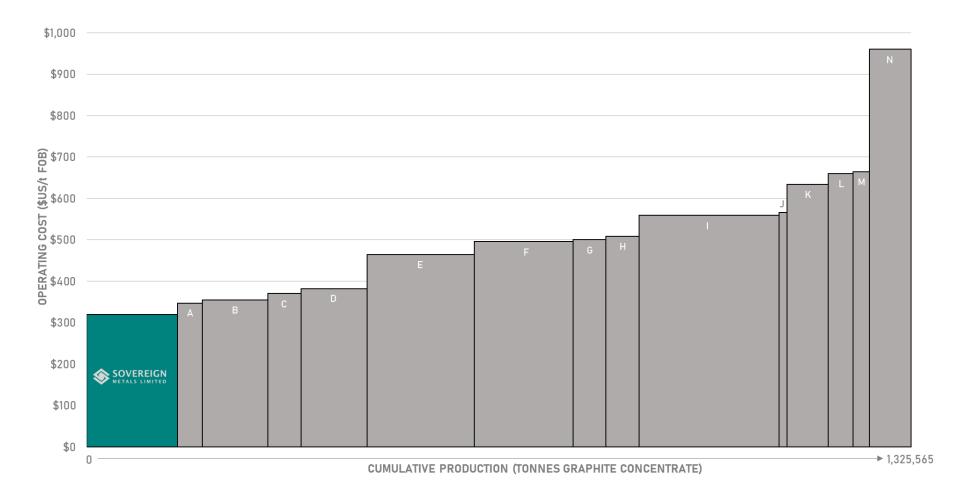


| | SOVEREIGN METALS LIMITED | DE GREY | | Liontown |
|---------------------------|-----------------------------|------------------------------|--------------------------|--------------------------------------|
| Project | Kasiya Malawi | Mallina Western Australia | Goulamina Mali | Kathleen Valley Western Australia |
| Phase | Scoping | PFS | DFS | DFS |
| Commodity | Rutile-Graphite | Gold | Lithium | Lithium |
| NPV ₈ post-tax | A\$2,220 (US\$1,537) | A\$2,226m (US\$1,603m) | A\$4,150m (US\$2,946) | A\$4,200m (US\$3,024) |
| Capex | US\$372m | US\$709m | US \$ 255m | US\$341m |
| NPV : Capex | 4.1 | 2.3 | 11.4 | 8.9 |
| Average Revenue | US\$482m (268ktoz) | US\$970m (540ktoz) | US\$726m (403ktoz) | US\$832m (462ktoz) |
| Annual EBITDA | US \$ 323m | US \$ 522m | US \$ 448m | US\$398m |
| Mine Life | 25 years + | 13.6 years | 21 years | 23 years |
| Market Capitalisation | A\$245m | A\$1,409m | A\$602m | A\$3,448m |

Sources: Company Releases Gold equivalent Average Revenue calculated based on a US\$1,800 gold price Market Capitalisation (undiluted) as at 1 February 2023

Potentially the Lowest Cost Flake Graphite Project in the World

- Average life-of-mine FOB (Nacala) operating cost of US\$320/t of product (rutile + graphite)*
- Incremental FOB operating cost of US\$140/t reflecting graphite production as a co-product*

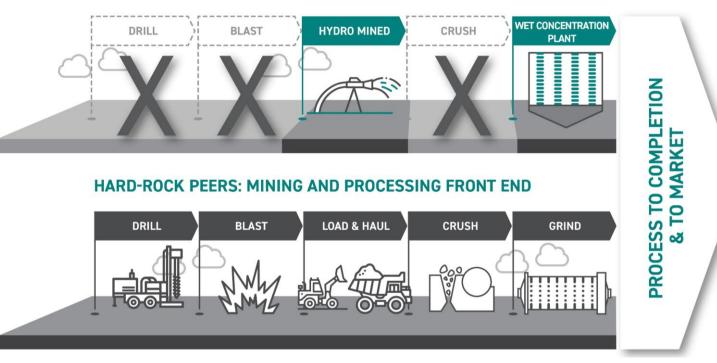


Graphite Co-Product – Significant Cost and Environment Benefits





KASIYA: MINING AND PROCESSING FRONT END



- Graphite rich concentrate is collected from the gravity spirals and processed in a separate graphite flotation plant, producing a high purity and high value coarse-flake graphite product.
- The production as a co-product offers significant cost and environmental advantages



Stable, Transparent Jurisdiction Looking to Benefit From Mining





Member country of the Commonwealth



Attracting significant investment with strong aspiration for mining



Strong Government support for the development



Excellent nearby operating infrastructure



Kasiya project – significant contributions to the Malawi economy with est. +US\$2.7b (taxes & royalties)*



Developing mining sector





Mining sector recognised as an industry of significant and near future economic importance to Malawi

Several listed companies active









| Kayelekara | Kanyika | Songwe Hill | Kangankunde |
|----------------|---------|-------------|-------------|
| Uranium | Niobium | REE | REE |
| Re-start (DFS) | DFS | DFS | Exploration |



President of Malawi made a special mention of the Kasiya discovery in his recent address to the United Nations assembly

Strong market partners established





MoU signed with Mitsui & Co for offtake and marketing rights for 30,000 tonnes per annum of natural rutile from Kasiya

MoU covers Marketing alliance will focus on Asia, a key and established growth market for high-grade titanium feedstocks

Mitsui & Co., Ltd (8031: JP) is a global trading and investment company with a diversified business portfolio that spans approximately 64 countries in Asia, Europe, North, Central & South America, The Middle East, Africa and Oceania.

Mitsui has over 5,600 employees and deploys talent around the globe to identify, develop, and grow businesses in collaboration with a global network of trusted partners. Mitsui has built a strong and diverse core business portfolio covering the Mineral and Metal Resources, Energy, Machinery and Infrastructure, and Chemicals industries.



MOU signed for supply of 20,000 tonnes of natural rutile per annum from Kasiya to US-based Chemours, one of the world's largest producers of high-quality titanium dioxide pigments

Chemours is a leading provider of performance chemicals that are key inputs in end-products and processes across a variety of industries. Chemours operates 29 manufacturing sites serving approximately 3,200 customers in approximately 120 countries.

Its Titanium Technologies segment is one of the world's largest producers of high-quality titanium dioxide (TiO_2) pigment and aspires to be the most sustainable TiO2 enterprise in the world. Using its proprietary chloride technology—pioneered in 1931 and improving ever since—Chemours provides innovative TiO_2 solutions for coatings, plastics, and laminates.

It operates four TiO_2 pigment production facilities: two in the United States, one in Mexico, and one in Taiwan totalling TiO2 pigment nameplate capacity of 1.25 million tonnes per year. In the year ended 31 December 2021, Chemours' Titanium Technologies segment reported net sales of US\$3.4 Billion.



MoU signed for supply of 25,000 tonnes of natural rutile per annum to Hascor, a market leading global processor and distributor of rutile products for the welding industry

Hascor International Group[™] is a key producer of nitrogen bearing ferro alloys, metal powders, and specialty minerals, who brings several decades of experience as a processor and global distributor of natural rutile products including rutile flour, calcined rutile and rutile sand for the welding industry. Established in 1993, the group has earned an excellent reputation for performance and consistent quality with production and distribution centres across five continents. Key locations include Houston, Hong Kong, Bangkok, Santiago, Altamira, Rotterdam, and Koper.

Critical minerals from the warm heart of Africa

2

3

World's largest natural rutile and one of the largest graphite resources

Multi-generational, tier 1 critical minerals deposit

Low-cost, large-scale operation with simple and conventional process flowsheet

Positioned to become a dominant producer of rutile and graphite – 265kt² rutile and 170kt² graphite p.a

Exceptional economics – NPV₈ post-tax of US\$1.5 billion, annual EBITDA of US\$323 million and IRR of 36%

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Low carbon and sustainable operation, targeting 100% by renewable power with progressive rehabilitation

Low carbon in use products

8

Best-in-class product specifications attracting significant end user interest



Targeting a net zero carbon project using dominantly renewable power sources with low carbon in use critical mineral products – natural rutile and graphite



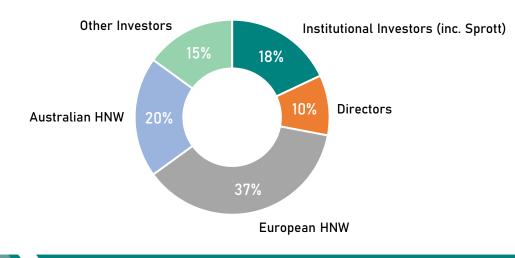


APPENDICES

Corporate Snapshot

| Capital Structure _(as at 1 Feb 23) | | | | | | |
|--|-----------------|--|--|--|--|--|
| ASX / AIM Ticker | SVM / SVML | | | | | |
| Share Price _(A\$ / P) | A\$0.51 / 28p | | | | | |
| Shares on Issue | 470.9m | | | | | |
| Undiluted Market Capitalisation _(A\$/f) | A\$240m / £131m | | | | | |
| Performance Rights | 14.4m | | | | | |
| Options | 11.1m | | | | | |
| Cash _(31 Dec 22) | A\$11.1m | | | | | |
| Debt _(31 Dec 22) | Nil | | | | | |
| Undiluted Enterprise Value | A\$228.9m | | | | | |

Share Register Breakdown



Share Price Performance (Since Feb 2020)



Well-established and having a positive contribution in Malawi already





Employment and Training of a Diverse Workforce

Sovereign currently has over 45 full-time Malawian employees and more than 50% of the professional are female.

Structured training and skills programs are in place developing a strong skill base to be able transition to the operation.

Establishment of world-class laboratory facilities



Promoting Education

Sovereign understands the importance of education and has completed and planned programs to improve the learning environment including:

- Scholarship program
- Internship program



Advancing Community Infrastructure

Sovereign has been active in developing local infrastructure with:

- Construction of community centre
 - Community water bores



Community and Stakeholder Engagement

Continued engagement with key stakeholders.

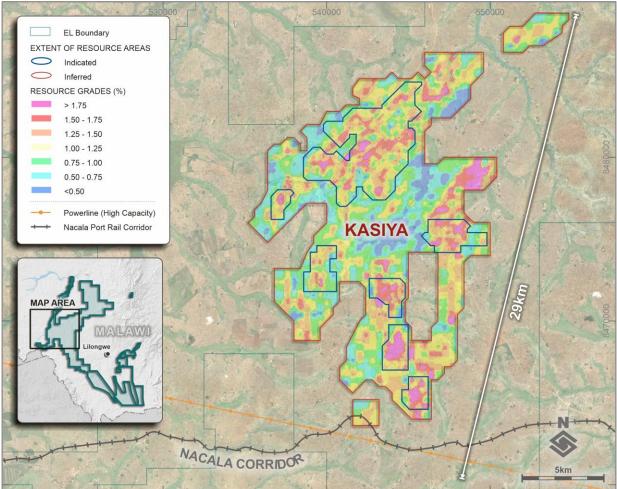
Strong community and Government support.

Simple Geology



| Kasiya Mineral Resource Estimate at 0.7% Rutile Cut-off | | | | | | | | |
|---|----------------------------------|------------------------|-----------------------------|--|--------------------------|------------------------------|--|--|
| Mineral Resource Category | Material Tonnes (millions) | Rutile Grade (%) | Rutile Tonnes (millions) | Total Contained Graphite (TGC) (%) | TGC Tonnes (millions) | RutEq. Grade ¹ | | |
| Indicated | 662 | 1.05% | 6.9 | 1.43% | 9.5 | 1.76% | | |
| Inferred | 1,113 | 0.99% | 11.0 | 1.26% | 14.0 | 1.61% | | |
| Total | 1,775 | 1.01% | 18.0 | 1.32% | 23.4 | 1.67% | | |

- Simple Geology. High grade mineralisation at shallow depth generally with grades of 1.2% to 2.0% rutile in the top 3–5m from surface
- Moderate grade mineralisation generally 0.5% to 1.2% rutile commonly extends to deeper depths averaging about 20m

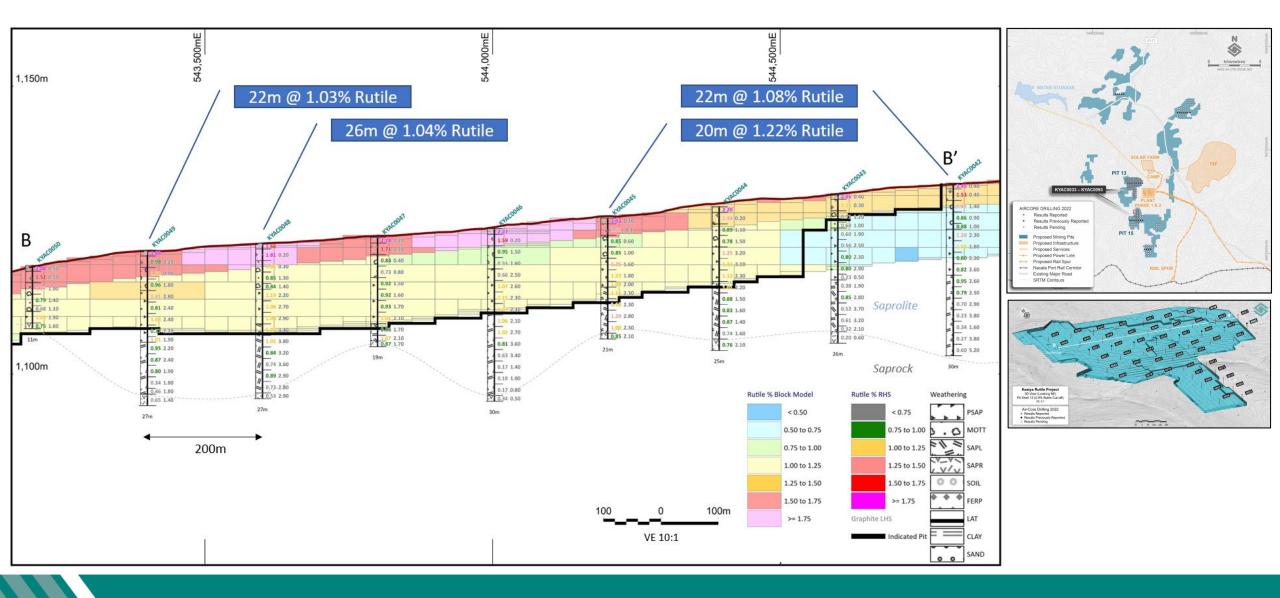


Source: Sovereign Metals

1. Rutile Grade x Recovery (98%) x Rutile Price (US\$1,308/t) + Graphite Grade x Recovery (62%) x Graphite Price (US\$1,085/t) / Rutile Price (US\$1,308/t) All assumptions taken from the Company's Expanded Scoping Study released 16 June 2022

Further Mineralisation at Depth





Simple Mining Hydro-mining a proven mining technique

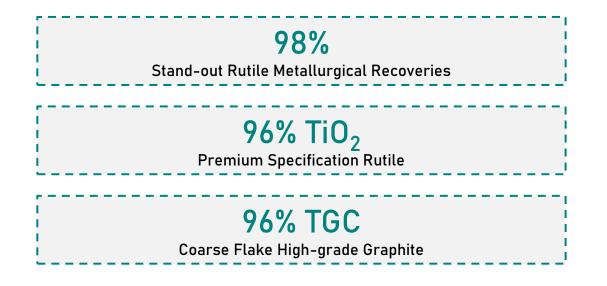
- Kasiya's mineralisation largely homogenous and relatively consistent with material conducive to hydro-mining
- Long history of successful hydro-mining of heavy mineral deposits across southern Africa
- Numerous African heavy minerals operations use hybrid hydro / dozer mining methods that provide significant operational flexibility

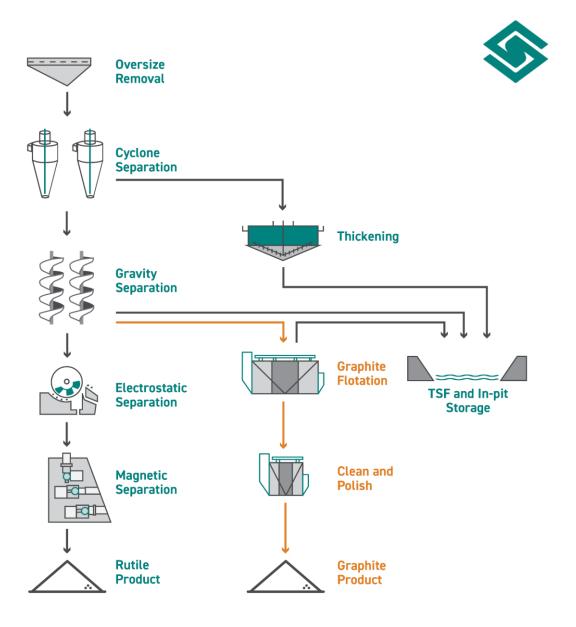


Simple Processing

Premium-grade rutile produced via conventional flowsheet

- Robust metallurgy
- Conventional graphite flotation plant at marginal incremental cost

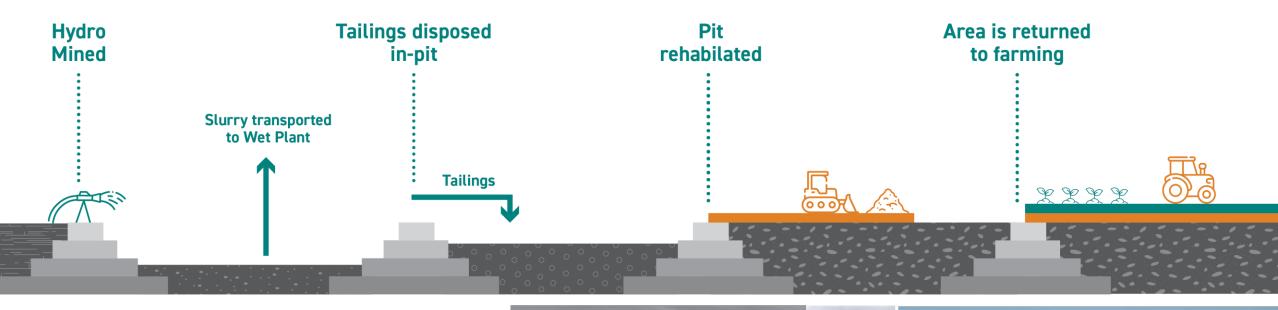




Simple Mining and Progressive Rehabilitation

Socially responsible and sustainable





- In-pit disposal minimises disturbance
- Progressive returning of land to communities
- Efficient closure campaign at end of mine life



Exceptionally low carbon operation





100% renewable

hydro-power from the grid plus solar facility on site

Cleaner sustainable operation

- Hydro-mined (significant dust and noise reduction)
- Simple low energy processing
 - Gravity
 - Electrostatic
 - Magnetic
 - Flotation (graphite only)
- Investigating options for a totally carbon neutral operation

JCM Power 60MW Solar facility Salima, Malawi



Rutile - Premium Product

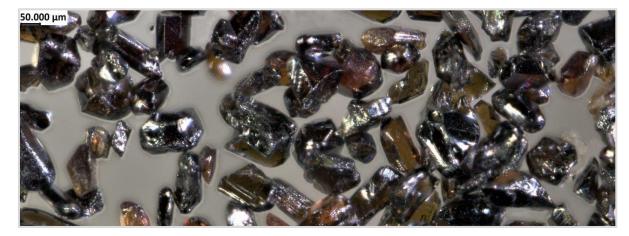
Kasiya Rutile Specifications

| | | Kasiya | iya Peer Comparisons (Prod | |
|------------------------------------|---------|-------------------------|----------------------------|---------------------------|
| Constituent | | 98% Recovery Product | Sierra Rutile (Iluka) | Base Resources (Kwale) |
| TiO ₂ | % | 96.0 | 96.3 | 96.2 |
| ZrO ₂ +HfO ₂ | % | 0.21 | 0.78 | 0.72 |
| Si0 ₂ | % | 0.90 | 0.62 | 0.94 |
| Fe ₂ 0 ₃ | % | 0.94 | 0.38 | 1.25 |
| Al ₂ O ₃ | % | 0.90 | 0.31 | 0.23 |
| Cr ₂ O ₃ | % | 0.14 | 0.19 | 0.17 |
| V ₂ O ₅ | % | 0.70 | 0.58 | 0.52 |
| Nb ₂ O ₅ | % | 0.40 | 0.15 | - |
| P ₂ O ₅ | % | 0.013 | 0.01 | 0.00 |
| MnO | % | 0.02 | 0.01 | 0.03 |
| MgO | % | 0.003 | 0.01 | 0.10 |
| CaO | % | 0.003 | 0.01 | 0.04 |
| S | % | 0.002 | <0.01 | - |
| U+Th | pp m | 32 | 26 | 53 |

Kasiya Rutile Particle Size Distribution



Product Sample Photomicrograph



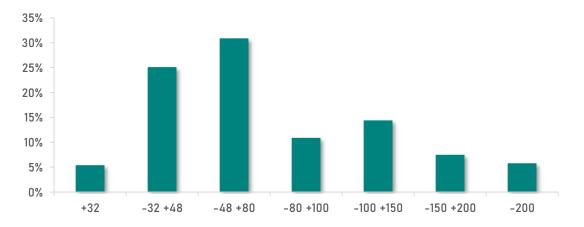
Graphite – Premium Product Specifications



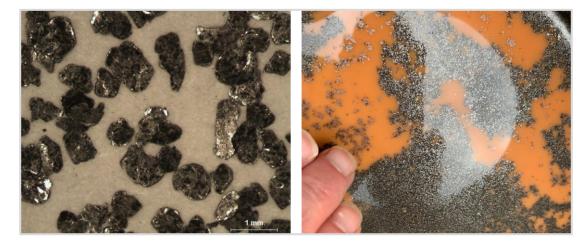
Kasiya Graphite Specifications

| Partic | le Size | Carbon | Weight Distribution | Flake Category |
|------------|------------|--------|------------------------|----------------|
| Tyler Mesh | Micron (µ) | (%) | (% w/w) | |
| +32 | +500 | 96.0 | 5.4 | Super Jumbo |
| -32 +48 | -500 +300 | 96.6 | 25.1 | Jumbo |
| -48 +80 | -300 +180 | 96.7 | 30.9 | Large |
| -80 +100 | -180 +150 | 96.8 | 10.9 | Medium |
| -100 +150 | -150 +106 | 96.11 | 14.4 | Small/Medium |
| -150 +200 | -106 +75 | 95.8 | 7.5 | Small |
| -200 | -75 | 93.8 | 5.8 | Amorphous |
| То | tal | 96.3 | 100 | |

Kasiya Graphite Flake Size Distribution



Kasiya Flake Graphite Product Sample



Ongoing Activities to PFS and Future Work Program



| | CY 2 | 2022 | | CY 2023 | | | CY 2024 | | | |
|---------------------------------------|------|------|----|---------|----|----|---------|----|----|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| Kasiya Project | | | | | | | | | | |
| Expanded Scoping Study | | | | | | | | | | |
| Resource Drilling | | | | | | | | | | |
| PFS & Mineral Resource Update | | | | | | | | | | |
| Offtake Discussions & Announcement | | | | | | | | | | |
| Environmental & Project Permitting | | | | | | | | | | |
| DFS | | | | | | | | | | |

Demerger of Standalone Graphite Projects



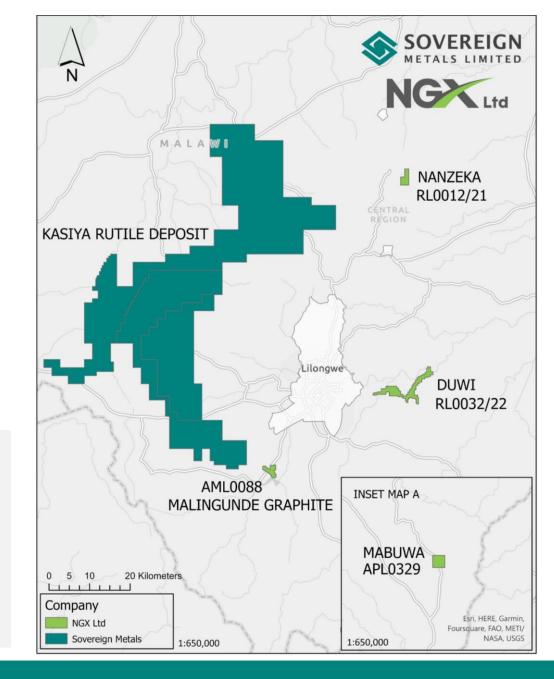
NGX aims to IPO on the ASX



Three graphite projects ranging from exploration and development level (Malingunde, Duwi and Nanzeka)

New dedicated board and management team to focus on the development of the Graphite Projects

Sovereign will retain all graphite co-product from the Kasiya Project



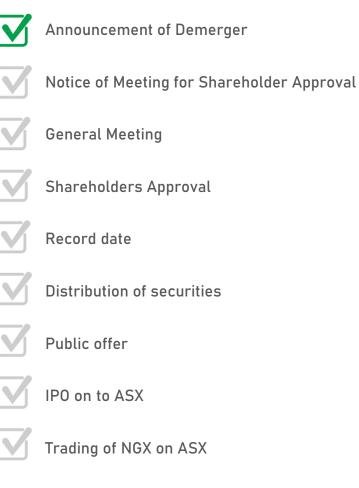
Demerger of Standalone Graphite Projects (cont.)



Rationale for the Demerger

- The Demerger allows the Company to better focus its efforts and resources on Kasiya and other primary rutile discoveries.
- The Demerger will provide shareholders with an interest in two companies Sovereign and NGX. The Board believes a separate entity with a separate management team focused on the Graphite Projects presents a better prospect of delivering value to Sovereign shareholders.
- The Board sees considerable potential in the Graphite Projects that is not recognised by the market and, therefore, a dedicated, separately funded vehicle may realise appropriate value for shareholders.
- Future capital raisings are expected to be more readily achieved by each individual entity as the focus of the funding will be on their specific projects. In addition, it is expected to provide greater flexibility to both Sovereign and NGX to attract strategic investors.
- NGX will have a dedicated board and management team to focus on the development of the Graphite Projects.
- After a full and proper assessment of all available information, the Directors believe that the Demerger is in the best interests of Sovereign shareholders.







Thank you

Appendix - Peer Sources



MINERAL SANDS PEER INFORMATION

| Reference | Company | Project | Stage of Development | Revenue to Cost ratio | Source |
|------------------------------|---------------------|-------------|----------------------|-----------------------|---|
| Ilmenite -Madagascar | Base Resources | Toliara | FS Complete | 3.5 | ASX Announcement: https://wcsecure.weblink.com.au/pdf/BSE/02426235.pdf |
| Ilmentie – Western Australia | Strandline | Coburn | Construction | 2.4 | Investor Presentation: https://www.strandline.com.au/irm/PDF/35d74951-750a-4bdf-8234- |
| | | | | | 62e58a2d10a9/InvestorPresentation |
| Zircon – Western Australia | Sheffield Resources | Thunderbird | FS Complete | 2.1 | ASX Announcement: https://www.sheffieldresources.com.au/site/PDF/1b39388b-3a10-4733- |
| | | | | | 9976-167a3d4a2333/BFSUpdateMateriallyImprovesProjectEconomics |
| Ilmenite – Greenland | Bluejay Mining | Dundas | FS Complete | 2.0 | Investor Presentation: https://bluejaymining.com/wp-content/uploads/2021/09/Jay-Corporate- |
| | | | | | September-2021-1.pdf |

GRAPHITE PEERS INFORMATION

| | Company | Project | Stage of Development | Operating Costs (FOB) <i>US\$/t</i> | Steady State Production <i>tpa</i> | Current Production <i>tpa</i> | Source |
|---|--------------------------------|-----------------|----------------------|---|--|----------------------------------|---|
| А | Walkabout Resources | Lindi | Construction | 347 | 40,000 | n/a | ASX Announcement: Updated DFS Confirms Standout Graphite Project(7 Mar 2019) |
| В | Renascor | Siviour | DFS Complete | 355 | 105,000 | n/a | ASX Announcement: Siviour Definitive Feasibility Study (11 Nov 2019) |
| С | Mason Graphite ¹ | Lac Gueret | FS Complete | 370 | 51,865 | n/a | SEDAR FILING: NI 43-101 Technical Report: Feasibility Study Update of the Lac Gueret Graphite Project (12 Dec 2018) |
| D | Nouveau Monde ¹ | Matawinie | Construction | 382 | 100,000 | n/a | SEDAR FILING: NI 43-101 Technical Feasibility Study Report for the Matawinie Graphite Project (10 Dec 2018) |
| Е | Syrah Resources ² | Balama | Production | 464 | 184,000 | 46,000 | ASX Announcement: Q1 2022 Quarterly Activities Report (27 Apr 2022) |
| F | NextSource Materials | (Molo Phase 2) | PEA Complete | 496 | 150,000 | n/a | Press Release: MD&A March 2022 (16 May 2022) |
| G | Ecograf | Epanko | BFS Complete | 500 | 60,000 | n/a | ASX Announcement: Positive Response to Proposed US\$60m Epanko Debt Financing (10 Mar 2019) |
| Н | SRG Mining | Lola | FS Complete | 508 | 55,000 | n/a | SEDAR FILING: Lola Graphite Project NI 43-101 Technical Report - Feasibility Study (16 Aug 2019) |
| Ι | Magnis Energy | Nachu | BFS Complete | 559 | 220,000 | n/a | ASX Announcement: Nachu Bankable Feasibility Study Finalised (31 Mar 2016) |
| J | NextSource Materials | (Molo Phase 1) | Construction | 566 | 17,000 | n/a | SEDAR Filing: 2021 Annual Information Form (28 Sep 2021) |
| K | Triton Minerals | Ancuabe | DFS Complete | 634 | 60,000 | n/a | COMPANY PRESENTATION: Developing the World Class Ancuabe Graphite Project (16 Feb 2022) |
| L | Northern Graphite ³ | Bisset Creek | FS & PEA | 660 | 44,000 | n/a | COMPANY PRESENTATION: Building the leading public graphite company (May 2022) |
| М | Volt Resources | Bunyu (Stage 1) | FS Complete | 664 | 23,700 | n/a | ASX Announcement: Positive Stage 1 Feasibility Study For Bunyu Graphite Project, Tanzania (30 Jul 2018) |
| Ν | Graphite One | Graphite One | PEA Complete | 960 | 60,000 | n/a | NI 43-101 Preliminary Economic Analysis On the Graphite One Project (30 Jun 2017) |

Appendix - Peer Sources



RUTILE MINERAL RESOURCES INFORMATION

| Ref | Company | Project | Status | Source |
|-----|-----------------|---------------|--------------------------|---|
| 1 | Iluka Resources | Sierra Rutile | Production & Development | Iluka Resources Limited's 2021 Annual Report (released on ASX 24/02/2022) |
| 2 | Iluka Resources | Balranald | Development | lluka Resources Limited Annual Ore Reserve and Resources as at 31 December 2021: https://iluka.com/CMSPages/GetFile.aspx?guid=213396d8-1630-49ff-8d1b-fe4b1ee71e7e |
| 3 | Base Resources | Kwale | Production | Updated Kwale North Dune and maiden Bumamani Mineral Resource Estimate (released on ASX 19/02/2021) |

Detailed Mineral Resources by Category

| 1. Iluka Resources – Sierra Rutile | | | |
|------------------------------------|-----|---------------|----------------|
| | Mt | Rutile Grade* | In-situ Rutile |
| Measured | 178 | 1.4% | 2.4 |
| Indicated | 309 | 1.0% | 3.1 |
| Inferred | 265 | 1.0% | 2.6 |
| Total | 752 | 1.1% | 8.1 |
| 2. Iluka Resources - Balranald | | | |
| | Mt | Rutile Grade* | In-situ Rutile |
| Measured | 12 | 3.8% | 0.5 |
| Indicated | 28 | 4.3% | 1.2 |
| Inferred | 13 | 3.0% | 0.4 |
| Total | 53 | 3.7% | 2.0 |
| 3. Base Resources - Kwale | | | |
| | Mt | Rutile Grade* | In-situ Rutile |
| Measured | 160 | 0.3% | 0.3 |
| Indicated | 91 | 0.2% | 0.2 |
| Inferred | 13 | 0.2% | 0.2 |
| Total | 254 | 0.2% | 0.7 |

* Rutile grade calculated as HM% times rutile % of assemblage

Appendix - Peer Sources



GRAPHITE RESOURCE INFORMATION

| Ref | Company | Project | Project Status | Source |
|-----|----------------------|---------------|----------------|--|
| 1 | Syrah Resources | Balama | Production | Syrah Resources Limited's 2021 Annual Report (released on ASX 24/02/2022) |
| 2 | Volt Resources | Bunyu | FS Complete | Volt Resources Limited's 2021 Annual Report (released on ASX 29/09/2021) |
| 3 | Black Rock Mining | Mahenge | FS Complete | ASX Announcement: Black Rock Mining confirms 25% increase in Measured Mineral |
| | | | | Resource, now the largest in class globally (released 3/02/2022) |
| 4 | Mason Graphite | Lac Gueret | FS Complete | Mason Graphite's Corporate Presentation released July 2021 |
| 5 | Magnis Energy | Nachu | BFS Complete | Magnis' Corporate Presentation released February 2022 |
| 6 | NextSource Materials | Molo | PEA Complete | https://www.nextsourcematerials.com/graphite/molo-graphite-project/ |
| 7 | Graphite One | Graphite One | PEA Complete | https://www.graphiteoneinc.com/graphite-one-increases-tonnage-grade-and-contained- |
| , | | orapinte one | | graphite-of-measured-and-indicated-and-inferred-resources-in-updated-mineral- |
| | | | | resource-estimate/ |
| 8 | Focus Graphite | Lac Tetepisca | Resource | https://focusgraphite.com/focus-graphite-reports-major-maiden-mineral-resource- |
| - | | | | estimate-at-lac-tetepisca-quebec/ |

Detailed Mineral Resources by Category

| 1. Syrah Resources – Balama | | | |
|--------------------------------|-------|---------|-------------|
| | Mt | TGC (%) | In-situ TGC |
| Measured | 23 | 17.5% | 4.0 |
| Indicated | 378 | 11.2% | 42.3 |
| Inferred | 1,020 | 9.8% | 100.0 |
| Total | 1,421 | 10.3% | 146.3 |
| 2. Volt Resources - Bunyu | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | 20 | 5.3% | 1.1 |
| Indicated | 155 | 5.0% | 7.8 |
| Inferred | 286 | 4.9% | 14.0 |
| Total | 461 | 4.9% | 22.6 |
| 3. Black Rock Mining – Mahenge | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | 32 | 8.6% | 2.7 |
| Indicated | 85 | 7.8% | 6.6 |
| Inferred | 97 | 7.4% | 7.2 |
| Total | 213 | 7.8% | 16.6 |
| 4. Mason – Lac Gueret | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | 19.0 | 17.9% | 3.4 |
| Indicated | 46.5 | 16.9% | 7.9 |
| Inferred | 17.6 | 17.3% | 3.4 |
| Total | 83.2 | 17.6% | 14.7 |

| 5. Magnis - Nachu | | | |
|--------------------------------|-----|---------|-------------|
| | Mt | TGC (%) | In-situ TGC |
| Measured | 63 | 4.7% | 3.0 |
| Indicated | 61 | 5.7% | 3.5 |
| Inferred | 50 | 5.8% | 2.9 |
| Total | 174 | 5.4% | 9.3 |
| 6. NextSource – Molo | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | 160 | 0.3% | 0.3 |
| Indicated | 91 | 0.2% | 0.2 |
| Inferred | 13 | 0.2% | 0.2 |
| Total | 254 | 0.2% | 0.7 |
| 7. Graphite One – Graphite One | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | 2 | 8.0% | 0.1 |
| Indicated | 9 | 7.7% | 0.7 |
| Inferred | 92 | 8.0% | 7.3 |
| Total | 103 | 8.0% | 8.2 |
| 8. Focus – Lac Tetepisca | | | |
| | Mt | TGC (%) | In-situ TGC |
| Measured | - | -% | - |
| Indicated | 59 | 10.6% | 6.3 |
| Inferred | 15 | 11.1% | 1.6 |
| Total | 74 | 10.6% | 7.9 |