



## Projects Update and Strategic Plan

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### Ellendale Diamond Project, WA

**GIB 100%**

- Gibb River Diamonds Limited (GIB) regaining 100% control of the Ellendale Diamond Project in WA delivers to GIB a significant opportunity. This Project was a prolific and globally significant diamond mine, with previous operators reporting a combined market capitalization of over \$690 million in 2006 on leases now held by GIB
- The Company's aim at Ellendale is to re-establish diamond production and to maximise the value of that production
- GIB has selected four main target areas which the Company considers offer the best opportunities to re-establish production: E9 Lights Stockpile; E12 Alluvials; E9 West Alluvials; E9 East Alluvials
- Various studies, including resource studies, have commenced on these areas with a view to acquiring the permitting which will be required in order to re-establish mining at Ellendale
- Diamond valuation studies have been commissioned in order to obtain valuations on diamonds which were previously produced from these areas
- Mining lease grant negotiations with the Bunuba Dawangarri Aboriginal Corporation have been re-initiated by GIB

### Edjudina Gold Project, WA

**GIB 100%**

- Kalgoorlie based group BM Geological Consultancy (BMGS) are working with GIB to calculate the initial geological resource for the Neta Gold Prospect at Edjudina

### Iroquois Zn-Pb Project, WA

**GIB 20% Free-carried to BFS**

- On 8 March 2023, GIB JV partner Strickland Metals Limited announced to the ASX, the commencement of a new drilling program at the highly prospective Iroquois Zn-Pb Project
- GIB welcomes this drilling program and keenly awaits the assay results

### Highland Plains Phosphate Project, NT

**GIB 100%**

- The Company is seeking a strategic investment partner to assist GIB to progress the Highland Plains Phosphate Project, which has a JORC (2004) Inferred Resource of 53 million tonnes at 16% P<sub>2</sub>O<sub>5</sub>
- Rock Phosphate prices remain high with the most recent World Bank price quoted as US\$345.00/tonne, which is an increase of US\$45.00 from the January price

## 1.0 Ellendale Project Update

GIB 100%

Gibb River Diamonds Limited ('GIB' or the 'Company') recently regained 100% control of the Ellendale Diamond Project, WA. This change of control, delivers to GIB an exciting opportunity at Ellendale to put in place plans to re-develop this once prolific and globally significant diamond mine. Ellendale's production included the annual supply of over 50% of the world's Fancy Yellow diamonds, which were the subject of a special marketing agreement between former operators and Tiffany & Co.

The Ellendale Project has been one of the world's largest diamond producers in the past, with previous operators reporting a combined market capitalization of over \$690 million in 2006 on leases now held by GIB.

GIB's aim at the Ellendale Diamond Project is to re-establish diamond production and to maximise the value of that production.

**Figure 1: Ellendale Diamond Project – Targets E9 Lights, E9 Alluvials & E12 Alluvials**

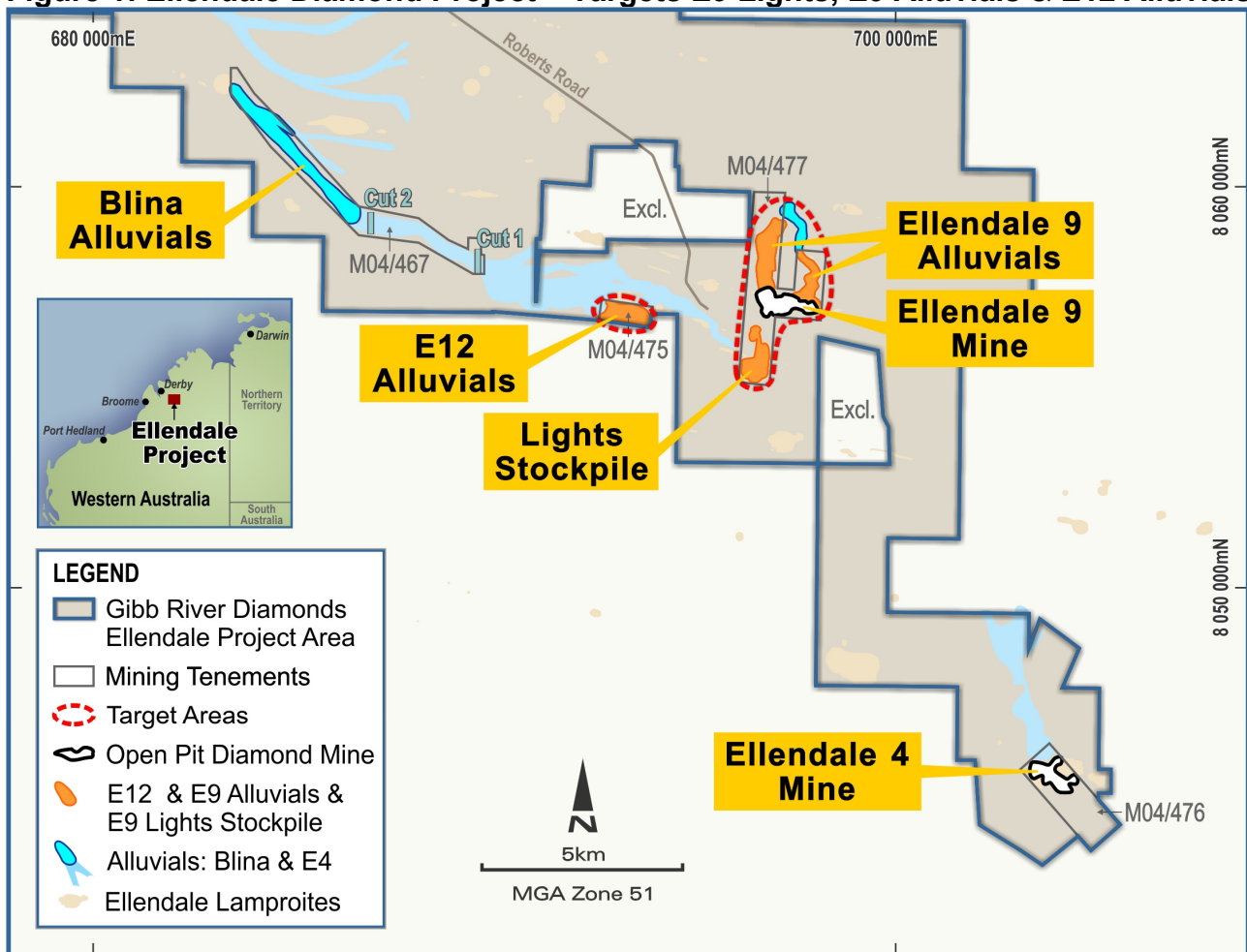
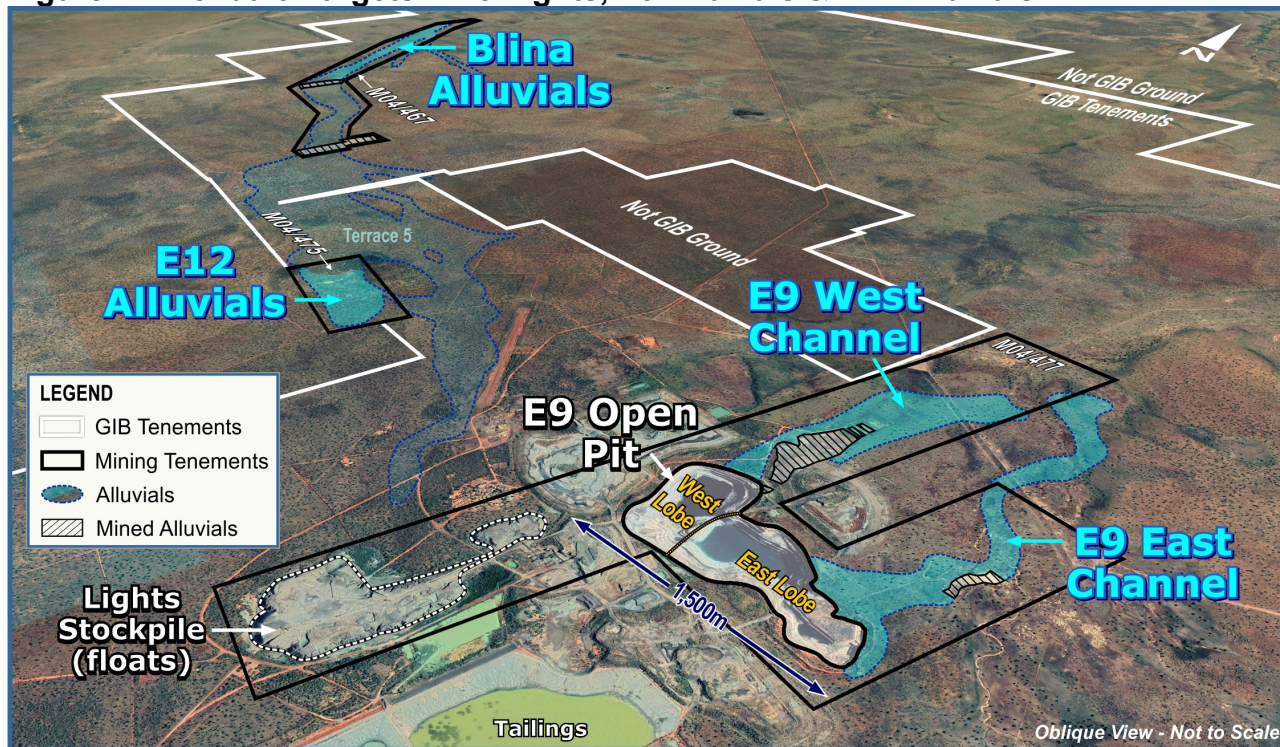


Figure 2: Ellendale Targets -- E9 Lights, E9 Alluvials & E12 Alluvials



### 1.1 Milestones Towards Re-Establishing Production

In order to re-establish diamond production at Ellendale, a number of milestones need to be achieved. The Company is fortunate to be in possession of almost all of the historic data from previous work conducted at Ellendale. This includes datasets covering exploration, mining, resources, metallurgical, diamond valuations, sales, geotechnical, geophysics, geochemistry, environmental, etc.

This historic data is extremely valuable to GIB and is now being used as the basis for the studies and permitting applications which will be required in order re-establish mining at Ellendale. These various Company objectives or milestones include:

### 1.2 Resource Studies on the Main Target Areas

There are numerous areas of diamond mineralisation at Ellendale. After careful consideration, GIB has selected four main target areas which the Company considers offer the best opportunities to re-establish production. These are the areas which are receiving the main focus of the Company in terms of resource and permitting work.

These four target areas are in the vicinity of the former Ellendale 9 minesite which historically produced the largest and most valuable diamonds in the field, including production with the highest proportion of Fancy Yellows<sup>5,6,7&8</sup>. The main target areas are:

- **E12 Alluvials:** this area lies approximately 3km west of the E9 open pit and has been extensively tested by previous operators. A parcel of 428 carats of diamonds was recovered from this area during work conducted in 2006 to 2007 and these diamonds gave excellent valuations<sup>7</sup>. This target area is covered by GIB's mining licence application M04/475.
- **E9 Lights Stockpiles:** the treatment of material from previous mining operations involved separating the ore into two streams based upon density, this was done using Dense Media Separation (DMS) cyclones. The heavier diamond bearing material, known as 'Heavies' or 'concentrate', was sent to X-ray Flowsort machines for diamond separation.

The lighter fraction, called the 'Lights' still contained diamonds (at a lower grade), that were not recovered by the initial DMS treatment. These Lights were stockpiled for potential future treatment. The main Lights Stockpile at E9 is extensive and sits on GIB's mining lease application M04/477 (Figure 1).

The recovery of diamonds from the Lights may be aided by the ongoing weathering of the Lights Stockpile which has occurred since mining and processing commenced at E9 in 2004 and ceased in August 2014<sup>3</sup>. The Lights consist of mainly lamproite rock which is susceptible to weathering.

Significant bulk testing and diamond recovery were conducted over the main Lights Stockpile at E9 by previous operators. This information is currently being compiled and will be reported in due course.

- **E9 West Alluvials:** This area was partly mined by Blina Diamonds NL between 2005 and 2008 recovering 26,481 carats (Figure 2)<sup>5</sup>. Surrounding areas were sampled and then pre-stripped for mining, but were not mined. These areas are targets for GIB and will be reported on in due course.
- **E9 East Alluvials:** This area was partly mined by Blina Diamonds NL between 2007 and 2008 recovering 2,307 carats (Figure 2)<sup>5</sup>. These areas are currently being assessed by GIB and include a deflation zone around the edge of the E9 pit.

Various studies have commenced on these four area and further updates will follow.

### Some of the diamonds (152.43 carats) recovered from the 2007 bulk sampling of the E12 Alluvials



#### 1.3 Updated Diamond Valuations

GIB has recently commissioned updated valuations of diamonds recovered by previous operators from the targeted mining areas. These diamond valuations are being conducted by specialist group 'Independent Diamond Valuers International' (IDVI).

IDVI was responsible for sorting, grading, valuing and selling diamonds from the Ellendale Diamond Project from 2002 to 2015. GIB considers IDVI to be a reputable, experienced, independent and qualified expert for the purposes of these valuations.

These valuations will use historic diamond grading data from the areas concerned and will be updated using current diamond valuation inputs. This important valuation information will be used to assist the Company with its resource and economic modelling.

#### 1.4 Grant of Mining Licenses

The Company is seeking the grant of the three mining license applications M04/475, M04/476 and M04/477 (Figure 1), which cover the main portions of the historic workings at E4 and E9, together with the highly prospective E12 alluvials. This grant is currently awaiting an agreement with the Bunuba Dawangarri Aboriginal Corporation (Bunuba).

The Company has recently written to the Bunuba group with a proposal for the grant of the mining leases. GIB Executive Chairman, Mr Richards, does have a good track record in getting mining leases granted in the West Kimberley<sup>2</sup> and is aiming towards the grant occurring within an appropriate commercial timeframe.

**1.5 Blina Diamond Prospect**

On 20 March, GIB announced that the previous operator of the Ellendale Diamond Project, Burgundy Diamond Mines Ltd (BDM), were electing not to exercise their Option Deed to acquire the project. BDM intends to instead focus on completion of the proposed acquisition of the world-class Ekati Diamond Mine ('Ekati'), located in Canada's Northwest Territories (BDM announcement to ASX dated 14 March 2023).

During their time operating the Ellendale Project, BDM conducted bulk sampling operations on the Blina Diamond Prospect. This work was carried out in a professional manner, but due to a limited number of sampling sites (two trenches), GIB does not consider the Blina Prospect has been tested for the high-grade trap site targets which were GIB's exploration model.

BDM will fully rehabilitate the site for any disturbances for which they were responsible as per the Option Agreement.



**Blina Diamond Project**

Mining lease M04/467 looking north-west along the diamondiferous Terrace 5.

The BDM sampled Trenches 1 and 2 are the near and far earthworks respectively.

The BDM bulk sampling process plant and TSF is between the two trenches.

BDM is currently working on the rehabilitation of this site.

(photo August 2022)

### **1.5.1 GIB's Blina Diamond Prospect Strategy**

GIB's believes that to properly test the Company's 'High-Grade Trap Site' geological model at Blina would require approximately 100 sample sites to be bulk tested on the 7km long mining lease M04/467.

This testing would enable to Company to properly ascertain the area's prospectivity for high grade, diamond bearing material within trap-sites. The Blina Prospect area remains fully permitted and 'shovel ready' to commence these bulk-sampling operations.

GIB considers the Ellendale 9 Prospect area to have greater geological certainty than the Blina Alluvial Prospect, and so the Company will concentrate its focus on getting the E9 Prospect area assessed and permitted for mining, in priority to Blina at this time.

Should E9 be operating and have a diamond recovery plant up and running, it would then be easier to manage the Blina exploration cost of bulk sampling by campaign processing (testing) the Blina samples using the E9 plant.

## **2.0 Edjudina Gold Project, WA**

**GIB 100%**

GIB's Edjudina Gold Project is 145km north east of Kalgoorlie and is located in the heart of the Eastern Goldfields of WA. The project comprises multiple parallel lines of nearly continuous historic gold workings over a 13km strike in which high grade veins have been worked. A haul road owned and operated by Northern Star Resources Limited runs through the north of the project tenement directly to the Carosue Dam milling complex 45 km to the south-west.

The Company acquired the Edjudina Project in July 2020 and quickly discovered the significant Neta Gold Prospect (discovery hole was 36m at 4.0 g/t Au from 4 metres), which has been the subject of a considerable amount of drilling and metallurgical work by GIB.

Kalgoorlie based group BM Geological Consultancy (BMGS) are working with GIB to calculate a geological resource for the Neta Gold Prospect at Edjudina. The Company aims to have a resource published as soon as is practicable. BMGS is a leading Australian geological consultancy specialising in providing mine geology and exploration geology services to the Minerals Industry in the region and globally.

## **3.0 Iroquois Zn-Pb Project, WA**

**GIB 20% free carry**

GIB holds a 20% equity in tenement E69/2820 which lies approximately 100km north-east of Wiluna, WA. The project is managed within a Joint Venture between ASX listed Strickland Metals Limited (STK) and GIB. The tenement hosts the Iroquois Zn-Pb Project which has previously reported excellent drilling results including IQRC001: 23m @ 5.5% Zn + Pb from 108m<sup>10</sup>.

On 8 March 2023, STK announced to the ASX, the commencement of a new drilling program at the Iroquois Project, reported as follows:

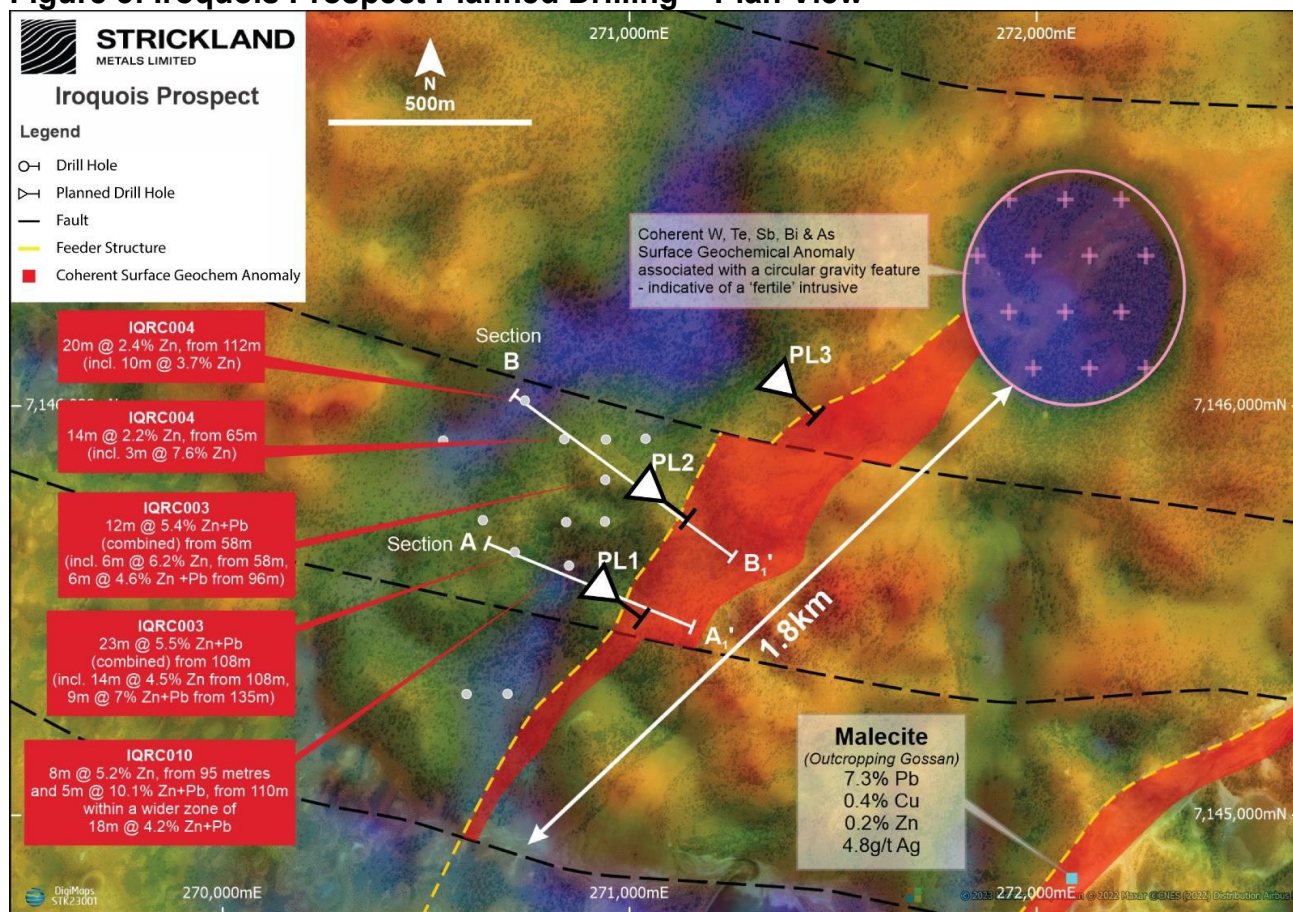
- Recent work at Iroquois has delineated a new, coherent geological model for the mineralised system, suggesting potential for a much larger footprint of Cu-Zn-Ag-Pb mineralisation than initially thought
- A minimum of three diamond holes will be drilled at Iroquois as part of an initial pre-IPO program
- The holes are targeting the as-yet-untested ‘feeder structure’ to the Zn-Pb mineralisation, which is anticipated to also be enriched in copper and silver
- This drilling, along with a subsequent seismic survey, will provide crucial information for targeting additional feeder structures within the wider project area post-IPO

**NB – IPO is Initial Public Offering**

STK has proposed to demerge the Iroquois asset from STK (see STK announcement 21 October 2022. Or ‘Demerger’). The Demerger remains subject to STK obtaining the necessary shareholder, ASX and regulatory approvals. The Demerger will create a dedicated, Western Australia focused base metals exploration company. The Demerger will enable Strickland to focus its resources on developing its Yandal Gold Project.

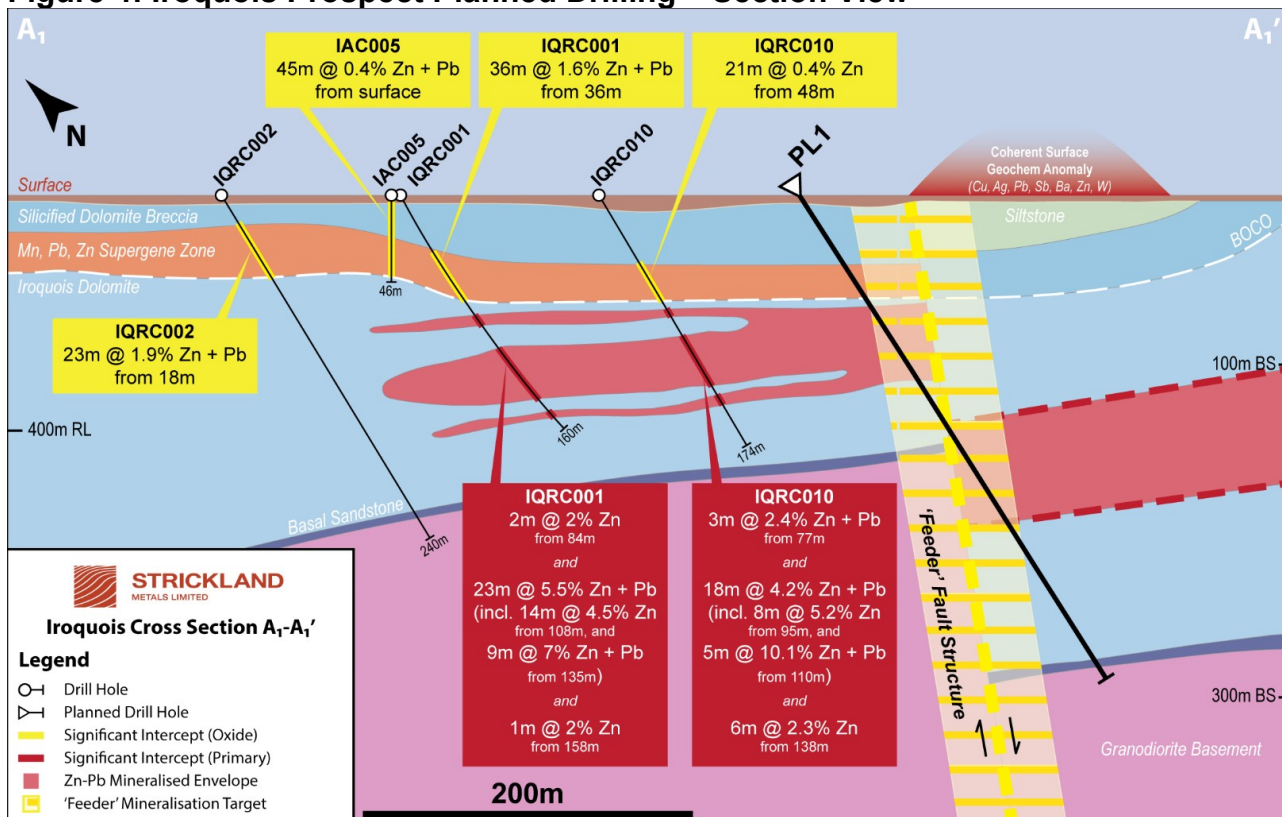
The 20% GIB equity is free carried to completion of Bankable Feasibility Study (BFS). The terms and conditions of GIB’s free carried equity will be unaffected by the proposed Demerger. GIB welcomes the drilling program outlined above and keenly awaits the assay results from this activity.

**Figure 3: Iroquois Prospect Planned Drilling – Plan View**





**Figure 4: Iroquois Prospect Planned Drilling – Section View**



**4.0 Lithium Generative Project, WA**

**GIB 100%**

GIB has conducted a significant amount of grass roots generative work and follow-up fieldwork targeting lithium and Rare Earth Element (REE) mineralisation in Western Australia. Despite a number of technical successes and numerous new pegmatites being discovered, no commercial mineralisation has been found to date.

With the renewed Company focus on the Ellendale Diamond Project, the Board has decided to withdraw most of the lithium/REE tenement applications and to concentrate our financial and human resources on developing the more prospective and commercially attractive Ellendale Project. A summary of the tenement changes will be included in the upcoming quarterly report.

**5.0 Highland Plains Phosphate Project, NT**

**GIB 100%**

The NT Phosphate Project includes the Highland Plains Phosphate Project which has a JORC (2004) compliant Inferred Resource of 53 million tonnes at 16% P<sub>2</sub>O<sub>5</sub>, (ASX release dated 31 March 2009)<sup>11</sup>. The project is 100% owned by GIB with no private royalties.

The Project also includes tenements EL33304 and EL33305. These tenements are proximal to the Company’s Highland Plains Phosphate Project and target the same embayment-style phosphate mineralisation that is found at Highland Plains.

The Company is seeking a strategic investment partner to assist GIB to progress the Highland Plains Phosphate Project or to further a trade sale. The Company continues to receive enquiries regarding the Highland Plains Project.

Rock Phosphate prices remain high with the most recent World Bank Pink Sheet average monthly price for March 2023, quoted as US\$345.00/tonne, which is an increase of US\$45.00 from the January published price.

## **6.0 Future Funding**

GIB currently holds nine million shares in ASX-listed BDM. On 19 December 2022, BDM requested a voluntary suspension from quotation on the ASX 'pending the release of an announcement regarding a proposed material acquisition'. Prior to this suspension, BDM shares last traded at 30 cents. On 14 March 2023, BDM announced to the ASX the proposed 'Transformational acquisition of the Ekati Diamond Mine, Canada'.

BDM's proposed acquisition of the world-class Ekati Mine, appears to be an extremely attractive deal for BDM shareholders. This in turn represents an excellent opportunity for GIB shareholders to realise value through GIB's holding of nine million BDM shares.

The nine million BDM shares which GIB currently holds are a material asset for our Company and represent an opportunity for GIB to source ongoing operational funding once BDM re-lists. GIB awaits with interest an update regarding this proposed acquisition and re-listing.

## **7.0 Summary**

The recent regaining control over the Ellendale Diamond Project delivers to GIB a significant opportunity which is to re-establish diamond production at Ellendale. A clear plan and set of objectives has been generated by the Company which focuses on progressing towards development the areas which the Company considers offer the best opportunities to re-establish production. Various studies have commenced on these four area and further updates will follow.

Meanwhile, work to calculate a geological resource for the Neta Gold Prospect at Edjudina, WA, continues with the assistance of Kalgoorlie based group BM Geological Consultancy. The Company aims to have a resource published as soon as is practicable.

GIB holds a 20% equity in tenement E69/2820 which lies approximately 100km north-east of Wiluna, WA. On 8 March 2023, GIB JV partner Strickland Metals Limited announced to the ASX, the commencement of a new drilling program at the highly prospective Iroquois Zn-Pb Project and the Company looks forward to the results from this drilling program.

With the renewed Company focus on the Ellendale Diamond Project, the Board has decided to withdraw most of the lithium/REE tenement applications and to concentrate our financial and human resources on developing the more prospective and commercially attractive Ellendale Project.

The Company is excited to be progressing the Ellendale Diamond Project and believes there is excellent potential to re-establish a commercial diamond operation at this site. This, together with the other projects and assets the Company holds puts GIB in an excellent position moving forward.

Jim Richards  
Executive Chairman

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### **Caution regarding Forward Looking Information**

*This document contains forward looking statements concerning Gibb River Diamonds Limited. Forward looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward looking statements in this document are based on GIB's beliefs, opinions and estimates as of the dates the forward-looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions or estimates should change or to reflect other future developments.*

### **Competent Persons Statement**

*The information in this report that relates to previously reported exploration results and new exploration results is based on information compiled by Mr. Jim Richards who is a Member of The Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Mr. Richards is a Director of Gibb River Diamonds Limited. Mr. Richards has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Richards consents to the inclusion in the report of the matters based on the information in the form and context in which it appears*

*The Information in this report that relates to the previously reported Highland Plains Mineral Resource and previously reported Highland Plains exploration and metallurgical data is based on information compiled by Jim Richards who is a member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Jim Richards is a director of Gibb River Diamonds Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a competent Person as defined in the December 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Richards consents to the inclusion in this report of the Information, in the form and context in which it appears.*

*The Highland Plains Mineral Resource Estimates (MRE)'s were prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported. The Company confirms that the form and context in which the Competent Person's findings are presented here have not been materially modified.*

**References (including relevant JORC Table 1's as referenced):**

<sup>1</sup>Blina Diamond Project, Ellendale, WA, detailed information including the Table 1 (JORC Code, 2012 Edition) and references; POZ ASX Release dated 9 October 2015

<sup>2</sup>Blina Diamond Project, Ellendale, WA, Grant of Mining Leases and Native title Agreement; POZ ASX Release dated 16 October 2017

<sup>3</sup>Blina Diamond Project, Ellendale, WA, Breakthrough GPR Survey Technology; POZ ASX Release dated 18 October 2017

<sup>4</sup>Blina Diamond Project, Ellendale, WA, Maiden JORC Exploration Target; POZ ASX Release dated 21 November 2017

<sup>5</sup>GIB Secures Ellendale Diamond Mine Leases; GIB ASX Release dated 23 December 2019

<sup>6</sup>Ellendale 9 East Diamond Values Increase 20% to US\$750/carat; GIB ASX Release dated 3 March 2020

<sup>7</sup>Further Excellent Diamond Valuations ... from Alluvial Targets; GIB ASX Release dated 12 March 2020

<sup>8</sup>First Ellendale 9 Diamond assessment Reports Vivid and Intense Fancy Yellows; GIB ASX Release dated 25 May 2020

<sup>9</sup>Record 2018/8 Geology, Resources and Exploration Potential of the Ellendale Diamond Project, West Kimberley, Western Australia (Geological Survey of Western Australia); by G. Boxer and G. Rocket. 2018

<sup>10</sup>High Grade Mississippi Valley-Type Zinc-Lead Discovery in Earraheedy Basin; Strickland Metals Limited; ASX Announcement dated 14 October 2021

<sup>11</sup>Maiden JORC Phosphate Resource at Highland Plains; POZ/GIB ASX Release dated 31 March 2009

Bulletin 132 (Geological Survey of Western Australia); The kimberlites and lamproites of Western Australia by A.L. Jaques, J.D. Lewis and C.B. Smith. 1986.