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Statement No:1246

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (*Environmental Protection Act 1986*)

BROCKMAN SYNCLINE PROPOSAL

Proposal: The proposal includes the existing iron ore operations at Nammuldi-Silvergrass, Brockman 2 and Brockman 4 and the proposed expansion (significant amendment) which includes the extension and development of new above and below water table deposits and associated activities.

Proponent: Hamersley Iron Pty Limited
Australian Company Number 004 558 276

Proponent address: 152-158 St Georges Terrace
PERTH WA 6000

Assessment number: 2219

Report of the Environmental Protection Authority: 1774

Introduction: The proposal is a significant amendment to support the development of new above and below water table mining areas in order to sustain mining at three existing operations, Nammuldi-Silvergrass, Brockman 2 and Brockman 4, which were agreed to be implemented under Ministerial Statements 131, 867, 925, 1000.

Pursuant to section 45 of the *Environmental Protection Act 1986*, it is now agreed that:

1. the proposal (described in condition A1-1), may be implemented;
2. Ministerial Statements 131, 867, 925, 1000 are superseded under section 40AA (6) (b) of the *Environmental Protection Act 1986*; and

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3. the implementation of the existing approved proposal as amended by the significant amendment proposal (referred to as the significant amendment as shown in Figure 1), is subject to the following implementation conditions and procedures.

Conditions and procedures

Part A: Proposal extent

Part B: Environmental outcomes, prescriptions and objectives

Part C: Environmental management plans and monitoring

Part D: Compliance and other conditions

PART A: PROPOSAL EXTENT

A1 Limitations and Extent of Proposal

A1-1 The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded:

| Proposal element | Location | Maximum extent |
|--|--|---|
| Physical elements | | |
| Development envelope | Figure 1 | No more than 63,343 ha. |
| Conceptual footprint | Within the development envelope shown in Figure 1 | Clearing of no more than 19,805 ha within a 63,343 ha development envelope . |
| Direct disturbance of native vegetation for the significant amendment | Within the development envelope shown in Figure 1 | <p>Clearing of no more than 7,715 ha of ‘Good’ to ‘Excellent’ condition native vegetation.</p> <p>Direct disturbance to riparian vegetation limited to 129 ha.</p> <p>Direct disturbance to GDV (vegetation unit C3 (DkCk)) limited to 5.1 ha.</p> |

| | | |
|---|----------------------|---|
| | | <p>Direct disturbance to debris slope/rocky outcrop limited to 67 ha.</p> <p>Direct disturbance to gorge/gully and free face limited to 264 ha.</p> |
| Mine pits and associated infrastructure | Figure 1 Figure 2 | <p>No direct disturbance permitted within the Mining Exclusion Zones (except for low impact activities).</p> <p>No construction of waste dumps immediately north (outside) of the Plunge Pool catchment.</p> |
| Irrigated Infrastructure | Figure 4 | Clearing of no more than 2,500 ha within the Nammuldi Irrigated Area within a 63,343 ha development envelope . |
| Operational elements | | |
| Dewatering and water supply | N/A | Dewatering and abstraction of up to 50 GL/a . |
| Management of surplus water | N/A | <p>Options include:</p> <ul style="list-style-type: none"> • use on site • discharge to disused pits • irrigated agriculture at Nammuldi • infiltration/injection to the aquifer • provision to other users • controlled discharge to the environment via Duck Creek and Boolgeeda Creek with a wetting front not exceeding 67 and 37 km respectively from point of discharge, under natural no-flow conditions. |
| Mine Pits | Figure 1 | <p>BS3 deposit - above water table mining only.</p> <p>Partial backfill of BS1 (Pits E1,E2,E3, W1 and W2) to prevent the creation of</p> |

| | | |
|-----------------|-----|---|
| | | <p>permanent pit lake(s) at closure</p> <p>Partial backfill of Pits 1, 4, 4 extension, 5 and 6 at BS2.</p> <p>Backfill of BS2 pit to sufficient depth to ensure, following mine closure and backfilling, the groundwater table will permanently remain at least 3 m below the lowest point of the pit floor.</p> <p>All open cut Marra Mamba pits in the Silvergrass area to be backfilled to above the post-mining water table levels.</p> <p>BS4 mine pits are to be backfilled so that the final surface level is at a higher elevation than the pre-mining water table to prevent the formation of pit lakes (Pits 2, 3, 4, 5, 6, 7, 10, 11, 12, 15, 16, 17 and 18).</p> <p>Backfill of BS3 Extension Deposits (Diesel, MMJ and Creekside) to be above post-mining water table levels</p> |
| Timing elements | | |
| Proposal time | N/A | Operational phase up to 25 years (construction and closure not inclusive). |

PART B – ENVIRONMENTAL OUTCOMES, PRESCRIPTIONS AND OBJECTIVES

B1 Flora and Vegetation

B1-1 The proponent must ensure the implementation of the **proposal** achieves the following environmental **outcomes** for the **significant amendment**:

- (1) **disturb** no more than 7,715 ha of 'Good' to 'Excellent' condition native vegetation.

- (2) no **disturbance**, including mining activities, pits, excavations waste dumps and permanent structures, within the Mining Exclusion Zones shown in Figure 5, 6a, 6b, 6c, 6d, 6e, 7, 9 and 12 except for **low impact activities** which may be undertaken within no more than 5% of the total Mining Exclusion Zones.
 - (3) no **disturbance**, direct or indirect, to all individuals of *Tetratheca butcheriana* (P1) recorded in the **development envelope** though the establishment of a Mining Exclusion Zone with a buffer area of 300 m as shown in Figure 5.
 - (4) no **disturbance**, direct or indirect, to **vegetation type C28** associated with **Plunge Pool**, through the establishment of a Mining Exclusion Zone to protect 0.3 ha of this vegetation.
 - (5) **disturb** no more than the following within the **local area**:
 - (a) 30% of *Hibiscus* sp. Mt Brockman (E. Thoma ET 1354) (P1);
 - (b) 30% of *Pentalepis trichodesmoides* subsp. *hispida* (P2);
 - (c) 30% of *Eremophila magnifica* subsp. *velutina* (P3);
 - (d) 30% of *Grevillea saxicola* (P3);
 - (e) 30% of *Ipomoea racemigera* (P3);
 - (f) 30% of *Rostellularia adscendens* var. *latifolia* (P3);
 - (g) 30% of *Sida* sp. Hamersley Range (K. Newbey 10692) (P3);
 - (h) 30% of *Acacia bromilowiana* (P4);
 - (i) 30% of *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4);
 - (j) 30% of *Hibiscus* aff. sp. Gurinbidy Range (M.E. Trugden MET 15708) (potential new species);
 - (k) 129 ha for **riparian vegetation**; and
 - (l) 5.1 ha for **GDV (vegetation unit C3 (DkCk))**.
 - (6) ensure the introduction or spread of **environmental weeds** is no greater than the **baseline** through the implementation of appropriate weed
- B1-2 Ensure clearing of **vegetation types P33 and P27**, which represent or have affinities to the **Brockman Iron Cracking Clay Priority Ecological Community**,

within the **Nammuldi-Silvergrass approved proposal** area, is limited to no more than 45 ha and 47 ha respectively as displayed in Figure 13.

B1-3 Prior to clearing each area to be disturbed within the **conceptual footprint** of the **significant amendment**, the proponent must undertake targeted pre-clearance flora survey(s) of that area, in accordance with **Technical guidance – Flora and vegetation surveys for environmental impact assessment** (EPA 2016) (or any approved updates of these guidelines). **Pre-clearance surveys** shall target the following species:

- (1) *Hibiscus* sp. Mt Brockman (E. Thoma ET 1354) (P1);
- (2) *Pentalepis trichodesmoides* subsp. *hispida* (P2);
- (3) *Eremophila magnifica* subsp. *velutina* (P3);
- (4) *Grevillea saxicola* (P3);
- (5) *Ipomoea racemigera* (P3);
- (6) *Rostellularia adscendens* var. *latifolia* (P3);
- (7) *Sida* sp. Hamersley Range (K. Newbey 10692) (P3);
- (8) *Acacia bromilowiana* (P4);
- (9) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4); and
- (10) *Hibiscus* aff. sp. Gurinbiddy Range (M.E. Trugden MET 15708) (potential new species).

B1-4 The proponent shall implement appropriate management measures to achieve the following environmental **objectives** for the **significant amendment**:

- (1) avoid and minimise **disturbances**, to flora and vegetation including but not limited to impacts from, altered hydrological regimes, bushfire, dust, fragmentation and environmental weeds; and
- (2) minimise **disturbances** on remaining extents of significant vegetation and **priority flora**.

B2 Terrestrial Fauna

B2-1 The proponent must ensure the implementation of the **proposal** achieves the following environmental **outcomes** for the **significant amendment**:

- (1) **disturb** no more than:

- (a) 67 ha of fauna habitat identified as **debris slope/rocky outcrop** as shown in Figure 11;
 - (b) 264 ha of fauna habitat identified as **gorge/gully and free face** as shown in Figure 11;
 - (c) four (4) **surface water features** (pools B4 and LGCAM04) WBRK-01 and No Name [**BS3**]);
 - (d) 25 ghost bat caves (14 category 3 and 11 category 4) as shown in Figure 8; and
 - (e) 25 **Pilbara leaf-nosed bat caves** (21 category 4 and 4 caves with 'no usage') as shown in Figure 8.
- (2) no impacts to the structural integrity or microclimate that would reduce the capacity to support ghost bats (*Macroderma gigas*) of caves listed in **Mining Exclusion Zone 1** as shown in Figure 6a, 6b, 6c, 6d and 6e;
 - (3) no **ground disturbing activities** in **Mining Exclusion Zone 1 and 2**, as shown in Figure 6a, 6b, 6c, 6d, 6e and 7, except for **low impacts activities** which may be undertaken within no more than 5% of the total **Mining Exclusion Zone 1 and 2**;
 - (4) no **disturbance** to ghost bat (*Macroderma gigas*) and Pilbara leaf-nosed bat (*Rhinonictis aurantia*) roosts within the **Mining Exclusion Zone 1** attributable to the **proposal**;
 - (5) no **disturbance** to the ghost bat (*Macroderma gigas*) and Pilbara leaf-nosed bat (*Rhinonictis aurantia*) population within the **Mining Exclusion Zone 1** from vibration attributable to the **significant amendment**;
 - (6) no **disturbance** to the ghost bat (*Macroderma gigas*) and Pilbara leaf-nosed bat (*Rhinonictis aurantia*) population within the **Mining Exclusion Zone 1** from noise attributable to the **significant amendment**;
 - (7) avoid indirect impacts that would **disturb** the local population of northern quoll (*Dasyurus hallucatus*) and Pilbara olive python (*Liasis olivaceus barroni*) attributable to the **proposal**;
 - (8) avoid and minimise indirect impacts attributable to the **proposal**, on the Pilbara leaf-nosed bat roost, Upper Beasley River Roost;
 - (9) no **disturbance** to **gorge/gully and free face** and **debris slope/rocky outcrop** fauna habitat within **Mining Exclusion Zone 5**, as shown in Figure 12 within the **BS3** area, until **pre-clearance surveys** have been undertaken to demonstrate that no restricted short range endemic invertebrates occur in this habitat; and

- (10) avoid and minimise impacts from **feral fauna** species within the **development envelope** and the **Mining Exclusion Zones 1, 2, and 3, Vegetation Protection Zones and Fauna Corridor Protection Zones**.
- B2-2 The proponent must retain habitat at strategic locations to establish **Fauna Corridor Protection Zones**, to maintain ecological connectivity between the **'three central areas'**, for significant fauna species within the **development envelope** (Figure 10).
- B2-3 The proponent must implement the **proposal** to achieve the following environmental **objectives**:
- (1) maintain the **viability** of the ghost bat population within the **development envelope** during operations and post-mining operations.
- B2-4 The proponent shall prepare and submit a Noise and Vibration Management Approach Report using monitoring data, or other information acceptable to the **CEO**, detailing the approach for managing noise and vibration from the **significant amendment** during the **maternity** and **non-maternity season** for caves listed in **MEZ 1**.
- B2-5 The proponent must prepare a Ghost Bat Monitoring Performance Report which shall:
- (1) provide the results, analysis and methodology of long-term ghost bat monitoring in the **development envelope**, including reference data from caves within the **vicinity** of the **development envelope**;
- (2) provide **historical results** and **outcomes** of ghost bat research and trials that were undertaken, targeting key issues facing the retention of ghost bat caves and usage by ghost bats around mining areas;
- (3) provide a discussion of the results of past performance, research and trials, **outcomes** and improvement strategies; and
- (4) demonstrate how results of long-term ghost bat monitoring have been used to inform mitigation measures, including buffers, to ensure they are adaptive, evidence-based, effective, and achievable.
- B2-6 The proponent must prepare and submit a Ghost Bat Management Plan, that satisfies the requirements of condition C4, to ensure the environmental **outcomes** and **objectives** required by conditions B2-1(1), B2-1(2), B2-1(3), B2-1(4), B2-1(5) and B2-1(6) are achieved. The plan shall include:
- (1) at least twelve (12) months of monitoring to determine the **baseline** population size of the ghost bat colony, including natural variation in

population numbers and **baseline** distribution of bat movement and dispersal activity within the **development envelope**;

- (2) protocols and procedures to monitor usage and activity levels of ghost bat movement within the **critical caves** in **MEZ 1** during construction, operation, closure and for at least twenty-four (24) months post-closure;
- (3) protocols and procedures to monitor ghost bat usage as the **proposal's** activities move to within 350 m of **critical caves** in **MEZ 1**, excluding caves CBRK-078, CBRK-80, and CBRK-82 during the development of the mining pits for the **significant amendment**; and
- (4) protocols and procedures to monitor feral cat activity for **critical caves** in **MEZ 1** during construction, operation, closure and twenty-four (24) months post-closure.

B2-7 The proponent shall report to the **CEO** on the **outcomes** of the implementation of the Ghost Bat Management Plan annually as part of the Compliance Assessment Report required by condition D2. The report shall include:

- (1) the activity levels of ghost bat using **critical caves** in **MEZ 1** within the **development envelope**;
- (2) the activity levels of any **nearby critical caves** being used by ghost bats outside the **development envelope** within the proponent's approved tenure or where access can be attained;
- (3) an assessment of the stability of the **critical caves** in **MEZ 1**;
- (4) an assessment of the changes in population size against the **baseline** of the Brockman Syncline ghost bat colony;
- (5) evidence that the population size of the Brockman Syncline ghost bat colony has been maintained within natural variation; and
- (6) **outcomes** of the monitoring undertaken in accordance with the Ghost Bat Management Plan to assess usage of the ghost bat as the **proposal's** activities move within 350 m of **critical caves** in **MEZ 1**, excluding caves CBRK-078, CBRK-80 and CBRK-82.

B2-8 The proponent must undertake the following investigations and provide an appropriate buffer, for approval by the CEO, that meets the **outcomes** of B2-1(1), B2-1(2), B2-1(3), B2-1(4), B2-1(5) and B2-1(6) and satisfies the requirements of condition C4;

- (1) geotechnical assessment and blast vibration modelling to inform suitably sized buffers to ensure the **outcomes** of B2-1(5) and B2-1(6) can be achieved;

- (2) upon completion of blast vibration modelling undertaken for condition B2-8(1) undertake at least four (4) trial blasting events at the following intervals from **critical caves** in **MEZ 1** and in the following order provided the modelling indicates that the **outcomes** of B2-1(5) and B2-1(6) can be achieved at each interval:
 - (a) 500 m;
 - (b) 300 m;
 - (c) 200 m; and
 - (d) 150 m.
- (3) each trial blasting event required by condition B2-8(2) shall only proceed to the next interval provided actual monitoring indicates that **outcomes** of B2-1(5) and B2-1(6) can be achieved at the previous interval;
- (4) the proponent shall submit the modelling and monitoring undertaken for conditions B2-8(1) and B2-8(2) to support appropriate buffer distances for the **critical caves** and their associated geology to the **CEO** for approval prior to operational blasting within 350 m of **critical caves** in **MEZ 1** for the **significant amendment**, excluding caves CBRK-078, CBRK-80 and CBRK-82 where a 150 m buffer is required; and
- (5) where approval is given by the **CEO**, on advice of **DBCA**, as required by condition B2-8(4), the proponent may apply the same approved buffers for other caves within the **development envelope** that are found with **similar geologies**.

Lighting

B2-9 The proponent shall ensure that all artificial lighting required for the **significant amendment** uses **directional and/or shielded lighting** and uses the minimum number and intensity of lights required, to avoid **disturbances** to nocturnal fauna.

Clearing for ground disturbing activities

B2-10 Prior to **ground disturbing activities** for the **significant amendment** the proponent shall undertake the following actions:

- (1) within seven (7) days prior to **clearing activities**, using a licenced **fauna spotter**, undertake **pre-clearance surveys** of **critical habitat** to detect presence of northern quoll (*Dasyurus hallucatus*), ghost bat (*Macroderma gigas*), Pilbara olive python (*Liasis olivaceus barroni*), Pilbara leaf-nosed bat (*Rhinonicteris aurantia*) and grey falcon (*Falco hypoleucos*) occupied nests in **major creekline** and **minor creekline** habitats, within clearing areas; and

- (2) where northern quoll (*Dasyurus hallucatus*), ghost bat (*Macroderma gigas*), Pilbara olive python (*Liasis olivaceus barroni*), Pilbara leaf-nosed bat (*Rhinonictis aurantia*) and grey falcon (*Falco hypoleucos*) occupied nests are detected, **ground disturbing activities** shall not commence until either:
- (a) the individual has been relocated by a **fauna spotter** to a **critical habitat**; or
 - (b) grey falcons are no longer using the nest during the **maternity season**; or
 - (c) the individual has been observed by the **fauna spotter** to have moved on from the area to the adjoining **critical habitat**; and
 - (d) the **fauna spotter** considers that the individual no longer occurs in the area to be cleared/disturbed.

B2-11 The proponent must submit as part of the Compliance Assessment Report required by condition D2, a report on fauna management undertaken in line with condition B2-12. The report shall include the following:

- (1) details of fauna inspections;
- (2) dates and details of **clearing activities** for each area inspected;
- (3) the number and type of fauna removed and relocated and actions taken;
- (4) details of the **fauna spotter** commissioned;
- (5) results of the **pre-clearance surveys**; and
- (6) vertebrate fauna mortalities.

B2-12 In the event of change in the **conceptual footprint** and where surveys have not been completed, the proponent must undertake surveys for **threatened fauna** within the new unsurveyed **conceptual footprint** and submit findings and mitigation measures to the **CEO**, on advice of **DBCA**, for approval prior to the **ground disturbing activities**.

Operational (blasting) activities

B2-13 The proponent shall undertake blasting activities in accordance with the requirement of conditions B2-1.

B2-14 Blasting activities shall only take place during **day-time** hours.

Haul road/ infrastructure fencing

B2-15 Barbed wire fencing, where it is demonstrated to be required for the **significant amendment**, must be installed with the top strand as a single strand wire and with suitable bat deflectors.

Speed limits

B2-16 During construction activities, vehicle and machinery speed limits within the **development envelope** shall not exceed:

- (1) 60 **km/hr** on unsealed roads; and
- (2) 40 **km/hr** on unsealed roads during **night-time** hours within a one (1) kilometre buffer of the **Mining Exclusion Zones 1, 2 and 3**.

B2-17 During operation, vehicle and machinery speed limits within the **development envelope** shall not exceed:

- (1) 80 **km/hr** on haul roads during **day-time** hours within a one (1) kilometre buffer of the **Mining Exclusion Zones 1, 2 and 3**; and
- (2) 60 **km/hr** on haul roads and access roads during **night-time** hours within a one (1) kilometre buffer of the **Mining Exclusion Zones 1, 2 and 3**.

B3 Subterranean Fauna

B3-1 The proponent must implement the **proposal** to achieve the following environmental **outcomes** for the **significant amendment**:

- (1) no impact to **stygofauna habitat** and known species beyond that which has been predicted by ensuring the groundwater drawdown is limited to groundwater level thresholds as defined in Table 2 of Figure 14 for groundwater monitoring bores.
- (2) no impact to **troglofauna habitat** and known species beyond that which has been predicted, and ensure to **disturb** no more than:
 - (a) 20% of **troglofauna habitat** within the **BS1 assessment area**;
 - (b) 5% of **troglofauna habitat** within the **BS2 assessment area**;
 - (c) 15% of **troglofauna habitat** within the **BS3 assessment area**; and
 - (d) 10% of **troglofauna habitat** within the **BS4 assessment area**.

B4 Inland Waters

B4-1 The proponent must ensure the implementation of the **proposal** achieves the following environmental **outcomes** for the **significant amendment**:

- (1) no changes to water levels and water quality from the **baseline** to **Plunge Pool**, as shown in Figure 9, attributable to the **significant amendment**;
- (2) ensure no **disturbance** to **groundwater dependent vegetation**, as a result of surface and/or groundwater changes at **Plunge Pool**, as shown in Figure 9, attributable from the **significant amendment**;

- (3) ensure no direct **disturbance** to the Ridge Pool surface water catchment in **Mining Exclusion Zone 3** within the **development envelope** as shown in Figure 9.
 - (4) ensure no **disturbance** and no impacts to the surface water quality and quantity to Kurwillinha Pool in **Mining Exclusion Zone 3** within the **development envelope** as shown in Figure 9;
 - (5) ensure groundwater mounding above pre-mining groundwater levels within mine pits does not occur;
 - (6) ensure water discharged to **Duck Creek** meets specified agreed water quality requirements developed in accordance with the **ANZG framework** or its revision;
 - (7) ensure that the discharge of surplus water does not cause irreversible impacts on the environmental and conservation values of **Boolgeeda Creek** and **Duck Creek**; and
 - (8) ensure that dewatering and discharge do not cause long term **disturbance** to the health and abundance of **groundwater dependent vegetation** communities in **Duck Creek** and **Caves Creek** beyond the approved **conceptual footprint** as shown in Figure 9.
- B4-2 The proponent shall manage the discharge of surplus mine dewater from the **Nammuldi-Silvergrass approved proposal** to ensure that the discharge of surplus water from the Nammuldi or Silvergrass sites does not cause irreversible **disturbance** to the environmental and conservation values of **Duck Creek**.
- B4-3 The proponent shall manage the discharge of surplus mine dewater from **BS4** to minimise impacts to the **riparian vegetation** along **Boolgeeda Creek**.
- B4-4 The proponent must revise and update the Environmental Management Plan, that satisfies the requirements of condition C4 and demonstrates how achievement of the inland waters environmental **outcomes** in condition B4-1, B4-2 and B4-3, will be monitored and submit it to the **CEO** for approval.
- B4-5 The proponent shall implement the Environmental Management Plan, required by condition B4-4 until advised otherwise by the **CEO**.

B5 Aboriginal Heritage

- B5-1 The proponent must ensure the implementation of the **proposal** achieves the following environmental **outcomes** for the **significant amendment**:
- (1) no **disturbance** to any **Aboriginal heritage sites** unless consent is granted, or authority is given to **disturb** that site under the *Aboriginal*

Heritage Act 1972 and has involved reasonable steps to consult with the **relevant Traditional Owners**;

- (2) subject to reasonable health and safety requirements, no interruption of ongoing access to land utilised for traditional use or custom by the **relevant Traditional Owners**; and
- (3) ensure a clear and unobstructed **line of sight** from the valley between **BS1** and **BS4** to Mount Brockman is maintained, unless otherwise agreed by the **relevant Traditional Owners**.

B5-2 The proponent must implement the **proposal** to meet the following environmental **objective**:

- (1) avoid impacts to **Aboriginal heritage**.

B5-3 The proponent must undertake reasonable consultation with the **relevant Traditional Owners** about measures to avoid impacts to **Aboriginal heritage** and all **Aboriginal heritage** values.

B5-4 The proponent must undertake reasonable consultation with the **relevant Traditional Owners** about the achievement of the **outcomes** in condition B5-1 and B5-2, and where conditions also relate to **Plunge Pool** or **Kurwillinaha Pool**, for the life of the **significant amendment**.

B5-5 The proponent must undertake reasonable consultation with the **relevant Traditional Owners** on the design of **waste rock landforms** and **integrated waste landforms** and the Mine Closure Plan required under condition B8-6.

B6 Greenhouse Gas Emissions

B6-1 The proponent must notify the CEO in writing within one month of it becoming aware that implementation of the proposal will not be or is not expected to be regulated under the **Safeguard Legislation** as a designated large facility (the **notifiable event**) and such notice must briefly describe the reasons for and expected duration of the notifiable event.

B6-2 The proponent must, if requested in writing by the CEO, provide the CEO with a report on the implications for the proposal of any amendment or proposed amendment to the **Safeguard Legislation**, or a decision or proposed decision made under the **Safeguard Legislation** that is specified in the CEO's request.

B6-3 The report required by condition B6-2 must:

- (1) be submitted to the CEO within three months of the date of the CEO's request or such longer period as the CEO agrees to in writing; and

- (2) explain the implications that the specified amendment or decision has had or is expected to have on:
 - (a) the obligation to reduce net Scope 1 **greenhouse gas** emissions from implementation of the proposal under the **Safeguard Legislation**; and
 - (b) the quantity of actual and net Scope 1 **greenhouse gas** emissions likely to result from the future implementation of the proposal.

B7 Water Quality and Quantity (Irrigated Agriculture)

B7-1 The following conditions relate solely to the **Nammuldi-Silvergrass approved proposal**. The proponent shall ensure that any irrigation water runoff from the agricultural pivot cells does not exceed whichever is greater of the following:

- (1) the default trigger for the protection of marine and freshwater ecosystems as per the Australian and New Zealand Environmental and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (ANZECC/ARMCANZ (2000)) *Australian Water Quality Guidelines for Fresh and Marine Waters* and or its revision; or
- (2) **baseline** levels of the receiving environment for the criteria measured under the Australian and New Zealand Environmental and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (ANZECC/ARMCANZ (2000)) *Australian Water Quality Guidelines for Fresh and Marine Waters* or its revision.

B7-2 The proponent shall ensure that changes to hydrological regime, specifically soil saturation, related to the establishment of irrigated pivot cells do not **disturb** the environment beyond a 30 m buffer around the agricultural pivot cell.

B7-3 The proponent shall ensure that irrigation water quality is consistent with the requirements for irrigation water as per the Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand 2000, *Australian Water Quality Guidelines for Fresh and Marine Waters* and its updates, or take such other in situ measures as approved by the **CEO**, to prevent the accumulation of toxicants within the soil profile, and to prevent the degradation of soil structure due to sodicity and excessive salinity.

B7-4 The proponent shall monitor the changes to the hydrological regime, specifically soil saturation, as well as the quality of any irrigation water run-off from the agricultural pivot cells which enters surface water within the boundary of the **Nammuldi-Silvergrass approved proposal** area to determine if the

requirements of conditions B7-1 and B7-2 are met. This monitoring is to be carried out using methods detailed in the Nammuldi Agriculture Environmental Management Plan, June 2012, and any subsequent approved revisions, prepared for this proposal and to the satisfaction of the **CEO**.

B7-5 The proponent shall commence the water quality and soil saturation monitoring, required by condition B7-4 at least one (1) month prior to the commencement of irrigation.

B7-6 In the event that monitoring required by condition B7-4 indicates that the requirements of conditions B7-1 and B7-2 are not being met:

- (1) the proponent shall report such findings to the **CEO** within twenty-one (21) days, or as otherwise agreed in writing by the **CEO** of the decline in water quality being identified;
- (2) the proponent shall provide evidence to the **CEO** which allows determination of the cause of the decline in water quality;
- (3) if a decline in water quality is determined by the **CEO** to be a result of activities undertaken in implementing the proposal, the proponent shall submit to the **CEO** actions to be taken to remediate the decline in water quality within twenty-one (21) days, or as otherwise agreed in writing by the **CEO** of the determination being made; and
- (4) the proponent shall implement the actions to remediate the decline in water quality required by condition B7-6(3) upon approval of the **CEO** and shall continue to implement such actions until such time as the **CEO** determines that the remedial actions may cease.

B8 Rehabilitation and closure

B8-1 The proponent must ensure the implementation of the **proposal** achieves the following **environmental outcomes** for the **significant amendment**:

- (1) pits, with a closure acid and metalliferous drainage risk, and where there is a demonstrable moderate or high risk of **disturbance** from that drainage to sensitive environmental or cultural heritage receptors, will be backfilled to above post mining recovered water levels;
- (2) rehabilitated landforms are stable, do not cause **pollution** or **environmental harm**;
- (3) the post-mining profile, for ex pit rehabilitated landforms, will be designed in consideration of visually integrating into the surrounding undisturbed landscape, continuing the surrounding contours of the low hills and slopes;

- (4) ensure the commencement of rehabilitation of areas cleared for infrastructure, roads or access within eighteen (18) months of that infrastructure, roads or access no longer being required;
- (5) rehabilitated vegetation is self-sustaining;
- (6) rehabilitated drainage lines are stable, with no erosion features present that compromise rehabilitated landform stability and support ecological processes;
- (7) vegetation within rehabilitated areas are comparable with species diversity and abundance within suitable analogue or reference sites;
- (8) annual reporting on progressive rehabilitation against completion criteria, to ensure they are evidence-based, effective and achievable;
- (9) annual reporting on hectares rehabilitated;
- (10) seed used in rehabilitation is of **local provenance**; and
- (11) closure planning and rehabilitation is undertaken in a **progressive manner** consistent with achievement of the above **outcomes** during operations, and as soon as practicable upon closure.

B8-2 The proponent shall implement the **proposal** to achieve the following environmental **objective**:

- (1) ensure that the proposal is decommissioned and the site of the proposal rehabilitated to be safe, stable and non-polluting and in an ecologically appropriate and sustainable manner.

B8-3 The proponent shall ensure rehabilitation measures for the **proposal**:

- (1) include research, trials and monitoring programs, targeting key issues in rehabilitation, to improve rehabilitation techniques, practices and **outcomes**; and
- (2) demonstrate how **outcomes** from previous research, trials and monitoring programs have been incorporated into rehabilitation techniques and practices.

B8-4 The proponent must prepare and submit a Rehabilitation Performance Report within twelve (12) months of this statement and every five (5) years thereafter, for approval of the **CEO**. The Rehabilitation Performance Report shall:

- (1) provide completion criteria;
- (2) provide the results and analysis of long-term rehabilitation performance since mining commencement;

- (3) provide historical rates of rehabilitation for the **proposal** and an explanation of these rates;
- (4) provide completion criteria;
- (5) provide **historical** and ongoing results and **outcomes** of rehabilitation research and trials that were undertaken, targeting key issues facing the rehabilitation of mined areas;
- (6) provide a discussion of the results of past performance, research and trials, **outcomes** and improvement strategies and how these have been included into the rehabilitation;
- (7) demonstrate the rate of rehabilitation for the **proposal** and whether rehabilitation is achieving the **outcomes** of condition B8-1, the **objective** of condition B8-2 and completion criteria in the Rehabilitation Performance Report; and
- (8) demonstrate how results of long-term rehabilitation performance have been used to inform proposed completion criteria in the Mine Closure Plan required by condition B8-6 to ensure they are adaptive, evidence-based, effective, and achievable.

B8-5 The proponent must continue rehabilitation to achieve the **outcomes** required by condition B8-1 and demonstrate that the relevant requirements in condition B8-2, B8-3 and B8-4 B8-3 have been met, until the **CEO** confirms by notice in writing.

B8-6 The proponent shall update and submit a Mine Closure Plan(s) in accordance with the Department of Energy, Mines, Industry Regulation and Safety's *Statutory Guidelines for Mine Closure Plans March 2020 (updated in January 2023)* (or any subsequent revisions of the guidelines), to the requirements of the **CEO**, on advice of the Department of Energy, Mines, Industry Regulation and Safety; the Department of Water and Environmental Regulation; and the Department of Biodiversity, Conservation and Attractions.

B8-7 The proponent shall review and revise the Mine Closure Plan(s) required by condition B8-6 at intervals not exceeding five (5) years, or as otherwise specified by the **CEO**, and submit the Mine Closure Plan(s) to the **CEO** at the agreed intervals.

B8-8 The proponent shall implement the latest revision of the Mine Closure Plan(s), which the **CEO** has confirmed by notice in writing, satisfies the requirements of conditions B8-1, B8-2, B8-3.

B9 Management of Introduced Crop Species (Irrigated Agriculture)

B9-1 The proponent must ensure the following environmental **objectives** are achieved for the **Nammuldi-Silvergrass approved proposal**:

- (1) the proponent shall demonstrate that the selected crop species does not have the potential to become an invasive weed;
 - (2) to verify that the requirements of condition B9-1 are being met, prior to cultivation, the proponent shall prepare a report to the satisfaction of the **CEO** on advice of the **DBCA** which:
 - (a) identifies crop species considered for the **Nammuldi Irrigated Area** shown in Figure 4;
 - (b) provides evidence based on at least two surveys (one conducted during the wet season and one during the dry season), in a similar environment, that the selected crop species does not have the potential to become invasive; and
 - (c) proposes the crop species to be cultivated.
- B9-2 The proponent shall only plant the selected crop species following receipt of a notice in writing from the **CEO** that the crop species is acceptable.
- B9-3 The proponent shall implement the Nammuldi Agriculture Environmental Management Plan (June 2012) approved by the **CEO**, that the acceptable crop species approved in condition B9-2 does not spread beyond a 30 m buffer surrounding the agricultural pivot cells. The Plan shall include:
- (1) the location of monitoring sites, monitoring methodology and frequency of monitoring to demonstrate that the acceptable crop species approved in condition B9-2 has not spread;
 - (2) proposed management measures to prevent the propagation and spread of the acceptable crop species approved in condition B9-2 beyond a 30 m buffer surrounding the pivot cells;
 - (3) identification of criteria to measure invasive spread of crop species; and
 - (4) identification of trigger levels and **management actions** to be implemented should the criteria identified in condition B9-3(2) be exceeded.
- B9-4 The proponent shall implement the monitoring and management plan required by condition B9-3 and any subsequent revisions approved by the **CEO** within the **Irrigated Agriculture Area** shown in Figure prior to crop propagules arriving on site.
- B9-5 In the event that the results of monitoring required by condition B9-4 show that over five (5) consecutive years there has been no spread of crop species beyond the indirect impact areas, the proponent may revise the frequency of monitoring required by condition B9-4, as approved by the **CEO**.

B9-6 In the event that monitoring required by condition B9-5 indicates that the requirements of conditions B9-1 and B9-3 are not being met:

- (1) the proponent shall report such findings to the **CEO** within twenty-one (21) days of the spread of crop species being identified;
- (2) the proponent shall provide evidence to the **CEO** which allows determination of the cause of the spread of crop species; and
- (3) if determined by the **CEO** to be a result of activities undertaken in implementing the **proposal**, the proponent shall submit to the **CEO** within twenty-one (21) days, or as otherwise agreed in writing by the **CEO** of the determination being made, actions to be taken to remediate the spread of crop species.

B9-7 The proponent shall implement the actions required by condition B-9(3) to control and eradicate the spread of crop species upon approval of the **CEO** and shall continue to implement such actions until such time as the **CEO** determines that the remedial actions may cease.

B10 Pilbara Environmental Offsets Fund

B10-1 The proponent must contribute funds to the **Pilbara Environmental Offsets Fund** calculated pursuant to condition B10-2, to achieve the **objective** of counterbalancing the significant residual impacts to the following **environmental values**:

- (a) **'Good' to 'Excellent' condition native vegetation**;
- (b) **Riparian vegetation** (including **groundwater dependent vegetation**);
- (c) **Priority ecological communities**;
- (d) **Critical habitat** for northern quoll (*Dasyurus hallucatus*), Pilbara olive python (*Liasis olivaceus barroni*), ghost bat (*Macroderma gigas*), Pilbara leaf-nosed bat (*Rhinonictoris aurantia*) and subject to any reduction approved by the **CEO** under condition B10-9; and
- (e) **Supporting habitat** for northern quoll (*Dasyurus hallucatus*), Pilbara olive python (*Liasis olivaceus barroni*), ghost bat (*Macroderma gigas*) and Pilbara leaf-nosed bat (*Rhinonictoris aurantia*) subject to any reduction approved by the **CEO** under condition B10-9.

B10-2 The proponent's contribution to the **Pilbara Environmental Offsets Fund** must be paid biennially, with the amount to be contributed calculated based on the clearing undertaken in the areas defined in condition B10-1 in each year of the biennial reporting period in accordance with the rates in condition B10-3. The first biennial reporting period will include all **ground disturbing activities** of the

environmental values identified in condition B10-3 for the necessary period to align the first report with current reporting periods, and will continue on a biennial basis thereafter.

B10-3 Calculated on the 2023 calendar year, the contribution rates are:

- (1) \$980 AUD (excluding GST) per **ha** of **'Good' to 'Excellent' condition native vegetation** cleared as a result of the **proposal** within the **Hamersley IBRA subregion**;
- (2) \$1,960 AUD (excluding GST) per **ha** of riparian vegetation cleared as a result of the **proposal** within the **Hamersley IBRA subregion**;
- (3) \$1,960 AUD (excluding GST) per **ha** of the following values cleared as a result of the **proposal**:
 - (a) northern quoll (*Dasyurus hallucatus*) **critical habitat**;
 - (b) Pilbara olive python (*Liasis olivaceus barroni*) **critical habitat**;
 - (c) ghost bat (*Macroderma gigas*) **critical habitat**; and
 - (d) Pilbara leaf-nosed bat (*Rhinonictoris aurantia*) **critical habitat**;
- (4) \$980 AUD (excluding GST) per **ha** of the following values cleared as a result of the **proposal**:
 - (a) northern quoll (*Dasyurus hallucatus*) **supporting habitat**;
 - (b) Pilbara olive python (*Liasis olivaceus barroni*) **supporting habitat**;
 - (c) ghost bat (*Macroderma gigas*) **supporting habitat**; and
 - (d) Pilbara leaf-nosed bat (*Rhinonictoris aurantia*) **supporting habitat**.

B10-4 The rates in condition B10-3 change annually each subsequent calendar year in accordance with the percentage change in the **CPI** applicable to that calendar year.

B10-5 To achieve the **objective** in condition B10-1 the proponent must revise the Impact Reconciliation Procedure (Offsets) Hamersley Iron Pty Ltd, Brockman Syncline (May 2023, Rev B) and submit to the **CEO**. This procedure must:

- (1) spatially define the **environmental values** identified in condition B10-1;
- (2) spatially define the areas where offsets required by condition B10-1 are to be exempt;

- (3) include a methodology to calculate the amount of clearing undertaken during each year of the biennial reporting period for each of the **environmental values** identified in condition B10-3;
- (4) state that clearing calculation for the first biennial reporting period will commence from **ground disturbing activities** in accordance with condition B10-2 and end on the second 31 December following commencement of **ground disturbing activities**;
- (5) state that clearing calculations for each subsequent biennial reporting period will commence on 1 January of the required reporting period, unless otherwise agreed by the **CEO**; and
- (6) be prepared in accordance with *Instructions on how to prepare Environmental Protection Act 1986 Part IV Impact Reconciliation Procedures and Impact Reconciliation Reports* (March 2024) (or any subsequent revisions).

B10-6 The proponent must review, revise and submit an Impact Reconciliation Report in accordance with the **confirmed** Impact Reconciliation Procedure in condition B10-5.

B10-7 The Impact Reconciliation Report required pursuant to condition B10-6 must be prepared in accordance with EPA guidance and:

- (1) provide the location and spatial extent of the clearing undertaken as a result of the **proposal** during each year of each biennial reporting period; and
- (2) include evidence that clearing undertaken in any area was necessary for the commencement of **proposal**-related activities or operations in that cleared area within six (6) months of the clearing having occurred.

B10-8 The proponent may apply in writing and seek the written approval of the **CEO** to reduce all or part of the contribution payable under condition B10-2 where:

- (1) a payment has been made to satisfy a condition of an approval under the *Environment Protection and Biodiversity Conservation Act 1999* in relation to the **proposal**; and
- (2) the payment is made for the purpose of counterbalancing impacts of the **proposal** on matters of national environmental significance.

B10-9 The **CEO** may grant approval to discount the amount payable under condition B10-3(3) and condition B10-3(4) if the **CEO** is satisfied that the payment will offset the significant residual impacts of the **proposal**.

B10-10 Condition C2 applies to the **confirmed** Impact Reconciliation Procedure required by condition B10-5 as if it were an environmental management plan.

B10-11 Implement a **confirmed** Impact Reconciliation Procedure or submit an Impact Reconciliation Report as required by condition B10-6 represents a non-compliance with these conditions.

B11 Enhanced Restoration

B11-1 The proponent must prepare, in consultation with **DBCA**, an Enhanced Restoration Strategy to achieve the following environmental **outcomes** and **objectives**:

- (1) counterbalance the residual impacts to the following **environmental values**:
 - (a) *Sida* sp. Hamersley Range (K. Newbey 10692) (P3);
 - (b) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4);
 - (c) *Eremophila magnifica* subsp. *velutina* (P3);
 - (d) *Hibiscus* sp. Mt Brockman (E. Thoma ET 1354) (P1); and
 - (e) *Hibiscus* aff. sp. Gurinbidy Range (M.E. Trugden MET 15708) (potential new species).
- (2) an environmental benefit for the **environmental values** listed in B11-1; and
- (3) contributes to the scientific understanding and key knowledge gaps of the **environmental values** listed in B11-1.

B11-2 The Enhanced Restoration Strategy shall:

- (1) identify how the **outcomes** and **objectives** in condition B11-1(1), B11-1(2) and B11-1(3) will be met;
- (2) identify and detail any research, management and/or restoration activities for the **environmental values** listed in B11-1;
- (3) describe protocols and procedures to monitor and report on the activities required by condition B11-2(2);
- (4) define targets to be achieved; and
- (5) define **contingency measures**.

PART C – ENVIRONMENTAL MANAGEMENT PLANS AND MONITORING

C1 Environmental Management Plans: Conditions Related to Commencement of Implementation of the Proposal

C1-1 The proponent must:

- (1) within twelve (12) months of the date of this Statement, or otherwise agreed to by the **CEO**, submit the Ghost Bat Management Plan required by condition B2-6 that meets the requirements of that condition;
- (2) within twelve (12) months of the date of this Statement, or otherwise agreed to by the **CEO**, revise and submit the Environmental Management Plan required by condition B4-4;
- (3) within twelve (12) months of the date of this Statement, or otherwise agreed to by the **CEO**, on advice of **DBCA**, submit the Ghost Bat Monitoring Performance Report required by condition B2-5 that meets the requirements of that condition;
- (4) not undertake **ground disturbing activities** within 350 m of critical caves for the **significant amendment** until the **CEO**, on advice of **DBCA**, has confirmed in writing that the Ghost Bat Management Plan required by condition B2-6 meets the requirements of that condition;
- (5) within twelve (12) months of the date of this Statement revise and submit the Impact Reconciliation Procedure (Offsets) required by condition B10-5 that meets the requirements of that condition.
- (6) within twelve (12) months of the date of this statement and every five (5) years thereafter, or otherwise agreed by the **CEO**, submit the Enhanced Restoration Strategy, required by condition B11-1, that meets the requirements of that condition.
- (7) within eighteen (18) months of the date of this statement, or otherwise agreed by the **CEO**, on advice of **DBCA**, submit the Noise and Vibration Management Approach Report required by condition B2-4. Once the **CEO** has confirmed in writing that the Noise and Vibration Management Approach Report required by B2-4 meets the requirements of that condition, the proponent shall update the Ghost Bat Management Plan required by B2-6 to include the confirmed management approach.

C2 Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication

C2-1 Upon being required to implement an environmental management plan under Part B, or after receiving notice in writing from the **CEO**, on advice of **DBCA**, under condition C1-1 that the environmental management plan(s) required in Part B satisfies the relevant requirements, the proponent must:

- (1) implement the most recent version of the **confirmed** environmental management plan; and

- (2) continue to implement the **confirmed** environmental management plan referred to in condition C2-1(1), other than for any period which the **CEO** confirms by notice in writing that it has been demonstrated that the relevant requirements for the environmental management plan have been met, or are able to be met under another statutory decision-making process, in which case the implementation of the environmental management plan is no longer required for that period.

C2-2 The proponent:

- (1) may review and revise a **confirmed** environmental management plan provided it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan;
- (2) must review and revise a **confirmed** environmental management plan and ensure it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan, as and when directed by the **CEO**; and
- (3) must revise and submit to the **CEO** the **confirmed** Environmental Management Plan if there is a material risk that the **outcomes** or **objectives** it is required to achieve will not be complied with, including but not limited to as a result of a change to the **proposal**.

C2-3 Despite condition C2-1, but subject to conditions C2-4 and C2-5, the proponent may implement minor revisions to an environmental management plan if the revisions will not result in new or increased **disturbances**, direct or indirect, that would disturb the environment or result in a risk to the achievement of the limits, **outcomes** or **objectives** which the environmental management plan is required to achieve.

C2-4 If the proponent is to implement minor revisions to an environmental management plan under condition C2-3, the proponent must provide the **CEO** with the following at least twenty (20) business days before it implements the revisions:

- (1) the revised environmental management plan clearly showing the minor revisions;
- (2) an explanation of and justification for the minor revisions; and
- (3) an explanation and adequate evidence of why the minor revisions will not result in new or increased **disturbances** to the environment or result in a risk to the achievement of the limits, **outcomes** or **objectives** which the environmental management plan is required to achieve.

C2-5 The proponent must cease to implement any revisions which the **CEO** notifies the proponent (at any time) in writing may not be implemented.

C2-6 **Confirmed** environmental management plans, and any revised environmental management plans under condition C2-4(1), must be published on the proponent's website and provided to the **CEO** in electronic form suitable for on-line publication by the Department of Water and Environmental Regulation within twenty (20) business days of being implemented, or being required to be implemented (whichever is earlier).

C3 Conditions Related to Monitoring

C3-1 The proponent must undertake monitoring capable of:

- (1) substantiating whether the **proposal** limitations and extents in Part A are exceeded; and
- (2) **detecting** and substantiating whether the environmental **outcomes** identified in Part B are achieved (excluding any environmental **outcomes** in Part B where an environmental management plan is expressly required to monitor achievement of that **outcome**).

C3-2 The proponent must submit as part of the Compliance Assessment Report required by condition D2, a compliance monitoring report that:

- (1) outlines the monitoring that was undertaken during the implementation of the **proposal**;
- (2) identifies why the monitoring was capable of substantiating whether the **proposal** limitation and extents in Part A are exceeded;
- (3) for any environmental **outcomes** to which condition C3-1(2) applies, identifies why the monitoring was scientifically robust and capable of **detecting** whether the environmental **outcomes** in Part B are met;
- (4) outlines the results of the monitoring;
- (5) reports whether the **proposal** limitations and extents in Part A were exceeded and (for any environmental **outcomes** to which condition C3-1(2) applies) whether the environmental **outcomes** in Part B were achieved, based on analysis of the results of the monitoring; and
- (6) reports any actions taken by the proponent to remediate any potential non-compliance.

C4 Environmental Management Plans: Conditions Relating to Monitoring and Adaptive Management for Outcomes Based Conditions

C4-1 The environmental management plans required under B2-6, B4-4, B8-6, B10-5 and B11-2 must contain provisions which enable the substantiation of whether the relevant **outcomes** of those conditions are met, and must include:

- (1) **threshold criteria** that provide a limit beyond which the environmental **outcomes** are not achieved;
- (2) **trigger criteria** that will provide an early warning that the environmental **outcomes** are not likely to be met;
- (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure **threshold criteria** and **trigger criteria**. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future;
- (4) **baseline** data;
- (5) data collection and analysis methodologies;
- (6) adaptive management methodology;
- (7) **contingency measures** which will be implemented if **threshold criteria** or **trigger criteria** are not met; and
- (8) reporting requirements.

C4-2 The environmental management plan required under condition B2-6 and B4-4 are also required to include:

- (1) whether the **trigger criteria** and **threshold criteria** contained in the Environmental Management Plan for inland waters are suitable to meet the **outcomes**;
- (2) a monitoring procedure for **groundwater dependent vegetation**, water quality and groundwater levels at **Plunge Pool**;
- (3) a monitoring procedure for water quality and water levels against the baseline at the Upper River Beasley Roost and Ridge Pool; and
- (4) whether the **trigger criteria** and **threshold criteria** for terrestrial fauna are suitable to meet the **outcomes** of B2-1.

C4-3 The environmental management plan required under condition B4-4 to meet the **objectives** in condition B4-2 shall include:

- (1) the identification of the water quality **baseline** levels of the western boundary of the **proposal**, within **Duck Creek** and downstream of the water discharge points for the criteria measured under the Australian and New Zealand Environmental and Conservation Council and Agriculture and

Resource Management Council of Australia and New Zealand (ANZECC/ARMCANZ (2000)) *Australian Water Quality Guidelines for Fresh and Marine Waters* and its updates; and

(2) describe the water discharge program.

C4-4 The environmental management plan required under condition B4-4 shall include:

(1) identification of potential vegetation impact monitoring and control sites between the discharge points and the confluence of **Duck Creek** and **Boolgeeda Creek**.

C4-5 Without limiting condition C3-1, failure to achieve an environmental outcome, or the exceedance of a **threshold criteria**, regardless of whether **threshold contingency measures** have been or are being implemented, represents a non-compliance with these conditions.

C5 Environmental Management Plans: Conditions Related to Management Actions and Targets for Objective Based Conditions

C5-1 The environmental management plans required under conditions B2-6, B7-4, B8-6, B9-3, B10-5 and B11-2 must contain provisions which enable the achievement of the relevant **objectives** of those conditions and substantiation of whether the **objectives** are reasonably likely to be met, and must include:

- (1) **management actions**;
- (2) **management targets**;
- (3) **contingency measures** if **management targets** are not met; and
- (4) reporting requirements.

C5-2 Without limiting condition C2-1, the failure to achieve an environmental **objective**, or implement a **management action**, regardless of whether **contingency measures** have been or are being implemented, represents a non-compliance with these conditions.

PART D – COMPLIANCE, TIME LIMITS, AUDITS AND OTHER CONDITIONS

D1 Non-compliance Reporting

D1-1 If the proponent becomes aware of a potential non-compliance, the proponent must:

- (1) report this to the **CEO** within seven (7) days;
- (2) implement **contingency measures**;

- (3) investigate the cause;
- (4) investigate environmental impacts;
- (5) advise rectification measures to be implemented;
- (6) advise any other measures to be implemented to ensure no further impact;
- (7) advise timeframe in which contingency, rectification and other measures have and/or will be implemented; and
- (8) provide a report to the **CEO** within twenty-one (21) days of becoming aware of the potential non-compliance, detailing the measures required in conditions D1-1(1) to D1-1(7) above.

D1-2 Failure to comply with the requirements of a condition, or with the content of an environmental management plan required under a condition, constitutes a non-compliance with these conditions, regardless of whether the **contingency measures**, rectification or other measures in condition D1-1 above have been or are being implemented.

D2 Compliance Reporting

D2-1 The proponent must provide an annual Compliance Assessment Report to the **CEO** for the purpose of determining whether the implementation conditions are being complied with.

D2-2 Unless a different date or frequency is approved by the **CEO**, the first annual Compliance Assessment Report must be submitted within fifteen (15) months of the date of this Statement, and subsequent reports must be submitted annually from that date.

D2-3 Each annual Compliance Assessment Report must be endorsed by the proponent's Chief Executive Officer, or a person approved by proponent's Chief Executive Officer to be delegated to sign on the Chief Executive Officer's behalf.

D2-4 Each annual Compliance Assessment Report must:

- (1) state whether each condition of this Statement has been complied with, including:
 - (a) exceedance of any **proposal** limits and extents;
 - (b) achievement of environmental **outcomes**;
 - (c) achievement of environmental **objectives**;
 - (d) requirements to implement the content of environmental management plans;

- (e) monitoring requirements;
 - (f) implement **contingency measures**;
 - (g) requirements to implement adaptive management; and
 - (h) reporting requirements.
- (2) include the results of any monitoring (inclusive of any raw data) that has been required under Part C in order to demonstrate that the limits in Part A, and any **outcomes** or any **objectives** identified in Part B are being met;
 - (3) provide evidence to substantiate statements of compliance, or details of where there has been a non-compliance;
 - (4) include the corrective, remedial and preventative actions taken in response to any potential non-compliance;
 - (5) be provided in a form suitable for publication on the proponent's website and online by the Department of Water and Environmental Regulation; and
 - (6) be prepared and published consistent with the latest version of the Compliance Assessment Plan required by condition D2-5 which the **CEO** has **confirmed** by notice in writing satisfies the relevant requirements of Part C and Part D.

D2-5 The proponent must prepare a Compliance Assessment Plan which is submitted to the **CEO** at least six (6) months prior to the first Compliance Assessment Report required by condition D2-2, or prior to implementation of the **proposal**, whichever is sooner.

D2-6 The Compliance Assessment Plan must include:

- (1) what, when and how information will be collected and recorded to assess compliance;
- (2) the methods which will be used to assess compliance;
- (3) the methods which will be used to validate the adequacy of the compliance assessment to determine whether the implementation conditions are being complied with;
- (4) the retention of compliance assessments;
- (5) the table of contents of Compliance Assessment Reports, including audit tables; and

- (6) how and when Compliance Assessment Reports will be made publicly available, including usually being published on the proponent's website within sixty (60) days of being provided to the **CEO**.

D3 Contact Details

- D3-1 The proponent must notify the **CEO** of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

D4 Time Limit for Proposal Implementation

- D4-1 The **proposal** must be substantially commenced within five (5) years from the date of this Statement.
- D4-2 The proponent must provide to the **CEO** documentary evidence demonstrating that they have complied with condition D4-1 no later than fourteen (14) days after the expiration of period specified in condition D4-1.
- D4-3 If the **proposal** has not been substantially commenced within the period specified in condition D4-1, implementation of the **proposal** must not be commenced or continued after the expiration of that period.

D5 Public Availability of Data

- D5-1 Subject to condition D5-2, within a reasonable time period approved by the **CEO** upon the issue of this Statement and for the remainder of the life of the **proposal**, the proponent must make publicly available, in a manner approved by the **CEO**, all validated environmental data collected before and after the date of this Statement relevant to the **proposal** (including sampling design, sampling methodologies, monitoring and other empirical data and derived information products (e.g. maps)), environmental management plans and reports relevant to the assessment of this **proposal** and implementation of this Statement.

D5-2 If:

- (1) any data referred to in condition D5-1 contains trade secrets; or
- (2) any data referred to in condition D5-1 contains particulars of confidential information (other than trade secrets) that has commercial value to a person that would be, or could reasonably be expected to be, destroyed or diminished if the confidential information were published,

the proponent may submit a request for approval from the **CEO** to not make this data publicly available and the **CEO** may agree to such a request if the **CEO** is satisfied that the data meets the above criteria.

D5-3 In making such a request the proponent must provide the **CEO** with an explanation and reasons why the data should not be made publicly available.

D6 Independent Audit

D6-1 The proponent must arrange for an independent audit of compliance with the conditions of this statement, including achievement of the environmental **outcomes** and/or the environmental **objectives** and/ or environmental performance with the conditions of this statement, as and when directed by the **CEO**.

D6-2 The independent audit must be carried out by a person with appropriate qualifications who is nominated or approved by the **CEO** to undertake the audit under condition D6-1.

D6-3 The proponent must submit the independent audit report with the Compliance Assessment Report required by condition D2, or at any time as and when directed in writing by the **CEO**. The audit report is to be supported by credible evidence to substantiate its findings.

D6-4 The independent audit report required by condition D6-1 is to be made publicly available in the same timeframe, manner and form as a Compliance Assessment Report, or as otherwise directed by the **CEO**.

[signed on 31 January 2025]

Hon Reece Whitby MLA
MINISTER FOR ENVIRONMENT; CLIMATE ACTION

| |
|---|
| Key decision-making authorities consulted under section 45(2): |
| Minister for Water Minister for Aboriginal Affairs Minister for Mines and Petroleum Minister for State Development |

Table 1: Abbreviations and definitions

| Acronym or abbreviation | Definition or term |
|------------------------------------|--|
| Aboriginal heritage | Means an Aboriginal site as defined in section 5 of the <i>Aboriginal Heritage Act 1972 (AHA)</i> . |
| Aboriginal heritage site(s) | A place which has Aboriginal heritage which is subject to a WA law, and/or has been newly identified within a survey, study, report, (or similar), and/or is lodged under a WA law but not yet registered, relating specifically to Aboriginal heritage from time to time. |
| ANZG Framework | Policy, process and guidelines set out as per the Australian and New Zealand Environmental and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (ANZECC/ARMCANZ (2000)) <i>Australian Water Quality Guidelines for Fresh and Marine Waters</i> and its updates. |
| Apartment block(s) | Groupings of category 3 and 4 caves immediately surrounding higher category caves are also considered critical habitat and described as “apartment blocks” that support the viability of the category 2 caves. An apartment block roost complex consists of a category 2 roost along with several other caves, shelters, and overhangs within a few hundred meters, as per section 14.8.6.1. of the Brockman Syncline Proposal Environmental Review Document, by Rio Tinto 2023. |
| Approved/ Existing proposal | Nammuldi-Silvergrass, Brockman 2 and Brockman 4 operations approved under MS 1000, MS 925, MS 131 and MS 867. |
| Assessment area | The location whereby the environmental impact assessment was conducted for the proposal development envelope , as illustrated in Figure 3. |
| Credible offsets | Units representing GHG emissions issued under one of the following schemes and cancelled or retired in accordance with any rules applicable at the relevant time governing the cancellation or retiring of units of that kind: <ul style="list-style-type: none"> (a) Australian Carbon Credit Units issued under the <i>Carbon Credits (Carbon Farming Initiative) Act 2011 (Cth)</i>; (b) Verified Emission Reductions issued under the Gold Standard program; and (c) Verified Carbon Units issued under the Verified Carbon Standard program; or other offset units that the Minister has notified the proponent in writing meet integrity principles and are based on clear, enforceable and accountable methods. |

| Acronym or abbreviation | Definition or term |
|--|---|
| Baseline | Initial conditions measured before disturbance associated with the significant amendment which is used for comparison with data collected during and after disturbance to identify and measure changes in conditions. |
| Boolgeeda Creek | Boolgeeda Creek is an ephemeral creek within the Boolgeeda Creek catchment and is a major tributary of Duck Creek. |
| Brockman Iron Cracking Clay Priority Ecological Community | The Brockman Iron Cracking Clay communities of the Hamersley Range listed by DBCA as a priority ecological community. |
| BS1 | Brockman Syncline 1 |
| BS2 | Brockman Syncline 2 |
| BS3 | Brockman Syncline 3 |
| BS4 | Brockman Syncline 4 |
| Category 1, 2, 3 and 4 bat cave(s) | <p>Cave categorisations for category 1, category 2, category 3 and category 4 bat caves for the ghost bat or Pilbara leaf-nosed bat as per:</p> <ul style="list-style-type: none"> • <i>A review of ghost bat ecology, threats and survey requirements</i> (Prepared for the Department of Agriculture, Water and Environment by R. D. Bullen – Bat Call WA, 2022); and • <i>A review of Pilbara leaf-nosed bat ecology, threats and survey requirements</i> (Prepared for the Department of Agriculture, Water and Environment by R. D. Bullen – Bat Call WA, 2022). |
| Cave CBRK-174 | Ghost bat cave as delineated in Figure 8-5, Table 14-8 and Figure 14-4 of proponent’s Environmental Review Document (Rio Tinto 2023a) |
| Caves Creek | Caves Creek is an ephemeral creek within the Caves Creek catchment that supports permanent pools and an aquatic GDE downstream of the existing Nammuldi-Silvergrass mine. |
| CEO | The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or the CEO’s delegate. |
| Clearing activities | Has the same meaning as in section 51A of the <i>Environmental Protection Act 1986</i> . |
| Conceptual footprint | Refers to the current indicative layout of the direct disturbance footprint of the significant amendment , which includes key elements such as mine pits and waste rock landforms (WRLs), as well as infrastructure. |

| Acronym or abbreviation | Definition or term | | | | | | | | | | |
|--|---|---------|--------------------|----------|---------|----------|---------|----------|---------|--------------------|---------|
| Confirmed | <p>In relation to a plan required to be made and submitted to the CEO, means, at the relevant time, the plan that the CEO confirmed, by notice in writing, meets the requirements of the relevant condition.</p> <p>In relation to a plan required to be implemented without the need to be first submitted to the CEO, means that plan until it is revised, and then means, at the relevant time, the plan that the CEO confirmed, by notice in writing, meets the requirements of the relevant condition.</p> | | | | | | | | | | |
| Conservation significant ecological communities | Threatened ecological communities and priority ecological communities . | | | | | | | | | | |
| Conservation significant fauna | Threatened fauna, priority fauna, other significant fauna and confirmed short-range endemic fauna. | | | | | | | | | | |
| Conservation significant flora | Threatened flora and priority flora . | | | | | | | | | | |
| Contingency measures | <p>Planned actions for implementation if it is identified that an environmental outcome, environmental objective, threshold criteria, or management target are likely to be, or are being, exceeded. Contingency measures include changes to operations or reductions in disturbance to reduce impacts and must be decisive actions that will quickly bring the impact to below any relevant threshold, management target and to ensure that the environmental outcome and/or objective can be met.</p> | | | | | | | | | | |
| CPI | The All Groups Consumer Price Index numbers for Perth compiled and published by the Australian Bureau of Statistics. | | | | | | | | | | |
| Critical caves | <p>Ghost bat caves classified as category 2, or groups of category 3 and 4 caves surrounding higher category caves described as 'apartment blocks' that support the viability of category 2 caves, as defined in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023).</p> <p>All critical caves are located within Mining Exclusion Zone 1, as represented by the following caves in the supporting spatial data for the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023).</p> <table> <tbody> <tr> <td>Cave ID</td> <td>Apartment block ID</td> </tr> <tr> <td>CBRK-061</td> <td>AB-BS-7</td> </tr> <tr> <td>CBRK-063</td> <td>AB-BS-7</td> </tr> <tr> <td>CBRK-065</td> <td>AB-BS-7</td> </tr> <tr> <td>CBRK-067 (LGBAT03)</td> <td>AB-BS-7</td> </tr> </tbody> </table> | Cave ID | Apartment block ID | CBRK-061 | AB-BS-7 | CBRK-063 | AB-BS-7 | CBRK-065 | AB-BS-7 | CBRK-067 (LGBAT03) | AB-BS-7 |
| Cave ID | Apartment block ID | | | | | | | | | | |
| CBRK-061 | AB-BS-7 | | | | | | | | | | |
| CBRK-063 | AB-BS-7 | | | | | | | | | | |
| CBRK-065 | AB-BS-7 | | | | | | | | | | |
| CBRK-067 (LGBAT03) | AB-BS-7 | | | | | | | | | | |

| Acronym or abbreviation | Definition or term |
|-----------------------------------|---|
| | CBRK-069 (LGBAT08) AB-BS-8 CBRK-071 AB-BS-8 CBRK-076 AB-BS-9 CBRK-078 AB-SGE-2 CBRK-079 AB-BS-9 CBRK-080 AB-SGE-2 CBRK-081 AB-BS-9 CBRK-082 Isolated Category 2 CBRK-083 AB-BS-9 CBRK-085 AB-BS-9 CBRK-087 - CBRK-093 AB-BS-10 CBRK-101 - CBRK-173 - CBRK-174 - GBS_CA_15 Isolated Category 2 GBS_CA_16 - GBS_CA_17 - GBS_CA_18 - |
| Critical habitat | Fauna habitat types such as debris slope/rocky outcrop and gorge/gully and free face for northern quoll, Pilbara leaf-nosed bat, ghost bat and Pilbara olive python as described in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Day-time | Means any time more than thirty (30) minutes after sunrise and more than thirty (30) minutes prior to sunset on the same day. |
| DBCA | Means the Department responsible for administration of the <i>Biodiversity Conservation Act 2016</i> which at the time of writing is the Department of Biodiversity, Conservation and Attractions (DBCA). |
| DCCEEW | The Department of Climate Change, Energy, the Environment and Water (Commonwealth). |
| Debris slope/rocky outcrop | The area defined as the habitat type “ debris slope/ rocky outcrop ” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023) (Figure 10). |
| DEMIRS | The Department responsible for administration of the <i>Mining Act 1978</i> which at the time of writing is the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS). |
| Detecting | The smallest statistically discernible effect size that can be achieved with a monitoring strategy designed to achieve a statistical power value or measure of at least 0.8 or an alternative value as determined by the CEO . |

| Acronym or abbreviation | Definition or term |
|---|---|
| Development envelope | Area in which the new mine and existing areas and associated facilities of the proposal are located. All direct impacts associated with the proposal will be contained within the development envelope . |
| Directional and/or shielded lighting | Means light fittings that are located, directed, or shielded to avoid lighting anything but the target object or area as described in the <i>National Light Pollution Guidelines for Wildlife</i> (May 2023). |
| Disturb/ disturbance(s) | <p>Means directly has or materially contributes to the disturbance effect on health, diversity or abundance of the receptor/s being impacted or on an environmental value.</p> <p>In relation to flora, vegetation or fauna habitat, includes to result in the death, destruction, removal, severing or doing substantial damage.</p> <p>In relation to fauna, includes to have the effect of altering the natural behaviour of fauna to its detriment.</p> <p>In relation to inland waters, includes to have the effect of altering hydrological regimes or water quality to the detriment of the environmental values supported by or dependent on surface water and/or groundwater.</p> <p>In relation to Aboriginal heritage, means an activity that would constitute an offence under section 17 of the AHA.</p> |
| Duck Creek | Duck Creek is an ephemeral creek with a number of semi-permanent river pools located largely within the Duck Creek Catchment. |
| DWER | The Department(s) responsible for administration of the <i>Metropolitan Water Supply, Sewerage, and Drainage Act 1909</i> and the <i>Country Areas Water Supply Act 1947</i> which at the time of writing is the Department of Water and Environmental Regulation (DWER). |
| Environmental harm | Has the meaning provided by section 3A(2) of the <i>Environmental Protection Act 1986</i> . |
| Environmental value(s) | A beneficial use, or ecosystem health condition. |
| Environmental weeds | Any plant declared under section 22(2) of the <i>Biodiversity and Agriculture Management Act 2007</i> , any plant listed on the Weeds of National Significance List and any weeds listed on the DBCA's Pilbara Impact and Invasiveness Ratings list, as amended or replaced from time to time. |
| EP Act | <i>Environmental Protection Act 1986</i> . |
| EPBC Act | <i>Environment Protection and Biodiversity Conservation Act 1999</i> . |

| Acronym or abbreviation | Definition or term |
|--|--|
| Existing operations | Approved proposals – Brockman Syncline 2, Brockman Syncline 4 and Nammudi-Silvergrass, approved under MS 131, 867, 925 and 1000 (Figure 2). |
| Fauna spotter(s) | A person who is qualified and has attained the appropriate licence/s and authorisation/s under the <i>Biodiversity Conservation Act 2016</i> and the <i>Biodiversity Conservation Regulations 2018</i> . |
| Fauna Corridor Protection Zones | Strategic locations to maintain natural dispersal corridors and ecological connectivity between the three central areas , for fauna species within the development envelope . |
| Feral fauna | Non-native (introduced) fauna species that are, or have the potential to, become established in the wild. Examples relevant to the proposal include but are not limited to: cat (<i>Felis catus</i>), red fox (<i>Vulpes vulpes</i>), cane toad (<i>Rhinella marina</i>) and goat (<i>Capra hircus</i>). |
| GDE | Groundwater Dependent Ecosystem. |
| GDV | Groundwater Dependent Vegetation - specifically vegetation units C3 (DkCk) and C28. |
| GHG emissions | Greenhouse gas emissions expressed in tonnes of carbon dioxide equivalent (CO ₂ -e) as calculated in accordance with the definition of 'carbon dioxide equivalence' in Section 7 of the <i>National Greenhouse and Energy Reporting Act 2007</i> (Cth), or, if that definition is amended or repealed, the meaning set out in an Act, regulation or instrument concerning greenhouse gases as specified by the Minister. |
| Greenhouse gas or GHG | Has the meaning given by Section 7A of the <i>National Greenhouse and Energy Reporting Act 2007</i> (Cth) or, if that definition is amended or repealed, the meaning set out in an Act, regulation or instrument concerning greenhouse gases as specified by the Minister. |
| GL/a | Gigalitres per annum. |
| 'Good' to 'Excellent' condition native vegetation | Means native vegetation that has been rated 'good', 'excellent' or any value between these ratings, in accordance with the <i>Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment</i> (EPA 2016) including any revision to this technical guidance. |
| Gorge/gully and free face | The area defined as the habitat type “gorge/gully and free face” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023) (Figure 11). |

| Acronym or abbreviation | Definition or term |
|--|--|
| Ground disturbing activities | Any activity or activities undertaken in the implementation of the proposal, including any clearing activities , civil works or construction. |
| Groundwater dependent ecosystem(s) | Communities of living organisms interacting with the non-living environment that are characterised by having ecological components that rely on groundwater for at least part of the year or part of their life cycles. Types of groundwater dependent ecosystems include wetland, river, and riparian vegetation ecosystems. |
| Groundwater dependent vegetation | Vegetation that relies on groundwater for at least part of the year or part of their life cycles. |
| ha | Hectare. |
| Hamersley IBRA subregion | As delineated by PIL03 of <i>Interim Biogeographic Regionalisation for Australia, Version 7 (DCCEEW)</i> . |
| Historical results | Results from scientific research or monitoring conducted or funded by Rio Tinto in mines operated in the Pilbara region. |
| Hydrological regime and water quality | The occurrence, distribution, connectivity, movement, and quantity (hydrological regimes) of inland water including its chemical, physical, biological and aesthetic characteristics (quality), <i>EPA - Inland Waters Environmental Factor Guidelines</i> (June 2018). |
| Integrated waste landform | The integrated waste landform is the incorporation of the disposal of tailings material within the waste landform resulting in a single landform. |
| km | Kilometre. |
| km³ | Cubic kilometre(s). |
| km/hr | Kilometre(s) per hour. |
| Kurwillinha Pool | Kurwillinha Pool is a culturally significant surface water fed pool located within the Beasley River catchment |
| Line of sight | A line from an observer's eye to a distant point. |
| Local area | In relations to fauna, within 20 km of the development envelope . In relation to flora, within 10 km of the development envelope . |
| Local provenance | Refers to Hamersley IBRA subregion as delineated by the PIL03 of <i>Interim Biogeographic Regionalisation for Australia, Version 7 (DCCEEW)</i> . |
| Low impact activities | Activities involving minimal disturbance of ground or vegetation. Activities may include: <ul style="list-style-type: none"> • monitoring of cultural or heritage values, fauna, |

| Acronym or abbreviation | Definition or term |
|--|--|
| | vegetation or water; <ul style="list-style-type: none"> • management activities associated with feral fauna control, environmental weed control or protection of cultural or heritage values. • implementation of contingency measures; or • cultural or ecological restoration activities. |
| m | Metre(s) |
| m³ | Cubic metre(s) |
| Maternity season | Period between 1 October to 31 December for ghost bats (<i>Macroderma gigas</i>) and period 1 June to 30 November for grey falcons (<i>Falco hypoleucos</i>). |
| Major creekline | The area defined as the habitat type “Major Creekline” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Management action(s) | The identified actions implemented with the intent of to achieving the environmental objective . |
| Management target | A type of indicator to evaluate whether an environmental objective is being achieved. |
| Mine dewatering | The extraction of groundwater from below the water table to access an ore body. |
| Mining Exclusion Zone 1 (MEZ 1) | As spatially depicted in Figure 6a, 6b, 6c, 6d and 6e and delineated by geographic coordinates and spatial data referred to in Schedule 1. It comprises critical caves for ghost bats. |
| Mining Exclusion Zone 2 (MEZ 2) | As spatially depicted in Figure 7 and delineated by geographic coordinates and spatial data referred to in Schedule 1. It comprises isolated category 3 and 4 caves for ghost bats. |
| Mining Exclusion Zone 3 (MEZ 3) Pools and GDVs | As spatially depicted in Figure 9 and delineated by geographic coordinates and spatial data referred to in Schedule 1. |
| Mining Exclusion Zone 4 (MEZ 4) P1 <i>Tetratheca Butcheriana</i> (P1) | As spatially depicted in Figure 5 and delineated by geographic coordinates and spatial data referred to in Schedule 1. |
| Mining Exclusion Zone 5 (MEZ 5) Short Range Endemics | As spatially depicted in Figure 12 and delineated by geographic coordinates and spatial data referred to in Schedule 1. |
| Mining operations | Means any mode or method of working whereby the earth or any rock, structure, stone, fluid or mineral bearing substance may be disturbed, removed, washed, sifted, |

| Acronym or abbreviation | Definition or term |
|---|---|
| | crushed, leached, roasted, distilled, evaporated, smelted, combusted or refined or dealt with for the purpose of obtaining any mineral or processed mineral resource therefrom whether it has been previously disturbed or not (<i>Mining Act 1978</i>). |
| Mining Restriction Zone (MRZ) | A demarcated zone where no mining excavation will occur and only low impact activities such as access tracks may be implemented. No more than 5% of the MRZ can be cleared for low impact activities. |
| Minor creekline | The area defined as the habitat type “minor creekline” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| mm/s | Millimeters per second. |
| Mt | Million tonnes. |
| Nammuldi Irrigated Area | Nammuldi Irrigated Area as delineated in Figure 4. |
| Nammuldi-Silvergrass approved proposal | The Nammuldi-Silvergrass Iron Ore Project as approved by Ministerial Statement 925. |
| Native Vegetation | Native vegetation is defined by section 3(1) of the <i>Environmental Protection Act 1986</i> and means indigenous aquatic or terrestrial vegetation and includes dead vegetation unless that dead vegetation is of a class declared by regulation to be excluded but does not include vegetation in a plantation. Section 51A further defines that native vegetation includes vegetation that was intentionally sown, planted or propagated as required under the Act or another written law. |
| Nearby/ vicinity | Within 20 km of the development envelope . |
| Night-time | Means any time outside day-time hours. |
| Non-maternity season | Period between 1 January to 30 September for ghost bats (<i>Macroderma gigas</i>). |
| Objective(s) | An objective is the proposal-specific desired state for an environmental factor/s to be achieved from the implementation of management actions . |
| On-ground management | This includes revegetation (re-establishment of native vegetation in degraded areas) and rehabilitation (repair of ecosystem processes and management of weeds, disease or feral animals) with the objective to achieve a tangible improvement to the environmental values in the offset area. |
| Operation(s)/ Commencement of operations | Operation of the plant infrastructure and pit activities for the proposal. It is the phase post construction and includes pre-commissioning, commissioning, start-up and operation. |

| Acronym or abbreviation | Definition or term |
|---|---|
| Other significant fauna | Vertebrate or invertebrate fauna that although not listed as threatened or priority, may be otherwise significant. Example reasons for being otherwise significant include: <ul style="list-style-type: none"> - locally endemic or has an association with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems) - new species or anomalous features that indicate a potential new species - representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range) - unusual species, including restricted subspecies - relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape. |
| Outcome(s) | A proposal-specific result to be achieved when implementing the proposal . |
| Pilbara Environmental Offsets Fund | A special purpose account created pursuant to section 16(1)(d) of the <i>Financial Management Act 2006</i> by the Department of Water and Environmental Regulation. |
| Pilbara Leaf-Nosed Bat Plateau | The area defined as the habitat type “plateau” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Pilbara leaf-nosed bat caves | The area defined by 21 category 4 and 4 caves with ‘no usage’ as shown in Figure 8. |
| Plunge Pool | Plunge Pool is a culturally significant groundwater and surface water fed permanent pool located within the Beasley River catchment. |
| Pre-clearance survey(s) | Surveys designed to identify the presence or evidence of threatened and priority fauna species listed under the <i>Biodiversity Conservation Act 2016</i> prior to ground disturbing activities . |
| Priority ecological communities | Ecological communities listed as priority by DBCA . |
| Priority fauna | Fauna listed as priority by DBCA . |
| Priority flora | Species listed as priority by DBCA . |
| Proposal | The proposal is the entire proposal, which includes all of the existing approved proposals (under Ministerial Statements 131,867,925,1000), <u>plus</u> the expansion ‘significant amendment’. |
| Progressive manner | In relation to rehabilitation, the stage treatment of disturbed areas during exploration, construction, development and mining operation as soon as these areas become available. |

| Acronym or abbreviation | Definition or term |
|--|--|
| Proposal GHG emissions | GHG emissions released to the atmosphere as a direct result of an activity or series of activities that comprise/s or form/s part of the proposal , including GHG emissions resulting from the haulage of ore from the proposal to any third-party processing facility. |
| Pollution | Has the meaning provided by section 3A(1) of the <i>Environmental Protection Act 1986</i> . |
| Relevant Traditional Owners | In relation to the land subject to the proposal, means one or more of the following: <ul style="list-style-type: none"> - a registered native title body corporate for the land; or - a registered native title claimant for the land; or - a group of persons with Aboriginal traditional and cultural associations with the land. |
| Riparian vegetation | Vegetation types identified as supporting riparian vegetation (including C3, C16, C6, and C28) in Table 8 of the report, Brockman Syncline Proposal - <i>Greater Brockman Syncline: Consolidated Vegetation Type and Condition Mapping</i> . Prepared for Rio Tinto (Stantec 2021). |
| Safeguard Legislation | The Commonwealth <i>National Greenhouse and Energy Reporting Act 2007</i> and associated <i>National Greenhouse and Energy Reporting (Safeguard Mechanism) Rule 2015</i> . |
| Scope 1 GHG emissions / Scope 1 | Scope 1 emissions of greenhouse gas , in relation to a facility, means the release of greenhouse gas into the atmosphere as a direct result of one or more activities, which are part of the proposal , that generate greenhouse gas emissions. |
| Significant amendment | The significant amendment is the expansion of the approved/existing proposal . |
| Short-range endemic fauna | Invertebrate fauna that typically display characteristic ecological and life-history traits including poor dispersal powers, confinement to discontinuous habitats, usually highly seasonal activity patterns and low levels of fecundity, and depending on the exact nature of these traits, are at threat of significant decline and are therefore significant for conservation. |
| Similar geologies | A body of rock with similar geological and structural properties (for example banded iron formations or channel iron deposits). |
| Stygofauna habitat | Bodies of groundwater that support stygofauna communities. |

| Acronym or abbreviation | Definition or term |
|--|---|
| Surface water features | Habitat for fauna, ephemeral pools - B4 and LGCAM04, WBRK-01 and No Name (BS3). |
| Supporting habitat | Fauna habitat types major creekline and minor creekline (for northern quoll, Pilbara leaf-nosed bat, ghost bat and Pilbara olive python); and alluvial plain, colluvial plain and hardpan plain (for Pilbara leaf-nosed bat and ghost bat) as described in Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Technical Guidance – Flora and vegetation surveys for environmental impact assessment | The <i>Technical guidance – Flora and vegetation surveys for environmental impact assessment</i> (EPA 2016) including any revision to this technical guidance. |
| Threatened ecological communities | Ecological communities listed as threatened under the <i>Biodiversity Conservation Act 2016</i> or the <i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i> . |
| Threatened fauna | Fauna listed as threatened under the <i>Biodiversity Conservation Act 2016</i> or the <i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i> . |
| Threatened flora | Flora listed as threatened under the <i>Biodiversity Conservation Act 2016</i> or the <i>Commonwealth Environment Protection and Biodiversity Act 1999</i> . |
| Three central areas | As discussed in the EPA report, the ‘three areas’ are: (a) small area north of BS4 (1,480 ha), (b) Mount Brockman south of BS3 (17,485 ha) and (c) the surrounding area near Ridge Pool (1,873 ha). |
| Threshold criteria | The indicators that have been selected to represent limits of impact beyond which the environmental outcome is not being met. |
| Trigger criteria | Indicators that have been selected for monitoring to provide a warning that, if exceeded, the environmental outcome may not be achieved. They are intended to forewarn of the approach of the threshold criteria and trigger response actions. |
| Troglofauna habitat | Caves and voids that support troglofauna communities as defined in section 9.3.2.4 of the <i>Environmental Review Document - Brockman Syncline Proposal, Revision C</i> , Rio Tinto, August 2023. |
| Viability | Where there is evidence of breeding and juveniles and the population numbers remain within natural variation. |

| Acronym or abbreviation | Definition or term |
|--|---|
| Vegetation type C28 | The area defined as the habitat type “vegetation type C28” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Vegetation types P33 and P27 | The area defined as the habitat type “vegetation type P33 and P27” in the report and supporting spatial data in the Brockman Syncline Proposal Environmental Review Document (Rio Tinto 2023). |
| Vegetation unit C3 (DkCk) | The area defined as the habitat type “vegetation unit C3” in the report and supporting spatial data in the Brockman Syncline Proposal - <i>Greater Brockman Syncline: Consolidated Vegetation Type and Condition Mapping</i> . Prepared for Rio Tinto (Stantec 2021). |
| Vegetation Protection Zone(s) (VPZ) | Proponent derived - A demarcated zone where no direct disturbance is permitted except for activities associated with linear infrastructure (e.g. conveyor, pipelines, roads). |
| Waste rock landforms (WRL) | Landform that consists of rocks removed in the mining process to provide access to the ore. |

Figures (attached)

Figure 1: Brockman Syncline Proposal

Figure 2: Brockman Syncline Existing proposals

Figure 3: Brockman Syncline Assessment area

Figure 4: Nammuldi Irrigated Agriculture Area, as outlined in the Nammuldi-Silvergrass Expansion (MS 925) proposal.

Figure 5: *Tetratheca butcheriana* (P1) and 300 m MEZ

Figure 6a: Mining Exclusion Zone 1 (full extent map)

Figure 6b: Mining Exclusion Zone 1 (map 1)

Figure 6c: Mining Exclusion Zone 1 (map 2)

Figure 6d: Mining Exclusion Zone 1 (map 3)

Figure 6e: Mining Exclusion Zone 1 (map 4)

Figure 7: Mining Exclusion Zone 2 – isolated category 3 (100 m buffer) and 4 (20 m buffer) ghost bat caves

Figure 8: Impacted ghost bat caves within the development envelope

Figure 9: Map of MEZ for pools and GDEs within the proposal

Figure 10: Fauna Corridor Protection Zones (Area 1, Area 2 and Area 3)

Figure 11: Fauna habitat within the development envelope

Figure 12: Short Range Endemics MEZ in B3 area

Figure 13: Brockman Iron Cracking Clay Priority Ecological Community clearing limits for Nammuldi-Silvergrass

Figure 14: Brockman Syncline monitoring bores

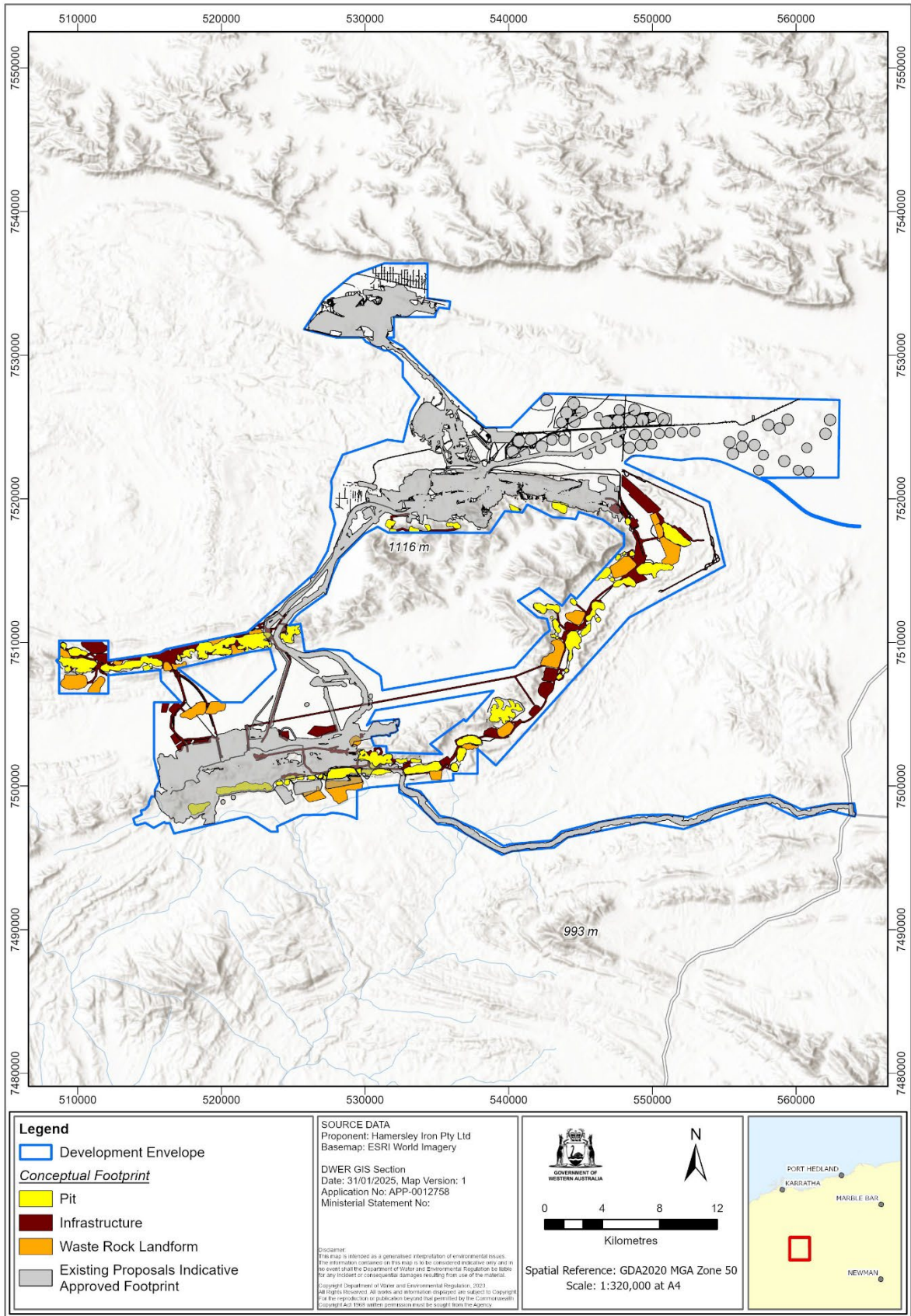
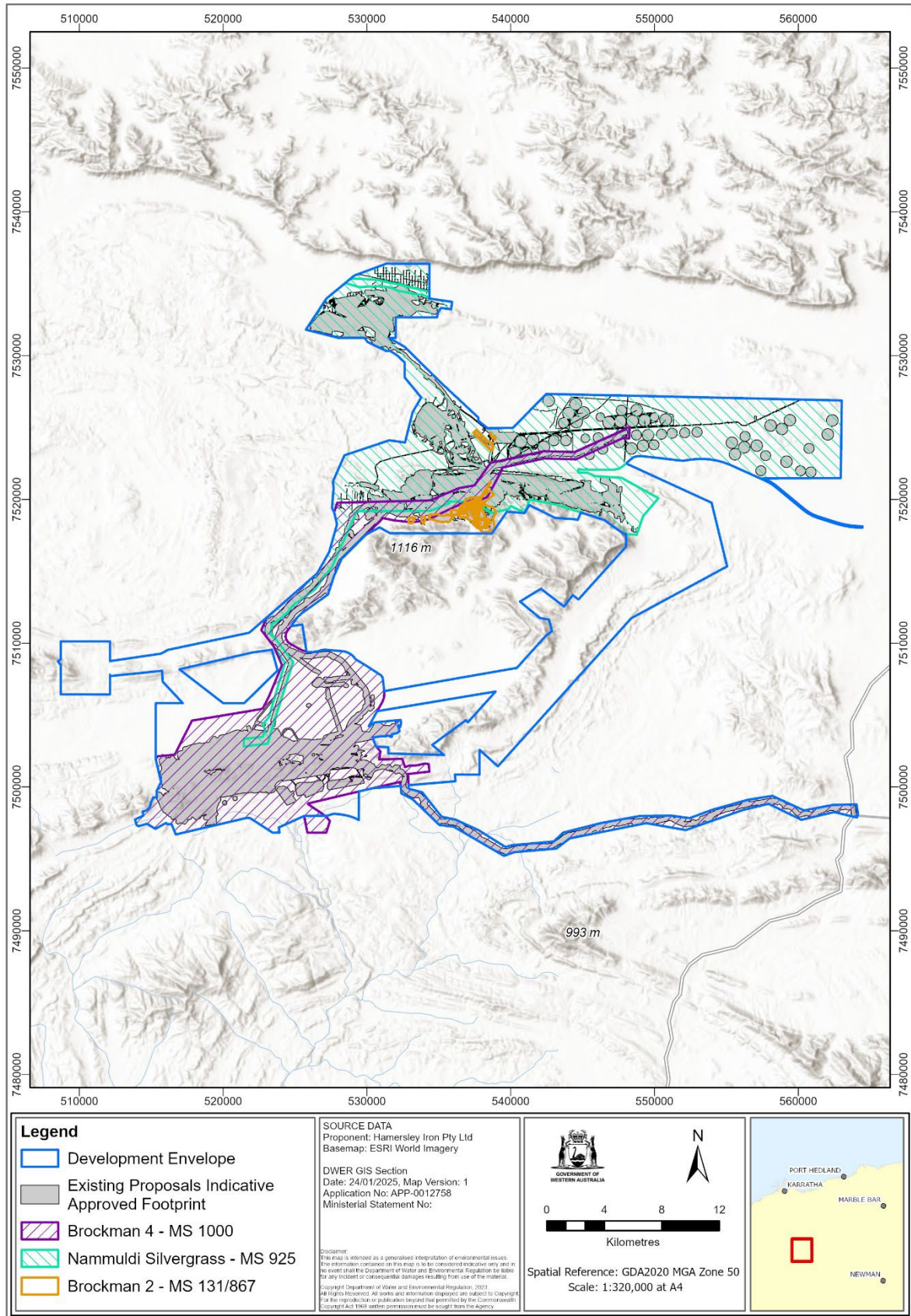


Figure 1: Brockman Syncline Proposal



Path: S:\Projects\EA\38\2019_DWER\DT182001_BrockmanSyncline\Proposal\3_Assessment\ArcGIS_Prot\BrockmanSyncline\Proposal_Report_Figures\BrockmanSyncline\Proposal_Report_Figures.aprx

Figure 2: Brockman Syncline – approved proposals

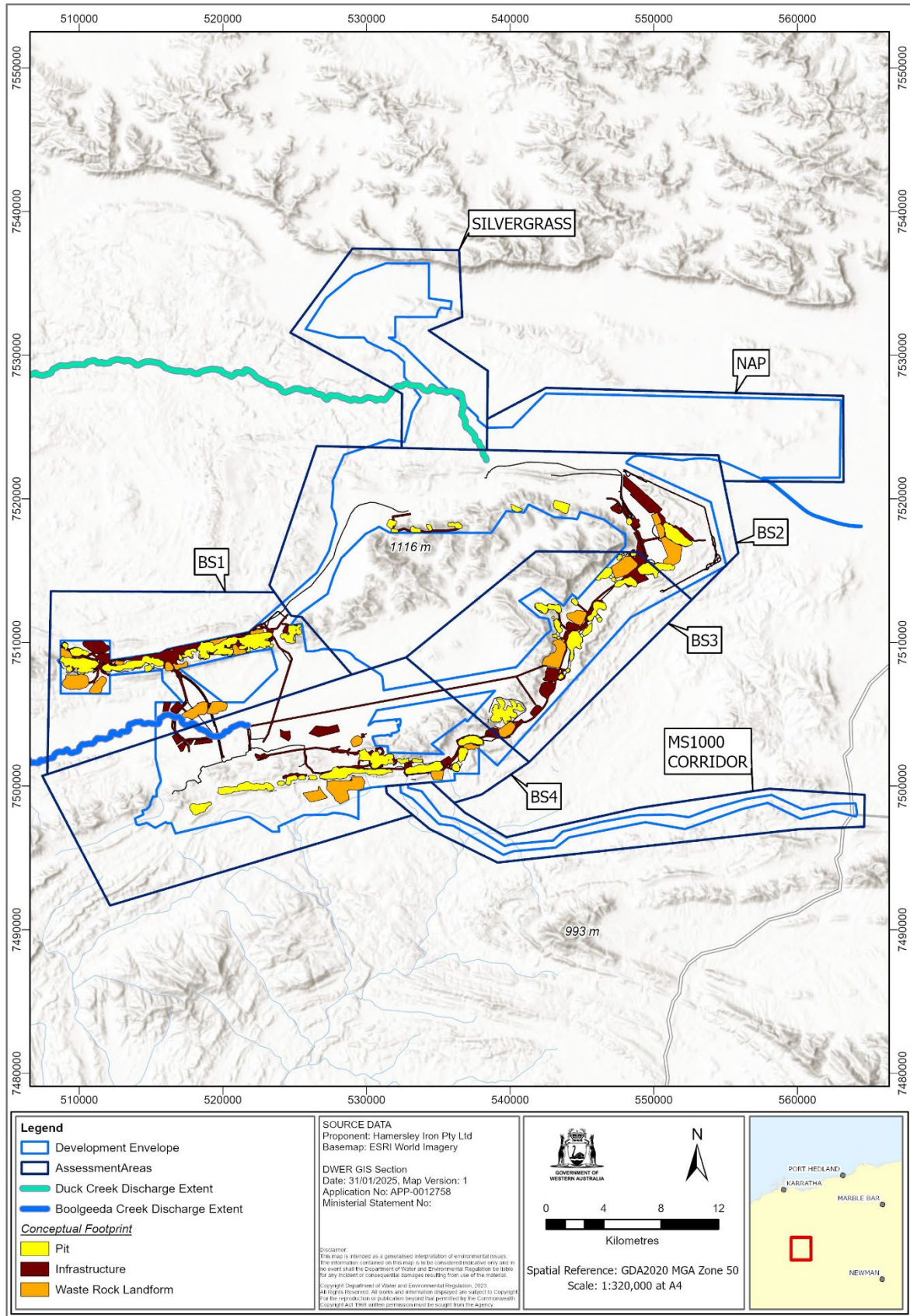


Figure 3: Brockman Syncline Assessment area

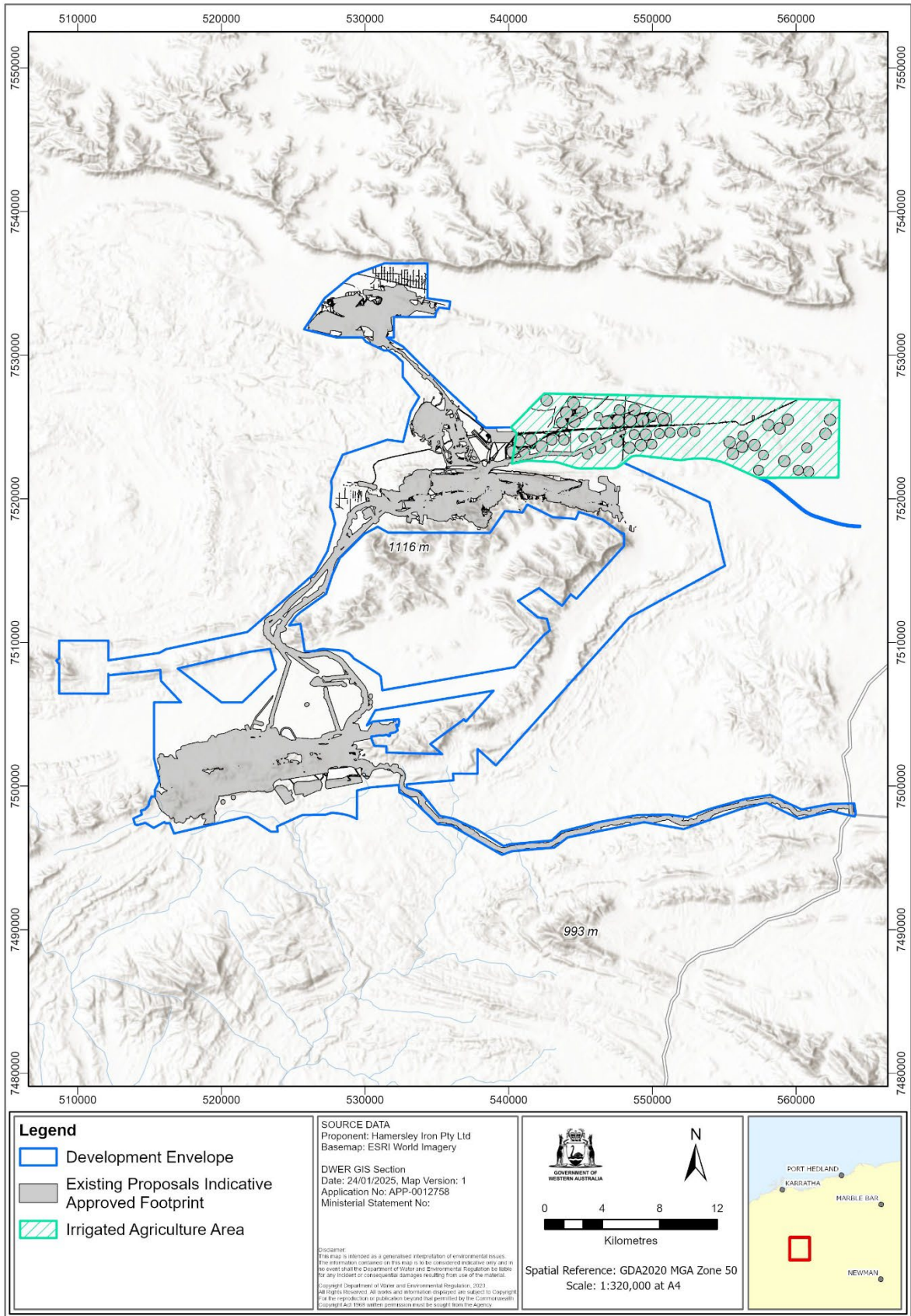


Figure 4: Nammuldi Irrigated Area

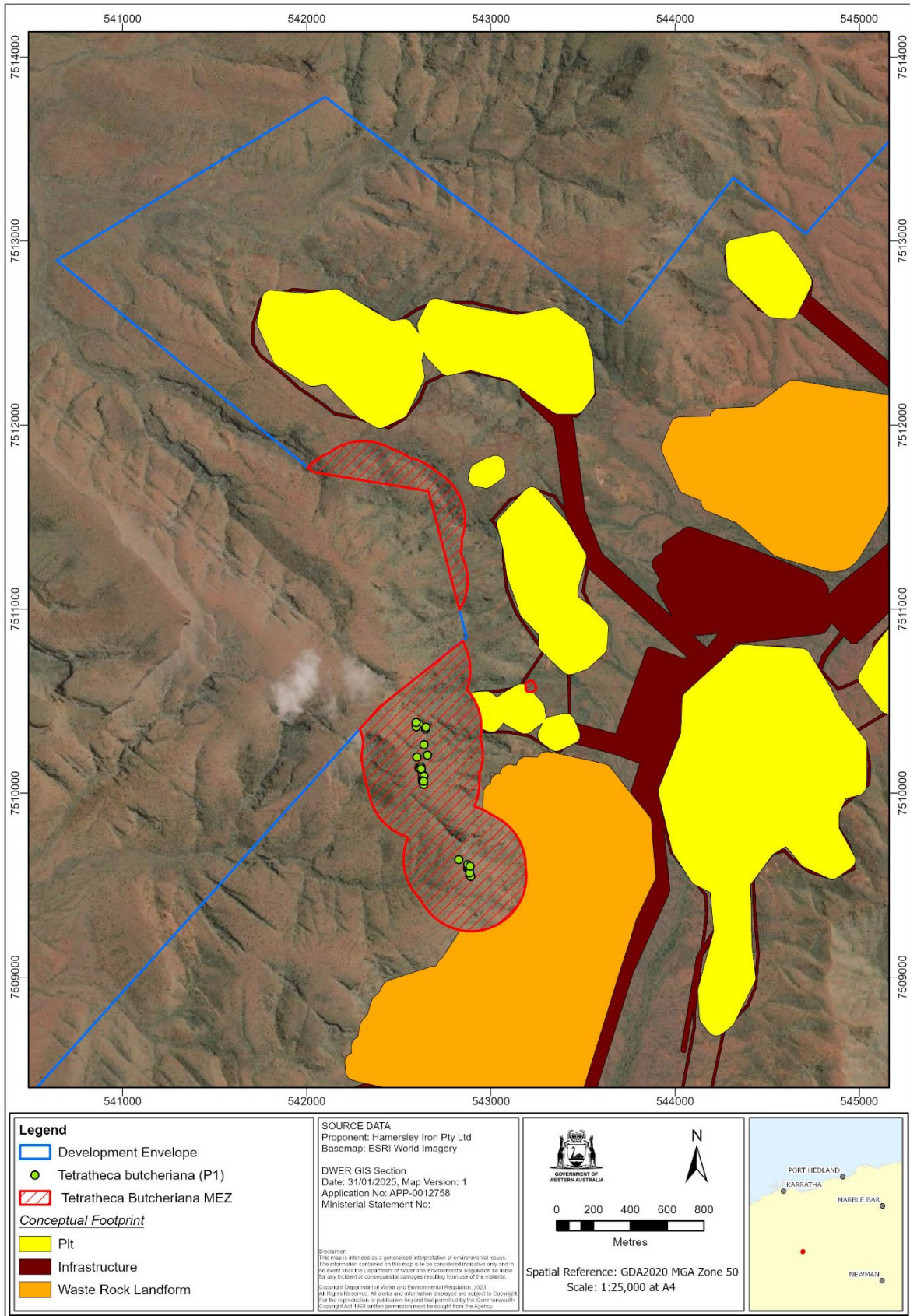


Figure 5: *Tetratheca butcheriana* (P1) and 300 m MEZ

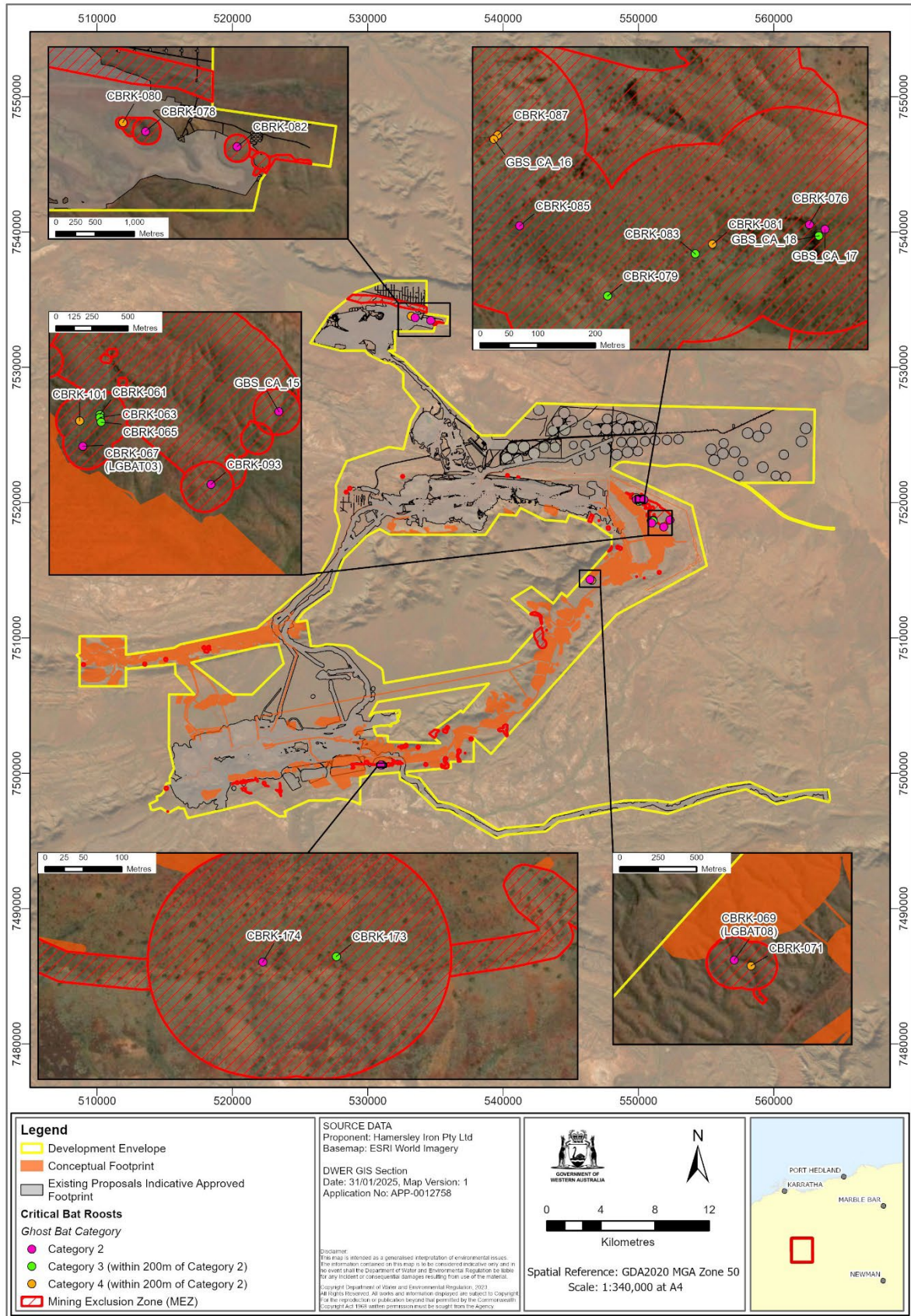


Figure 6a: Mining Exclusion Zone 1 (full extent map)

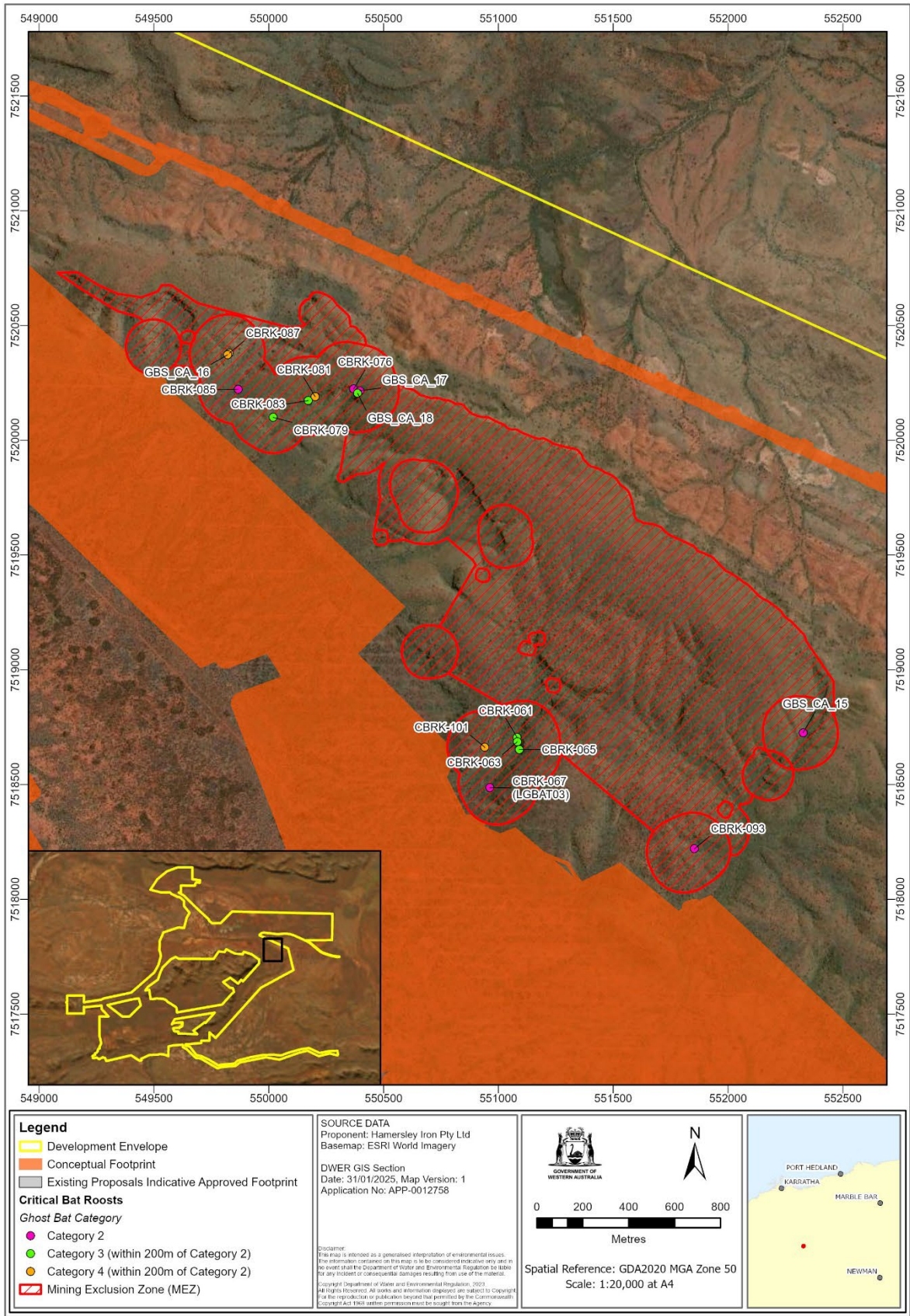


Figure 6b: Mining Exclusion Zone 1 (map 1)

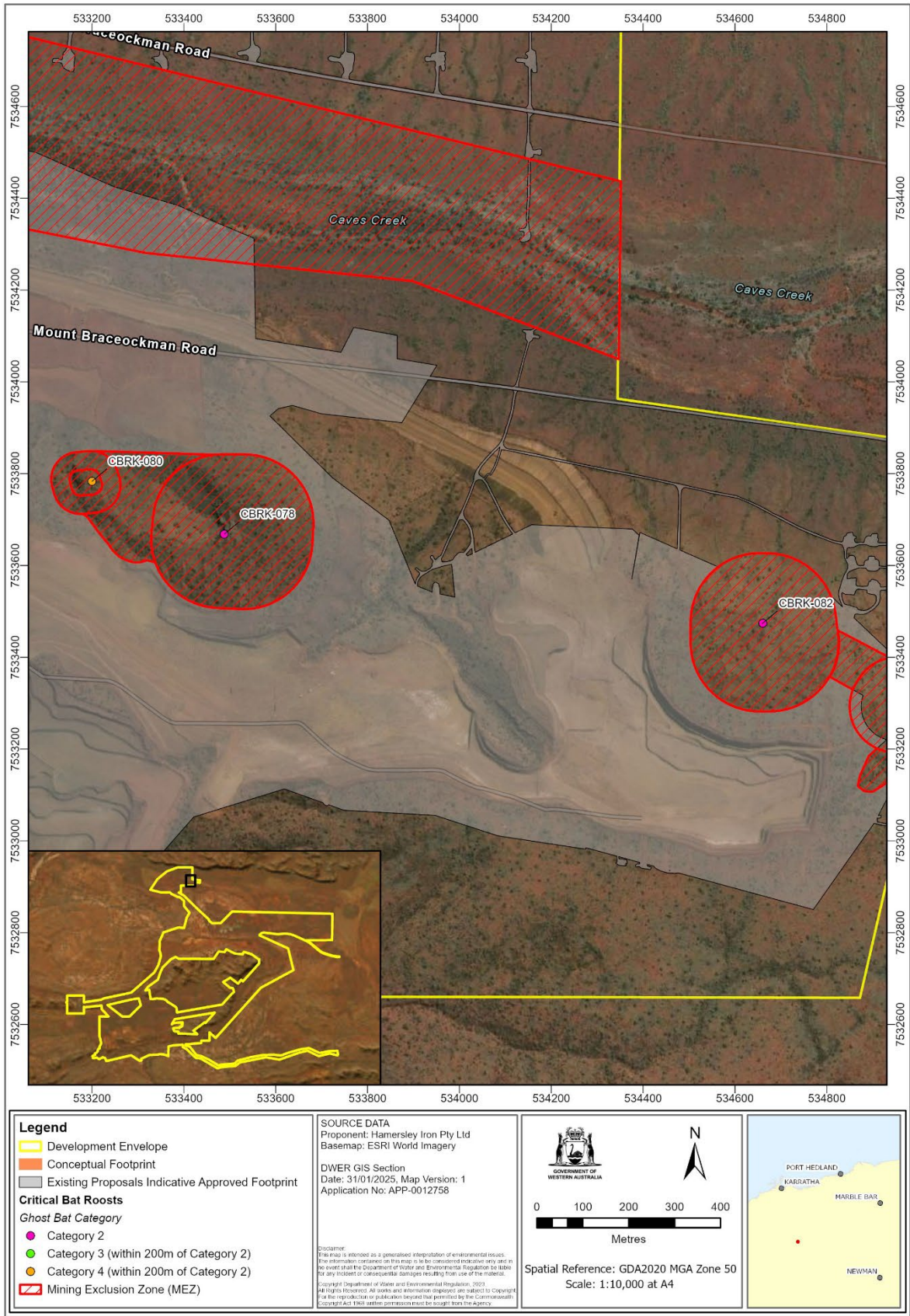


Figure 6c: Mining Exclusion Zone 1 (map 2)

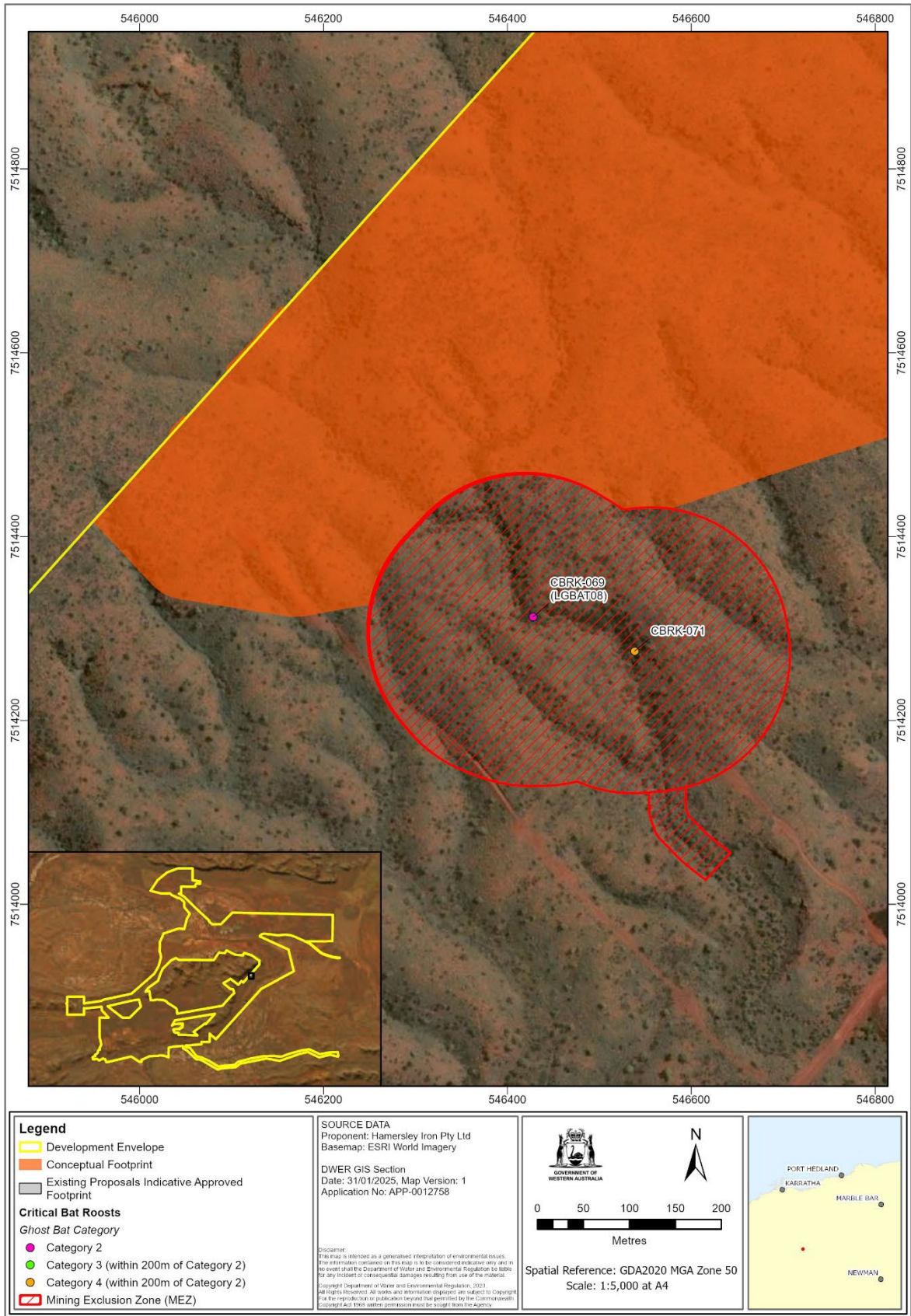


Figure 6d: Mining Exclusion Zone 1 (map 3)

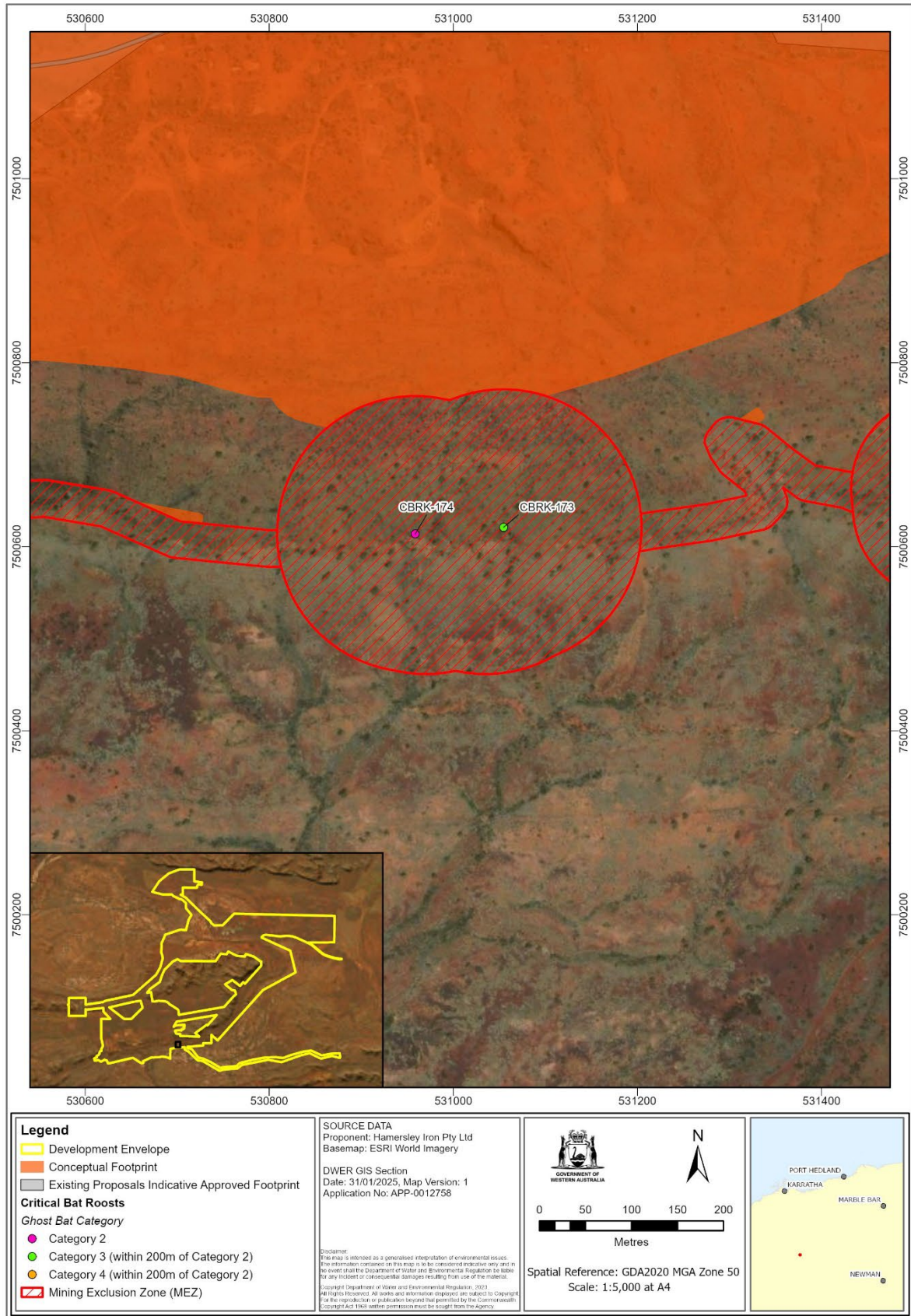


Figure 6e: Mining Exclusion Zone 1 (map 4)

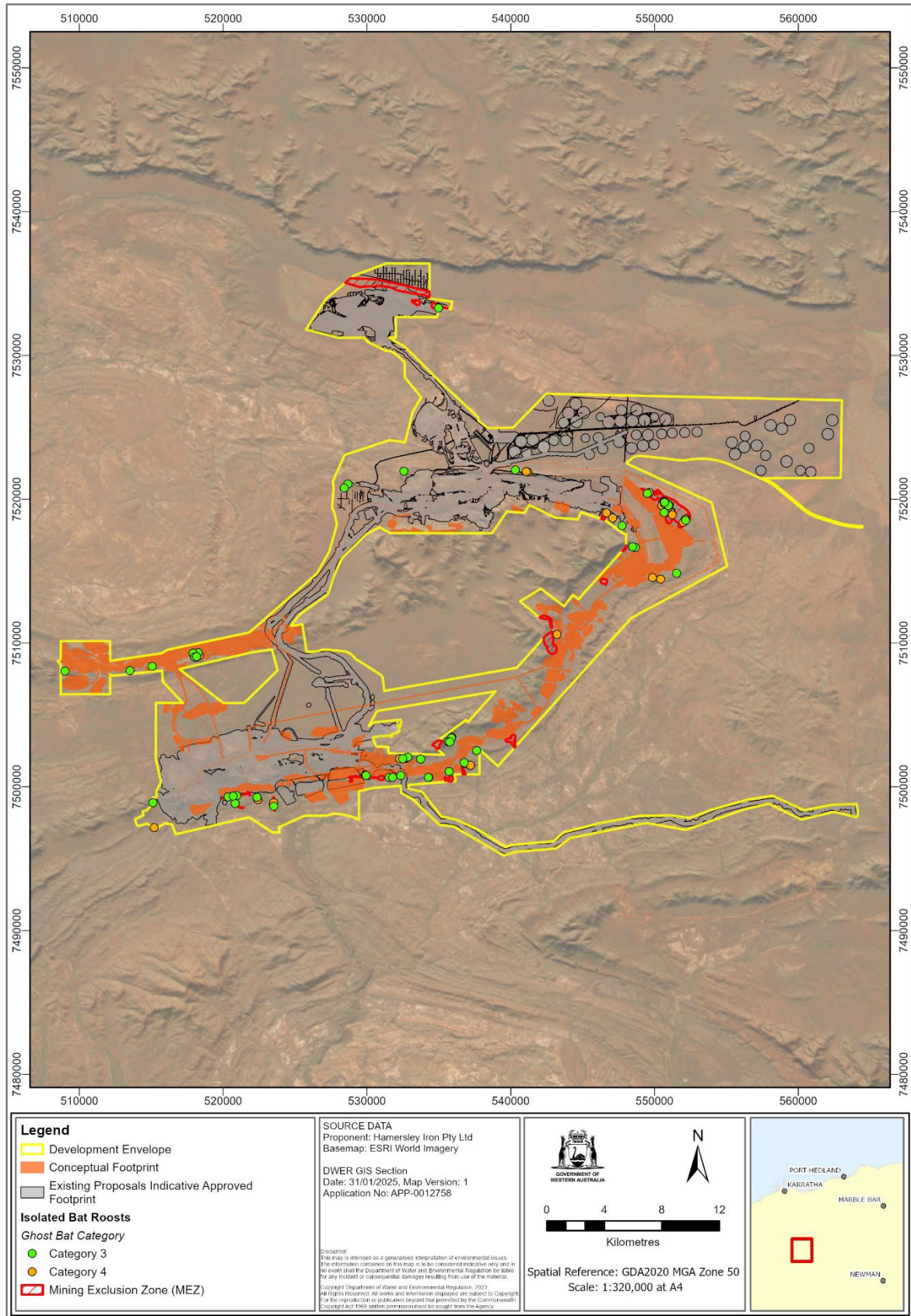


Figure 7: Mining Exclusion Zone 2 – isolated category 3 (100 m buffer) and 4 (20 m buffer) ghost bat caves

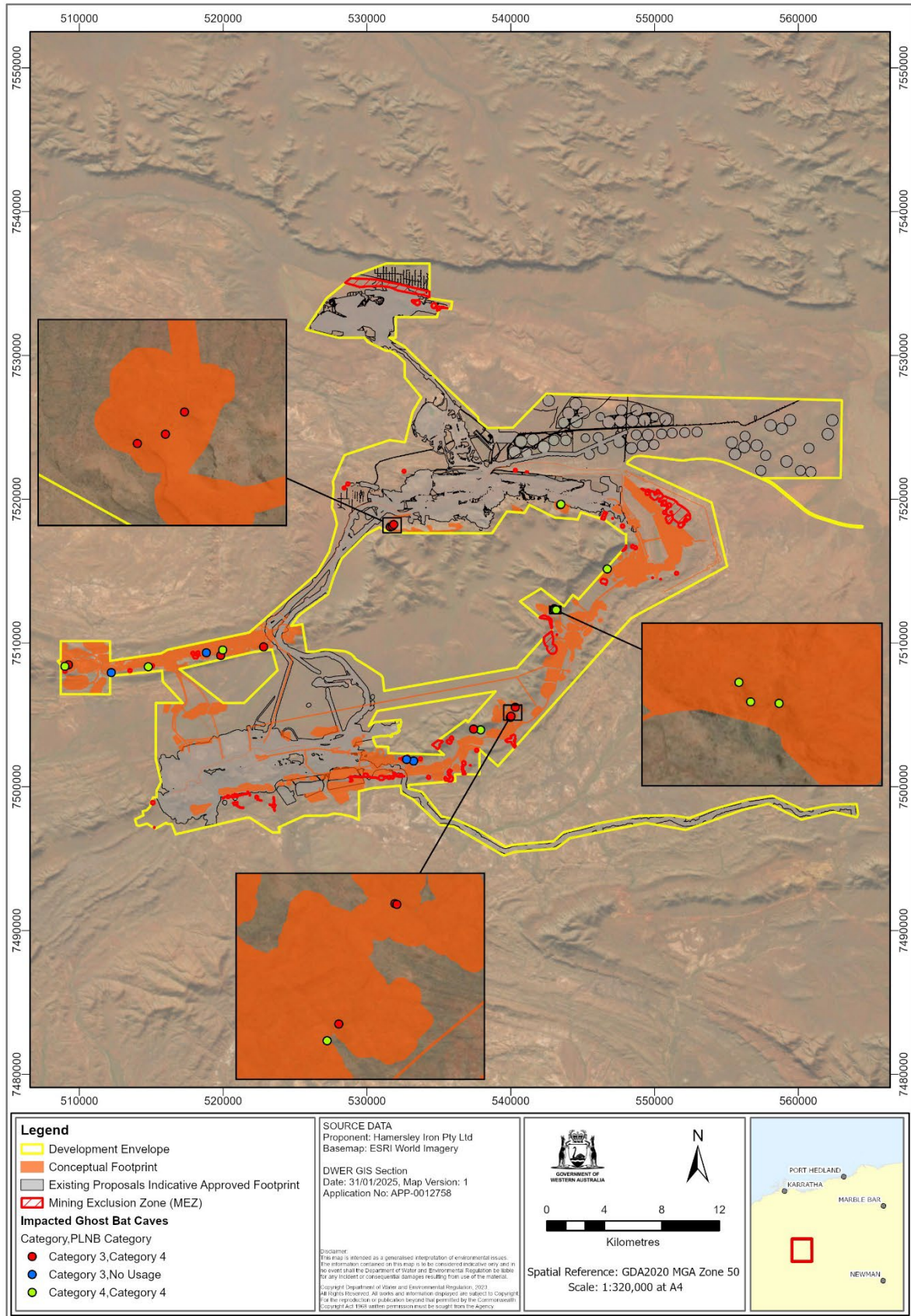


Figure 8: Impacted ghost bat caves within the development envelope

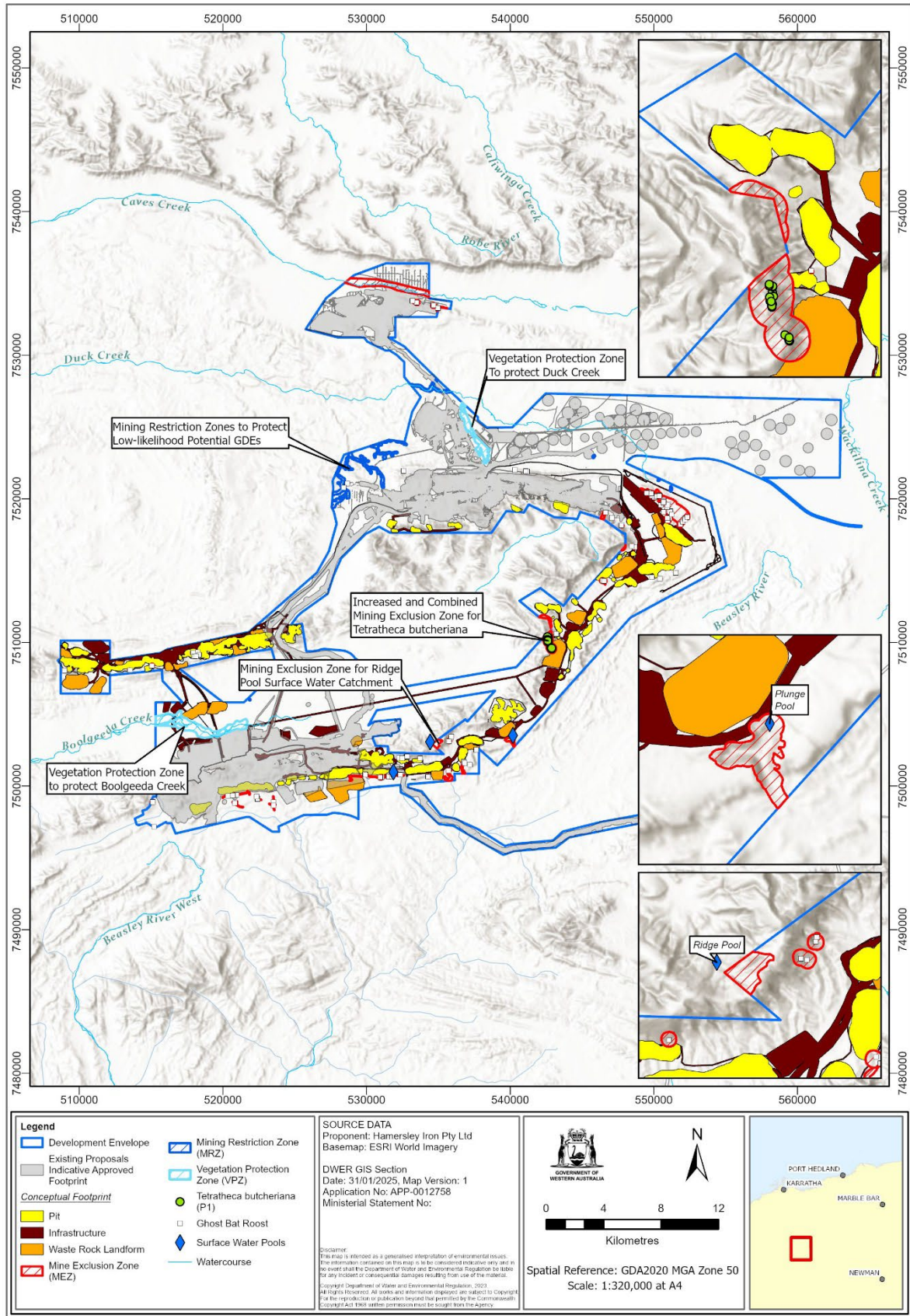


Figure 9: Map of MEZ for pools and GDEs within the proposal

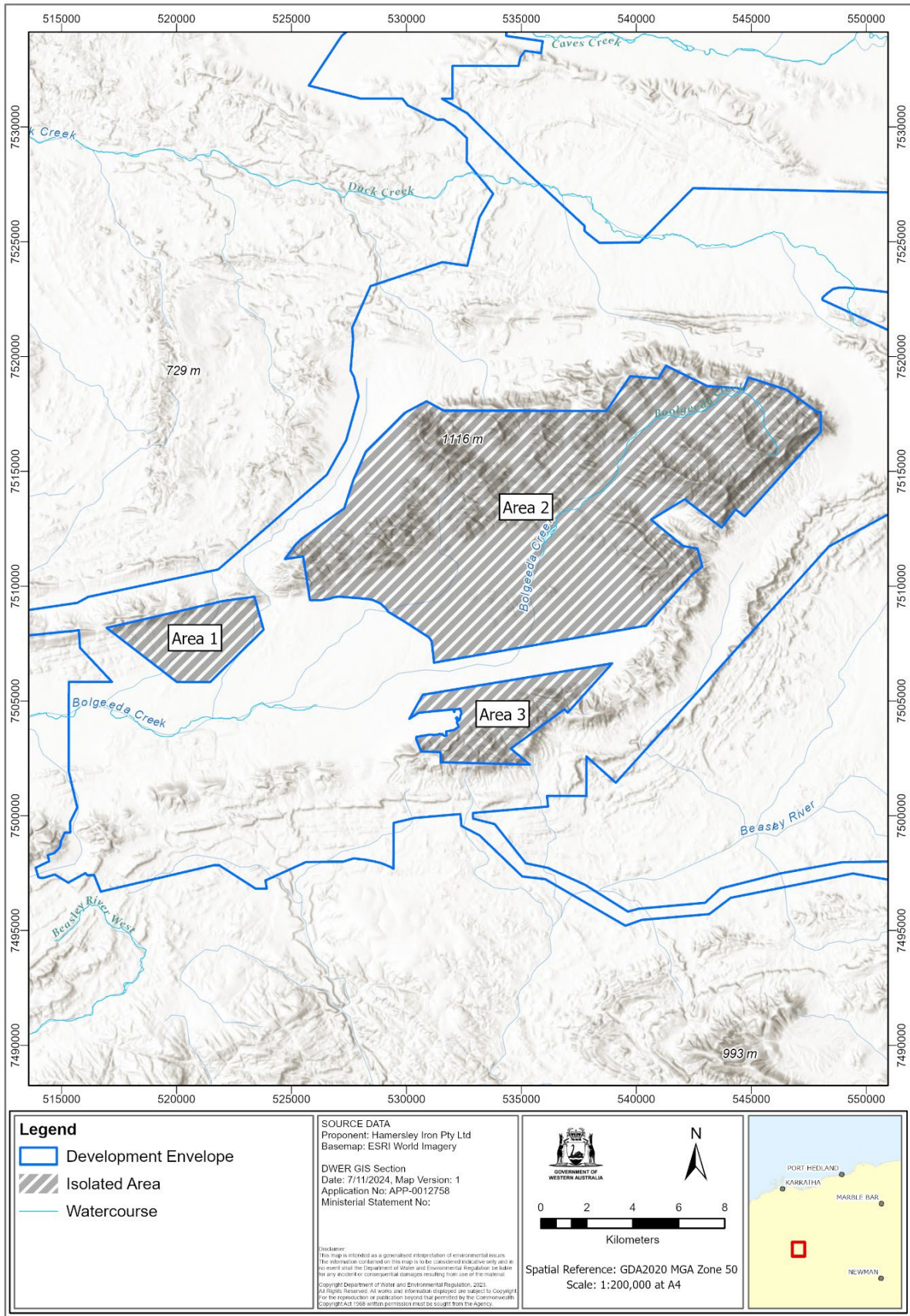


Figure 10: Fauna Corridor Protection Zone (Area1, Area 2 and Area 3)

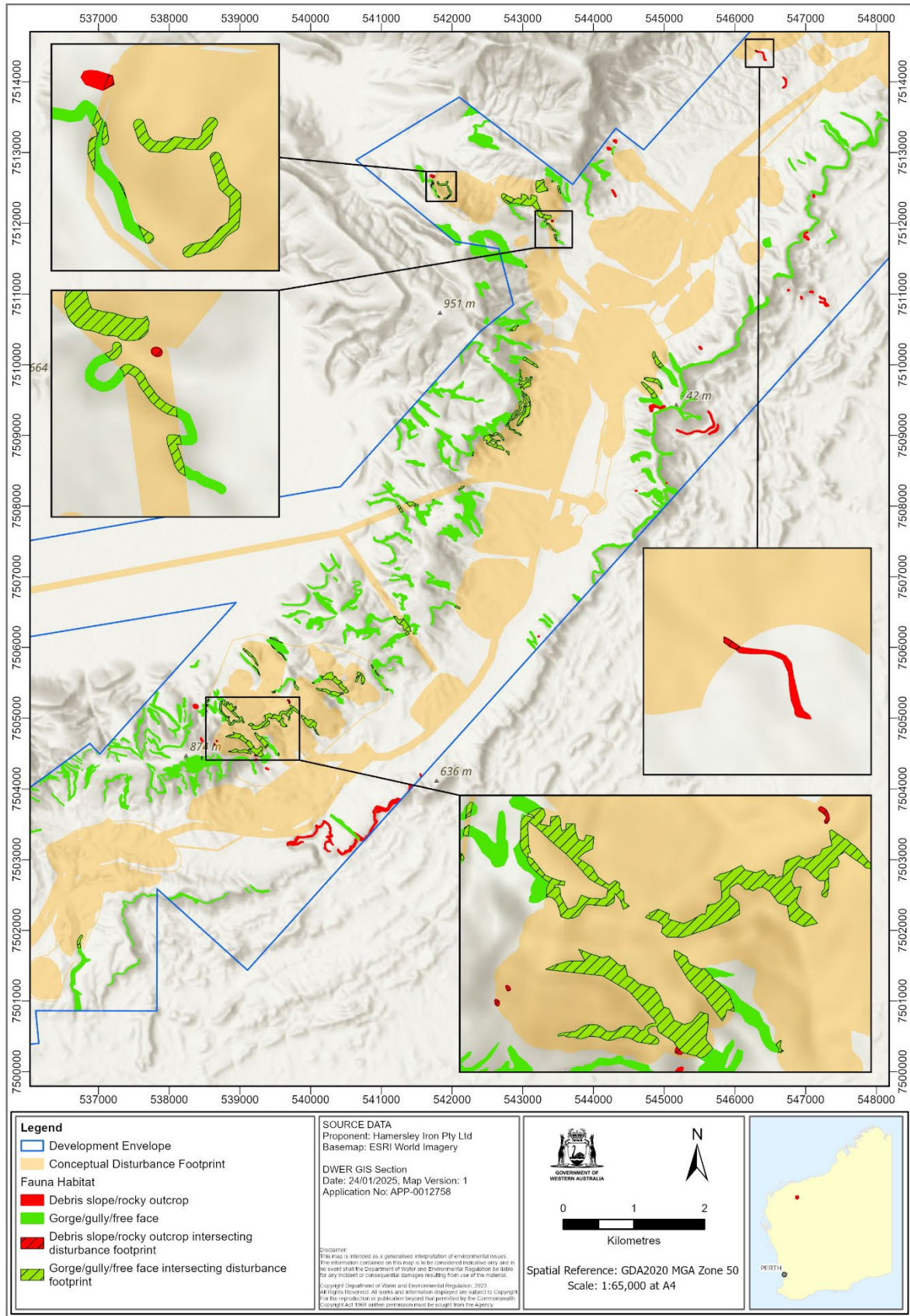


Figure 12: Short Range Endemics MEZ in B3 area

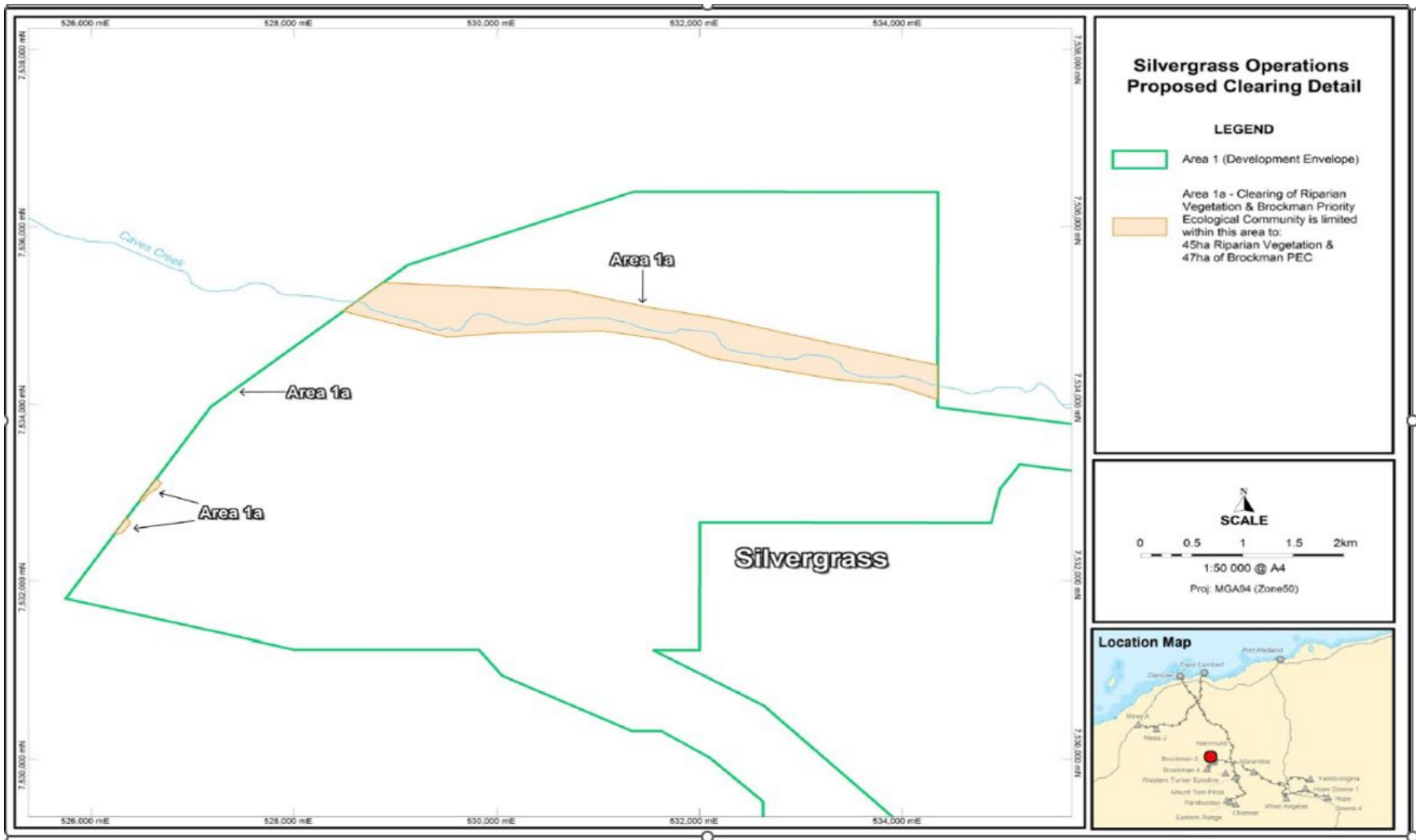
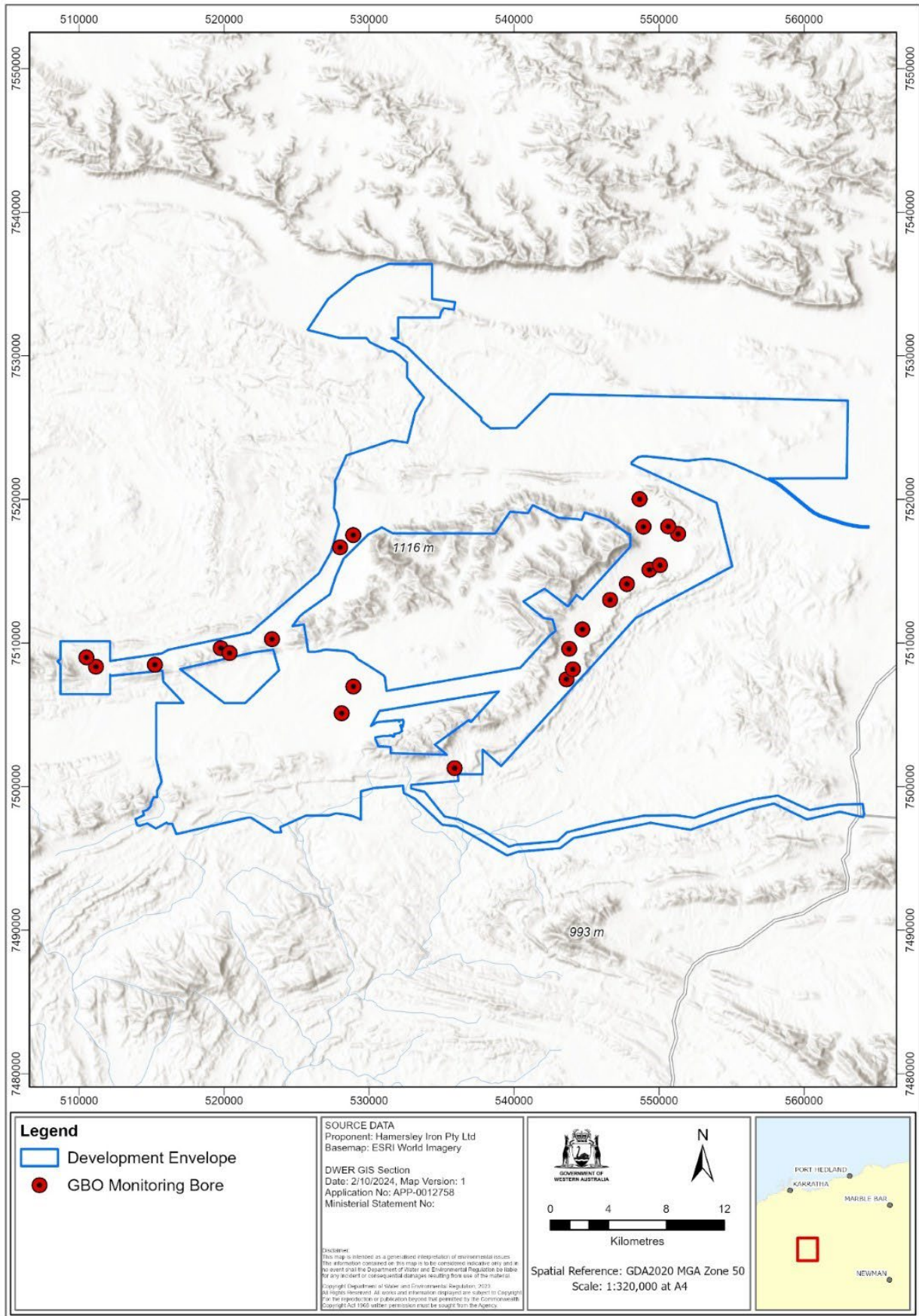


Figure 13: Brockman Iron Cracking Clay Priority Ecological Community clearing limits for Nammuldi-Silvergrass



Path: S:\Projects\FIA\38\2019_DWER\18\1001_BrockmanSynclineProposa\3_Assessment\ArcGIS_PhotoBrockmanSynclineProposal_Report_Figures\BrockmanSynclineProposal_Report_Figures.aprx

Figure 14: Brockman Syncline monitoring bores

Table 2: Groundwater level monitoring bore locations and maximum drawdown levels

| Amended Proposal Area | Monitoring Bore / TP | Easting | Northing | Maximum Drawdown (mRL) |
|-----------------------|----------------------|---------|----------|------------------------|
| Nammuldi | MB18BS20001 | 548924 | 7518096 | 504.391 |
| | BRPB10 | 548657 | 7520020 | 513.864 |
| | MB20NAM0001 | 550633 | 7518115 | 511.58 |
| | MB11NAM001 | 551316 | 7517600 | 494.1 |
| | MB20NAM0004 | 550063 | 7515419 | 499.3 |
| | MB12NAM017 | 549340 | 7515103 | 492.7 |
| | MB19BS3X0010 | 547781 | 7514104 | 490.4 |
| | MB15BFH002 | 528000 | 7516664 | 567.3 |
| | MB11NAM004 | 528903 | 7517517 | 556.3 |
| BS3 EXT | MB19BS3X0001 | 543620 | 7507476 | 544 |
| | MB19BS3X0002 | 544054 | 7508176 | 541.9 |
| | MB19BS3X0003 | 543800 | 7509595 | 528.6 |
| | MB19BS3X0005 | 544710 | 7510952 | 528.9 |
| | MB19BS3X0007 | 546622 | 7513003 | 546.9 |
| BS1 East | MB19BS1E0007 | 523302 | 7510268 | 485.5 |
| | MB20BS1E0004 | 520372 | 7509304 | 485 |
| | MB19BS1E0021 | 519765 | 7509642 | 482 |
| BS1 West | RC17BS1W0116 | 515220 | 7508488 | 460 |
| | MB17BS10004 | 511154 | 7508350 | 421 |
| | MB20BS1W0018 | 510501 | 7509000 | 450 |
| BS4 | MB16BS4M0011 | 535898 | 7501288 | 478.9 |
| Boolgeeda Valley | PZ04BS4B004 | 528107 | 7505109 | 524 |
| | MB15BS4B014 | 528915 | 7506971 | 538 |

Table 3 Bat cave coordinates within the Mining Exclusion Zones 1 and 2

| Cave ID | Easting | Northing |
|---------------------|----------------|-----------------|
| B4jul16-26-27 | 532486.021 | 7501948.484 |
| B4jun16-09 | 534291.026 | 7500656.495 |
| B4jun16-36 | 531541.022 | 7500643.473 |
| B4June16-26 | 532359.031 | 7500798.513 |
| BS4MM-Aug16-03 | 532268.020 | 7501957.468 |
| BS4MM-Aug16-04 | 532710.019 | 7501985.533 |
| BS4MM-Aug16-15 | 533724.019 | 7501932.527 |
| BS4MMJul16-13 | 532801.021 | 7502024.525 |
| BS4MMJul16-14 | 532777.021 | 7502020.481 |
| BS4MMJul16-15 | 532800.019 | 7502036.482 |
| BS4MMJul16-17 | 532829.027 | 7502065.533 |
| BS4MMJul16-30 | 529894.019 | 7500819.459 |
| C8 | 534971.019 | 7533288.465 |
| CBRK-000 | 518248.514 | 7509321.351 |
| CBRK-006 | 515208.241 | 7497169.436 |
| CBRK-045 | 528668.111 | 7521056.925 |
| CBRK-052 | 515112.161 | 7498895.264 |
| CBRK-055 | 551154.422 | 7519137.535 |
| CBRK-057 | 551139.593 | 7519087.882 |
| CBRK-059 | 547743.815 | 7518148.981 |
| CBRK-061 | 551081.809 | 7518704.622 |
| CBRK-063 | 551082.046 | 7518686.135 |
| CBRK-065 | 551091.772 | 7518652.451 |
| CBRK-067 (LGBAT03) | 550962.952 | 7518486.058 |
| CBRK-069 (LGBAT08) | 546427.959 | 7514312.738 |
| CBRK-071 | 546538.489 | 7514275.543 |
| CBRK-073 | 550676.307 | 7519083.320 |
| CBRK-074 (NEBBAT01) | 540322.186 | 7522015.552 |
| CBRK-075 | 550934.008 | 7519417.107 |
| CBRK-076 | 550370.087 | 7520223.935 |
| CBRK-077 | 550668.556 | 7519863.973 |
| CBRK-078 | 533488.196 | 7533668.303 |
| CBRK-079 | 550019.361 | 7520099.767 |
| CBRK-080 | 533200.097 | 7533783.266 |
| CBRK-081 | 550201.937 | 7520189.945 |
| CBRK-082 | 534660.177 | 7533474.017 |
| CBRK-083 | 550171.800 | 7520173.107 |
| CBRK-085 | 549866.443 | 7520221.694 |
| CBRK-087 | 549828.760 | 7520379.668 |
| CBRK-089 | 548666.185 | 7516639.199 |
| CBRK-090 | 541174.430 | 7521902.724 |
| CBRK-091 | 550490.541 | 7519566.120 |
| CBRK-092 | 541081.830 | 7521922.563 |
| CBRK-093 | 551854.052 | 7518220.077 |

| Cave ID | Easting | Northing |
|----------------|----------------|-----------------|
| CBRK-095 | 551996.184 | 7518401.584 |
| CBRK-097 | 552142.873 | 7518623.921 |
| CBRK-099 | 552167.857 | 7518541.368 |
| CBRK-100 | 548471.996 | 7516704.013 |
| CBRK-101 | 550941.172 | 7518662.025 |
| CBRK-105 | 551241.464 | 7518924.046 |
| CBRK-106 | 534283.602 | 7500654.962 |
| CBRK-109 | 529932.277 | 7500788.722 |
| CBRK-110 | 532356.753 | 7500790.658 |
| CBRK-111 | 532485.992 | 7501939.960 |
| CBRK-113 | 546646.547 | 7519057.822 |
| CBRK-116 | 518139.179 | 7509036.777 |
| CBRK-119 | 517911.982 | 7509284.111 |
| CBRK-120 | 543214.655 | 7510587.096 |
| CBRK-121 | 536770.169 | 7501684.317 |
| CBRK-122 | 536832.473 | 7501587.198 |
| CBRK-123 | 537192.985 | 7501490.022 |
| CBRK-125 | 535880.047 | 7503377.308 |
| CBRK-126 | 535898.031 | 7503449.772 |
| CBRK-136 | 518046.082 | 7509020.282 |
| CBRK-137 | 518018.982 | 7509035.479 |
| CBRK-139 | 513532.203 | 7508068.856 |
| CBRK-140 | 520830.194 | 7498823.021 |
| CBRK-141 | 551531.829 | 7514844.693 |
| CBRK-142 | 550427.935 | 7514440.094 |
| CBRK-143 | 518340.179 | 7509135.498 |
| CBRK-147 | 523522.259 | 7498892.956 |
| CBRK-148 | 549637.782 | 7520451.127 |
| CBRK-149 | 547088.790 | 7518682.884 |
| CBRK-150 | 549497.405 | 7520406.635 |
| CBRK-152 | 522410.396 | 7499102.952 |
| CBRK-153 | 535665.659 | 7503131.177 |
| CBRK-154 | 535753.391 | 7503110.494 |
| CBRK-173 | 531054.551 | 7500621.110 |
| CBRK-174 | 530958.528 | 7500613.777 |
| CBRK-199 | 549863.763 | 7514543.326 |
| GBS_CA_03 | 518141.405 | 7509040.759 |
| GBS_CA_05 | 515118.273 | 7498882.307 |
| GBS_CA_08 | 550694.032 | 7519705.484 |
| GBS_CA_09 | 550684.031 | 7519794.073 |
| GBS_CA_10 | 550653.085 | 7519772.036 |
| GBS_CA_11 | 551023.054 | 7519615.844 |
| GBS_CA_12 | 550950.798 | 7519549.665 |
| GBS_CA_14 | 550683.958 | 7519771.934 |
| GBS_CA_15 | 552327.017 | 7518725.914 |

| Cave ID | Easting | Northing |
|---------------------------|----------------|-----------------|
| GBS_CA_16 | 549821.430 | 7520372.496 |
| GBS_CA_17 | 550397.250 | 7520215.655 |
| GBS_CA_18 | 550386.923 | 7520204.619 |
| GBS_CA_21 | 515055.640 | 7508368.858 |
| GBS_CA_22 | 508988.348 | 7508041.522 |
| MAMBAT81-01 (MAMCAM10-01) | 535722.026 | 7501071.546 |
| MAMBAT93-01 | 537636.023 | 7502528.489 |
| MMBAT01 | 520347.023 | 7499307.519 |
| MMBAT02 (MME2) | 522342.018 | 7499268.541 |
| MMBAT03 (MMHarp01, MME3) | 523520.019 | 7498645.445 |
| MMBAT04 (MME4) | 531776.021 | 7500662.470 |
| MME05 (MMBAT05, MME5) | 520950.027 | 7499382.532 |
| MME06 (MMBAT06) | 520690.017 | 7499340.489 |
| NWTBAT01 | 528409.025 | 7520782.442 |
| NWTBAT02 | 532576.021 | 7521942.481 |

Schedule 1

All co-ordinates are in metres, listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geocentric Datum of Australia 2020 (GDA2020).

Spatial data depicting the figures are held by the Department of Water and Environmental Regulation.

Record no. APP-0012758.