

# Winu Copper and Gold Project

## Proposal Content Document

**Table 1: General proposal content description**

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| <b>Proposal title</b>    | Winu Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Proponent name</b>    | Winu Services Pty Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Short description</b> | <p>The Winu Project (the Proposal) is a copper-gold mine located approximately 300 km south of Broome and 320 km east of Port Hedland in the northern Pilbara region of Western Australia within both the Nyangumarta People's and the Martu People's Native Title Determination Areas (Figure 1-1).</p> <p>The Proposal includes, but is not limited to, the following:</p> <ul style="list-style-type: none"><li>• An open pit that extends below the watertable</li><li>• Mineral waste management (Waste rock landforms [WRL] and Tailings Storage Facility [TSF])</li><li>• Material stockpiles (ore and topsoil)</li><li>• Groundwater abstraction for water supply and pit dewatering</li><li>• Ore processing facilities (crushing, reclaiming, grinding, flotation, concentrate dewatering and handling, gold extraction, tailings thickening etc)</li><li>• Water supply (mine dewatering, regional borefield, on-site dams)</li><li>• Water management infrastructure (bores, pumps, pipelines, diversion channels, ponds/dams)</li><li>• Surplus water management (controlled discharge of excess water to designated infiltration areas and managed aquifer recharge bores)</li><li>• Support facilities (accommodation camp, power supply [including diesel-fired generation, wind turbines, solar panels, and battery storage], aerodrome facilities including an airstrip, warehouse-workshops, explosives storage, laydown areas, hydrocarbon storage, offices, waste-water treatment plant(s), drill core processing and storage facilities, information and communications technology, laboratories, site roads, waste management, and site fire, emergency, medical facilities)</li><li>• Linear infrastructure (heavy vehicle and light vehicle access roads, upgrades to existing access roads, pipelines, powerlines, fibre-optic cable, communications distribution networks)</li></ul> <p>Concentrate will be transported by truck via the access road and Great Northern Highway to port by a third party for export. Doré (unrefined gold bar) is expected to be transported via the regular air charter.</p> <p>The Proposal is located within a 23,649 ha Development Envelope and will require the clearing of up to 4,878 ha of new native vegetation.</p> |

**Table 2: Proposal content elements**

| Proposal Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Location/Description                                                                           | Maximum Extent, Capacity or Range                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Physical elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |                                                                                                                          |
| Mine elements, including: <ul style="list-style-type: none"> <li>▪ A below watertable open pit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mining Lease 45/1288<br>Figure 2-1<br>Figure 3-1                                               | Clearing up to 4,878 ha of new native vegetation for the Conceptual Footprint within the 23,649 ha Development Envelope. |
| Mineral waste elements, including: <ul style="list-style-type: none"> <li>▪ Waste rock landform (WRL)</li> <li>▪ Topsoil stockpiles</li> <li>▪ Tailings Storage Facility (TSF)</li> </ul>                                                                                                                                                                                                                                                                                                                                                            | Mining Lease 45/1288<br>Figure 2-1<br>Figure 3-1                                               |                                                                                                                          |
| Processing elements, including: <ul style="list-style-type: none"> <li>▪ Run of Mine (ROM) pad</li> <li>▪ Crushing, stockpiling, and reclaiming</li> <li>▪ Grinding with oversized recycle pebble crushing</li> <li>▪ Flotation, concentrate dewatering and handling</li> <li>▪ Carbon-in-leach (CIL), carbon acid washing and gold elution/desorption</li> <li>▪ Carbon reactivation, electrowinning, doré production and cyanide detoxification</li> <li>▪ Tailings thickening</li> <li>▪ Reagent receipt, storage and delivery systems</li> </ul> | Mining Lease 45/1288<br>Figure 2-1<br>Figure 3-1                                               |                                                                                                                          |
| Water management elements, including: <ul style="list-style-type: none"> <li>▪ Dewatering of pit</li> <li>▪ Borefield and associated infrastructure</li> <li>▪ Process water dams/ponds</li> <li>▪ Water storage dams</li> <li>▪ Water diversion channels and catchment ponds</li> <li>▪ Infiltration areas</li> </ul>                                                                                                                                                                                                                               | Mining Lease 45/1288<br>Miscellaneous licence 45/755<br>Figure 2-1<br>Figure 3-1               |                                                                                                                          |
| Infrastructure elements, including: <ul style="list-style-type: none"> <li>▪ Accommodation Camps</li> <li>▪ Energy supply infrastructure</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  | Mining Lease 45/1288<br>Miscellaneous licences 45/476, 45/491, 45/494, 45/548, 45/549, 45/550, |                                                                                                                          |

| Proposal Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Location/Description                                                                                                          | Maximum Extent, Capacity or Range                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ Mine workshops and maintenance infrastructure</li> <li>▪ Bores, pipelines, turkeys nests and supporting facilities</li> <li>▪ Haul, heavy and light vehicle roads</li> <li>▪ Ancillary buildings</li> <li>▪ Waste water treatment plants and reverse osmosis plants</li> <li>▪ Hydrocarbon storage</li> <li>▪ Explosives storage and preparation facilities and hydrocarbon storage</li> <li>▪ Laydown areas</li> <li>▪ Drill core processing and storage facilities</li> <li>▪ Information and communications technology</li> <li>▪ Aerodrome facilities including airstrip</li> <li>▪ Site fire emergency and medical facilities</li> <li>▪ Waste Management and landfill facilities</li> </ul> | 45/551, 45/552, 45/559, 45/623, 45/722, 45/723, 45/725, 45/755 & 45/857<br><br>Figure 2-1<br><br>Figure 3-1                   |                                                                                                                                                                                                                      |
| <b>Operational elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |                                                                                                                                                                                                                      |
| Groundwater abstraction for mine dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mining Lease 45/1288<br><br>Figure 2-1<br><br>Figure 3-1                                                                      | Lowering the groundwater table to no greater than a standing water level of -250m RL.                                                                                                                                |
| Groundwater abstraction from the Rimfire regional borefield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Miscellaneous licence 45/755<br><br>Figure 2-1<br><br>Figure 3-1                                                              | Abstraction of no more than 2.8 gigalitres per annum (GL/a).                                                                                                                                                         |
| Groundwater abstraction for RAC road construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Miscellaneous licences 45/491, 45/548, 45/549, 45/550, 45/551, 45/552, 45/623, and 45/857<br><br>Figure 2-1<br><br>Figure 3-1 | Temporary water abstraction required for new road construction (approximately 0.7 GL for 12-months) and dust suppression on an existing road until the new road is constructed (0.3 GL for approximately 18-months). |
| Waste Rock Landform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mining Lease 45/1288<br><br>Figure 2-1                                                                                        | Up to 490 Mt of waste rock will be mined throughout the life of the Proposal.                                                                                                                                        |

| Proposal Element                                                                                                                                                                                                                                                                                                                                   | Location/Description                                                                                  | Maximum Extent, Capacity or Range                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                    | Figure 3-1                                                                                            |                                                                                                                                                                                                                  |
| Management of surplus water                                                                                                                                                                                                                                                                                                                        | Mining Lease 45/1288<br>Figure 2-1<br>Figure 3-1                                                      | Surplus water, exceeding the operational requirement (no more than 4 GL/a), is discharged to infiltration areas (up to 4 GL/a) or managed aquifer recharge bores (up to 4 GL/a) within the Development Envelope. |
| Proposal elements with greenhouse gas emissions                                                                                                                                                                                                                                                                                                    |                                                                                                       |                                                                                                                                                                                                                  |
| Peak annual                                                                                                                                                                                                                                                                                                                                        |                                                                                                       |                                                                                                                                                                                                                  |
| Scope 1                                                                                                                                                                                                                                                                                                                                            | Plant and equipment, land clearing, haulage, and electricity generation: 109,166 t CO <sub>2</sub> -e |                                                                                                                                                                                                                  |
| Scope 2                                                                                                                                                                                                                                                                                                                                            | Electricity generation: 0 t CO <sub>2</sub> -e                                                        |                                                                                                                                                                                                                  |
| Annual average life of mine                                                                                                                                                                                                                                                                                                                        |                                                                                                       |                                                                                                                                                                                                                  |
| Scope 1                                                                                                                                                                                                                                                                                                                                            | Plant and equipment, land clearing, haulage, and electricity generation: 89,901 t CO <sub>2</sub> -e  |                                                                                                                                                                                                                  |
| Scope 2                                                                                                                                                                                                                                                                                                                                            | Electricity generation: 0 t CO <sub>2</sub> -e                                                        |                                                                                                                                                                                                                  |
| Scope 3                                                                                                                                                                                                                                                                                                                                            | Estimated 162,662 t CO <sub>2</sub> -e                                                                |                                                                                                                                                                                                                  |
| Rehabilitation and Closure                                                                                                                                                                                                                                                                                                                         |                                                                                                       |                                                                                                                                                                                                                  |
| <p>Where practicable, progressive rehabilitation will be undertaken over the life of the mine.</p> <p>Areas disturbed through the implementation of the Proposal will be designed to be safe and non-polluting and will be constructed so the final shape, size and stability meet the closure objectives documented in the Mine Closure Plan.</p> |                                                                                                       |                                                                                                                                                                                                                  |
| Commissioning                                                                                                                                                                                                                                                                                                                                      |                                                                                                       |                                                                                                                                                                                                                  |
| Commissioning of the processing facility will be undertaken subject to the operational limits above.                                                                                                                                                                                                                                               |                                                                                                       |                                                                                                                                                                                                                  |
| Other elements which affect extent of effects on the environment                                                                                                                                                                                                                                                                                   |                                                                                                       |                                                                                                                                                                                                                  |
| Proposal timeframe                                                                                                                                                                                                                                                                                                                                 | Maximum project life                                                                                  | Approx. 32 years                                                                                                                                                                                                 |

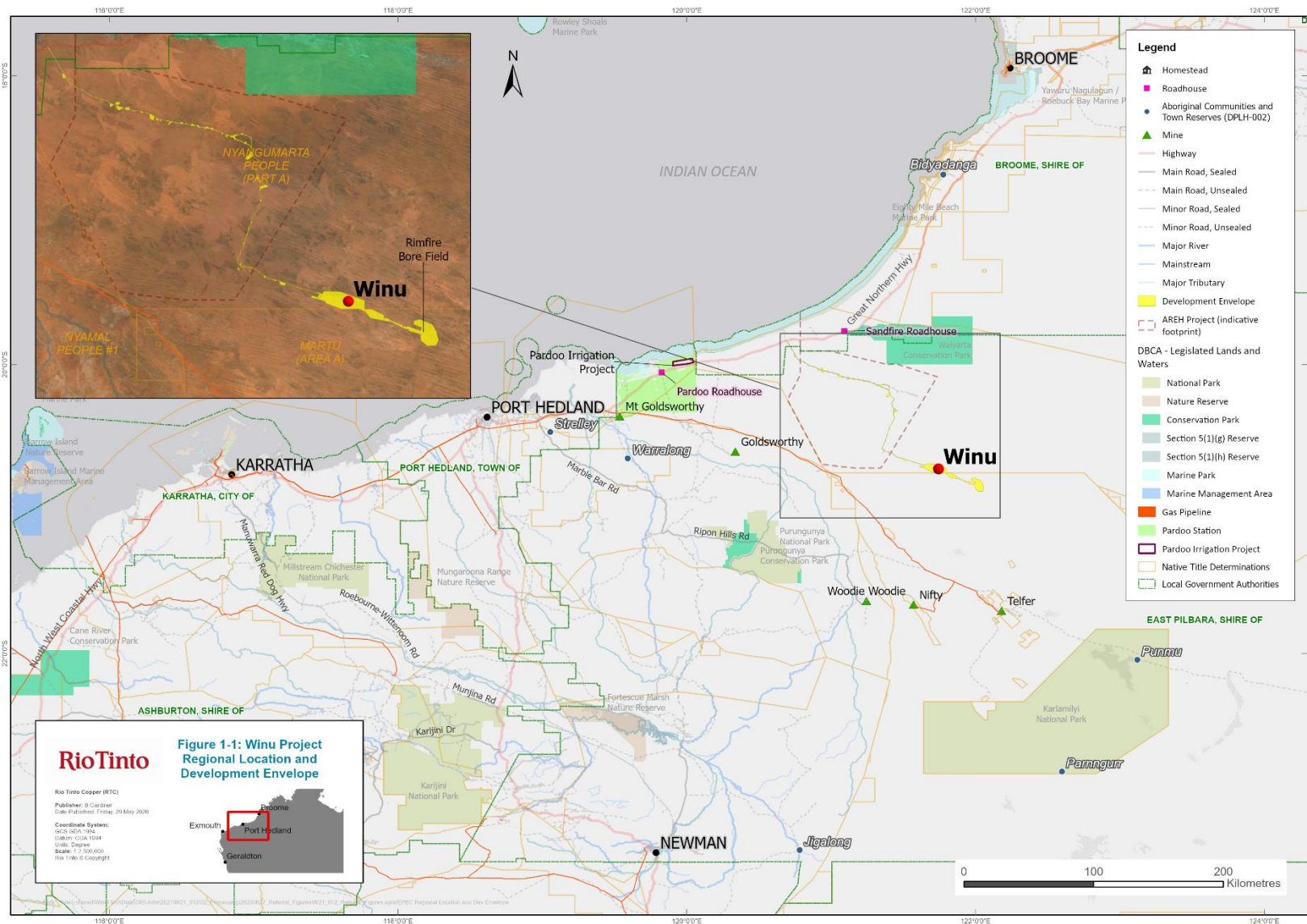
*\*National and international reporting standards define the following set of distinct scopes of GHG emissions, demarcating sources of emissions and associated responsibilities:*

- *Scope 1: emissions generated as a direct result of an activity e.g. diesel combustion by vehicles or gas*
- *Scope 2: emissions generated from the consumption of an energy commodity*
- *Scope 3: indirect emissions, other than Scope 2 emissions, that are generated in the wider community.*

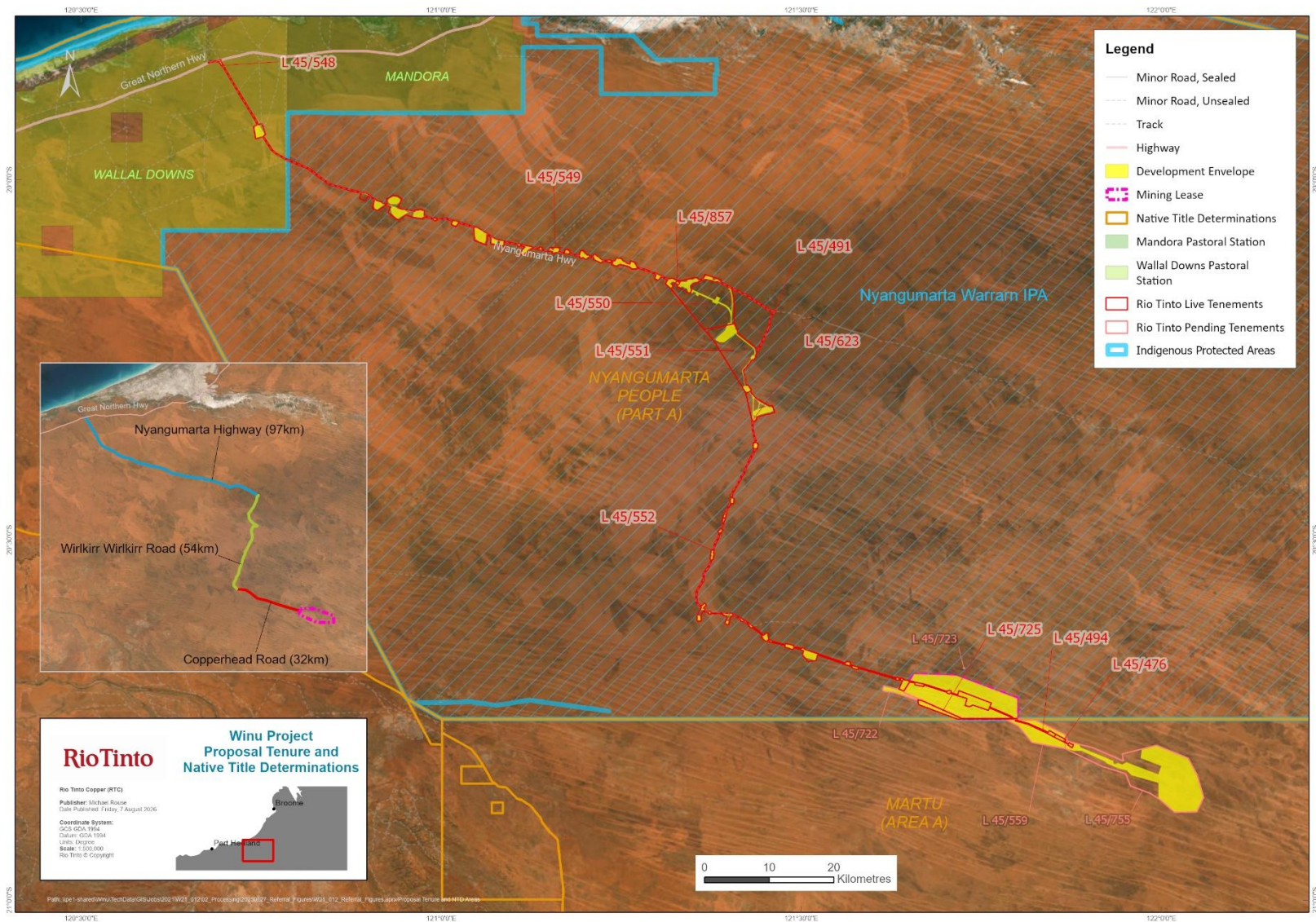
*Notwithstanding the above, the EPA has identified through the ESD that it considers for the purpose of the assessment of this Proposal that GHG emissions from:*

- *Electricity generation produced for the Proposal as Scope 1 (not Scope 2) - given this, no Scope 2 emissions will occur as a result of the Proposal*

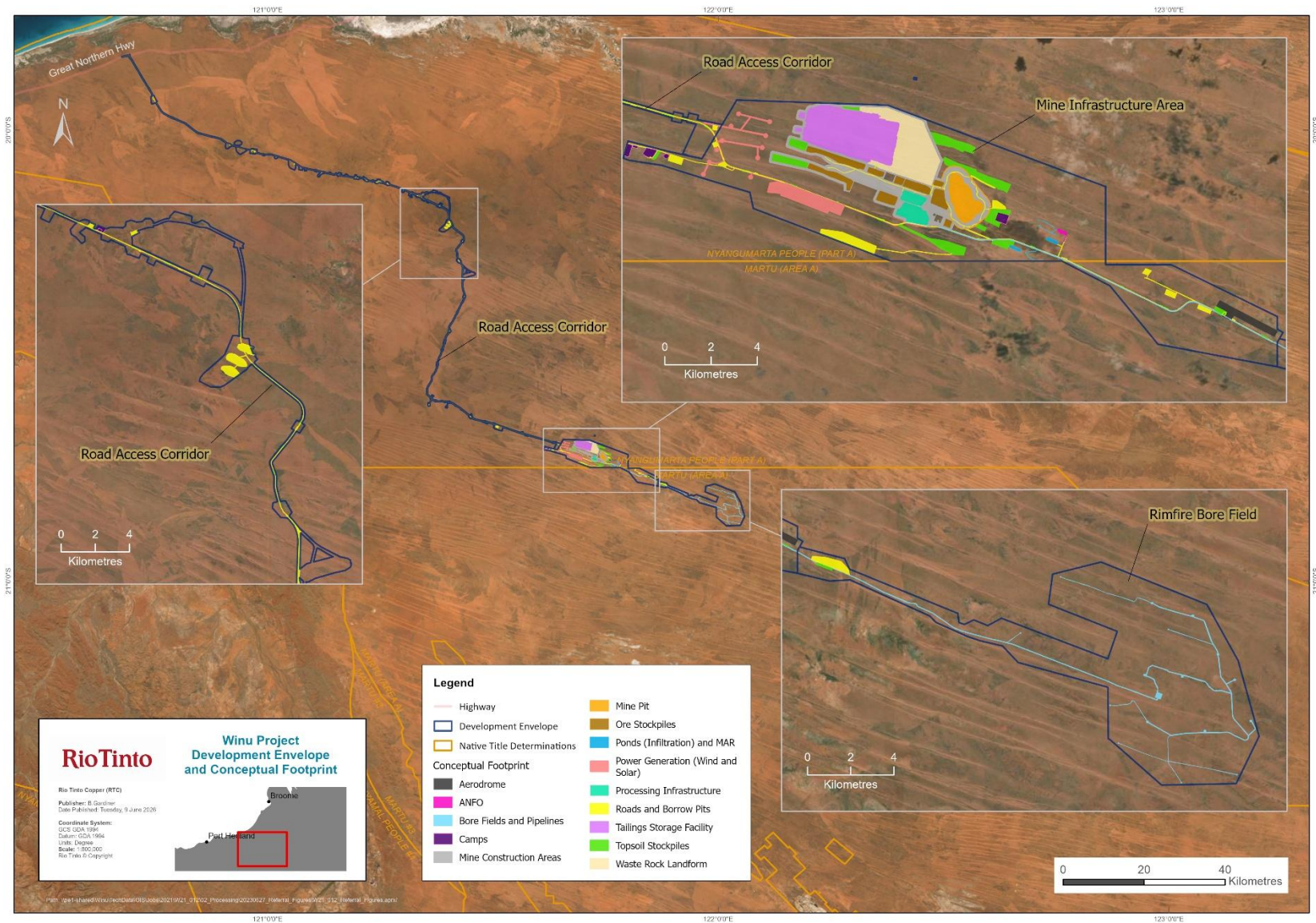
- *Haulage of concentrate (from mine to port), regardless of third-party contractual arrangements as Scope 1 (not Scope 3).*



**Figure 1-1: Regional Location of the Proposal**



**Figure 2-1: Proposal Tenure and Native Title Determination**



**Figure 3-1: Proposal Development Envelope and Conceptual Footprint**