

PRCP schedule

Environmental Protection Act 1994

PRCP Schedule P-PRCP-100761331_v1 Eva Copper Mine

This PRCP schedule is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

PRCP schedule: P-PRCP-100761331_v1

PRCP schedule holder(s)

Name(s)	Registered address
Eva Copper Mine Pty Ltd ACN: 625712138	Level 3, 12 Cribb Street MILTON, QLD 4064

Location details

Location(s)
Mining Lease (ML) 90162, ML90163, ML90164, ML90165 and ML90166

Take effect

In accordance with section 202B of the *Environmental Protection Act 1994* (EP Act), the PRCP schedule has effect on the day the environmental authority for carrying out relevant activities on land to which the schedule relates takes effect. Pursuant to section 202C of the EP Act, a PRCP schedule continues in force until the environmental authority for the relevant activities to which the PRCP schedule relates is cancelled or surrendered, even if the resource tenure expires or is cancelled and even if the relevant environmental authority is suspended under Chapter 5, part 11 or 11A of the EP Act.



Signature

31 August 2026

Date

Giles Bezzina

Department of the Environment, Tourism, Science and Innovation

Delegate of the administering authority

Environmental Protection Act 1994

Enquiries:

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Obligations under the *Environmental Protection Act 1994*

Pursuant to section 202E of the EP Act, if there is an inconsistency between an environmental authority and a PRCP schedule, the environmental authority prevails to the extent of the inconsistency.

Pursuant to section 285 of the EP Act:

- the holder of a PRCP schedule must commission an audit of the schedule if the administering authority directs the holder, by written notice (a *PRCP schedule audit notice*), to commission an audit of the schedule.
- the holder must, within 4 months after the PRCP schedule audit notice is given, provide the administering authority –
 - a) the rehabilitation auditor's report (an audit report) about the audit that complies with section 286 of the EP Act, and
 - b) a declaration for the audit report that complies with section 285 of the EP Act.

In addition to the requirements found in the conditions of this PRCP schedule, the holder must also meet their obligations under the environmental authority, the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the EP Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443).

PRCP schedule

The PRCP schedule incorporates the following sections:

- Section A - Conditions of PRCP schedule
- Section B - Definitions
- Section C - Final site design and reference maps
- Section D - Post mining land uses
- Section E – Rehabilitation Milestones
- Section F - Non-use management areas
- Section G – Improvements Milestones

Section A - Conditions of PRCP schedule

Pursuant to section 206A of the EP Act:

- it is a condition of this PRCP schedule that, in carrying out a relevant activity under the schedule, the holder must comply with a requirement stated in the environmental authority relevant to carrying out the activity.
- it is a condition of this PRCP schedule that the holder must comply with the following matters stated in the schedule -
 - a) each rehabilitation milestone and management milestone
 - b) when each rehabilitation milestone and management milestone is to be achieved

General conditions

- PRCP1** The holder must for each rehabilitation and improvement area, achieve the corresponding rehabilitation or management milestone criterion (milestone reference):
- a) for the cumulative area available specified in this schedule unless a lesser area is disturbed by operations; and
 - b) by the milestone completion date specified in this schedule.

- PRCP2** Where land becomes 'available for rehabilitation' earlier than the date nominated in this schedule, the holder must:
- a) notify the administering authority in writing within 30 days of the land becoming 'available for rehabilitation'; and
 - b) describe in the notification why or why not the holder considers that it would be reasonable and appropriate to amend this schedule; and
 - c) unless otherwise agreed to by the administering authority in writing, amend this schedule in a way that maximises the progressive rehabilitation to a stable condition in the timeframe specified by the administering authority.

Notes:

1. Reference to "earlier than the nominated date in the schedule" means a date that is greater than 1 year prior to the date nominated in the schedule.
2. The written notification must include precise details of the relevant land area and the date when that land became 'available for rehabilitation'.
3. Assessment of land becoming available is undertaken on a nominally annual basis.
4. Rehabilitation of land size must be practicable.

- PRCP3** Where an area achieves a rehabilitation or management milestone, the holder must continue to achieve the milestone for that rehabilitation milestone until:
- a) A progressive certification area has satisfied the provisions of section 318ZB (4) of the EP Act; and
 - b) A surrender is approved.

- PRCP4** The holder must maintain a risk register that identifies:
- a) the risks that may prevent achievement of a stable condition for post-mining land uses (PMLU); and
 - b) the risks that may prevent sufficient improvement for non use management areas (NUMA); and
 - c) how these risks are being managed and/or minimised

- PRCP5** The risk register (PRCP4) must be reviewed every three years from the date the original PRCP schedule was approved and include consideration of the outcomes of PRCP monitoring data.

- PRCP6** The holder must carry out monitoring in accordance with:
- a) any requirement under this schedule; and
 - b) as necessary to demonstrate achievement of each rehabilitation milestone or management milestone criteria.
- PRCP7** The holder must maintain up to date records on:
- a) Achievement and maintenance of each rehabilitation or management milestone criteria of this schedule.
 - b) Rehabilitation activities and the results of those activities (including but not limited to, actions taken, date, location, methods, data collected, QA/QC, photos, waste tracking and disposal records, appropriately qualified person details and assumptions);
 - c) Maintenance of rehabilitation and the results of maintenance activities;
 - d) Monitoring of rehabilitation and the results of monitoring;
 - e) Details and results of any rehabilitation trials;
 - f) Designs, drawings, specifications and any similar documents developed in accordance with relevant standards in relation to rehabilitation milestones or milestone criteria;
 - g) All documents in relation to the requirements of this schedule, including reports (e.g. site investigation report), statements (e.g. site suitability statement), certifications, assessments, investigations, inspections, audits or any similar documents developed in relation to rehabilitation milestones or milestone criteria;
 - h) Landholder agreements;
 - i) Details of community consultation in the community consultation register relating to rehabilitation and closure activities.
 - j) Any other evidence and/or records on which the holder relies on to demonstrate achievement of each rehabilitation milestone criteria in this schedule, for the duration of the environmental authority
- PRCP8** Evidence and/or records made under PRCP7 must be provided to the administering authority in the specified format within 20 business days of a written request.
- PRCP9** Disturbance due to exploration and minor ancillary activities in areas not planned to be mined and not within a Rehabilitation Area in this Schedule must be rehabilitated in accordance with the provisions detailed in the *'Eligibility criteria and standard conditions for exploration and mineral development projects'* or its successor, with the exception that land must be rehabilitated to a state similar to that of surrounding undisturbed areas.
- PRCP10** All AQP designs, specifications, certifications, assessments and any similar documents, must:
- a) include documented consideration of any relevant guideline or publication material, including material published by the administering authority; and
 - b) detail the boundary conditions (of any model); and
 - c) detail any assumptions made, limitations and areas of uncertainty; and
 - d) contain sufficient detail to allow for independent peer review and substantiation.
- PRCP11** From the date of approval of the PRCP, and within a year of any surrender application, an up-to-date closure groundwater model must be maintained with predictions rerun at least every five years, or a frequency agreed by the administering authority. The model rerun should include data collected within that period to refine assumptions, predictions and calibrate model performance.

- PRCP12** Residual voids must not cause any serious environmental harm to land, surface waters or any recognised groundwater aquifer, other than the environmental harm constituted by the existence of the residual void itself and subject to any other condition within this PRCP schedule.
- PRCP13** The monitoring bores listed in Appendix 6 – Groundwater Monitoring Locations must be installed to allow for monitoring to begin at least 24 months prior to the commencement of mining activities in each mining area and continue thereafter as required for PRCP monitoring purposes.
- PRCP14** By 30 June 2028, or the point at which at least 24 months of data is obtained, whichever is the latter, the holder of this PRCP Schedule must submit to the administering authority an amendment application under the *Environmental Protection Act 1994* proposing site-specific limits to replace all limits identified as "interim" in Appendix 4 – Surface Water Quality Limits.
- NOTE 1: The amendment application must be submitted before the commencement of mining activities in the mining area associated with the relevant monitoring point.
- NOTE 2: The amendment application must include:
- a) the raw monitoring data used in the assessment (minimum 24 consecutive months);
 - b) the methodology used to derive the proposed site-specific limits; and
 - c) the calculated site-specific limit values for each relevant monitoring point.
- PRCP15** Within 12 months after the PRCP Schedule is approved, the holder must provide to the administering authority an AQP prepared landform closure design report for the Little Eva WRD and the Tailings Storage facility.
- PRCP16** At least 12 months prior to the commencement of construction for all other relevant structures, the holder must provide to the administering authority an AQP prepared landform closure design report for the entire final landform.
- PRCP17** The landform closure design report required in PRCP15 and PRCP16 must at a minimum for the relevant structures include:
- a) Detailed engineering designs; and
 - b) Design aims and objectives of the final landform, including the cover system (if relevant), and batters; and
 - c) The intended design life of the component parts of each relevant structure, including the cover, plateau, batters, access points, water management, and associated monitoring network; and
 - d) Quality assurance and quality control required during construction; and
 - e) How the cover system (if relevant) achieves a performance outcome equivalent to or better than the design provided in the PRC Plan dated 23 June 2026; and
 - f) How the cover system (if relevant) performance will be assessed and demonstrated; and
 - g) How the landform achieves acceptable geotechnical and erosional stability; and
 - h) How the landform achieves an acceptable water quality outcome; and
 - i) How redundancy of the monitoring network has been identified and built into the final design; and
 - j) How the design, including the component parts, supports the achievement of the nominated PMLU; and
 - k) How the design has been developed to account for the repair of any potential failure modes in the landform; and
 - l) The critical design elements and associated assessment that support the achievement of a stable condition; and

- m) Where any assumed or inferred material properties have been used in the design or its assessment (inclusive of modelling):
- I. Provide a detailed discussion justifying why actual/measured properties were not used; and
 - II. How uncertainties regarding material properties may affect performance; and
 - III. How those uncertainties are managed.

PRCP18 The documents required under PRCP15 and PRCP16 (detailed in PRCP17) must be independently peer reviewed.

- a) Independent peer reviewer must provide a verification that the AQP landform closure design report is:
- i. fit for purpose; and
 - ii. prepared in accordance with relevant Australian standards; and
 - iii. if constructed as per the landform closure design report the rehabilitated landform will achieve a stable condition in a post-closure context.

PRCP19 A flood protection landform design plan and report for any flood protection features must be developed and certified by an RPEQ and provided to the administering authority within two years of the approval of this PRCP Schedule. The design plan and report must demonstrate

- a) that the landform is stable and provides protection against a minimum of 0.1% AEP event
- b) performance of the flood protection features in relation to PMF and any inundation predicted.

PRCP20 By 10 December 2044, the holder must complete a flood risk assessment for the final landform features. The flood risk assessment must:

- a) Be prepared by an independent AQP;
- b) Assess flooding for at a minimum 0.1% AEP and PMF events;
- c) Incorporate climate change in flood estimation in accordance with the Australian Rainfall and Runoff (ARR) Guideline 2019;
- d) Use final landform topography and all permanent features;
- e) Avoid artificial hydraulic constraints that misrepresent realistic flood ingress or connectivity pathways;
- f) Assess requirement for risk-proportionate new or re-design of flood measures;
- g) New detailed design or re-design of risk proportionate flood measures must be prepared and certified by a RPEQ and submitted to administration authority.

END OF CONDITIONS

Section B – Definitions

Activity (EP Regulation)	includes that part, if any, of an activity relating to the following— (a) preparing a place for the activity before carrying out the activity; (b) rehabilitating a place after it has been used for carrying out the activity.
Appropriately qualified person (AQP)	means a person who has professional qualifications, training, skills and experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.
BioCondition	refers to the <i>BioCondition Assessment Manual</i> (Eyre, T.J., Kelly, A.L, Neldner, V.J., Wilson, B.A., Ferguson, D.J., Laidlaw, M.J. and Franks, A.J. (2015)) and <i>BioCondition: A Condition Assessment Framework for Terrestrial Biodiversity in Queensland. Assessment Manual. Version 2.2</i> (Queensland Herbarium, Department of Science, Information Technology, Innovation and Arts, Brisbane) or later versions thereof.
Contaminants	can be a gas, liquid or solid; or an odour; or an organism (whether alive or dead), including a virus; or energy, including noise, heat, radioactivity and electromagnetic radiation; or a combination of contaminants.
Contaminated Land Auditor	A contaminated land auditor is responsible for auditing the work of the suitably qualified person (SQP) by evaluating and certifying site investigation and validation reports and drafting the site management plans that are submitted for a decision on a land contamination matter.
Environmentally problematic material	means material that will negatively impact water quality and stability or vegetation growth.
Flood stress	is the pressure on structures from rapid water rise, erosion, and saturation during extreme floods, risking instability.
Growth media	is defined as all soil and soil-like material that will support the final vegetation cover. This includes the topsoil and subsoil where these materials are applied independently. Where the topsoil is incorporated into the underlying subsoil/spoil, topsoil refers to the depth of incorporation and the remaining depth is regarded as subsoil. The total depth of growth media is nominally considered to be the effective plant root zone
Gully	A gully is a channel excavated by water, more than 0.3 m deep.
Independent AQP	is an AQP who is a third party who is able to demonstrate a sufficient level of independence from the PRCP schedule holder, the site and any technical material generated that is the subject of the review, to satisfy a reasonable person that they have no conflict of interest on the matter the subject of the review.
Independently peer reviewed	means a peer reviewer who is a third-party to the PRCP schedule holder and the AQP whose report is being reviewed and substantiated, and is able to demonstrate a sufficient level of independence from the PRCP schedule holder, the site and any technical material generated that is the subject of the review to satisfy a reasonable person that they have no conflict of interest on the matter the subject of the review. The peer reviewer shall also be an AQP and documentation provided must contain sufficient detail to allow for independent technical review and substantiation and provide and justify site-specific landform performance (SMART) criteria.
Native	means vegetation occurring naturally within Regional Ecosystems and/or listed in the relevant Regional Ecosystem technical description.
Potentially acid forming (PAF)	means material with either a Net Acid Producing Potential of greater than 5 kg of H ₂ SO ₄ /tonne or a Net Acid Generation oxidation pH of less than 4.5 (pH unit).

Registered Professional Engineer of Queensland (RPEQ)	Registration as a registered professional engineer of Queensland (RPEQ) demonstrates an engineer's qualification, competency and experience and ongoing commitment to development and learning
Rehabilitation activity	means any activity that the holder is required to carry out in relation to this PRCP schedule.
Relevant structure	Includes: a) WRDs (RA2); and b) TSF (RA5)
Rill	A rill is a channel excavated by water, less than 0.3 m deep.
Stabilised	means one or both of the following conditions apply: no evidence of sediment movement; sides and/or floors of erosion form are revegetated (Australian Soil and Land Survey Field Handbook Fourth Edition).
Stable condition	see section 111A of the <i>Environmental Protection Act 1994</i> .
Suitably qualified and experienced person (SQP)	for performing a regulatory function under chapter 7, part 8 (Contaminated Land) of the EP Act or another function prescribed under a regulation, means a person who— (a) has qualifications and experience relevant to performing the function; and (b) if a regulation prescribes an organisation for this paragraph—is a member of the organisation.
Vegetative groundcover	Means plants, plant litter, tree leaf litter, twigs and woody debris capable of protecting the soil surface from erosion.
Weed	Non-native plant that are: • Category 3 restricted invasive plant species, defined by the Biosecurity Act 2014; and • Weeds of National Significance, defined by Invasive Plants and Animals Committee 2016, Australian Weeds Strategy 2017 to 2027, Australian Government Department of Agriculture and Water Resources, Canberra.

Section C - Final site design and reference maps

Figure 1 – Final Site Design

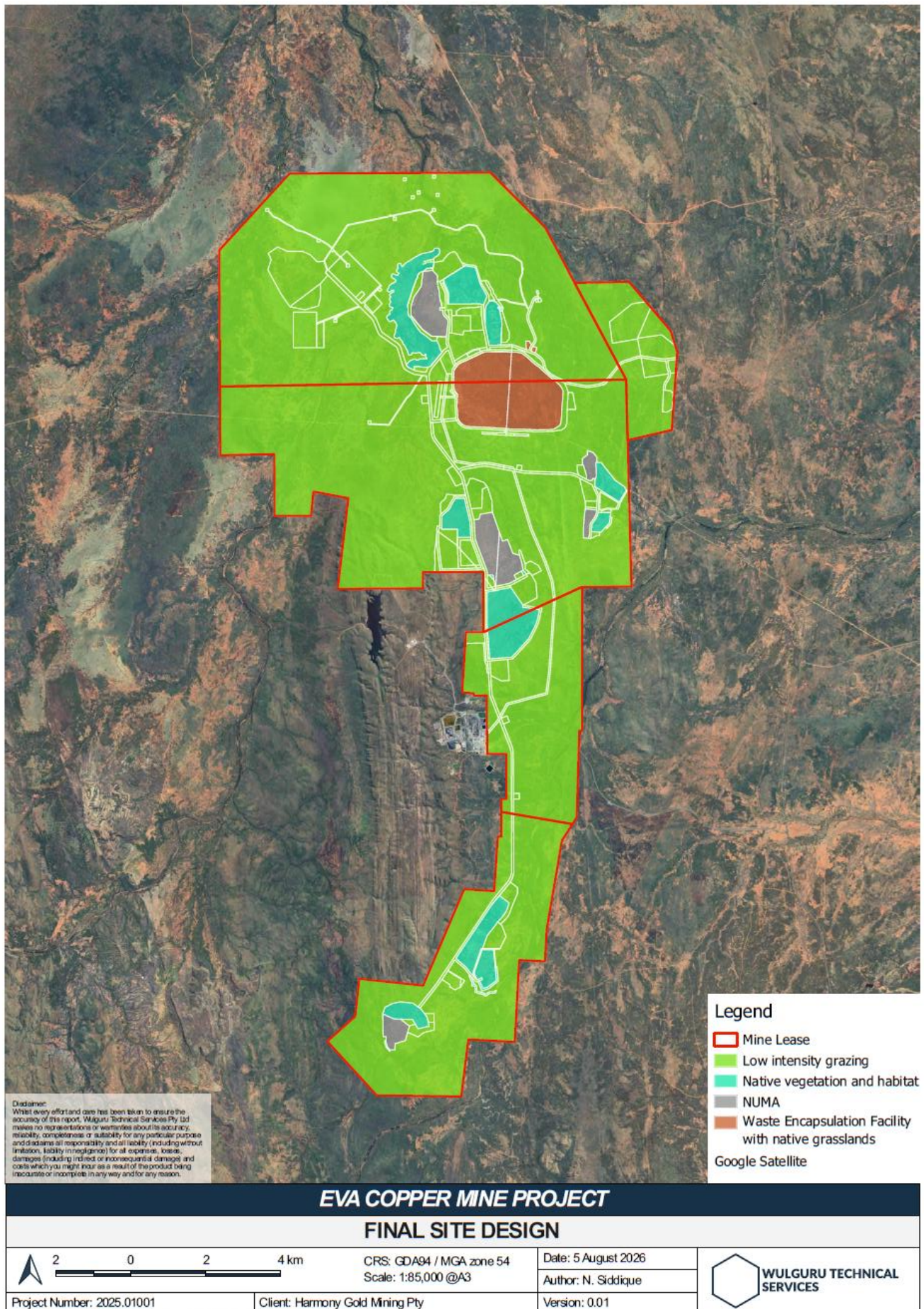
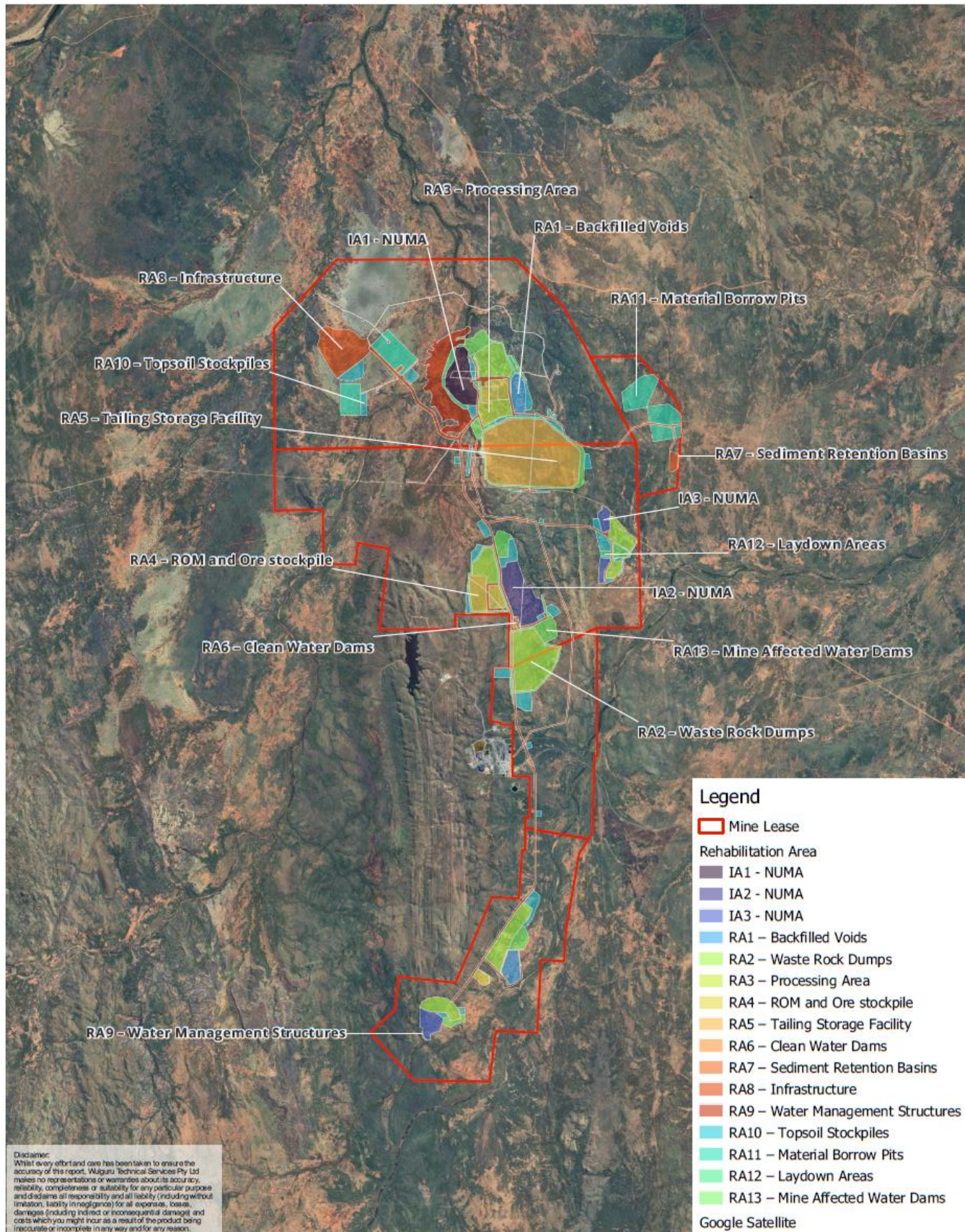


Figure 2 – Reference Map

**EVA COPPER MINE PROJECT****REFERENCE MAP**

 2.8 0 2.8 5.6 km	CRS: GDA94 / MGA zone 54 Scale: 1:100,000 @A3	Date: 27 August 2026 Author: G. Yap	 WULGURU TECHNICAL SERVICES
Project Number: 2025.01001	Client: Harmony Group	Version: 0.01	

Section D – Post mining land uses

Milestone reference	Rehabilitation milestone	Rehabilitation Area												
		RA1	RA2	RA3	RA4	RA5	RA6	RA7	RA8	RA9	RA10	RA11	RA12	RA13
		Backfilled voids	Waste Rock Dumps	Processing Area	ROM and Ore Stockpiles	Tailings Storage Facility	Clean Water Dams	Sediment retention basins	Infrastructure	Water Management Structures	Topsoil Stockpiles	Material borrow pit	Laydown area	Mine affected water dams
		Native vegetation and habitat	Native vegetation and habitat	Low intensity grazing	Low intensity grazing	Waste encapsulation facility with native grassland	Low intensity grazing	Low intensity grazing	Low intensity grazing	Native vegetation and habitat	Low intensity grazing	Low intensity grazing	Low intensity grazing	Low intensity grazing
RM1	Infrastructure decommissioning and removal			X		X			X				X	X
RM2	Remediation of contaminated land		X	X	X				X					X
RM3	Landform development and reshaping / re-profiling	X	X	X	X	X	X	X	X	X	X	X		X
RM4	Installation of a cover system					X								
RM5	Surface preparation	X	X	X	X	X	X	X	X		X	X	X	X
RM6	Revegetation	X	X	X	X	X	X	X	X	X	X	X	X	X
RM7	Achievement of surface requirements	X	X	X	X	X	X	X	X	X	X	X	X	X
RM8	Achievement of effective seepage management					X								
RM9	Achievement of post-mining land use to a stable condition	X	X	X	X	X	X	X	X	X	X	X	X	X

Notes

X = RM applies to the corresponding rehabilitation area (RA)

(RA1) Rehabilitation Area 1 – Backfilled Pits

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA1			
Relevant activities	Backfilled voids (Turkey Creek Pit and Scanlan Pit)			
Total rehabilitation area size (ha)	Total = 89 Turkey Creek Pit = 45, Scanlan Pit = 44			
Commencement of first milestone:	10/12/2043			
PMLU	Native vegetation and habitat			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	89	89	89	89
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2060
Milestone Reference	Cumulative area achieved (ha)			
RM3	89			
RM5		89		
RM6		89		
RM7			89	
RM9				89

(RA2) Rehabilitation Area 2 – Little Eva WRD

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA2			
Relevant activities	Little Eva WRD			
Total rehabilitation area size (ha)	Total = 85			
Commencement of first milestone:	10/12/2039			
PMLU	Native vegetation and habitat			
Date area is available	10/12/2039	10/12/2040	10/12/2041	10/12/2046
Cumulative area available (ha)	85	85	85	85
Milestone completed by	10/12/2040	10/12/2041	10/12/2046	10/12/2056
Milestone Reference				
RM2	85			
RM3	85			
RM5		85		
RM6		85		
RM7			85	
RM9				85

(RA2.1) Rehabilitation Area 2.1 – Blackard West WRD, Blackard South WRD, Scanlan WRD

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA2.1			
Relevant activities	Blackard West WRD, Blackard South WRD, Scanlan WRD			
Total rehabilitation area size (ha)	Total = 331 Blackard West WRD = 55, Blackard South WRD = 188, Scanlan WRD = 88			
Commencement of first milestone:	10/12/2043			
PMLU	Native vegetation and habitat			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	331	331	331	331
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2060
Milestone Reference				
RM2	331			
RM3	331			
RM5		331		
RM6		331		
RM7			331	
RM9				331

(RA2.2) Rehabilitation Area 2.2 – Bedford North WRD, Bedford South WRD, Lady Clayre WRD

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA2.2			
Relevant activities	Bedford North WRD, Bedford South WRD, Lady Clayre WRD			
Total rehabilitation area size (ha)	Total = 113 Bedford North WRD = 45, Bedford South WRD = 19, Lady Clayre WRD = 49			
Commencement of first milestone:	10/12/2043			
PMLU	Native vegetation and habitat			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	113	113	113	113
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2060
Milestone Reference				
RM2	113			
RM3	113			
RM5		113		
RM6		113		
RM7			113	
RM9				113

(RA3) Rehabilitation Area 3 – Processing Area

Post-mining land uses (PMLU)				
Rehabilitation area	RA3			
Relevant activities	Processing Area (Process Plant Infrastructure Area inclusive of Temporary Concentrate Stockpile, Concentrate Storage and Handling Shed, and Power Plant Infrastructure Area)			
Total rehabilitation area size (ha)	Total 47 Processing Plant Infrastructure Area = 43, Power Plant Infrastructure Area = 4			
Commencement of first milestone:RM1	10/12/2045			
PMLU	Low intensity grazing			
Date area is available	10/12/2045	10/12/2046	10/12/2047	10/12/2052
Cumulative area available (ha)	47	47	47	47
Milestone completed by	10/12/2046	10/12/2047	10/12/2052	10/12/2057
Milestone Reference	Cumulative area achieved (ha)			
RM1	47			
RM2	47			
RM3		47		
RM5		47		
RM6		47		
RM7			47	
RM9				47

(RA4) Rehabilitation Area 4 – Little Eva and Turkey Creek LGO Stockpile

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA4			
Relevant activities	ROM and Ore Stockpiles (Little Eva and Turkey Creek LGO stockpile)			
Total rehabilitation area size (ha)	Total = 26			
Commencement of first milestone:	10/12/2039			
PMLU	Low intensity grazing			
Date area is available	10/12/2039	10/12/2040	10/12/2041	10/12/2046
Cumulative area available (ha)	26	26	26	26
Milestone completed by	10/12/2040	10/12/2041	10/12/2046	10/12/2051
Milestone Reference	Cumulative area achieved (ha)			
RM2	26			
RM3	26			
RM5		26		
RM6		26		
RM7			26	
RM9				26

(RA4.1) Rehabilitation Area 4.1 – Blackard ROM, Blackard LGO Stockpile, Scanlan and Lady Cayre ROM and Stockpile

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA4.1			
Relevant activities	ROM and Ore Stockpiles (Blackard ROM, Blackard LGO Stockpile, Scanlan and Lady Cayre ROM and Stockpile)			
Total rehabilitation area size (ha)	Total = 95 Blackard ROM = 28, Blackard LGO Stockpile = 52, Scanlan and Lady Cayre ROM and Stockpile = 15			
Commencement of first milestone:	10/12/2043			
PMLU	Low intensity grazing			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	95	95	95	95
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2055
Milestone Reference	Cumulative area achieved (ha)			
RM2	95			
RM3	95			
RM5		95		
RM6		95		
RM7			95	
RM9				95

(RA4.2) Rehabilitation Area 4.2 – Primary ROM Area

Post-mining land uses (PMLU)				
Rehabilitation area	RA4.2			
Relevant activities	ROM and Ore Stockpile (Primary ROM Area)			
Total rehabilitation area size (ha)	Total = 23			
Commencement of first milestone:	10/12/2045			
PMLU	Low intensity grazing			
Date area is available	10/12/2045	10/12/2046	10/12/2047	10/12/2052
Cumulative area available (ha)	23	23	23	23
Milestone completed by	10/12/2046	10/12/2047	10/12/2052	10/12/2057
Milestone Reference	Cumulative area achieved (ha)			
RM2	23			
RM3	23			
RM5		23		
RM6		23		
RM7			23	
RM9				23

(RA5) Rehabilitation Area 5 – Tailings Storage Facility

Post-mining Land Uses (PMLU)					
Rehabilitation area	RA5				
Relevant activities	Tailings Storage Facility				
Total rehabilitation area size (ha)	Total = 512				
Commencement of first milestone:	10/12/2045				
PMLU	Waste encapsulation facility with native grassland				
Date area is available	10/12/2045	10/12/2046	10/12/2048	10/12/2050	10/12/2055
Cumulative area available (ha)	512	512	512	512	512
Milestone completed by	10/12/2046	10/12/2048	10/12/2050	10/12/2055	10/12/2065
Milestone Reference	Cumulative area achieved (ha)				
RM1	512				
RM3		512			
RM4			512		
RM5			512		
RM6			512		
RM7				512	
RM8				512	
RM9					512

(RA6) Rehabilitation Area 6 – Clean Water Dams

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA6		
Relevant activities	Clean Water Dams		
Total rehabilitation area size (ha)	Total = 5		
Commencement of first milestone:	10/12/2043		
PMLU	Low intensity grazing		
Date area is available	10/12/2043	10/12/2044	10/12/2049
Cumulative area available (ha)	5	5	5
Milestone completed by	10/12/2044	10/12/2049	10/12/2054
Milestone Reference	Cumulative area achieved (ha)		
RM3	5		
RM5	5		
RM6	5		
RM7		5	
RM9			5

(RA7) Rehabilitation Area 7 – Sediment Retention Basins

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA7		
Relevant activities	Sediment Retention Basins		
Total rehabilitation area size (ha)	Total = 2		
Commencement of first milestone:	10/12/2045		
PMLU	Low intensity grazing		
Date area is available	10/12/2045	10/12/2046	10/12/2051
Cumulative area available (ha)	2	2	2
Milestone completed by	10/12/2046	10/12/2051	10/12/2056
Milestone Reference	Cumulative area achieved (ha)		
RM3	2		
RM5	2		
RM6	2		
RM7		2	
RM9			2

(RA8) Rehabilitation Area 8 – Magazine and Explosives Storage Facilities

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA8			
Relevant activities	Infrastructure (Magazine and Explosives Storage Facilities)			
Total rehabilitation area size (ha)	Total = 1			
Commencement of first milestone:	10/12/2043			
PMLU	Low intensity grazing			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	1	1	1	1
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2055
Milestone Reference				
RM1	1			
RM2	1			
RM3	1			
RM5		1		
RM6		1		
RM7			1	
RM9				1

(RA8.1) Rehabilitation Area 8.1 – Solar Farm, Powerlines, Solar Farm Access, Accommodation Village (Primary part thereof)

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA8.1			
Relevant activities	Infrastructure (Solar Farm, Powerlines, Solar Farm Access and Powerlines, Accommodation Village (Primary Part thereof)			
Total rehabilitation area size (ha)	Total = 204.5 Solar Farm = 120, Powerlines = 59, Solar Farm Access = 14, Accommodation Village (Primary Part thereof) = 11.5			
Commencement of first milestone:	10/12/2045			
PMLU	Low intensity grazing			
Date area is available	10/12/2045	10/12/2046	10/12/2047	10/12/2052
Cumulative area available (ha)	204.5	204.5	204.5	204.5
Milestone completed by	10/12/2046	10/12/2047	10/12/2052	10/12/2057
Milestone Reference				
RM1	204.5			
RM3	204.5			
RM5		204.5		
RM6		204.5		
RM7			204.5	
RM9				204.5

(RA8.2) Rehabilitation Area 8.2 – Access and Haul Roads, Mine Infrastructure Area, Integrated Waste Management Facility, Sewerage Treatment Plant, Effluent Irrigation Area 1, Effluent Irrigation Area 2, Borefield

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA8.2			
Relevant activities	Infrastructure (Access and Haul Roads, Mine Infrastructure Area, Integrated Waste Management Facility, Sewerage Treatment Plant, Effluent Irrigation Area 1, Effluent Irrigation Area 2, Borefield)			
Total rehabilitation area size (ha)	Total = 308.1 Access and Haul Roads = 287, Mine Infrastructure Area = 8, Integrated Waste Management Facility = 10, Sewerage Treatment Plant = 1, Effluent Irrigation Area 1 = 0.6, Effluent Irrigation Area 2 = 1.5, Borefield = 0			
Commencement of first milestone:	10/12/2047			
PMLU	Low intensity grazing			
Date area is available	10/12/2047	10/12/2048	10/12/2049	10/12/2054
Cumulative area available (ha)	308.1	308.1	308.1	308.1
Milestone completed by	10/12/2048	10/12/2049	10/12/2054	10/12/2059
Milestone Reference				
RM1	308.1			
RM2	21.1			
RM3	308.1			
RM5		308.1		
RM6		308.1		
RM7			308.1	
RM9				308.1

(RA8.3) Rehabilitation Area 8.3 – Fly Camp

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA8.3		
Relevant activities	Infrastructure (Fly Camp)		
Total rehabilitation area size (ha)	Total = 3		
Commencement of first milestone:	10/12/2049		
PMLU	Low intensity grazing		
Date area is available	10/12/2049	10/12/2050	10/12/2055
Cumulative area available (ha)	3	3	3
Milestone completed by	10/12/2050	10/12/2055	10/12/2060
Milestone Reference			
RM1	3		
RM6	3		
RM7		3	
RM9			3

(RA9) Rehabilitation Area 9 – Scanlan Pit Unnamed Tributary Diversion, Lady Clayre Pit Levee, Turkey Creek Bund, Blackard Bund 1, Blackard Bund 2

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA9		
Relevant activities	Water Management Structures (Scanlan Pit Unnamed Tributary Diversion, Lady Clayre Pit Levee, Turkey Creek Bund, Blackard Bund 1, Blackard Bund 2)		
Total rehabilitation area size (ha)	Total = 7.9 Scanlan Pit Unnamed Tributary Diversion = 5, Lady Clayre Pit Levee = 1, Turkey Creek Bund = 0.3, Blackard Bund 1 = 0.7, Blackard Bund 2 = 0.9		
Commencement of first milestone:	10/12/2043		
PMLU	Native vegetation and habitat		
Date area is available	10/12/2043	10/12/2044	10/12/2049
Cumulative area available (ha)	7.9	7.9	7.9
Milestone completed by	10/12/2044	10/12/2049	10/12/2059
Milestone Reference	Cumulative area achieved (ha)		
RM3	7.9		
RM6	7.9		
RM7		7.9	
RM9			7.9

(RA9.1) Rehabilitation Area 9.1 – Cabbage Tree Creek, Blackard Creek, Unnamed Tributary of Blackard Creek Diversions and Buffer, Little Eva Pit Levee and Buffer

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA9.1		
Relevant activities	Water Management Structures (Cabbage Tree Creek, Blackard Creek, Unnamed Tributary of Blackard Creek Diversions and Buffer, Little Eva Pit Levee and Buffer)		
Total rehabilitation area size (ha)	Total = 199 Cabbage Tree Creek, Blackard Creek, Unnamed Tributary of Blackard Creek Diversions and Buffer = 136, Little Eva Pit Levee and Buffer = 63		
Commencement of first milestone:	10/12/2028		
PMLU	Native vegetation and habitat		
Date area is available	10/12/2028	10/12/2029	10/12/2044
Cumulative area available (ha)	199	199	199
Milestone completed by	10/12/2029	10/12/2044	10/12/2054
Milestone Reference	Cumulative area achieved (ha)		
RM3	199		
RM6	199		
RM7		199	
RM9			199

(RA9.2) Rehabilitation Area 9.2 – Scanlan Pit Levee

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA9.2		
Relevant activities	Water Management Structures (Scanlan Pit Levee)		
Total rehabilitation area size (ha)	Total = 5.2		
Commencement of first milestone:	10/12/2043		
PMLU	Native vegetation and habitat		
Date area is available	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)	5.2	5.2	5.2
Milestone completed by	10/12/2045	10/12/2050	10/12/2060
Milestone Reference	Cumulative area achieved (ha)		
RM3	5.2		
RM6	5.2		
RM7		5.2	
RM9			5.2

(RA10) Rehabilitation Area 10 – Topsoil Stockpiles

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA10			
Relevant activities	Topsoil Stockpiles			
Total rehabilitation area size (ha)	Total = 302 Little Eva and Turkey Creek Pit Mining Area = 29, Blackard Pit Mining Area = 103, Bedford Mining Area = 32, Scanlan Pit Mining Area = 23, Lady Clayre Pit Mining Area = 8, TSF Area = 40, Solar Farm Area = 30, Clay Borrow Pir Area = 25, Ancillary Infrastructure Area = 12			
Commencement of first milestone:	10/12/2051			
PMLU	Low intensity grazing			
Date area is available	10/12/2051	10/12/2052	10/12/2053	10/12/2058
Cumulative area available (ha)	302	302	302	302
Milestone completed by	10/12/2052	10/12/2053	10/12/2058	10/12/2063
Milestone Reference	Cumulative area achieved (ha)			
RM3	302			
RM5		302		
RM6		302		
RM7			302	
RM9				302

(RA11) Rehabilitation Area 11 – Aggregate Borrow Pit, Construction Material Borrow Pit, Clay Material Borrow Pit Area (North)

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA11			
Relevant activities	Material Borrow Pits (Aggregate Borrow Pit, Construction Material Borrow Pit, Clay Material Borrow Pit Area (North))			
Total rehabilitation area size (ha)	Total = 99 Aggregate Borrow Pit = 4, Construction Material Borrow Pit = 4, Clay Material Borrow Pit Area (North) = 91			
Commencement of first milestone:	10/12/2044			
PMLU	Low intensity grazing			
Date area is available	10/12/2044	10/12/2045	10/12/2046	10/12/2049
Cumulative area available (ha)	99	99	99	99
Milestone completed by	10/12/2045	10/12/2046	10/12/2051	10/12/2050
Milestone Reference	Cumulative area achieved (ha)			
RM3	99			
RM5		99		
RM6		99		
RM7			99	
RM9				99

(RA11.1) Rehabilitation Area 11.1 – Clay Material Borrow Pit Area (South)

Post-mining Land Uses (PMLU)				
Rehabilitation area	RA11.1			
Relevant activities	Material Borrow Pits (Clay Material Borrow Pit Area (South))			
Total rehabilitation area size (ha)	Total = 59			
Commencement of first milestone:	10/12/2044			
PMLU	Low intensity grazing			
Date area is available	10/12/2049	10/12/2050	10/12/2051	10/12/2056
Cumulative area available (ha)	59	59	59	59
Milestone completed by	10/12/2050	10/12/2051	10/12/2056	10/12/2061
Milestone Reference	Cumulative area achieved (ha)			
RM3	59			
RM5		59		
RM6		59		
RM7			59	
RM9				59

(RA12) Rehabilitation Area 12 – Little Eva Laydown, Little Eva Access Laydown

Post-mining land uses (PMLU)			
Rehabilitation area	RA12		
Relevant activities	Laydown Area (Little Eva Laydown, Little Eva Access Laydown)		
Total rehabilitation area size (ha)	Total = 27.1 Little Eva Laydown = 25.2, Little Eva Access Laydown = 1.9		
Commencement of first milestone:	12/10/2040		
PMLU	Low intensity grazing		
Date area is available	10/12/2040	10/12/2041	10/12/2046
Cumulative area available (ha)	27.1	27.1	27.1
Milestone completed by	10/12/2041	10/12/2046	10/12/2051
Milestone Reference	Cumulative area achieved (ha)		
RM1	27.1		
RM5	27.1		
RM6	27.1		
RM7		27.1	
RM9			27.1

(RA12.1) Rehabilitation Area 12.1 – TSF/Process Plant Laydown, Turkey Creek Laydown, Bedford Laydown

Post-mining Land Uses (PMLU)			
Rehabilitation area	RA12.1		
Relevant activities	Laydown Area (TSF/Process Plant Laydown, Turkey Creek Laydown, Bedford Laydown)		
Total rehabilitation area size (ha)	Total = 16.3 TSF/Process Plant Laydown = 5.6, Turkey Creek Laydown = 5.6, Bedford Laydown = 5.1		
Commencement of first milestone: RM1	12/10/2040		
PMLU	Low intensity grazing		
Date area is available	10/12/2045	10/12/2046	10/12/2051
Cumulative area available (ha)	16.3	16.3	16.3
Milestone completed by	10/12/2046	10/12/2051	10/12/2056
Milestone Reference	Cumulative area achieved (ha)		
RM1	16.3		
RM5	16.3		
RM6	16.3		
RM7		16.3	
RM9			16.3

(RA13) Rehabilitation Area 13 – TSF MAW Dam

Post-Mining Land Uses (PMLU)				
Rehabilitation area	RA13			
Relevant activities	Mine Affected Water Dams (TSF MAW Dam)			
Total rehabilitation area size (ha)	Total = 14			
Commencement of first milestone:	10/12/2045			
PMLU	Low intensity grazing			
Date area is available	10/12/2047	10/12/2048	10/12/2049	10/12/2054
Cumulative area available (ha)	14	14	14	14
Milestone completed by	10/12/2048	10/12/2049	10/12/2054	10/12/2059
Milestone Reference	Cumulative area achieved (ha)			
RM1	14			
RM2	14			
RM3	14			
RM5		14		
RM6		14		
RM7			14	
RM9				14

(RA13.1) Rehabilitation Area 13.1 – Scanlan MAW Dam

Post-Mining Land Uses (PMLU)				
Rehabilitation area	RA13.1			
Relevant activities	Mine Affected Water Dams (Scanlan MAW Dam)			
Total rehabilitation area size (ha)	Total = 27			
Commencement of first milestone:	10/12/2042			
PMLU	Low intensity grazing			
Date area is available	10/12/2042	10/12/2043	10/12/2044	10/12/2049
Cumulative area available (ha)	27	27	27	27
Milestone completed by	10/12/2043	10/12/2044	10/12/2049	10/12/2054
Milestone Reference	Cumulative area achieved (ha)			
RM1	27			
RM2	27			
RM3	27			
RM5		27		
RM6		27		
RM7			27	
RM9				27

(RA13.2) Rehabilitation Area 13.2 – Northern MAW Dam, Blackard Northern MAW Dam

Post-Mining Land Uses (PMLU)				
Rehabilitation area	RA13.2			
Relevant activities	Mine Affected Water Dams (Northern MAW Dam, Blackard Northern MAW Dam)			
Total rehabilitation area size (ha)	Total = 66 Northern MAW Dam = 36, Blackard Northern MAW Dam = 30			
Commencement of first milestone:	10/12/2043			
PMLU	Low intensity grazing			
Date area is available	10/12/2043	10/12/2044	10/12/2045	10/12/2050
Cumulative area available (ha)				
Milestone completed by	10/12/2044	10/12/2045	10/12/2050	10/12/2055
Milestone Reference	Cumulative area achieved (ha)			
RM1	66			
RM2	66			
RM3	66			
RM5		66		
RM6		66		
RM7			66	
RM9				66

(RA13.3) Rehabilitation Area 13.3 – Clean Water and MAW Drains, Blackard Southern MAW Dam, Bedford MAW Dam, Lady Clayre MAW Dam, Southern ROM Pad MAW Dam, Process Water Pond, Site Runoff Pond, Raw Water Storage, Northern MAW Dam Turkeys Nest, Turkeys Creek Pit Turkeys Nest, Turkey's Nest 2 (Core Farm), Turkeys Nest 3 (TSF)

Post-Mining Land Uses (PMLU)				
Rehabilitation area	RA13.3			
Relevant activities	Mine Affected Water Dams (Clean Water and MAW Drains, Blackard Southern MAW Dam, Bedford MAW Dam, Lady Clayre MAW Dam, Southern ROM Pad MAW Dam, Process Water Pond, Site Runoff Pond, Raw Water Storage, Northern MAW Dam Turkeys Nest, Turkeys Creek Pit Turkeys Nest, Turkey's Nest 2 (Core Farm), Turkeys Nest 3 (TSF))			
Total rehabilitation area size (ha)	Total = 217.9 Clean Water and MAW Drains = 145, Blackard Southern MAW Dam = 37, Bedford MAW Dam = 15, Lady Clayre MAW Dam = 14, Southern ROM Pad MAW Dam = 1, Process Water Pond = 1.5, Site Runoff Pond = 1.5, Raw Water Storage = 1.3, Northern MAW Dam Turkeys Nest = 0.6, Turkeys Creek Pit Turkeys Nest = 0.5, Turkey's Nest 2 (Core Farm) = 0.5, Turkeys Nest 3 (TSF) = 0 (subsumed by ultimate TSF)			
Commencement of first milestone:	10/12/2045			
PMLU	Low intensity grazing			
Date area is available	10/12/2045	10/12/2046	10/12/2047	10/12/2052
Cumulative area available (ha)	217.9	217.9	217.9	217.9
Milestone completed by	10/12/2046	10/12/2047	10/12/2052	10/12/2057
Milestone Reference	Cumulative area achieved (ha)			
RM1	217.9			
RM2	217.9			
RM3	217.9			
RM5		217.9		
RM6		217.9		
RM7			217.9	
RM9				217.9

Section E - Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	1.1 All buildings and associated infrastructure are dismantled and removed from site. 1.2 All hardstands, concrete and road base are removed. 1.3 Fences, and associated foundations, that are not part of PMLU requirement are removed. 1.4 Above and below ground services are disconnected, terminated and removed. 1.5 All pipelines drained and removed. 1.6 All waste is removed and disposed at a licenced facility. 1.7 Machinery/equipment not required for rehabilitation is removed from site.
RM2	Identification, remediation and removal of contaminated land	2.1 Contaminated Land Investigation Document completed by an SQP in accordance with the <i>Environmental Protection Act 1994</i>, including a site investigation report, and, where required, a Validation Report and/or a draft Site Management Plan. 2.2 Contaminated material and hazardous material, as determined by contaminated land assessment, and consistent with SQP advice, either remediated in situ, removed from site and disposed of lawfully or stored within a WRD, backfilled Pit or the TSF. 2.3 Validation sampling determines that contaminant removal has been successful. 2.4 A site suitability statement from a SQP confirms the uses or activities for which the land is suitable, align to the approved PMLUs (i.e., native vegetation and habitat or low intensity grazing). 2.5 Contaminated Land Auditor certifies that that no contamination unsuitable for the PMLU remains or is occurring.
RM3	Landform development and reshaping / re-profiling	All RAs 3.1 All major earthworks and landform reprofiling completed in accordance with the plans and specifications as per the landform closure design report and consistent with the final site layout (Figure 1 – Final site designs and land use). 3.2 An 'As-Constructed Report' details and justifies any variations to the design, including a certification from an AQP that such variations will not affect the design performance. 3.3 Constructed landform achieves a geotechnical stability with a factor of safety (FoS) >1.5. 3.4 Instances of surface soil buckling have been treated via re-grading. 3.5 Final constructed landform is certified by an AQP as structurally stable and non-polluting.

		3.6 Landform provides flood-protection and erosion-control against a 0.1% AEP flood event. 3.7 Erosion and sediment control (ESC) and drainage structures are installed and functioning per design specifications and plans with certification by an AQP. 3.8 All temporary diversions and stability measures returned to a natural condition with profile similar to the pre-disturbance condition. 3.9 An AQP has surveyed the final landform and certified that RM3.1 – 3.22 have been achieved. RA1 – Backfilled Voids 3.10 Turkey Creek Pit and Scanlan Pit are backfilled with waste rock material. 3.11 Landforms are shaped to be water shedding and left free draining. RA2 – Waste Rock Dumps 3.12 Final external embankment slopes do not exceed 18 degrees. 3.13 WRD cover (NAF rock / soil matrix) applied to a depth of 0.3 to 0.5 m. 3.14 Landforms are shaped to be water shedding and left free draining. RA3 – Processing Plant, RA8 – Infrastructure, RA9 - Water Management Structure, RA10 – Topsoil Stockpiles, RA11 – Material Borrow Pit and RA12 – Laydown Areas 3.15 Landforms are shaped to achieve gentle slopes (with slope gradients supported by erosion, stability and landform design assessments) that are consistent with the surrounding natural landform, minimise erosion and integrate with natural drainage lines. RA4 – Run of Mine 3.16 Landforms are shaped to achieve gentle slopes (with slope gradients supported by erosion, stability and landform design assessments) that are consistent with the surrounding natural landform, minimise erosion and integrate with natural drainage lines. 3.17 Residual ore has been processed through the Processing Plant or placed within backfilled voids or the TSF. 3.18 ROM Pad has been removed and the area re-profiled to the design surface level.
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		<u>Tailings Storage Facility Embankment</u> 3.19 Embankment slope achieves maximum 3 H:1V, in accordance with the landform closure design report. 3.20 A rock mulch layer is applied to external embankments to enhance erosion resistance, to a minimum thickness of 0.5 m. 3.21 A growth media layer applied at a minimum depth of 0.2 m. 3.22 An 'As-Constructed Report' details and justifies all variations to the design, including a certification from an AQP that such variations will not affect the design performance. RA6 – Clean Water Dams, RA7 – Sediment Retention Basins and RA13 – Mine Affected Water Dams 3.23 Water is removed, through evaporation or other appropriate dewatering methods. 3.24 Liners are removed and disposed of lawfully. 3.25 Contaminated material is removed in accordance with RM2. 3.26 Dam walls are reshaped and regraded into final landform, with defined and stable drainage pathways established.
RM4	Installation of a cover system (RA5 – TSF)	<u>Tailings Storage Facility Surface</u> 4.1 Surface of the TSF is graded towards the central pond at an average gradient of 1%. 4.2 TSF impoundment surface has been dewatered to the extent necessary to provide a stable and trafficable surface for construction of the approved cover system. 4.3 Spillway is constructed as per the landform closure design report. 4.4 A cover system is applied to the TSF surface comprising a minimum of: (a) 0.2 m clay layer; (b) 0.5 m subsoil layer; and (c) 0.1 m growth media layer. (d) With the material properties of each layer verified by an AQP as being suitable for rehabilitation purposes. 4.5 QA/QC survey demonstrate that the cover system has been constructed in accordance with the approved design thicknesses and materials. 4.6 Monitoring locations are established which will include soil moisture sensors and tensiometers or alternative instrumentation, as required by the approved monitoring program.

		4.7 All monitoring equipment has been installed, commissioned and is operating in accordance with manufacturers specifications; 4.8 An 'As-Constructed Report' details and justifies all variations to the design, including a certification from an AQP that such variations will not affect the design performance.
RM5	Surface preparation	All RAs 5.1 An assessment of growth media characteristics is completed to ensure its suitability for the target vegetation establishment, landform stability and achievement of the PMLU. 5.2 An amelioration and physical treatment plan is completed by an AQP. 5.3 Topsoil is placed to a depth of between 0.1 to 0.2 m. 5.4 Deep ripping of compacted surfaces occurs to a minimum depth of 300 mm into soil/subsoil profile along contour slopes where required 5.5 Ameliorants and physical treatments are applied in accordance with the approved plan. 5.6 Following ripping and amelioration, representative soil testing of growth media confirms: (a) pH in the range of 6 to 8.5 (b) Electric Conductivity saturated extract (dS/m) ≤ 2 (2,000 $\mu\text{S/cm}$) (c) Exchangeable sodium percentage (ESP) $< 6\%$ (d) Emerson aggregate class: ≥ 4. (e) Organic content, measured as TOC, $> 1\%$. 5.7 Selective placement of non-erosive materials and/or rock mulch protection to support landform stability. 5.8 The surface and groundwater network are installed, and monitoring is underway, with a minimum of one year of sampling completed. RA5 Tailings Storage Facility 5.9 Harrowing covered TSF surface, topped up as required to maintain the 1% slope based on settlement. 5.10 Topsoil placement of a minimum 0.1 m on the TSF surface and 0.2 m on the TSF embankments. 5.11 Shallow ripping (< 300 mm into soil profile) surface to allow topsoil embedding in rock for vegetative establishment. 5.12 Performance cover monitoring commences within one year of the cover system being applied.
RM6	Revegetation	All RAs

		6.1 Non-native seeds are not used for revegetation (except when sterile cover crops are used). 6.2 Stock exclusion fencing has been established to prevent stock from grazing newly seeded areas. 6.3 Seeding completed using seed mix and sowing rates described in Appendix 1: Seed mix and application rate. 6.4 Direct seeding is applied at a rate of 4 – 10 kg/ha, or as otherwise directed by supplier. Grazing (RA3, RA4, RA6, RA7, RA8, RA10, RA11, RA12 and RA13) 6.5 At least four species of 3P native pasture species, two native legumes and two native shade tree species from Appendix 1 – Seed mix and application rate are applied per application area.
RM7	Achievement of surface requirements	All RAs 7.1 No evidence of erosion classified as ‘moderate’ or ‘severe’ as defined by Appendix 2 – Erosion classification framework. 7.2 Any erosion present will not compromise the achievement of a PMLU to a stable condition¹. 7.3 Erosion requiring intervention has been remediated and does not impact achievement of PMLU. 7.4 No evidence of scouring, instability or excessive sedimentation in or associated with engineered drainage structures or benches. 7.5 Weed presence is a less than 5% of total vegetative cover. 7.6 Surface water runoff collected from representative areas of rehabilitation when surface flow occurs and is on a trajectory to meeting Appendix 4 – Surface water quality limits. 7.7 An AQP certifies achievement of RM7.1 – RM7.16. 7.8 TSF final landform determined to be geotechnically stable demonstrating compliance FoS >1.5 consistent with the landform closure design report. Native Ecosystem (RA1, RA2, RA5 and RA9)² 7.9 A BioCondition assessment is completed by an AQP in accordance with the latest version of the Queensland Herbarium’s “BioCondition Assessment Manual” determines that the PMLU has reached a BioCondition score of 20/60 as per Appendix 3 – BioCondition Benchmark Criteria. 7.10 Vegetation cover comprising litter and green vegetation >30%.

¹ Stable condition is defined by s111A of the *Environmental Protection Act 1994*.

² Grazing or low intensity grazing is not authorised in RA5.

		7.11 Species used in revegetation remain present and show evidence of natural recruitment. Grazing (RA3, RA4, RA6, RA7, RA8, RA10, RA11, RA12 and RA13) 7.12 Median species richness for grass, groundcover and shrub species >14 7.13 Median groundcover fraction as groundcover and small shrubs >5% 7.14 Median shrub cover >1% 7.15 Median pasture yield >1500kg/ha 7.16 3P pasture species >50% of estimated pasture yield.
RM8	Achievement of effective seepage management	8.1 No significant increase to phreatic levels after cessation of deposition. 8.2 Water quality measured quarterly at PSB2, TSFB2, TSFC01, and TSFC02 complies with Appendix 7 – Groundwater quality limits, for a period of five consecutive years immediately prior to the milestone completion date. 8.3 An AQP certifies achievement of RM8.1 and 8.2.
RM9	Achievement of post-mining land use to a stable condition	9.1 Safety hazards in the rehabilitation area are not significantly different to surrounding unmined landscapes subject to the same land use. 9.2 The final landform is structurally and erosionally stable. 9.3 Certification from an RPEQ that the domain has achieved stable condition. 9.4 Absence of regional significant environmental weeds and absence pasture weeds including toxic and unpalatable species. 9.5 Final landform survey confirms no built structures remain. 9.6 Surface water runoff complies with Appendix 4 – Surface water quality limits. 9.7 Any seepage from rehabilitated landform complies with Appendix 4 - Surface water quality limits. 9.8 Surface water quality results monitored monthly during flow at, <i>but not limited to</i>, downstream locations specified in Appendix 5 – Surface water monitoring locations, must not exceed the limits in Appendix 4 - Surface water quality limits, for a minimum of 5 consecutive years immediately prior to the milestone completion date.

		9.9 If the surface water quality exceeds criteria RM9.8, the applicable upstream site must be compared to the downstream site result; and quality result measured at a downstream site must be equal to or less than the quality result measured at the applicable upstream site³. 9.10 Groundwater quality must be monitored quarterly at, <i>but not limited to</i>, compliance bores/locations specified in Appendix 6 – Groundwater monitoring locations, for all quality characteristics listed in Appendix 7 – Groundwater quality limits. 9.11 Groundwater quality results must not exceed the limits in Appendix 7 – Groundwater quality limits, for 3 consecutive results, for a minimum of five consecutive years immediately prior to the milestone completion date. Grazing (RA3, RA4, RA6, RA7, RA8, RA10, RA11, RA12 and RA13) 9.12 Median species richness >14. 9.13 Median groundcover fraction as groundcover and small shrubs, excluding litter and rocks >30%. 9.14 Median functional cover as combined rock, littler, groundcover and small shrubs >50%. 9.15 Small shrub cover 1 - 10% point intercept when measured on 100m transects. 9.16 Tree and shrub cover (>2m) >3% in majority of monitoring plots, tree height >50% of reference plot median. 9.17 >50% established and self-sustaining vegetative groundcover of species as listed in Appendix 1 – Seed mix and application rate. 9.18 Minimum vegetation composition (per hectare (averaged)) of: (a) four species of 3P native pasture species; (b) two native legumes; and (c) two native shade tree species, present. Native Ecosystem (RA1, RA2 and RA9) 9.19 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's BioCondition Assessment Manual determine that the PMLU has reached a BioCondition score of 40/60 as per Appendix 3 – BioCondition Benchmark Criteria.
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³ For pH, the quality result measured at the downstream location must be within the prescribed range. However, where pH at the downstream location is greater-than (>) the highest limit in the range, the pH at the applicable upstream location must be greater-than or equal-to (≥) the downstream location. Conversely, where pH at the downstream location is less than (<) the lowest limit in the range, the upstream pH at the applicable upstream location must be less-than or equal-to (≤) the downstream location.

		Waste Encapsulation Facility with Native Grassland (RA5) 9.1 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's BioCondition Assessment Manual determine that the PMLU has reached a BioCondition score of 20/30 as per Appendix 3 – BioCondition Benchmark Criteria.
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Section F – Non-use management areas

(IA1) Improvement Area 1 – Little Eva Pit

Non-use Management Area (NUMA)			
Improvement area	IA1		
Relevant activities	Pits (Little Eva)		
Total size (ha)	Total = 112		
Commencement of first milestone:	10/12/2038		
NUMA	Void		
Date area is available	10/12/2038	10/12/2039	10/12/40
Cumulative area available (ha)	112	112	112
Milestone completed by	10/12/2039	10/12/2040	10/12/2045
Milestone Reference	Cumulative area achieved (ha)		
MM1	112		
MM2		112	
MM3			112

(IA2) Improvement Area 2 – Blackard Pit

Non-use Management Area (NUMA)			
Improvement area	IA2		
Relevant activities	Pits (Blackard)		
Total size (ha)	Total = 142		
Commencement of first milestone:	10/12/2042		
NUMA	Void		
Date area is available	10/12/2042	10/12/2043	10/12/4044
Cumulative area available (ha)	142	142	142
Milestone completed by	10/12/2043	10/12/2044	10/12/2049
Milestone Reference	Cumulative area achieved (ha)		
MM1	142		
MM2		142	
MM3			142

(IA3) Improvement Area 3 – Bedford North Pit, Bedford South Pit, Lady Clayre Pits

Non-use Management Area (NUMA)			
Improvement area	IA3		
Relevant activities	Pits (Bedford North Pit, Bedford South Pit, Lady Clayre Pits)		
Total size (ha)	Total = 83 Bedford North Pit = 22, Bedford South Pit = 17, Lady Clayre Pits (4 X Pits) = 44		
Commencement of first milestone:	10/12/2042		
NUMA	Void		
Date area is available	10/12/2043	10/12/2044	10/12/2045
Cumulative area available (ha)	83	83	83
Milestone completed by	10/12/2044	10/12/2045	10/12/2050
Milestone Reference	Cumulative area achieved (ha)		
MM1	83		
MM2		83	
MM3			83

Section G - Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Achievement of structural stability	1.1 The pit walls achieve a FoS ≥ 1.5 within the NUMA extents as recommended by an AQP. 1.2 Pit wall landforms must: a) Prevent surface or seepage flow of floodwater into the void; b) Be geotechnically stable; c) Not be constructed with dispersive material. 1.3 The final design for pit wall landforms must be completed by an AQP based on the latest flood modelling and materials data prior to construction. 1.4 All flood protection landforms and flood protection measures designed and constructed consistent with the findings of the flood risk assessment. 1.5 The location of the voids and associated flood protection landforms does not cause instability or degradation to the land outside the NUMA. 1.6 Floodwater ingress and water levels in the residual voids will not cause environmental harm and should be consistent with the findings of the flood risk assessment. 1.7 Residual voids must not overtop. 1.8 An AQP certifies achievement of MM1.1 to MM1.7.
MM2	Achievement of surface requirements	2.1 Competent safety bund established at the geotechnical set-back distance to prevent access to the residual void. 2.2 The safety bund is constructed from non-weathered, non-dispersive rockfill. 2.3 Flood velocity at bund toe does not exceed design tolerance i.e., 0.5 m/s unless suitably armoured. 2.4 Fencing is erected to prevent access to the residual void by persons and stock, around the perimeter of the safety bund. 2.5 Safety signs (design in accordance with Australian standard) are erected at a maximum of 100 metre intervals along the fence clearly warning of a safety risk and prohibiting public access. 2.6 Minimum separation between the residual void low-wall crest within the NUMA and the safety bund, or

		equivalent landform, in MM2.1 shall be maintained to achieve $FoS \geq 1.5$ and ensure long-term geotechnical stability, as recommended by an AQP. 2.7 An AQP certifies achievement of MM2.1 to MM2.6.
MM3	Achievement of sufficient improvement	3.1 The final landform has been constructed in accordance with the final design required in condition PRCP14. 3.2 The residual void is safe to humans and livestock. 3.3 The water level and quality in the void do not and will not cause environmental harm to the receiving environment, as demonstrated by groundwater level, surface water and groundwater quality monitoring and modelling. 3.4 An AQP demonstrates with water quality, water level and modelling data, that the residual voids act as groundwater sinks post-closure. 3.5 Voids retain flood immunity, supported by flood modelling re-run at end of life and calibrated against the final landform. 3.6 Erosion of the landform within the NUMA area will not negatively impact on the stability of any adjacent rehabilitation areas, or their ability to sustain their PMLU. 3.7 An AQP certifies achievement of MM3.1 to MM3.6

Section F – Appendices

Appendix 1 – Species list and seeding rates

Table 1. Native ecosystem revegetation species list

Species mix is applied consisting of the following:

12.3 Core species Mix: *Aristida contorta*, *Triodia pungens*, *Themeda triandra*, *Enneapogon spp*, *Eragrostis spp*, *Bothriochloa spp*, *Chrysopogon spp*, *Cymbopogon spp*, *Heteropogon contortus*, *Eulalia aurea*, *Acacia chisholmii*, *Senna notabilis*, *A. chippendalei*, *A. holosericea*, *Gossypium australe*, *A. hilliana*.

12.4 RA1, RA2: as core, plus *Acacia chisholmii*, *Senna notabilis*, *A. chippendalei*, *A. holosericea*, *Gossypium australe*, *A. hilliana*.

12.5 RA5: as core, plus *Aristida ingrata*, *Sporobolus australasicus*.

12.6 RA10: as core, plus *Eucalyptus leucophloia*, *Atalaya hemiglauca*, *E. pruinosa*, *E. leucophylla*, *Corymbia terminalis*.

Regional Ecosystem	Scientific Name	Common Name	Life form
1.5.4d	<i>Acacia cambagei</i>	Gidgee	Tree
1.11.3a	<i>Acacia chisholmii</i>	Turpentine bush	Shrub
1.11.2a	<i>Acacia spp</i>		Tree/Shrub
1.5.15	<i>Aristida contorta</i>	Mulga grass	Grass
1.5.15	<i>Aristida inaequiglumis</i>	Feathertop threeawn grass	Grass
1.11.3a and 1.5.4d	<i>Atalaya hemiglauca</i>	Whitewood	Tree
1.11.2a	<i>Brachychiton collinus</i>	Outcrop kurrajong	Tree
1.11.3a and 1.5.4d	<i>Corymbia aparrerinja</i>	Ghost gum	Tree
1.11.2a	<i>Corymbia capricornia</i>	Small-fruited bloodwood	Tree
1.11.3a; 1.5.4d and 1.11.2a	<i>Corymbia terminalis</i>	Northern bloodwood	Tree
1.11.3a; 1.5.4d and 1.11.2a	<i>Eucalyptus leucophylla</i>	Cloncurry box	Tree
1.11.3a; 1.5.4d and 1.11.2a	<i>Eucalyptus leucophloia</i>	Snappy gum	Tree
1.3.7b	<i>Eucalyptus camaldulensis</i>	River red gum	Tree
1.5.4d	<i>Grevillea striata</i>	Beefwood	Tree/Shrub

Regional Ecosystem	Scientific Name	Common Name	Life form
1.3.7b	<i>Lophostemon grandiflorus</i>	Freshwater Mangrove	Tree
1.3.7b	<i>Melaleuca bracteata</i>	Black tea-tree	Tree
1.3.7b	<i>Melaleuca dissitiflora</i>	Creek tea-tree	Tree
1.11.2a	<i>Terminalia aridicola</i>	Arid peach	Tree
1.11.3a and 1.11.2a	<i>Triodia pungens</i>	Soft spinifex	Grass
1.5.4d and 1.11.2a	<i>Triodia spp</i>	Spinifex	Grass

Table 2. Low intensity grazing revegetation species list.

Scientific name	Common Name	Life form
<i>Acacia chippendalei</i>	Chippendale's wattle	Shrub
<i>Acacia chisholmii</i>	Acacia chisholmii	Shrub
<i>Acacia hilliania</i>	Hill's tabletop wattle	Shrub
<i>Acacia holosericea</i>	Soapbush wattle	Shrub
<i>Aristida contorta</i>	Mulga grass	Grass
<i>Atalaya hemiglauca</i>	Whitewood	Tree
<i>Bothriochloa spp</i>	Bluegrass	Grass
<i>Chrysopogon spp</i>		Grass
<i>Corymbia terminalis</i>	Northern bloodwood	Tree
<i>Enneapogon spp</i>	Bottle washers	Grass
<i>Eragrostis spp</i>	Lovegrass	Grass
<i>Eucalyptus leucophloia</i>	Snappy gum	Tree
<i>Eucalyptus leucophylla</i>	Cloncurry box	Tree
<i>Eucalyptus pruinosa</i>	Silver box	Tree

Scientific name	Common Name	Life form
<i>Eulalia aurea</i>	Water grass	Grass
<i>Gossypium australe</i>		Shrub
<i>Heteropogon contortus</i>	Black speargrass	Grass
<i>Senna notabilis</i>	Cockroach bush	Shrub
<i>Themeda triandra</i>	Kangaroo grass	Grass
<i>Triodia pungens</i>	Soft spinifex	Grass

Appendix 2 – Erosion classification framework

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope.	Loss of surface horizon; subsoil exposure; root exposure; substantial soil deposits downslope.
Rill*	<15 rills/100m	15-30 rills/100m	>30 rills/100m
Gully erosion	Absent	Absent	Present
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

Notes:

Erosion form definitions: NCST (2024) Australian Soil and Land Survey Field Handbook, 4th edition. The National Committee on Soil and Terrain. CSIRO Publishing, Collingwood, Australia.

* Rill frequency assessed on the contour over entirety of rehabilitation area (not only features that intersect a monitoring transect).

Appendix 3 – BioCondition Benchmark Criteria

Regional Ecosystem		Regional Ecosystem 1.11.3a/1.11.2a (hybrid) Benchmark	Modified 1.11.3a/1.11.2a hybrid benchmark – Native Ecosystem for 10 years - RM7	Modified 1.11.3a/1.11.2a hybrid benchmark – Native Ecosystem for 15 years - RM9	Modified benchmark for grass/shrub 1.11.3a/1.11.2a hybrid RM7	Modified benchmark for grass/shrub - Low Intensity Grazing 1.11.3a/1.11.2a hybrid RM9
BioCondition attribute	Weighting					
Non-native plant cover (%)	10	0	10%	10%	10%	10%
Dominant canopy species present as regeneration	5	100	100	100	NA	NA
Tree height m	5	6m	3m	5m	NA	NA
Native tree species richness	5	3	3	3	NA	NA
Native shrub species richness	5	3/5 - 4sp	3	3	4	4
Grass species richness*	5	5/8 - 6sp	5	5	5	5
Forbs and other species richness*	5	8/12 - 10 sp	8	8	8	8
Native tree canopy cover (%)	5	9/12 - 10.5%	3%	6%	NA	NA
Native shrub canopy cover (%)	5	14/18 - 16%	5%	10%	5%	10%
Native perennial grass cover (%)	5	44/56 - 50%	30%	40%	30%	40%
Organic litter ground cover (%)	5	6/5 - 5.5%	1%	4%	1%	4%
Overall score required	60		20/60	40/60	15/40	25/40

Appendix 4 - Surface water quality limits

Quality characteristic (units)	Limit			Comment on limit
	Cabbage Tree Creek	Lower Dugald River	Upper Dugald River	
pH	7.0-8.5	7.0-8.5	7.0-8.5	Site-specific
Electrical Conductivity (µS/cm)	628	1,120	912	Site-specific – 95 th percentile of data
Turbidity (NTU)	89	75	40	Site-specific – 95 th percentile of data
Sulphate (mg/L)	16	41	40	Site-specific – 95 th percentile of data
Fluoride (mg/L)	0.5	0.5	0.5	Site-specific – 95 th percentile of data
Aluminium - dissolved (µg/L)*	66	140	72	Site-specific – 80 th percentile of data
Arsenic - dissolved (µg/L)	13	13	13	ANZG 2018
Cadmium - dissolved (µg/L)	0.2	0.2	0.2	ANZG 2018
Chromium – dissolved (µg/L)	1	1	1	ANZG 2018
Cobalt - dissolved (µg/L)	1.4	1.4	1.4	ANZG 2018
Copper - dissolved (µg/L)	6	6	6	Site-specific – 95 th percentile of data
Iron - total (µg/L)	280	195	280	ANZG 2018
Lead - dissolved (µg/L)	3.4	3.4	3.4	ANZG 2018
Manganese - dissolved (µg/L)	105	85	78	Site-specific – 95 th percentile of data
Mercury - dissolved (µg/L)	0.6	0.6	0.6	ANZG 2018
Molybdenum - dissolved (µg/L)	7	7	7	Site-specific – 95 th percentile of data
Nickel - dissolved (µg/L)	11	11	11	ANZG 2018
Selenium - total (µg/L)	5	5	5	ANZG 2018
Silver - dissolved (µg/L)	0.05	0.05	0.05	ANZG 2018
Uranium - dissolved (µg/L)	5	9	7	Site-specific – 95 th percentile of data
Zinc- dissolved (µg/L)	11	14	25	Site-specific – 95 th percentile of data
Total recoverable hydrocarbons (C6-C9) (µg/L)	20	20	20	
Total recoverable hydrocarbons (C10-C36) (µg/L)	100	100	100	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes			
Hardness (mg/L)	For interpretation purposes			

Notes:

* Interim limit value to be revised in accordance with Condition PRCP14.

- All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).
- Limits for metals and metalloids apply to dissolved results. Except selenium
- ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)

Appendix 5 – Receiving environment surface water monitoring locations

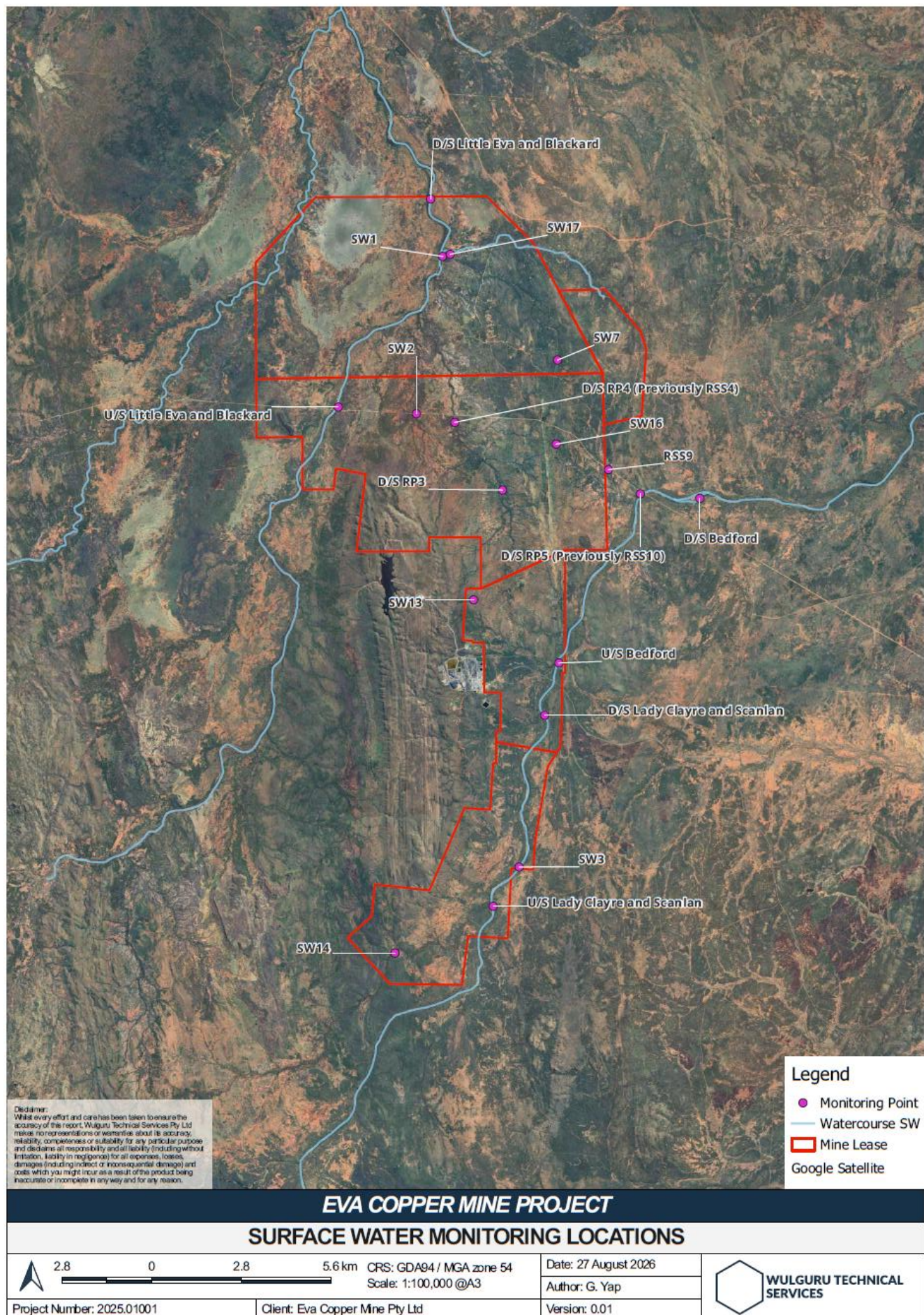
Monitoring Locations	Mining area	Waterway description	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
Upstream monitoring sites – Cabbage Tree Creek catchment				
U/S Little Eva and Blackard ^{1, 2}	Little Eva and Turkey Creek, plus primary processing assets	Cabbage Tree Creek	-20.174445	140.1166463
SW2 ²	Little Eva and Turkey Creek, plus primary processing assets	(Tributary to) Blackard Creek	-20.176449	140.1399657
SW7 ²	Turkey Creek	(Tributary to) Diorite Creek	-20.16148	140.1822939
SW13 ²	Blackard	(Tributary to) Blackard Creek	-20.2291093	140.1567737
Upstream monitoring sites – Dugald River catchment				
Lower Dugald River				
U/S Bedford ²	Bedford	Dugald River	-20.247057	140.1822682
SW16 ²	Bedford	Dugald River Tributary	-20.185232	140.1817681
Upper Dugald River				
U/S Lady Clayre and Scanlan ^{1, 2}	Lady Clayre and Scanlan	Dugald River	-20.315688	140.162225
SW14 ²	Lady Clayre and Scanlan	Dugald River Tributary	-20.328754	140.1327088
Downstream monitoring sites – Cabbage Tree Creek catchment				
D/S Little Eva and Blackard ^{1, 2}	Little Eva and Turkey Creek, plus primary processing assets	Cabbage Tree Creek	-20.115805	140.1445737
SW1 ²	Little Eva and Turkey Creek, plus primary processing assets	Cabbage Tree Creek	-20.132041	140.1480443
SW17 ²	Little Eva and Turkey Creek	Diorite Creek	-20.1314472	140.1503435
D/S RP3 ²	Blackard	Blackard Creek	-20.1981501	140.1656309
D/S RP4 (Previously RSS4) ²	Blackard	Blackard Creek	-20.1789446	140.1514645
Downstream monitoring sites – Dugald River catchment				
Lower Dugald River				
D/S Bedford ²	Bedford	Dugald River	-20.200742	140.2246332
RSS9 ²	Bedford	Dugald River Tributary	-20.192533	140.1973494
D/S RP5 (Previously RSS10) ²	Bedford	Dugald River Tributary	-20.199407	140.2068279
Upper Dugald River				
D/S Lady Clayre and Scanlan ^{1, 2}	Lady Clayre and Scanlan	Dugald River	-20.261847	140.1779012
SW3 ²	Lady Clayre and Scanlan	Dugald River	-20.304657	140.1700134

Note:

1: Coordinates are consistent with those presented in EA EPML00899613 for this monitoring location in GDA2020 MGA Zone 54

2: Coordinates are consistent with those presented in the ECMLP Receiving Environment Monitoring Program Design Document for this location in GDA2020 MGA Zone 54.

Figure 3. Receiving Environment Surface water monitoring locations



Appendix 6 – Groundwater monitoring locations

Bore	Mining area	Hydrostratigraphic unit	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
Bedford				
BEDC01	Bedford	Proterozoic rock (AQ6)	-20.20094713	140.1918411
BEDC02	Bedford	Proterozoic rock (AQ6)	-20.18289035	140.1852638
BEDC03	Bedford	Proterozoic rock (AQ6)	-20.18847303	140.1927859
BEDC04	Bedford	Proterozoic rock (AQ6)	-20.19749734	140.1922513
BEDC05	Bedford	Proterozoic rock (AQ6)	-20.19407865	140.1955039
BEDI01	Bedford	Proterozoic rock (AQ6)	-20.188418	140.1808806
Blackard				
BCRC01	Blackard	Proterozoic rock (AQ6)	-20.18686763	140.1549531
BCRC02	Blackard	Proterozoic rock (AQ6)	-20.19531838	140.1629949
BCRC03	Blackard	Proterozoic rock (AQ6)	-20.20600138	140.1673789
BCRC04	Blackard	Proterozoic rock (AQ6)	-20.21889876	140.1719146
BCRC05	Blackard	Proterozoic rock (AQ6)	-20.21108417	140.1588809
BCRC06	Blackard	Proterozoic rock (AQ6)	-20.20458829	140.145937
BCRC07	Blackard	Proterozoic rock (AQ6)	-20.19307077	140.1484212
BCRC08	Blackard	Proterozoic rock (AQ6)	-20.22698282	140.173212
BCRC09	Blackard	Proterozoic rock (AQ6)	-20.23538787	140.169769
BCR474 (until bore is lost during operations)	Blackard	Proterozoic rock (AQ6)	-20.195211	140.159375
Graben				
NBC01	Graben	Alluvium (AQ1)	-20.11077787	140.1438262
NBC02	Graben	Alluvium (AQ1)	-20.1156392	140.1419822
NBMB008	Graben	Wallumbilla Fm (AT1)	-20.119741	140.1432391
Lady Clayre				
LC048	Lady Clayre	Proterozoic rock (AQ6)	-20.32712343	140.1350021
LCC01	Lady Clayre	Proterozoic rock (AQ6)	-20.31771061	140.1322627
LCC02	Lady Clayre	Proterozoic rock (AQ6)	-20.32205268	140.1461274
LCC03	Lady Clayre	Proterozoic rock (AQ6)	-20.32291436	140.1394272
LCI01	Lady Clayre	Proterozoic rock (AQ6)	-20.314889	140.1428144
Little Eva				

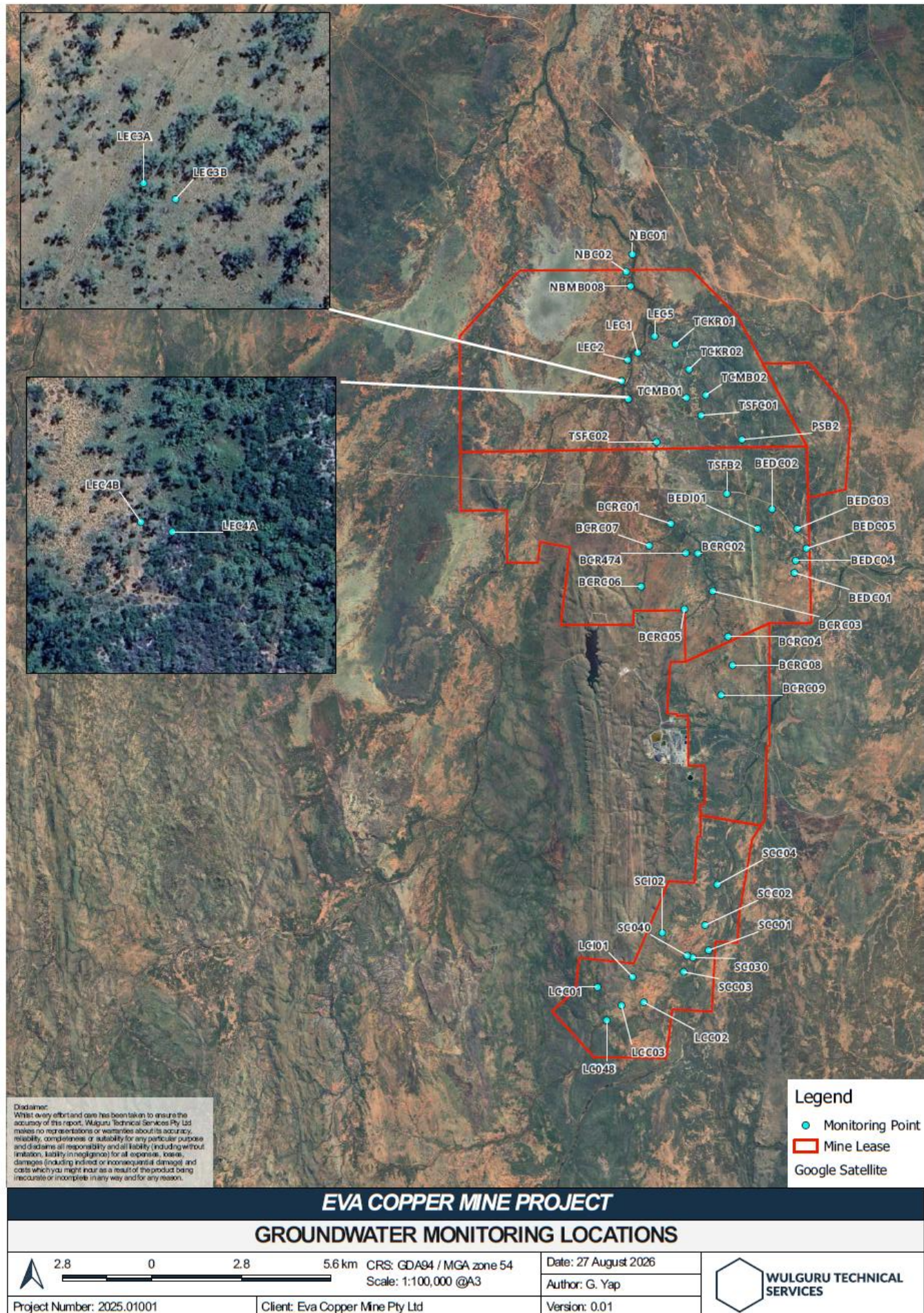
Bore	Mining area	Hydrostratigraphic unit	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
LEC1	Little Eva	Proterozoic rock (AQ6)	-20.13857031	140.1453491
LEC2	Little Eva	Kajabbi Fm limestone (AQ3)	-20.14056136	140.1422863
LEC3A	Little Eva	Alluvium (AQ1)	-20.14645214	140.1403214
LEC3B	Little Eva	Graben sediments –TBA	-20.14651604	140.140455
LEC4A	Little Eva	Alluvium (AQ1)	-20.15163137	140.142532
LEC4B	Little Eva	Proterozoic rock (AQ6)	-20.15158544	140.1423792
LEC5	Little Eva	Proterozoic rock (AQ6)	-20.13389625	140.150426
PSB2	Little Eva	Proterozoic rock (AQ6)	-20.16324117	140.176352
TSFB2	Little Eva	Proterozoic rock (AQ6)	-20.17850815	140.1717549
TSFC02	Little Eva	Proterozoic rock (AQ6)	-20.16380646	140.1508
Scanlan				
SC030	Scanlan	Proterozoic rock (AQ6)	-20.30948308	140.160883
SC040	Scanlan	Proterozoic rock (AQ6)	-20.3089277	140.1591785
SCC01	Scanlan	Proterozoic rock (AQ6)	-20.30746373	140.1655927
SCC02	Scanlan	Proterozoic rock (AQ6)	-20.30035696	140.1645964
SCC03	Scanlan	Proterozoic rock (AQ6)	-20.31351799	140.1581277
SCC04	Scanlan	Proterozoic rock (AQ6)	-20.28890843	140.168316
SCI02	Scanlan	Proterozoic rock (AQ6)	-20.302446	140.1517419
Turkey Creek				
TCMB01	Turkey Creek	Proterozoic rock (AQ6)	-20.15136204	140.1597657
TCMB02	Turkey Creek	Proterozoic rock (AQ6)	-20.15060384	140.165635
TSFC01	Turkey Creek	Proterozoic rock (AQ6)	-20.15632581	140.1642172
TCKR01	Turkey Creek	Proterozoic rock (AQ6)	-20.136185	140.1566277
TCKR02	Turkey Creek	Proterozoic rock (AQ6)	-20.1432881	140.160622

Notes:

Levels only for regulatory purposes. Groundwater quality should also be collected to validate graben conceptualisation.

Future bore – Location and associated details to be provided to the administering authority six (6) months prior to the commencement of mining activities in each mining area. Monitoring bores must be installed to allow for monitoring to begin at least 24 months prior to the commencement of mining activities in each mining area as per Condition PRCP13.

Figure 4. Groundwater monitoring locations



Appendix 7 – Groundwater quality limits

Table 7.1 - Site-specific Groundwater quality limits

Quality characteristic (units)	Limit *			Comment on limit
	Other - Wallumbilla Fm (AT1), Kajibbi Fm limestone (AQ3), Graben sediments	Alluvium (AQ1)	Proterozoic rock (AQ6) - All	
pH (pH units)	6.5 – 8.5	6.5 – 8.5	6.5 – 8.5	Site-specific
Electrical conductivity (µS/cm)*	2,600	2,104	2,180	Site-specific – 80 th percentile of all bore data
Sulfate (mg/L)*	162	452	130	Site-specific – 80 th percentile of all bore data
Fluoride (mg/L)*	1.1	1.2	2.2	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Aluminium - dissolved (µg/L)	55	55	30	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Arsenic - dissolved (µg/L)	13	13	13	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Cadmium - dissolved (µg/L)	0.2	0.2	0.2	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Chromium- dissolved (µg/L)	1	1	1	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Cobalt - dissolved (µg/L)	1.4	1.4	1.4	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Copper - dissolved (µg/L)*	15	5	20	Site-specific – 95 th percentile of all bore data, except BCR474 and SC030
Iron – dissolved (µg/L)	280	280	280	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Lead - dissolved (µg/L)	3.4	3.4	2	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Manganese - dissolved (µg/L)*	500	68	543	Site-specific
Mercury - dissolved (µg/L)	0.6	0.6	0.5	Site-specific
Molybdenum - dissolved (µg/L)*	20	5	24	Site-specific
Nickel - dissolved (µg/L)	11	6	2	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Selenium - dissolved (µg/L)*	10	5	10	Site-specific – 95 th percentile of all bore data except SC030
Silver - dissolved (µg/L)	0.05	0.05	0.05	Site-specific, except for Graben, AT1 and AQ3 bores - ANZG
Uranium - dissolved (µg/L)*	31	25	41	Site-specific – 95 th percentile of all bore data, except BC474 and SC030
Zinc- dissolved (µg/L)*	170	225	150	Site-specific – 95 th percentile of all bore data.
Major ions (mg/L) - Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes			
Hardness (mg/L)	For interpretation purposes			
Water level (mAHD)	For interpretation purposes			

Notes:

All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered). Limits for metals and metalloids apply to dissolved results.

Limits are derived from the 95th percentile or 80th percentile of site-specific data or Default Guideline Values - ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection).

* Unless bore-specific values are provided in table below.

Table 7.2 – Bore-specific Groundwater quality limits

Quality characteristic (units)	Blackard	Scanlan
	Proterozoic rock (AQ6)	Proterozoic rock (AQ6)
	BCR474	SC030
Electrical Conductivity (µS/cm)	3,940	4,645
Sulfate (mg/L)	307	939
Fluoride (mg/L)	6	1.3
Copper - dissolved (µg/L)	248	412
Manganese - dissolved (µg/L)	132	65
Molybdenum - dissolved (µg/L)	12	10
Selenium - dissolved (µg/L)	-	18
Uranium - dissolved (µg/L)	77	66
Zinc - dissolved (µg/L)	35	164

END OF PRCP SCHEDULE