

PRCP schedule

Environmental Protection Act 1994

PRCP schedule P-PRCP-100905005

Mt Cuthbert Project

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

PRCP schedule: P-PRCP-100905005

PRCP schedule holder(s)

Name(s)	Registered address
Materra Metals Limited	28 Halifax St ADELAIDE SA 5000

Location details

Location(s)
Land description: Mining Lease (ML) ML2492, ML2494, ML2635, ML2636, ML2705, ML2706, ML2708, ML2715, ML2747, ML100152, ML2748, ML2784, ML7520, ML90066, ML90090, ML90091, ML90092, ML90101, ML90141, ML90142, ML90154

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

1 September 2026

Date

Juliana McCosker

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.

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- Non-use management areas.
- Section F- Appendices

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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; 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:

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	(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 make and keep up to date any evidence and/or records on which the holder relies on to demonstrate the achievement of each rehabilitation milestone criteria in this schedule. Records must be sufficient to demonstrate that these rehabilitation achievements are maintained 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 <i>'Eligibility criteria and standard conditions for exploration and mineral development projects'</i> or its successor, with the exception that land must be rehabilitated to a stable condition that includes achieving the relevant post mining land use for the disturbance location as detailed in Figures 1 to 13 (inclusive): Final site designs and land use .
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.
PRCP 11	By 31 December 2026, the holder must, submit to the administering authority landform designs supported by site-specific investigations, erosion assessment and landform evolution modelling. The works must include: (a) site-specific characterisation of materials, including measured erodibility parameters; and (b) erosion and landform evolution modelling undertaken using appropriate and industry-accepted methodologies; and (c) calibration and validation of modelling using site-specific data, where available; and

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	(d) justification of the erosion performance criteria, landform stability objectives and modelling inputs/assumptions appropriate to the level of risk of modelled landforms; and (e) assessment under representative climatic conditions and relevant design scenarios; and (f) prediction of erosion rates and landform evolution over time; and (g) demonstrate that the landform(s) will achieve a stable condition, remain safe and non-polluting, and support the approved PMLU; and (h) demonstrate that ongoing maintenance, beyond that anticipated for the final land use, will not be required.
PRCP 12	By 31 December 2026, the holder must submit to the administering authority a flood risk assessment for the following final landform features that, at a minimum, covers the following voids and water bodies at Mt Cuthbert Mine: Crusader Pit, Mount Cuthbert Pit, Orphan WRD adjoining landforms, and Mount Watson Pit. The flood risk assessment must: a) Be prepared by an AQP; and b) Assess flooding for at a minimum 0.1% AEP and PMF events—run for both empty and ponded conditions, and account for interactions with interacting waterways and local catchments; and c) Incorporate climate-change scenarios in flood estimation in accordance with ARR 2019. d) Document the assessment and demonstrate how the design of flood protection measures will prevent serious environmental harm to the receiving environment under all potential flood events; and e) Provide risk-proportionate design requirements for any measures required to prevent water ingress into residual voids; and to prevent erosion, scouring and instability of diversions and levees; and f) Demonstrate that the proposed design achieves hydraulic stability, erosion resistance and geotechnical integrity consistent with the risk level identified in the assessment.
PRCP13	By 30 June 2027, the holder must, submit to the administering authority updated and contemporary numerical groundwater modelling and associated hydrogeological assessment for long-term post-mining condition for Mt Cuthbert, Crusader and Mt Watson sites. The predictive groundwater modelling in accordance with the Australian Groundwater Modelling Guidelines, current version at the time of assessment, must: a) predict long-term groundwater drawdown, recovery and equilibrium levels associated with the final landform configuration and residual voids; and b) demonstrate that residual voids will not cause in environmental harm through mobilisation or off-site migration of contaminants beyond the mining tenure boundary post-closure; and c) demonstrate that existing or potential groundwater users will not be subject to unacceptable impacts; and d) provide transient modelling results that demonstrate progression to steady-state conditions; and

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	e) demonstrate that residual voids will function as long-term groundwater sinks under post-mining conditions, consistent with the final landform and completion criteria. An up-to-date closure groundwater model must be: 1. Calibrated once data becomes available; and 2. Maintained with predictions rerun at least every five years, or a frequency agreed by the administering authority.		
PRCP14	By 30 June 2027, the holder must submit to the administering authority updated void water balance and void water quality assessment. The assessment is to incorporate outcomes of PRCP12 and PRCP 13 and must: (a) incorporate all relevant inflows, including direct rainfall, runoff, groundwater interaction (where applicable), and external inflows from surrounding catchments; and (b) explicitly include flood ingress contributions from extreme and rare flood events, including at a minimum the 0.1% annual exceedance probability (AEP) event and probable maximum flood (PMF); and (c) account for both transient flood ponding and cumulative floodwater accumulation within each void; and (d) assess the potential for overtopping of each void under flood-adapted water balance scenarios, including appropriate consideration of inflow timing, magnitude and duration; and (e) include sensitivity analysis influencing void water levels and flood ingress, including inflow assumptions and climatic variability; and (f) demonstrate that each void has sufficient hydraulic capacity to accommodate flood-related inflows without overtopping under modelled extreme and rare event scenarios; and (g) incorporate hydrogeological and geochemical modelling, to predict long-term water quality, including stratification where applicable, for each void; and (h) demonstrate long-term balance/equilibrium within each void system. The assessment must demonstrate consistency with the final landform configuration and void closure plan.		
	Notes: 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.		
PRCP15	The holder must undertake site-specific waste characterisation for all materials to be disturbed by the dates specified in Table 1, for the relevant site unless otherwise approved in writing by the administering authority. <i>Table 1: Waste characterisation</i> <table> <tr> <th>Site</th><th>Deadline</th></tr> </table>	Site	Deadline
Site	Deadline		

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	<table> <tr> <td>Mt Watson</td><td>December 2029</td></tr> <tr> <td>Dobbyn</td><td>December 2035</td></tr> <tr> <td>Mt Cuthbert</td><td>December 2038</td></tr> <tr> <td>Warwick Castle</td><td>December 2041</td></tr> <tr> <td>Orphan</td><td>December 2044</td></tr> <tr> <td>Crusader</td><td>December 2047</td></tr> </table>	Mt Watson	December 2029	Dobbyn	December 2035	Mt Cuthbert	December 2038	Warwick Castle	December 2041	Orphan	December 2044	Crusader	December 2047
Mt Watson	December 2029												
Dobbyn	December 2035												
Mt Cuthbert	December 2038												
Warwick Castle	December 2041												
Orphan	December 2044												
Crusader	December 2047												
	Commencement of mining is scheduled as follows: 1. Mt Watson, December 2031, 2. Dobbyn, December 2037, 3. Mt Cuthbert, December 2040 4. Warwick Castle, December 2043 5. Orphan, December 2046, 6. Crusader, December 2049 Waste characterisation must be undertaken by a SQP and must be sufficient to determine the physical behaviour and chemical reactivity of all waste materials, including geochemical properties relevant to acid and metalliferous drainage potential, spontaneous combustion risk, contaminant mobilisation, and long-term stability. The waste characterisation must: a) be site-specific and representative of materials to be disturbed at each site; and b) include geochemical testing and interpretation of overburden, waste rock and other mine-sourced materials; and c) be sufficient to support predictive understanding of material behaviour under proposed rehabilitation and post-mining landform conditions.												
	The holder must demonstrate, based on the waste characterisation, that: 1. rehabilitation milestone criteria are appropriate, achievable and suitable for the approved PMLUs; and 2. proposed waste management strategies (including placement, encapsulation, subaqueous disposal or void emplacement where relevant) will not result in environmental harm.												
PRCP16	The holder must undertake site-specific cover design study for all waste facilities by the dates specified in Table 2, for the relevant site unless otherwise approved in writing by the administering authority. <i>Table 2: Site specific cover design</i> <table> <tr> <th>Site</th><th>Deadline</th></tr> <tr> <td>Mt Watson</td><td>December 2033</td></tr> <tr> <td>Dobbyn</td><td>December 2039</td></tr> <tr> <td>Mt Cuthbert</td><td>December 2042</td></tr> </table>	Site	Deadline	Mt Watson	December 2033	Dobbyn	December 2039	Mt Cuthbert	December 2042				
Site	Deadline												
Mt Watson	December 2033												
Dobbyn	December 2039												
Mt Cuthbert	December 2042												

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	Warwick Castle	December 2045														
	Orphan	December 2048														
	Crusader	December 2051														
	The site-specific cover design study must be undertaken by an AQP and must be: a) based on site-specific waste characterisation (refer PRCP15); and b) appropriate for the nature and geochemical risk profile of the waste materials to be contained; and c) demonstrated as suitable for the site-specific climatic, geochemical and geotechnical conditions; and d) demonstrated, through modelling, field trials, column testing or equivalent evidence, that the proposed cover system will achieve appropriate performance targets; and. e) re-evaluated where necessary to ensure it is appropriate to the level of risk associated with the final landform and waste materials, and that it will not result in environmental harm.															
PRCP17	The holder must undertake a subsidence assessment for Crusader by December 2050, unless otherwise approved in writing by the administering authority. The subsidence assessment must, at a minimum, provide: a) details on underground workings associated with the portal and adjacent infrastructure and extents/continuity of backfill; and b) material properties and specifications for backfill materials; and c) analysis and, where required, predictive modelling to demonstrate that post-backfill ground conditions are stable and not susceptible to subsidence mechanisms; and d) assessment of any potential residual deformation and confirmation that any surface expression will be consistent with achievement of a safe, stable and non-polluting final landform.															
PRCP18	By the dates specified in Table 3, for the relevant site, the holder must provide to the administering authority a landform closure design report, which includes detailed engineering designs for each relevant structure, and flood protection features (0.1% AEP event) which demonstrate the landform will achieve long-term stability. The landform closure design report is to be developed and certified by a RPEQ. The holder must implement the landform designs approved by the administering authority. <i>Table 3: Landform closure design</i> <table><tr><th>Site</th><th>Deadline</th></tr><tr><td>Mt Watson</td><td>December 2036</td></tr><tr><td>Dobbyn</td><td>December 2042</td></tr><tr><td>Mt Cuthbert</td><td>December 2045</td></tr><tr><td>Warwick Castle</td><td>December 2048</td></tr><tr><td>Orphan</td><td>December 2051</td></tr><tr><td>Crusader</td><td>December 2054</td></tr></table>		Site	Deadline	Mt Watson	December 2036	Dobbyn	December 2042	Mt Cuthbert	December 2045	Warwick Castle	December 2048	Orphan	December 2051	Crusader	December 2054
Site	Deadline															
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PRCP19	The landform closure design report required in PRCP18 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 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 (QA/QC) required during construction; and (e) How the cover system achieves a performance outcome equivalent to the design provided in the PRCP16; and (f) How the cover system 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.
PRCP20	The documents required under PRCP18 (detailed in PRCP19) must be independently peer reviewed. Both the AQP and independent peer reviewer must provide a certification that the landform closure design report is: (a) fit for purpose; and (b) prepared in accordance with relevant Australian standards; and (c) if constructed as per the landform closure design report the rehabilitated landform will achieve a stable condition in a post-closure context.
PRCP21	The currency of the landform closure design report must be maintained, and the report updated as often as necessary, to ensure that the relevant structures will achieve a stable condition that can be sustained.

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	Where the report has been updated, the certifications provided under PRCP20 must also be provided in relation to the updates.														
PRCP22	By the dates specified in Table 4, for the relevant site, the holder must: (a) review the suitability of the groundwater monitoring locations identified as 'TBD' (Appendix 6) and, where necessary, update to the groundwater monitoring locations for the relevant site; and (b) review available monitoring data and verify suitability of site-specific groundwater quality limits for parameters identified in Appendix 7. The holder must apply to amend the PRCP Schedule to address (a) and (b) supported by an AQP assessment. <i>Table 4: Groundwater monitoring locations review</i> <table> <tr> <th>Site</th><th>Deadline</th></tr> <tr> <td>Mt Watson</td><td>December 2030</td></tr> <tr> <td>Dobbyn</td><td>December 2036</td></tr> <tr> <td>Mt Cuthbert</td><td>December 2039</td></tr> <tr> <td>Warwick Castle</td><td>December 2042</td></tr> <tr> <td>Orphan</td><td>December 2045</td></tr> <tr> <td>Crusader</td><td>December 2048</td></tr> </table>	Site	Deadline	Mt Watson	December 2030	Dobbyn	December 2036	Mt Cuthbert	December 2039	Warwick Castle	December 2042	Orphan	December 2045	Crusader	December 2048
Site	Deadline														
Mt Watson	December 2030														
Dobbyn	December 2036														
Mt Cuthbert	December 2039														
Warwick Castle	December 2042														
Orphan	December 2045														
Crusader	December 2048														
PRCP 23	By the dates specified in Table 5, for the relevant site, the holder must undertake, updated and contemporary numerical groundwater modelling and associated hydrogeological assessment for long-term post-mining condition and provide to the administering authority on request : <i>Table 5: Groundwater modelling</i> <table> <tr> <th>Site</th><th>Deadline</th></tr> <tr> <td>Dobbyn</td><td>December 2036</td></tr> <tr> <td>Warwick Castle</td><td>December 2042</td></tr> <tr> <td>Orphan</td><td>December 2045</td></tr> </table> The predictive groundwater modelling in accordance with the Australian Groundwater Modelling Guidelines, current version at the time of assessment, must: a) predict long-term groundwater drawdown, recovery and equilibrium levels associated with the final landform configuration and residual voids; and b) demonstrate that residual voids will not cause in environmental harm through mobilisation or off-site migration of contaminants beyond the mining tenure boundary post-closure; and c) demonstrate that existing or potential groundwater users will not be subject to unacceptable impacts; and d) provide transient modelling results that demonstrate progression to steady-state conditions; and	Site	Deadline	Dobbyn	December 2036	Warwick Castle	December 2042	Orphan	December 2045						
Site	Deadline														
Dobbyn	December 2036														
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	e) demonstrate that residual voids will function as long-term groundwater sinks under post-mining conditions, consistent with the final landform and completion criteria.
	An up-to-date closure groundwater model must be: 1. Calibrated once data becomes available; and 2. Maintained with predictions rerun at least every five years, or a frequency agreed by the administering authority.

END OF CONDITIONS

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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

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	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. means vegetation occurring naturally within Regional Ecosystems XX and/or listed in the relevant Regional Ecosystem technical description.
Native	means vegetation occurring naturally within Regional Ecosystems XX 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 Waste Rock Dumps (WRDs) and Heap Leach Facilities.
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.

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Section C - Final site design and reference maps

Final site designs and land use | Scheduled for Mining

Figures 1 to 6 (inclusive)

Figure 1: Final site designs and land use | Mt Cuthbert (ML2747, ML2748, ML90090)

Figure 2: Final site designs and land use | Crusader (ML2706, ML2708, ML100152)

Figure 3: Final site designs and land use | Mt Watson (ML90154)

Figure 4: Final site designs and land use | Dobbryn (ML2705)

Figure 5: Final site designs and land use | Warwick Castle (ML7520, ML90092)

Figure 6: Final site designs and land use | Orphan (ML2635, ML2636, ML2715)

Figures 7 to 13 (inclusive)

Figure 7: Final site designs and land use | Mighty Atom (ML90141)

Figure 8: Final site designs and land use | Leichardt (ML90066)

Figure 9: Final site designs and land use | Hidden Treasure (ML2784, ML2492)

Figure 10: Final site designs and land use | Ned Kelly (ML90142)

Figure 11: Final site designs and land use | Standy (ML90101)

Figure 12: Final site designs and land use | Sparklet (ML2494)

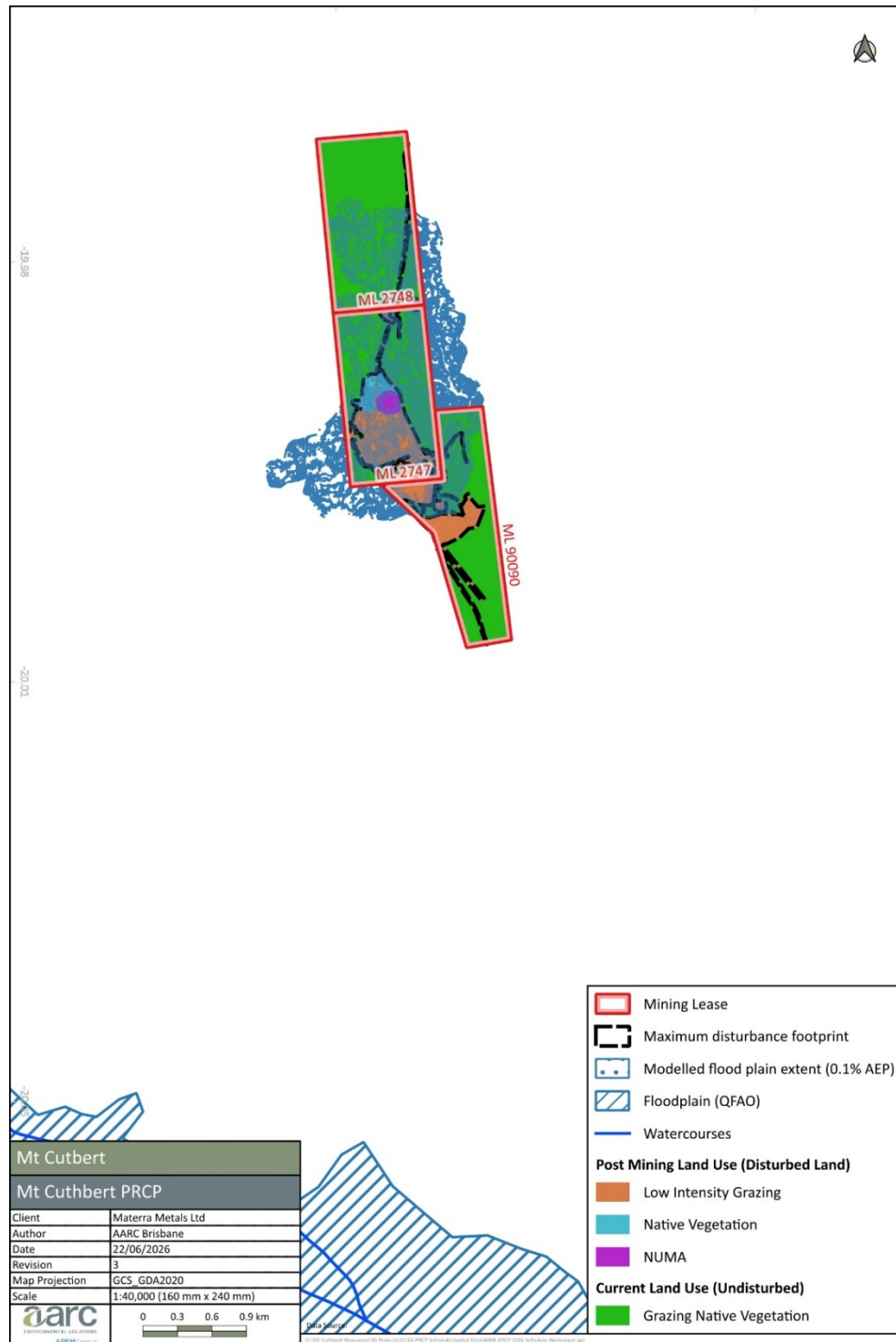
Figure 13: Final site designs and land use | Borefield (ML90091)

Final site designs and land use | Scheduled for Mining

Figures 1 to 6 (inclusive)

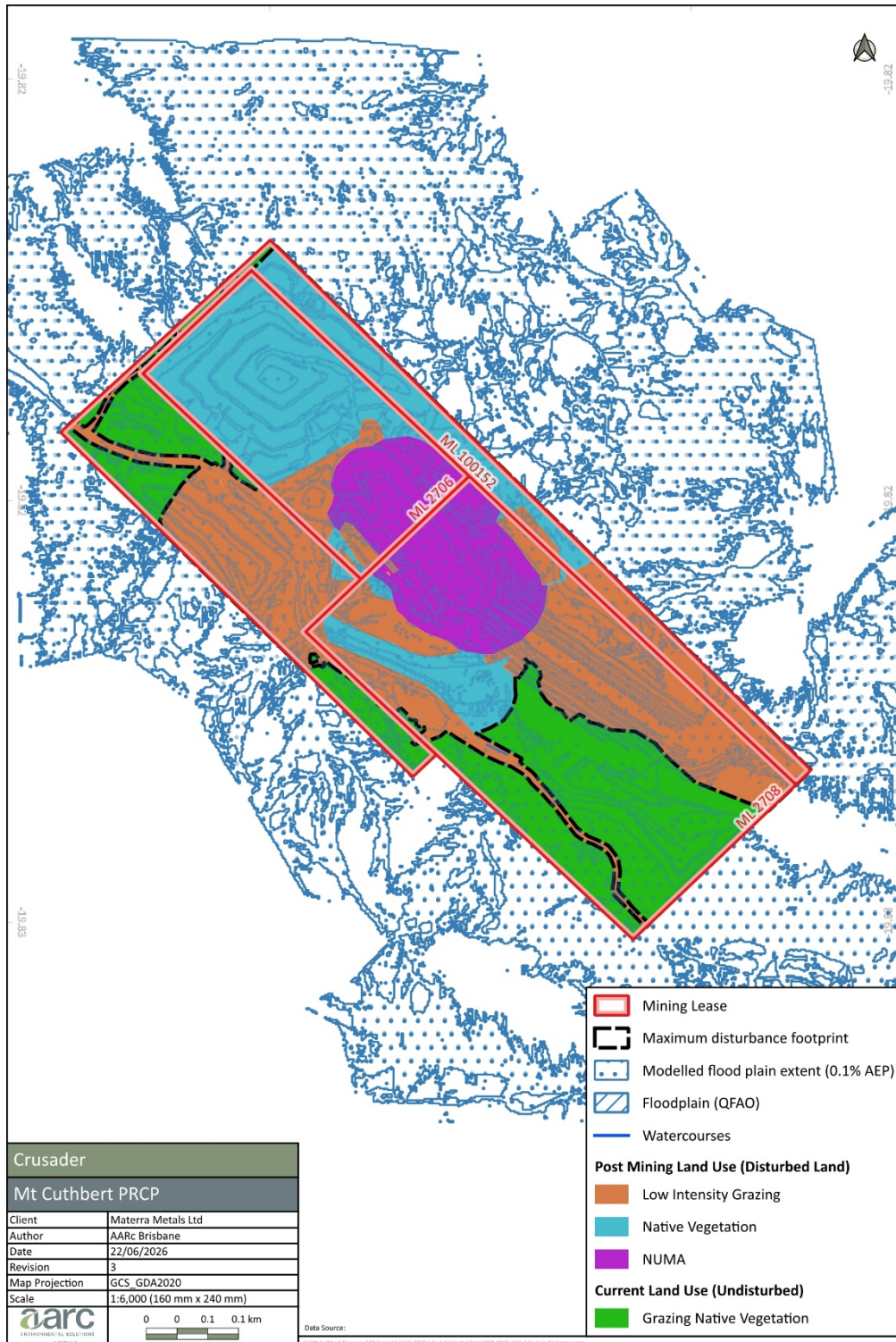
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Figure 1: Final site designs and land use | Mt Cuthbert (ML2747, ML2748, ML90090)



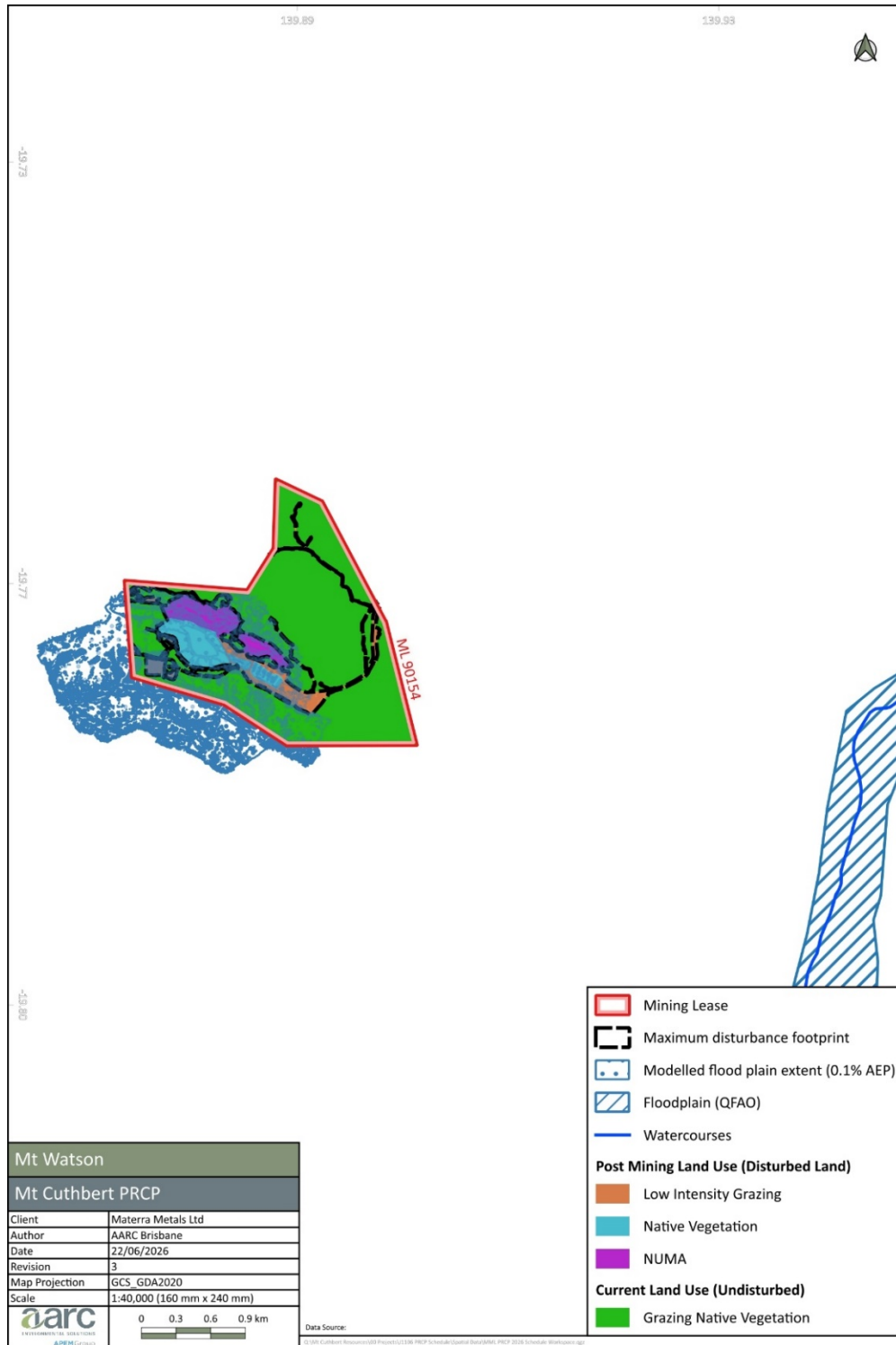
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Figure 2: Final site designs and land use | Crusader (ML2706, ML2708, ML100152)



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Figure 3: Final site designs and land use | Mt Watson (ML90154)



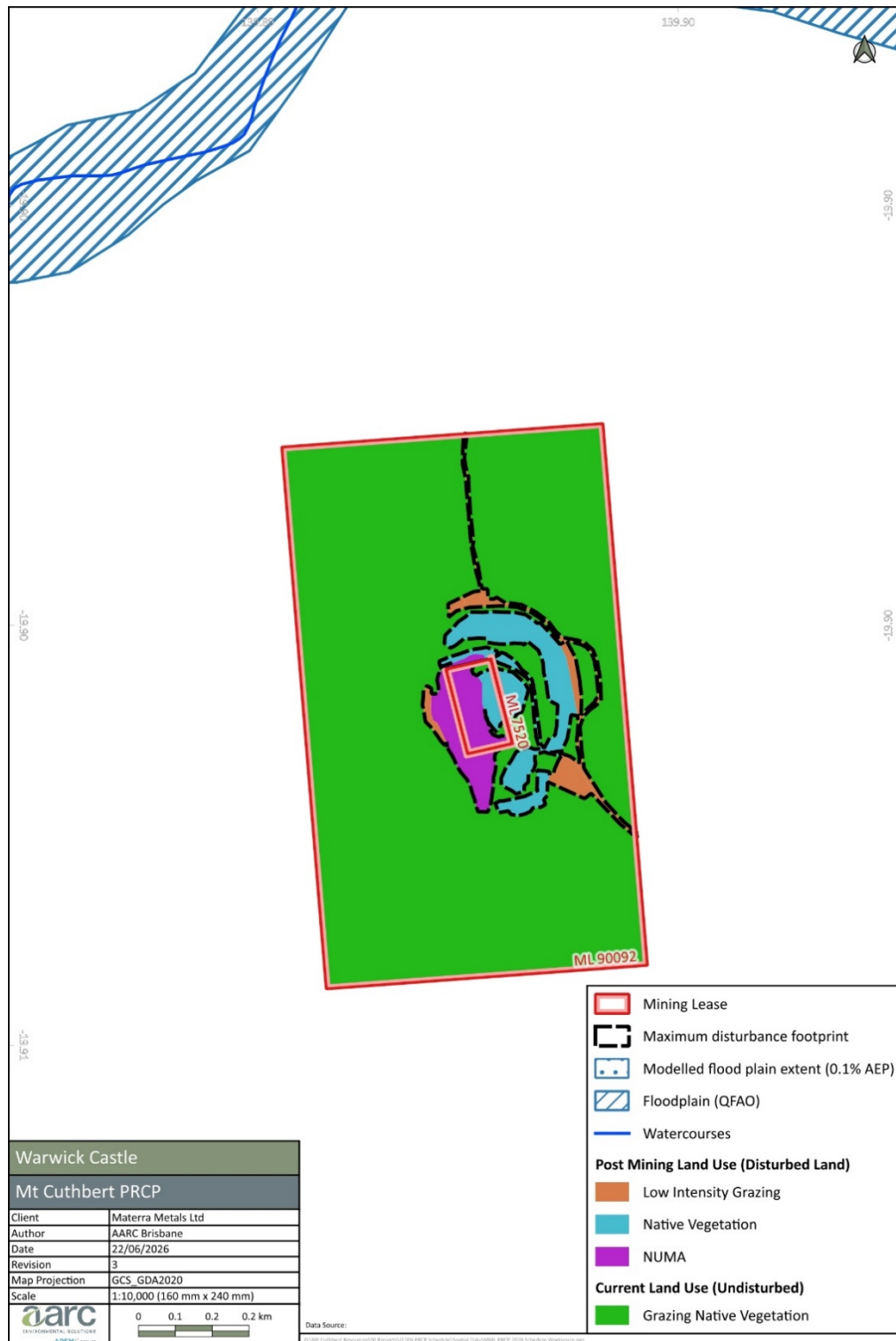
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Figure 4: Final site designs and land use | Dobbyn (ML2705)



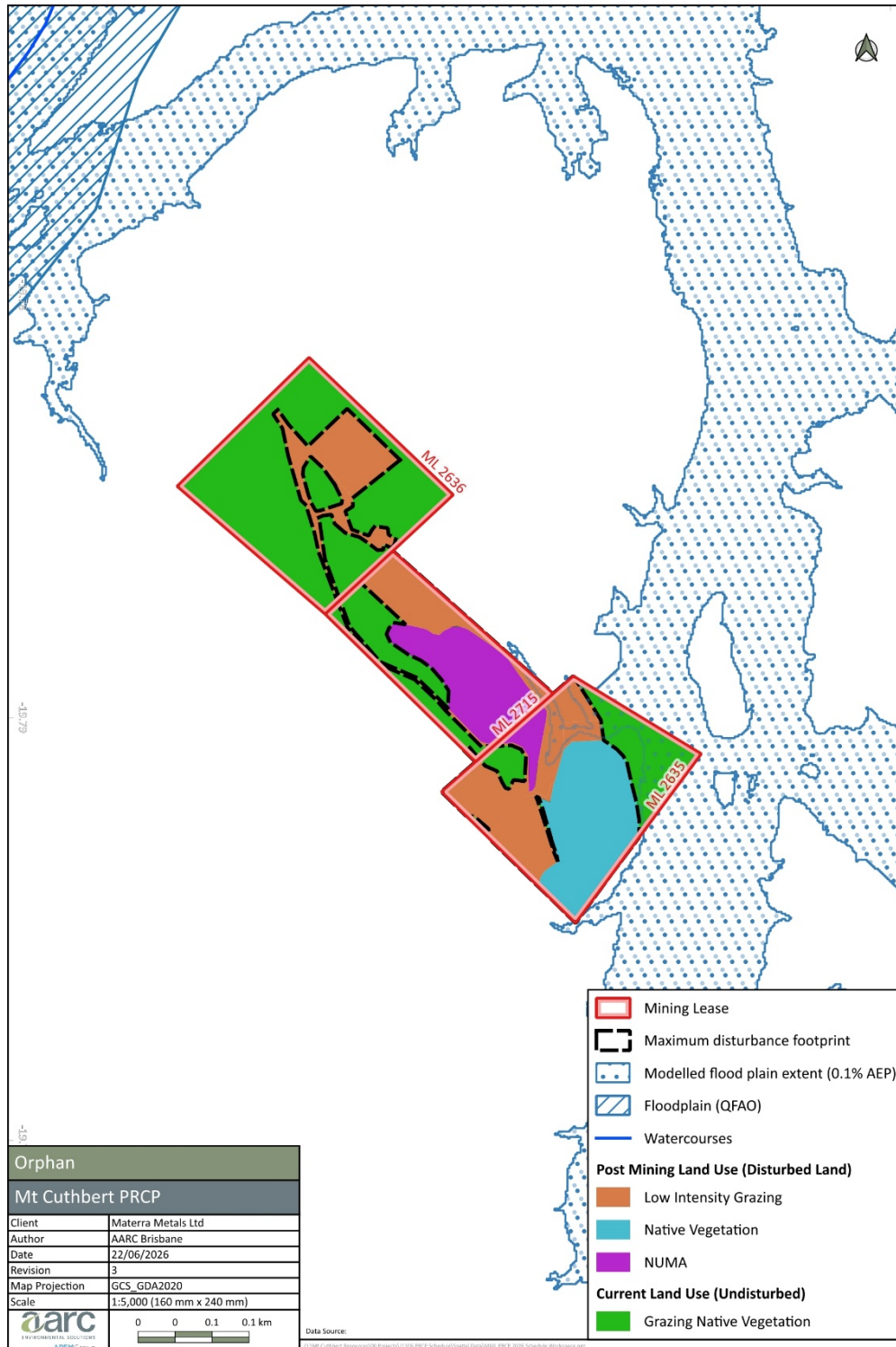
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Figure 5: Final site designs and land use | Warwick Castle (ML7520, ML90092)



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Figure 6: Final site designs and land use | Orphan (ML2635, ML2636, ML2715)

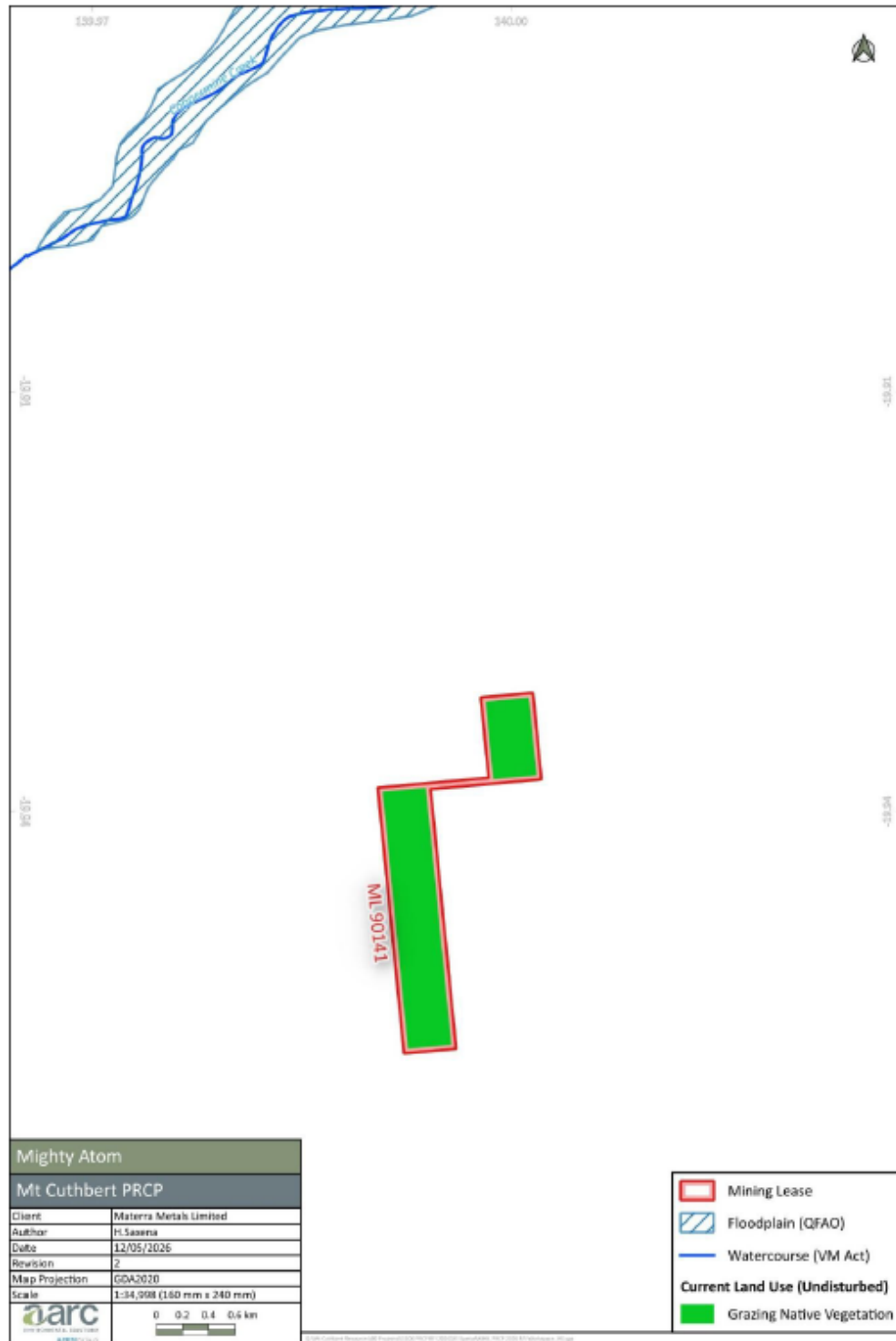


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Figures 7 to 13 (inclusive)

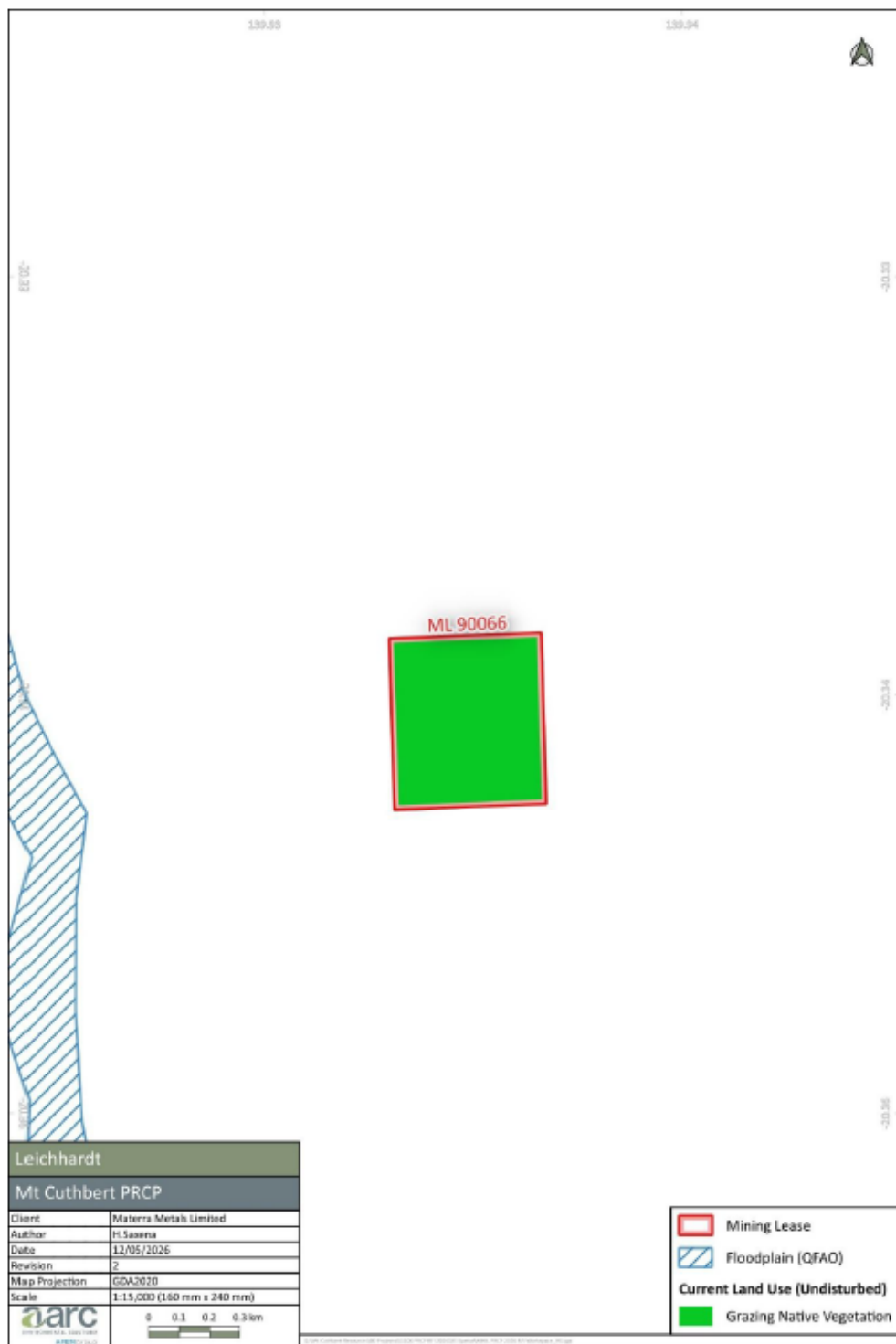
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Figure 7: Final site designs and land use | Mighty Atom (ML90141)



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Figure 8: Final site designs and land use | Leichardt (ML90066)

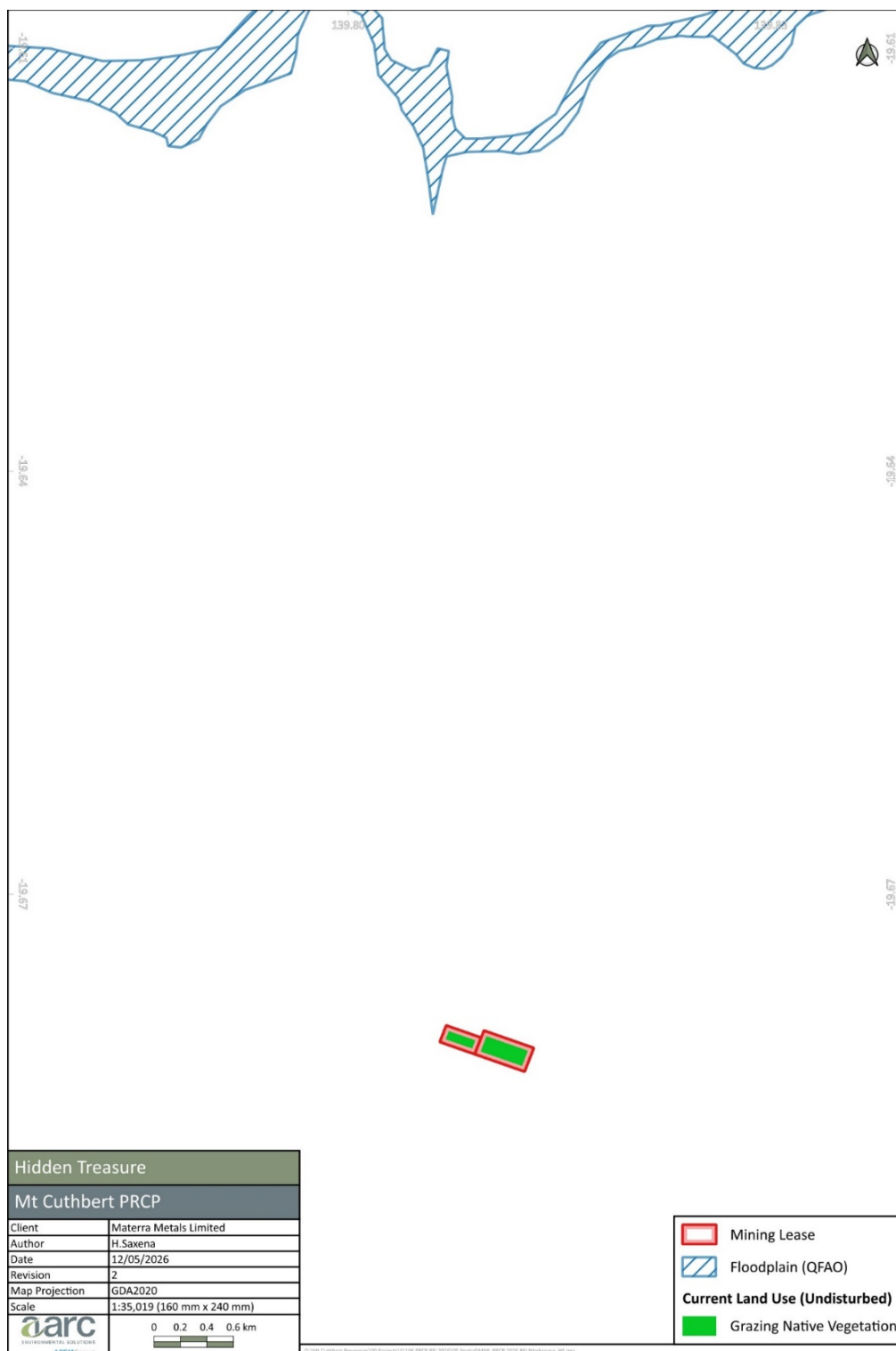


PRCP schedule P-PRCP-100905005

Mt Cuthbert Project

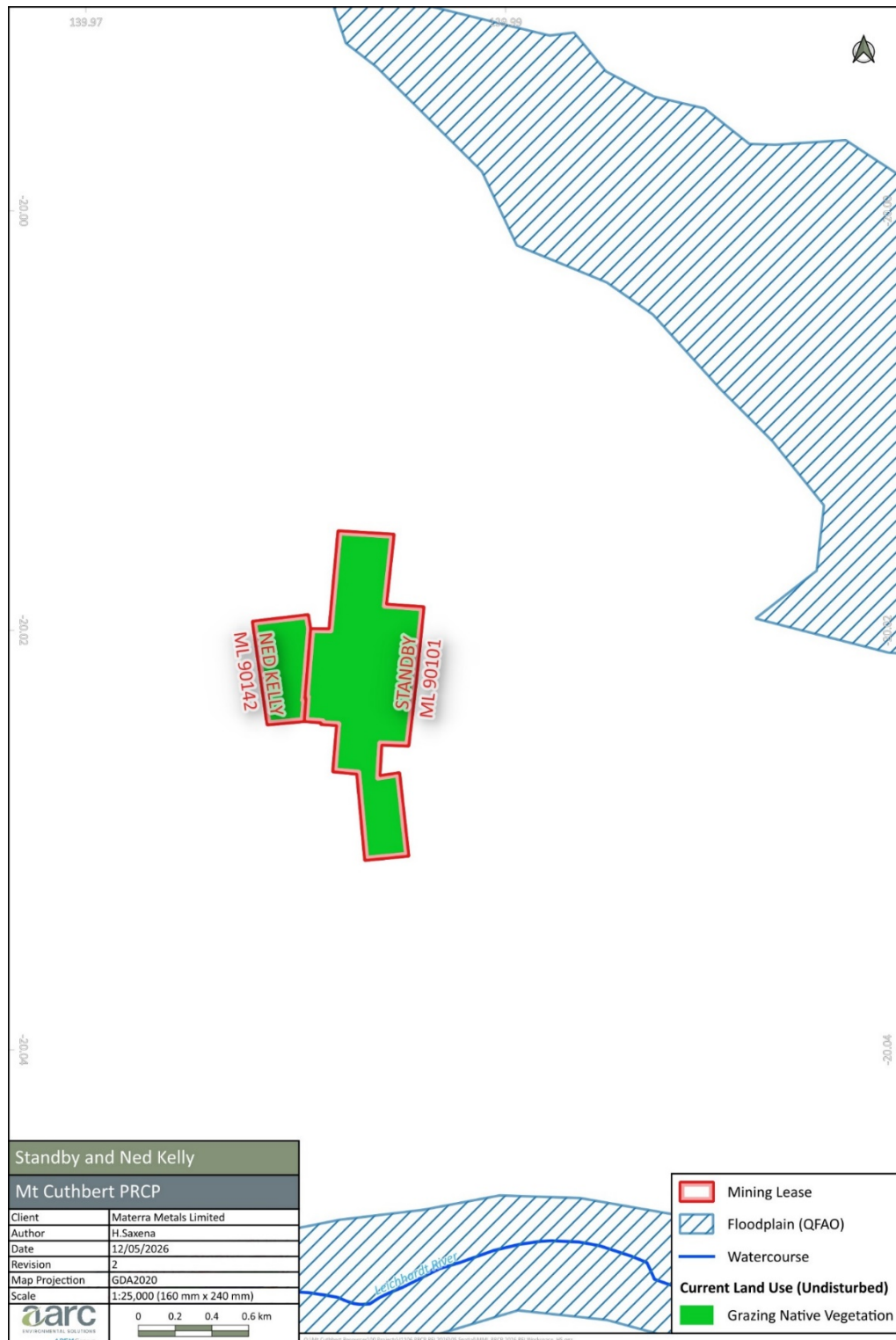
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Figure 9: Final site designs and land use | Hidden Treasure (ML2784, ML2492)



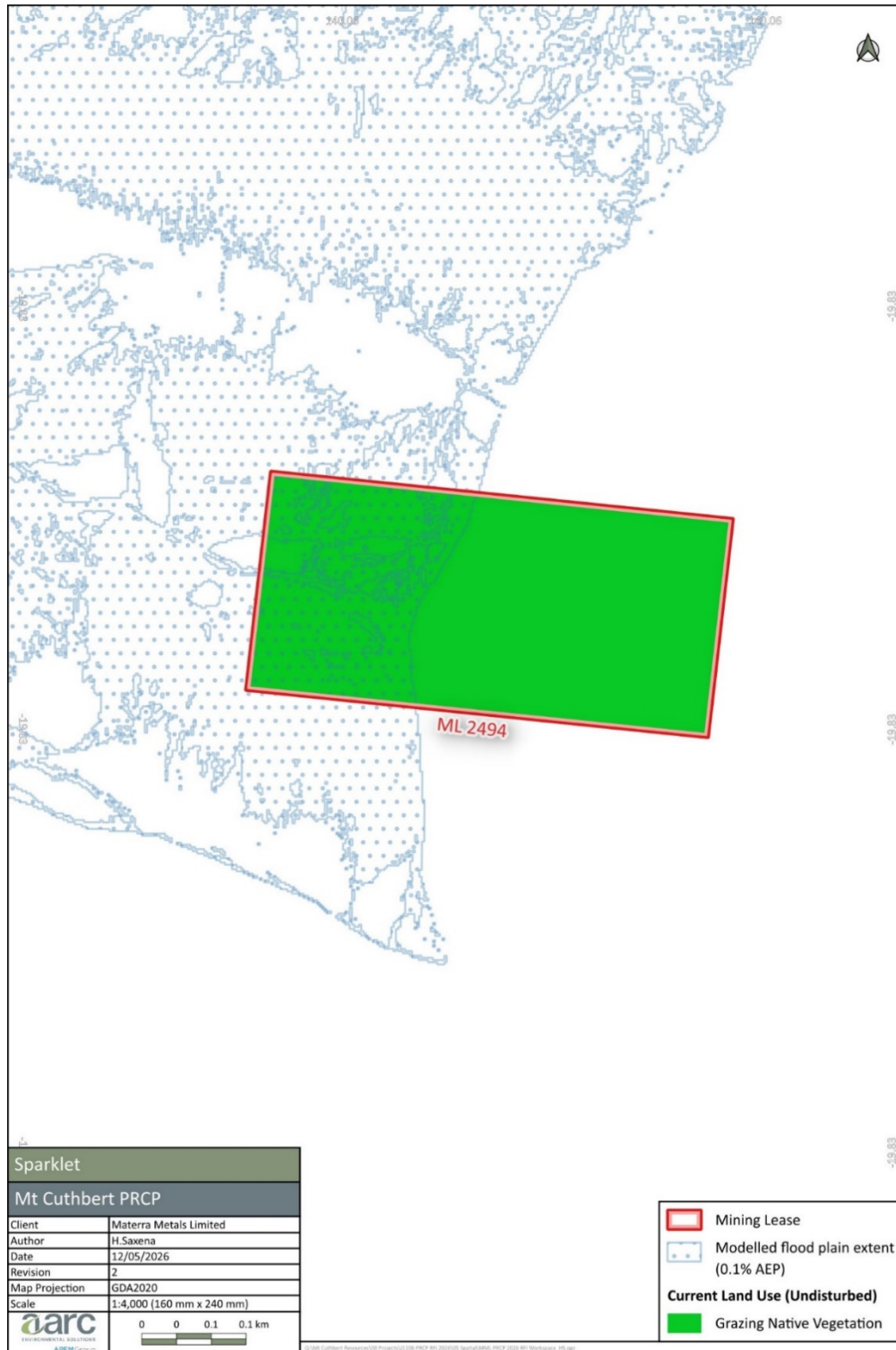
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Figure 10: Final site designs and land use | Standby (ML90101); Ned Kelly (ML90142)



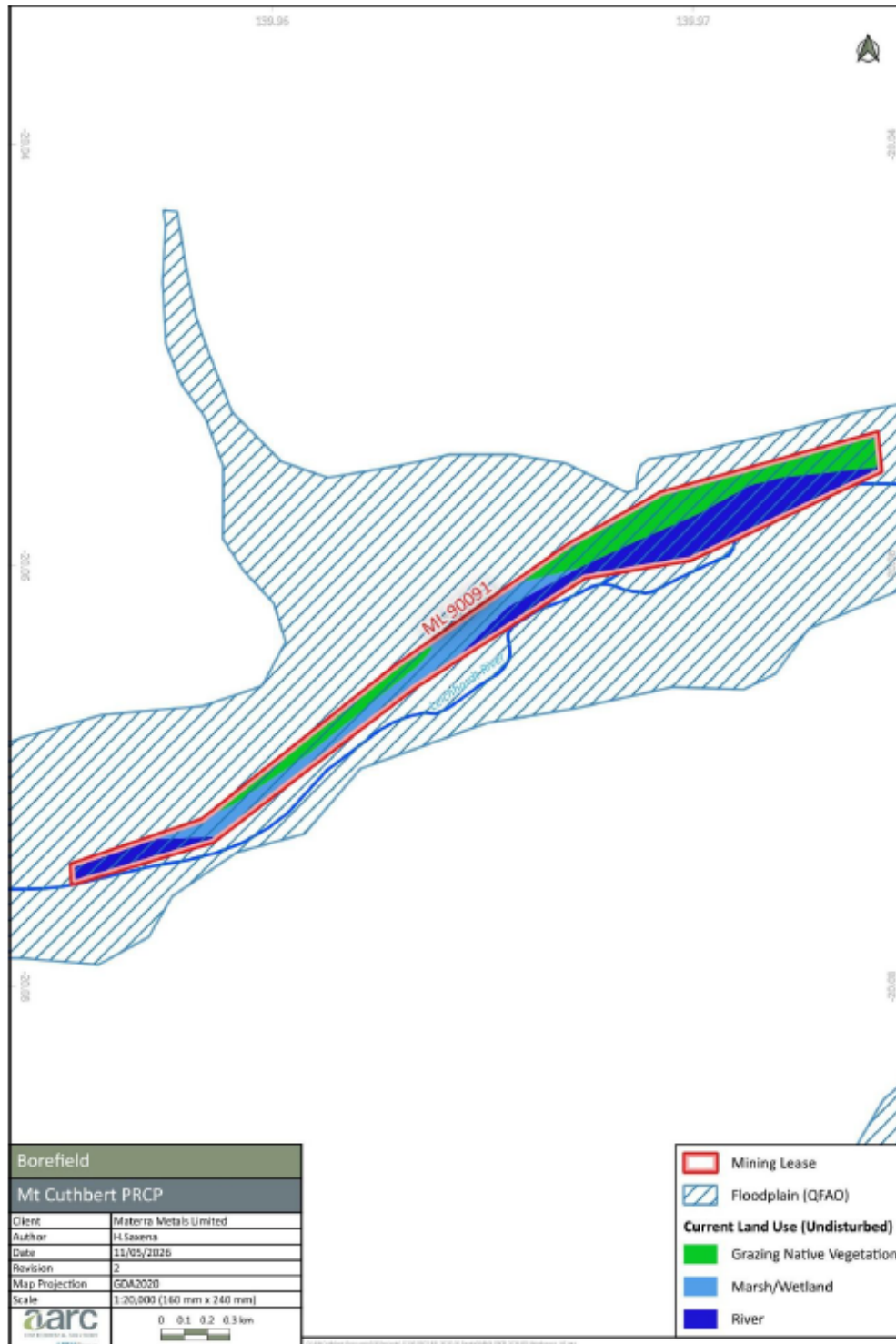
This PRCP schedule is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Figure 11: Final site designs and land use | Sparklet (ML2494)



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Figure 12: Final site designs and land use | Borefield (ML90091)



[Insert delegate's name.]

Section D – Post mining land uses

Milestone reference	Rehabilitation milestone	Rehabilitation Area			
		RA1	RA2	RA3	RA4
		Workshops, Offices, Exploration, Processing Plant, Buildings, Roads, Storage Areas, Stockpiles	Overburden Dumps, ROM	Water Dam, Clean Water diversion , Water Storages	Heap Leach Facilities
		Low Intensity Grazing	Native Ecosystem	Low Intensity Grazing	Native Ecosystem
RM1	Infrastructure decommissioning and removal				
RM2	Management of contaminated land status				
RM3	Landform development (reshaping and reprofiling)				
RM4	Installation of cover system/capping				
RM5	Surface preparation				
RM6	Revegetation				
RM7	Achievement of surface requirements for PMLU	-	-	-	-
	• Low Intensity Grazing				
	• Native Ecosystem				
RM8	Achievement of PMLU to stable condition	-	-	-	-
	• Low Intensity Grazing				
	• Native Ecosystem				
RM9	Surface water and groundwater demonstrate non-polluting landform				

Notes

 = RM applies to the corresponding rehabilitation area (RA)

[Insert delegate's name.]

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)													
Rehabilitation area	RA1												
Relevant activities	Workshops, Offices, Exploration, Processing Plant, Buildings, Roads, Storage Areas, Stockpiles												
Total rehabilitation area size (ha)	80.1												
Commencement of first milestone: RM1	10/12/2032												
PMLU	Low Intensity Grazing												
Date area is available	10/12/2032	10/12/2038	10/12/2041	10/12/2044	10/12/2047	10/12/2050	10/12/2055	10/12/2060	10/12/2065	10/12/2070	10/12/2075	10/12/2080	10/12/2085
Cumulative area available (ha)	23.7 Mt Watson	25.6 Dobbyn	63.3 Mt Cuthbert	65.2 Warwick Cst	68.1 Orphan	80.1 Crusader	80.1	80.1	80.1	80.1	80.1	80.1	80.1
Milestone completed by	10/12/2034	10/12/2040	10/12/2043	10/12/2046	10/12/2049	10/12/2052	10/12/2055	10/12/2060	10/12/2065	10/12/2070	10/12/2075	10/12/2080	10/12/2085
Milestone Reference	Cumulative area achieved (ha)												
RM1	23.7	25.6	63.3	65.2	68.1	80.1	-	-	-	-	-	-	-
RM2	-	23.7	25.6	63.3	65.2	68.1	80.1	-	-	-	-	-	-
RM3	-	23.7	23.7	25.6	63.3	65.2	68.1	-	-	-	-	-	-

[Insert delegate's name.]

RM5	-	-	23.7	23.7	25.6	63.3	65.2	80.1	-	-	-	-	-
RM6	-	-	-	23.7	23.7	25.6	63.3	68.1	80.1	-	-	-	-
RM7	-	-	-	-	23.7	23.7	25.6	63.3	68.1	80.1	-	-	-
RM8	-	-	-	-	-	-	-	23.7	25.6	63.3	68.1	80.1	-
RM9	-	-	-	-	-	-	-	-	23.7	25.6	63.3	68.1	80.1

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)													
Rehabilitation area	RA2												
Relevant activities	Overburden Dumps, ROM												
Total rehabilitation area size (ha)	49.4												
Commencement of first milestone: RM1	10/12/2032												
PMLU	Native Ecosystem												
Date area is available	10/12/2032	10/12/2038	10/12/2041	10/12/2044	10/12/2047	10/12/2050	10/12/2061	10/12/2066	10/12/2071	10/12/2076	10/12/2081	10/12/2086	
Cumulative area available (ha)	21.3 Mt Watson	27.8 Dobbyn	33.8 Mt Cuthbert	38.8 Warwick Cst	40.3 Orphan	49.4 Crusader	49.4	49.4	49.4	49.4	49.4	49.4	
Milestone completed by	10/12/2034	10/12/2040	10/12/2043	10/12/2046	10/12/2049	10/12/2052	10/12/2056	10/12/2061	10/12/2066	10/12/2071	10/12/2076	10/12/2081	10/12/2086

[Insert delegate's name.]

Milestone Reference	Cumulative area achieved (ha)												
RM1	21.3	27.8	33.8	38.8	40.3	49.4	-	-					
RM2	-	21.3	27.8	33.8	38.8	40.3	49.4	-					
RM3	-	21.3	21.3	27.8	33.8	28.8	40.3	-					
RM4	-	-	21.3	21.3	27.8	33.8	38.8	49.4	-				
RM5	-	-	-	21.3	21.3	27.8	33.8	40.3	-				
RM6	-	-	-	-	21.3	21.3	27.8	38.8	49.4				
RM7	-	-	-	-	-	21.3	21.3	33.8	38.8	49.4	49.4		
RM8	-	-	-	-	-	-	-	-	21.3	33.8	38.8	49.4	
RM9	-	-	-	-	-	-	-	-	-	21.3	33.8	38.8	49.4

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)													
Rehabilitation area	RA3												
Relevant activities	Water Dam, Clean Water diversion , Water Storages												
Total rehabilitation area size (ha)	16.3												
Commencement of first milestone: RM1	10/12/2032												
PMLU	Low Intensity Grazing												
Date area is available	10/12/2032	10/12/2038	10/12/2041	10/12/2044	10/12/2050								

[Insert delegate's name.]

Cumulative area available (ha)	1.9 Mt Watson	2 Dobbyn	15 Mt Cuthbert	15.3 Warwick Cst	16.3 Crusader	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Milestone completed by	10/12/2034	10/12/2040	10/12/2043	10/12/2046	10/12/2052	10/12/2056	10/12/2061	10/12/2066	10/12/2071	10/12/2076	10/12/2081	10/12/2086
Milestone Reference	Cumulative area achieved (ha)											
RM1	1.9	2	15	15.3	16.3	-	-	-	-	-	-	-
RM2	-	1.9	2	15	15.3	16.3	-	-	-	-	-	-
RM3	-	1.9	1.9	2	15.3	15.3	-	-	-	-	-	-
RM5	-	-	1.9	1.9	15	15.3	16.3	-	-	-	-	-
RM6	-	-	-	1.9	2	15.3	15.3	16.3	-	-	-	-
RM7	-	-	-	-	1.9	2	15.3	15.3	16.3	16.3	-	-
RM8	-	-	-	-	-	-	1.9	2	15.3	15.3	16.3	-
RM9	-	-	-	-	-	-	-	1.9	2	15.3	15.3	16.3

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)	
Rehabilitation area	RA4
Relevant activities	Heap Leach Facilities
Total rehabilitation area size (ha)	16
Commencement of first milestone: RM1	10/12/2041

[Insert delegate's name.]

PMLU	Native Ecosystem									
Date area is available	10/12/2041	10/12/2046	10/12/2051	10/12/2056	10/12/2061	10/12/2071		-	-	-
Cumulative area available (ha)	16	16	16	16	16	16		-	-	-
Milestone completed by	10/12/2046	10/12/2051	10/12/2056	10/12/2061	10/12/2071	10/12/2076		-	-	-
Milestone Reference	Cumulative area achieved (ha)									
RM1	16	-	-	-	-	-		-	-	-
RM2	16	-	-	-	-	-		-	-	-
RM3	-	16	-	-	-	-		-	-	-
RM4	-	-	16	-	-	-		-	-	-
RM5	-	-	16	-	-	-		-	-	-
RM6			16							
RM7	-	-	-	16		-		-	-	-
RM8	-	-	-	-	16			-	-	-
RM9	-	-	-	-	-	16		-	-	-

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	1.1 All services disconnected, terminated and removed. 1.2 All hardstand, concrete, bitumen and gravel removed. 1.3 All pipelines drained and removed. 1.4 All fencing and associated foundations that is not part of PMLU requirements removed. 1.5 All buildings and associated infrastructure demolished and removed off-site. 1.6 All machinery and equipment, not required for rehabilitation works removed from site. 1.7 All surface water drainage infrastructure that is not retained in the final landform removed. 1.8 All waste not authorised to be disposed of on-site under Environmental Authority EPML00863313 removed. 1.9 All drillholes, bores, sediment ponds and sumps decommissioned. 1.10 All dams dewatered, desilted and liner removed. 1.11 Upper sections of shafts and decline backfilled to prohibit unauthorised access to underground workings. 1.12 Underground portals and shaft entrances backfilled with inert material have been sealed to form a water shedding surface.
RM2	Identification, remediation and removal of contaminated land	2.1 Contaminated land investigations (investigation, remediation and validation) completed by an SQP in accordance with appropriate guidance, including but not limited to the ASC NEPM and National Remediation Framework. 2.2 Contaminated water, sediment and lines removed from dams/erosion control facilities and disposed of lawfully. 2.3 Contaminated and hazardous material either remediated in situ or removed/transported to an approved landfill for disposal and waste tracking information recorded and submitted. 2.4 Contaminated Land Auditor certifies that no contamination unsuitable for the PMLU remains or is occurring.
RM3	Landform development reshaping /reprofiling	3.1 All major earthworks and landform reprofiling completed in accordance with the plans and specifications as per the final design required in condition PRCP18.

[Insert delegate's name.]

		3.2 Earthworks consistent with the final site layout (Figure 1-6 (inclusive) – Final site designs and land use) and have associated design plans. 3.3 Constructed landform achieves geotechnical stability with a Factor of Safety (FoS) ≥ 1.5, which includes consideration of flood-induced hydraulic loading. 3.4 Landform provides flood-protection and erosion-control against a 0.1% AEP flood event. 3.5 Geotechnical assessment by AQP confirms long-term geotechnical stability has been achieved for each relevant landform. 3.6 Erosion and sediment control (ESC) and drainage structures are installed and functioning per design specifications and plans with certification by an AQP. 3.7 Disturbed natural watercourse bed and banks returned to a natural condition with profile similar to the pre-disturbance condition. 3.8 All landforms are shaped to be water shedding and left free draining. 3.9 An 'As-Constructed Report' prepared and details and justifies all variations to the landform closure design report, including a certification that such variations will not affect the design performance. 3.10 An independent AQP has surveyed the final landform and certified that RM3.1 to RM3.9 have been achieved.
RM4	Installation of a cover system	4.1 Cover system constructed and installed per landform closure design report. 4.2 Quality assurance and quality control (QA/QC) per landform closure design report. 4.3 Instrumentation installed and monitoring commenced per landform closure design report. 4.4 An 'As-Constructed Report' prepared that details and justifies all variations to the landform closure design report, including a certification that such variations will not affect the design performance. 4.5 The construction and maintenance design of the cover system / cap has been certified by an AQP that is consistent with the cover design. 4.6 The cover system displays erosional stability, is geotechnically stable and supports the PMLU. 4.7 Certification of groundwater and surface water monitoring in accordance with monitoring and maintenance program. 4.8 An independent AQP has surveyed the final landform and certified that RM4.1- to RM4.7 have been achieved.
RM5	Surface preparation and revegetation	5.1 Assessment of growth media characteristics and the development of an amelioration and physical treatment plan is completed by an AQP.

[Insert delegate's name.]

		5.2 Ameliorant and/or physical treatments such as fertilisers, lime, gypsum and/or organic matter are applied as identified in criteria RM5.1. 5.3 Topsoil/growth media placement of a minimum of 150mm. 5.4 Ripping of compacted surfaces to at least 300mm (or refusal) into soil/subsoil profile along contour of slopes. 5.5 Following 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) Extractable Nitrate – N mg/kg > 3 (e) Potassium (Available) mg/kg > 160 (f) Organic content $> 1\%$. 5.6 The surface and groundwater monitoring network are installed, and monitoring is underway (one year of sampling undertaken). 5.7 An AQP has certified the achievement of RM5.1 to RM5.6.
RM6	Revegetation	All RAs 6.1 Non-native seed must not be used for the 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 Appropriate erosion controls installed/placed and functioning as designed (as per AQP certified report) to ensure plant establishment is not significantly impacted from erosive events. Low Intensity Grazing PMLU (RA1, RA3) 6.4 Seeding completed using seed mix and sowing rates described in Appendix 1: Seed mix and application rate for low intensity grazing PMLU. 6.5 At least four species of 3P native pasture species, two native legumes and two native shade tree species established, from in Appendix 1 – Species list and seeding rates for low intensity grazing PMLU are applied per application area. Native Ecosystem PMLU (RA2, RA4) 6.6 Seeding has been completed with a selection of species and seeding rates listed in Appendix 1 – Species list and seeding rates for native ecosystem PMLU.

[Insert delegate's name.]

		6.7 No deep rooted species in RA2 and RA4.
RM7	Achievement of surface requirements	7.1 The final landform is free draining and consistent with surrounding terrain. 7.2 Species used in revegetation as per Appendix 1– Species list and seeding rates remain present and showing evidence of natural recruitment from rehabilitation monitoring data. 7.3 Total vegetative groundcover $\geq 60\%$. 7.4 Total groundcover (combination of vegetative cover, other organic material (i.e., sticks, leaf litter) and inorganic material (i.e., rocks) $\geq 70\%$. 7.5 Presence of weeds are $\leq 5\%$ of total vegetative cover, confirmed by an AQP, from annual monitoring. 7.6 For low intensity grazing PMLU (RA1, RA3), at least four species of 3P native pasture species, two native legumes and two native shade tree species established, from Appendix 1 – Species list and seeding rates are present. 7.7 For native vegetation PMLU (RA2, RA4), a BioCondition assessment completed in accordance with latest version of Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of $>20/60$ PRCP Benchmark average as described in Appendix 3 – BioCondition Benchmark Criteria. 7.8 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 2 – Erosion classification framework. 7.9 No evidence of scouring, rilling or gullyng in or adjacent to rock-lined drains, contour banks and bench drains. 7.10 Erosion requiring intervention has been remediated and does not impact achieving the PMLU. 7.11 Corrective action arising from the routine inspections program have been undertaken. 7.12 Surface water runoff collected from representative areas of rehabilitation when surface flow occur and is on a trajectory to meeting Appendix 5 – Surface water quality limits. 7.13 AQP certifies achievement of RM 7.1 to RM7.12.
RM8	Achievement of PMLU to stable condition	8.1 A hazard and safety assessment completed by an AQP demonstrates hazards in rehabilitated areas are not significantly different to surrounding unmined landscapes subject to the same land use. 8.2 The land is structurally and erosionally stable. 8.3 There is no evidence indicating an adverse change to the contaminated land status has occurred post the completion of RM2. 8.4 The final landform is geotechnically stable and achieved a FOS ≥ 1.5.

[Insert delegate's name.]

		8.5 Total vegetative groundcover $\geq 70\%$. 8.6 Weed presence is a maximum of 5% of total vegetative cover as confirmed by an AQP in annual monitoring. 8.7 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 2 - Erosion classification framework. 8.8 Any erosion present will not compromise the achievement of a PMLU to a stable condition. 8.9 No evidence of scouring, rilling or gullyng in or adjacent to rock-lined drains, contour banks and bench drains. 8.10 Sediment and erosion control structures removed as certified by AQP and rehabilitated consistent with the PMLU. 8.11 Stock exclusion fencing removed around revegetation areas. 8.12 For low intensity grazing PMLU (RA1, RA3), Assessment of land condition and carrying capacity demonstrates a sustainable grazing outcome has been achieved. 8.13 For native vegetation PMLU (RA2, RA4), a BioCondition assessment completed in accordance with latest version of Queensland Herbarium's 'BioCondition Assessment Manual' determines that the PMLU has reached a BioCondition score of $>40/60$ PRCP Benchmark average as described in Appendix 3 – BioCondition Benchmark Criteria 8.14 No deep rooted species in RA2 and RA4. 8.15 Final landform survey confirms no built structure remain. 8.16 Subsidence within the rehabilitation area does not present a safety hazard in the context of the PMLU. 8.17 The rehabilitation area is safe for human access and use 8.18 Surface subsidence, as determined by subsidence monitoring, does not results in cracking greater than 20mm wide and 1m long. 8.19 AQP certifies achievement of RM8.1 to RM8.18.
RM9	Surface water and groundwater demonstrate non-polluting landform	9.1 Surface water runoff at locations specified in Appendix 4 – Surface water quality limits complies with Appendix 5 – Surface water quality limits. 9.2 Surface water quality results monitored monthly during flow at, <i>but not limited to</i>, downstream locations specified in Appendix 4 – Surface water monitoring locations, must not exceed the limits in Appendix 5 - Surface water quality limits, measured monthly during flow for a minimum of 5 consecutive years immediately prior to the milestone completion date. 9.3 If the surface water quality exceeds criteria RM9.1, the applicable upstream/reference site must be compared to the

[Insert delegate's name.]

		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/reference site¹. 9.4 For a minimum of five consecutive years immediately prior to the milestone completion date groundwater quality must be monitored quarterly at, but not limited to, compliance bores/locations specified in Appendix 6 – Groundwater monitoring locations, for all quality characteristics listed in Appendix 7 – Groundwater quality limits. 9.5 Groundwater quality results must not exceed the limits in Appendix 7– Groundwater quality limits, for 3 consecutive results, for a minimum of 5 consecutive years immediately prior to the milestone completion date. 9.6 Independent AQP certifies achievement of RM9.1 to RM9.5.
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¹ 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.

[Insert delegate's name.]

Section E – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)										
Rehabilitation area	IA1									
Relevant activities	Residual Voids									
Total rehabilitation area size (ha)	37.5									
Commencement of first milestone: MM1	10/12/2032									
NUMA	NUMA									
Date area is available	10/12/2032	10/12/2038	10/12/2041	10/12/2044	10/12/2047	10/12/2050	10/12/2054	-	-	-
Cumulative area available (ha)	21.2 Mt Watson	24.2 Dobbyn	28.2 Mt Cuthbert	31.2 Warwick Cst	32.4 Orphan	37.5 Crusader	37.5	-	-	-
Milestone completed by	10/12/2036	10/12/2041	10/12/2044	10/12/2047	10/12/2050	10/12/2054	10/12/2058	-	-	-
Milestone Reference	Cumulative area achieved (ha)									
MM1	21.2	24.2	28.2	31.2	32.4	37.5	-	-	-	-
MM2	21.2	24.2	28.2	31.2	32.4	37.5	-	-	-	-
MM3	-	21.2	24.2	28.2	31.2	32.4	37.5	-	-	-

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 PRCP 14. 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 PRCP 14. 1.7 Residual voids must not overtop. 1.8 Independent 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 in accordance with engineering requirements including: a) Constructed from non-weathered, non-dispersive rockfill; b) A minimum 2m in height; c) A minimum of 4m base width; and d) Battered at 3H:1V. 2.3 Flood velocity at bund toe does not exceed design tolerance i.e., 2.5 m/s unless suitably armoured. 2.4 Fencing erected, where required to prevent access to the residual void, around the perimeter of the safety bund.

[Insert delegate's name.]

		2.5 Safety signs (design in accordance with Australian standard) is erected at 100 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 1.5 and ensure long-term geotechnical stability, as recommended by an AQP. 2.7 Independent 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 per PRCP18. 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 Independent AQP certifies achievement of MM3.1 to MM3.6

[Insert delegate's name.]

Section F – Appendices

Appendix 1 – Species list and seeding rates

PMLU Low Intensity Grazing

Category	Scientific Name	Common Name	Seeding rate (kg/ha)
Grasses	<i>Triodia pungens</i>	Curly spinifex / soft spinifex	2-4
Tussock grass	<i>Bothriochloa bladhii</i>	Forest bluegrass	2-4
Tussock grass	<i>Bothriochloa ewartiana</i>	Desert bluegrass	2-4
Tussock grass	<i>Chrysopogon fallax</i>	Ribbon grass/golden beard grass	2-4
Tussock grass	<i>Heteropogon contortus</i>	Black speargrass	2-4
Shrubs	<i>Acacia chisholmii</i>	Chisholm's wattle	1-3
	<i>Atalaya Hemiglauca</i>	Whitewood	0.5-2
Trees	<i>Corymbia aparrerinja</i>	Ghost gum	0.5-2
	<i>Corymbia terminalis</i>	Bloodwood	0.5-2
	<i>Eucalyptus leucophloia</i>	Snappy gum	0.5-2
	<i>Eucalyptus leucophylla</i>	Cloncurry box	0.5-2

Notes:

Any variation to species composition and seeding mix shall be as recommended by an AQP—with equivalent native species with similar structural and functional characteristics to be selected.

A minimum total seeding rate of 15 kg/ha shall be applied. Higher seeding rates shall be applied in areas identified in the landform closure design report as having elevated erosion risk. Seeding rates shall be recommended by an AQP prior to implementation.

[Insert delegate's name.]

PMLU Native Ecosystem

Category	Scientific Name	Common Name	Seeding rate (kg/ha)
Native Grasses	<i>Triodia pungens</i>	Curly spinifex / soft spinifex	2-4
	<i>Triodia spp</i>	Spinifex grasses	2-4
Shrubs	<i>Acacia chisholmii</i>	Chisholm's wattle	1-3
Trees	<i>Corymbia capricornia</i>	Capricorn bloodwood	0.5-2
	<i>Corymbia terminalis</i>	Bloodwood	0.5-2
	<i>Eucalyptus leucophloia</i>	Snappy gum	0.5-2
	<i>Eucalyptus leucophylla</i>	Cloncurry box	0.5-2
	<i>Terminalia aridicola</i>	Desert terminalia/arid tropical almond	0.5-2

Notes:

Any variation to species composition and seeding mix shall be as recommended by an AQP—with equivalent native species with similar structural and functional characteristics to be selected.

A minimum total seeding rate of 15 kg/ha shall be applied. Higher seeding rates shall be applied in areas identified in the landform closure design report as having elevated erosion risk. Seeding rates shall be recommended by an AQP prior to implementation.

Suggested additional species from each lifeform

Tree_			
	<i>Corymbia aparrerinja</i>	Ghost Gum	2-4 species from the list with a bulked seed weight of 0.5 kg/ha
	<i>Corymbia terminalis</i>	Western Bloodwood	
	<i>Melaleuca leucadendra</i>	Weeping Paperbark	
	<i>Eucalyptus camaldulensis</i>	Red River Gum	
	<i>Eucalyptus leucophylla</i>	Cloncurry Box	
	<i>Ficus aculeata</i>	Sandpaper Fig	
	<i>Terminalia aridicola subsp. Aridicola</i>	Arid Peach	
	<i>Atalaya hemiglauca</i>	Whitewood	
Shrubs			
	<i>Acacia chisholmii</i>	Turpentine Bush	

[Insert delegate's name.]

	<i>Acacia holosericea</i>	Soap Bush	2-4 species from the list with a bulked seed weight of 1.5 kg/ha
	<i>Corchorius sericeus</i> subsp. <i>Densiflorus</i>	Wild Jute	
	<i>Flueggea virosa</i> subsp. <i>Melanthesoides</i>	White Currant Bush	
	<i>Senna artemisioides</i> subsp. <i>Oligophylla</i>	Limestone Cassia	
	<i>Senna notabilis</i>	Cockroach Bush	
	<i>Senna venusta</i>	Candlestick Cassia	
	<i>Gossypium australe</i>		
	<i>Carissa lanceolata</i>		
	<i>Eremophila latrobei</i>		
	<i>Eremophila longifolia</i>		
	<i>Hakea lorea</i>		
	<i>Santalum lanceolatum</i>		
Grass and Forbs			
	<i>Aristida contorta</i>	Bunched Kerosene Grass	2-4 species from the list with a bulked seed weight of 3 kg/ha
	<i>Enneapogon polyphyllus</i>	Woolyoat Grass	
	<i>Heteropogon contortus</i>	Black Speargrass	
	<i>Leptochloa digitata</i>	Umbrella Cane Grass	
	<i>Sporobolus australasicus</i>	Australian Dropseed	
	<i>Triodia pungens</i>	Soft Spinifex	
	<i>Themeda triandra</i>		
	<i>Eriachne obtusa</i>		
	<i>Eriachne mucronata</i>		
	<i>Eulalia aurea</i>		
	<i>Cymbopogon bombycinus</i>		
	<i>Mnesithea formosa</i>		
	<i>Evolvulus alsinoides</i>		
	<i>Indigofera linifolia</i>		
	<i>Indigofera linnaei</i>		
	<i>Sida fibulifera</i>		
	<i>Boerhavia</i> sp.		

[Insert delegate's name.]

	<i>Crotolaria novae-hollandiae</i>		
	<i>Salsola australis</i>		
	<i>Melhania oblongifolia</i>		
	<i>Euphorbia drummondii</i>		
	<i>Hibiscus sturtii</i>		
	<i>Rnhyncosia minima</i>		
	<i>Tephrosia sp.</i>		
	<i>Zornia sp.</i>		

[Insert delegate's name.]

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).

[Insert delegate's name.]

Appendix 3 – Biocondition Benchmark Criteria

Regional Ecosystem		RE 1.11.2a Eucalyptus leucophloia low open woodland on steep hills and strike ridges			RE 1.11.3a Eucalyptus leucophylla low open woodland on broad low hills			RE: 1.5.4d Eucalyptus leucophylla and Corymbia terminalis low open woodland on plains and valley bottoms		
BioCondition Attribute	Weighting	Reference Benchmark	Modified Benchmark		Reference Benchmark	Modified Benchmark		Reference Benchmark	Modified Benchmark	
			RM7	RM8		RM7	RM8		RM7	RM8
Non-native plant cover	10	0	10%	10%	0	10%	10%	0	10%	10%
Dominant canopy species present as regeneration	5	100	100	100	100	100	100	100	100	100
Tree height	5	6m	2m	4.5m	6m	2m	4.5m	6m	2m	4.5m
Native tree species richness	5	3	3	3	4	3	3	3	2	2
Native shrub species richness	5	5	3	3	3	2	2	5	3	3
Grass species richness*	5	8	4	4	5	3	3	6	3	3
Forbs and other species richness*	5	12	7	7	8	5	5	10	5	5
Native tree canopy cover	5	12%	5%	10%	9%	4%	6%	10%	4%	7%
Native shrub canopy cover	5	18%	6%	12%	14%	3.5%	7%	10%	2%	5%
Native perennial grass cover	5	56%	12%	23%	44%	11%	22%	41%	10%	20%
Organic litter ground cover	5	5%	1%	2.7%	58%	6%	29%	12%	3%	6%
Overall score required	60	-	≥20	≥40	-	≥20	≥40	-	≥20	≥40

Notes:

* Native species occurring naturally in a site identified by an AQP as a target Regional Ecosystem and/or listed in a target Regional Ecosystem technical description.

Refer to the BioCondition Assessment Manual for assessment methods and calculating an overall area-weighted BC score for the area of interest: Eyre, T.J., Kelly, A.L, Neldner, V.J., Wilson, B.A., Ferguson, D.J., Laidlaw, M.J. and Franks, A.J. (2015). BioCondition: A Condition Assessment Framework for Terrestrial Biodiversity in Queensland. Assessment Manual. Version 2.2. Queensland Herbarium, Department of Science, Information Technology, Innovation and Arts, Brisbane.

Appendix 4 – Receiving environment surface water monitoring locations

Monitoring Locations	Receiving waters location description	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
<i>Upstream monitoring locations</i>			
US1	US Mount Cuthbert	-19.98312	139.91447
RC3	US Mount Cuthbert	-19.98045	139.91514
MW6	Mount Watson upstream	-19.77604	139.86134
MW7	Mount Watson upstream	-19.77840	139.89576
CUS3	Crusader upstream	-19.82295	140.04789
CU new	Crusader upstream	-19.82552	140.05035
DUS	Dobbyn upstream	-19.80151	140.0012
CDS4	Orphan upstream	-19.78958	140.026
WCUS2	Warwick Castle upstream	-19.91092	139.90149
<i>Downstream monitoring locations</i>			
RC1	DS Mount Cuthbert	-19.98794	139.91975
RC6	DS Mount Cuthbert	-19.99117	139.92091
RO1	Six Mile Creek Dam	-19.99199	139.92942
MW3	DS Mount Watson	-19.76689	139.89852
MW4	DS Mount Watson	-19.768	139.87701
MW5	DS Mount Watson	-19.76643	139.87457
CD new	Crusader downstream	-19.81926	140.04319
DDS	Dobbyn downstream	-19.79628	140.0082
ORDS4	Orphan downstream	-19.78589	140.02547
WCDS1	DS Warwick Castle	-19.90072	139.89739
WCD New	DS Warwicik Castle	-19.90905	139.89392

[Insert delegate's name.]

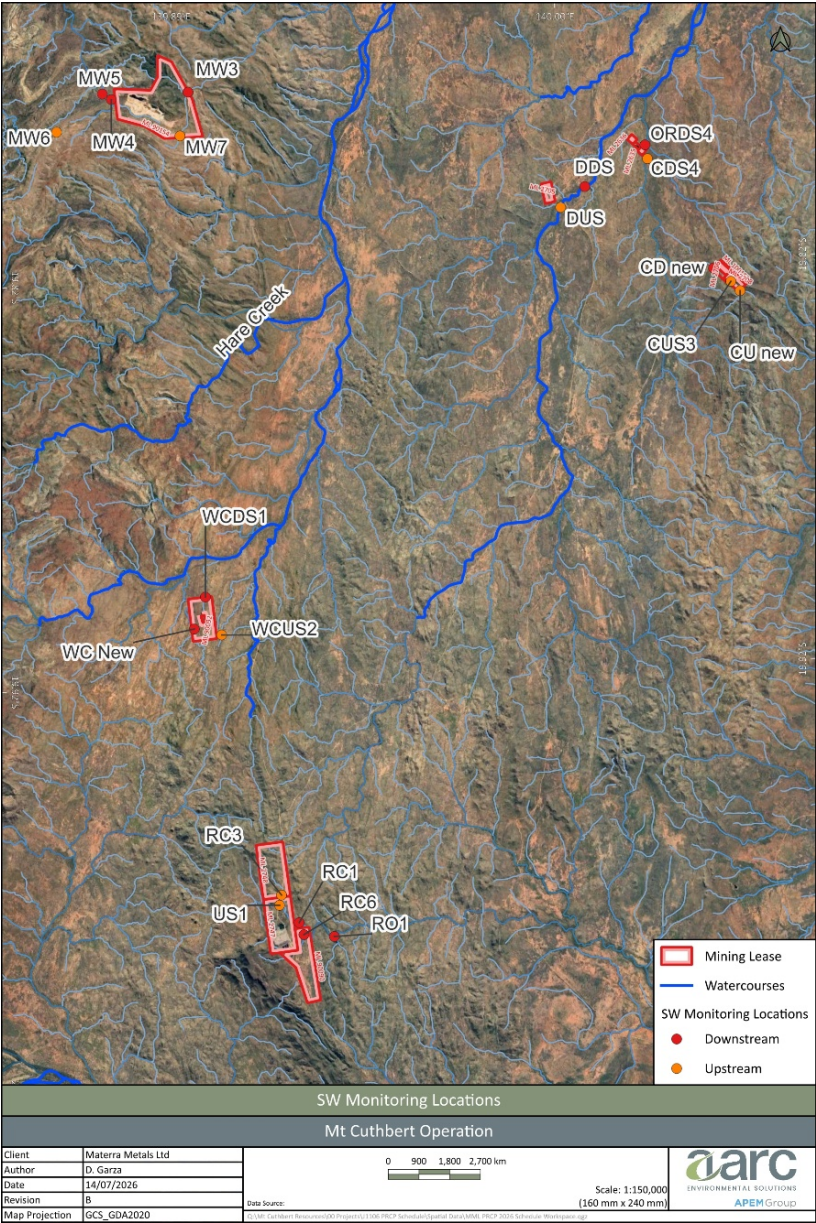


Figure App4-1. Surface water monitoring locations

[Insert delegate's name.]

Appendix5 – Surface water quality limits

Quality characteristic (units)	Limit	Comment on limit
pH	6.5-8.5	Site-specific
Electrical Conductivity (µS/cm)	210	Site-specific
Turbidity (NTU)	180	Site-specific
Sulphate (mg/L)	20	Site-specific
Aluminium - dissolved (µg/L)	454	Site-specific
Arsenic - dissolved (µg/L)	13	ANZG 2018
Boron - dissolved (µg/L)	120	Site-specific
Cadmium - dissolved (µg/L)	0.2	ANZG 2018
Chromium - dissolved (µg/L)	1	ANZG 2018
Cobalt - dissolved (µg/L)	1	ANZG 2018
Copper - dissolved (µg/L)	20	Site-specific
Lead - dissolved (µg/L)	3.4	ANZG 2018
Manganese - dissolved (µg/L)	80	Site-specific
Mercury - dissolved (µg/L)	0.06	ANZG 2018
Molybdenum - dissolved (µg/L)	5	Site-specific
Nickel - dissolved (µg/L)	11	ANZG 2018
Selenium - dissolved (µg/L)	5	ANZG 2018
Vanadium - dissolved (µg/L)	6	ANZG 2018
Zinc - dissolved (µg/L)	52	Site-specific
Nitrate (µg/L)	1100	Site-specific
Total recoverable hydrocarbons (C6-C9) (µg/L)	20	
Total recoverable hydrocarbons (C10-C36) (µg/L)	100	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes	
Hardness (mg/L)	For interpretation purposes	

Notes:

[Insert delegate's name.]

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.

ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)

[Insert delegate's name.]

Appendix 6 – Groundwater monitoring locations

Monitoring Bore	Hydrogeological Unit / Estimated Geology	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
MB4 – Mount Cuthbert	Not available	-19.99254	139.91786
MB5 – Mount Cuthbert	Diorite to dolerite with minor pyrite	-19.99594	139.91880
MB6 – Mount Cuthbert	Not available	-19.99117	139.92091
MB7 – Mount Cuthbert	Veined Siltstone	-19.98756	139.91479
MB8 – Mount Cuthbert	Ferruginous Breccia	-19.98965	139.91579
MB9 – Mount Cuthbert	Not available	-19.98794	139.91975
MB New - Mount Cuthbert	Not available	-19.98554	139.91544
MB16 – Mount Cuthbert	Not available	-19.99382	139.92000
MB17 – Mount Cuthbert	Not available	-19.99531	139.92142
MB18 – Mount Cuthbert	Not available	-19.99368	139.91895
MB19 – Mount Cuthbert	Not available	-19.99822	139.91871
MB20 – Mount Cuthbert	Transitional weathered granite	-19.98761	139.91814
MB21 – Mount Cuthbert	Transitional weathered granite	-19.99041	139.91895
LMB1 – Mount Watson	Not available	-19.77280	139.88141
LMB4 – Mount Watson	Not available	-19.77433	139.89519
LMB5 – Mount Watson	Not available	-19.76764	139.89828
LMB6 – Mount Watson	Not available	-19.77755	139.89945
LMB7 – Mount Watson	Not available	-19.77379	139.89419
LMB8 – Mount Watson	Not available	-19.77163	139.89799
CRUMB04 - Crusader	Dolerite, quartz, hematite, magnetite	-19.82311	140.04405
CRUMB06B – Crusader	Dolerite; quartz vein at base of weathering	-19.82430	140.04945
CRUMB07 – Crusader	Ballara Quartzite / Crusader Sandstone contact	-19.81919	140.04332
CRUMB08B – Crusader	Argylla formation	-19.81880	140.03934
CRUMB09 – Crusader	Argylla formation	-19.81299	140.04544

[Insert delegate's name.]

Monitoring Bore	Hydrogeological Unit / Estimated Geology	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
CRUMB13 – Crusader	Crusader Sandstone	-19.81667	140.05125
CRUMB16 – Crusader	Ballara Quartzite, Pyrite, dolerite bands	-19.82451	140.05055
Dobbyn		TBD	TBD
Dobbyn		TBD	TBD
Warwick Castle		TBD	TBD
Warwick Castle		TBD	TBD
Warwick Castle		TBD	TBD
Orphan		TBD	TBD

[Insert delegate's name.]

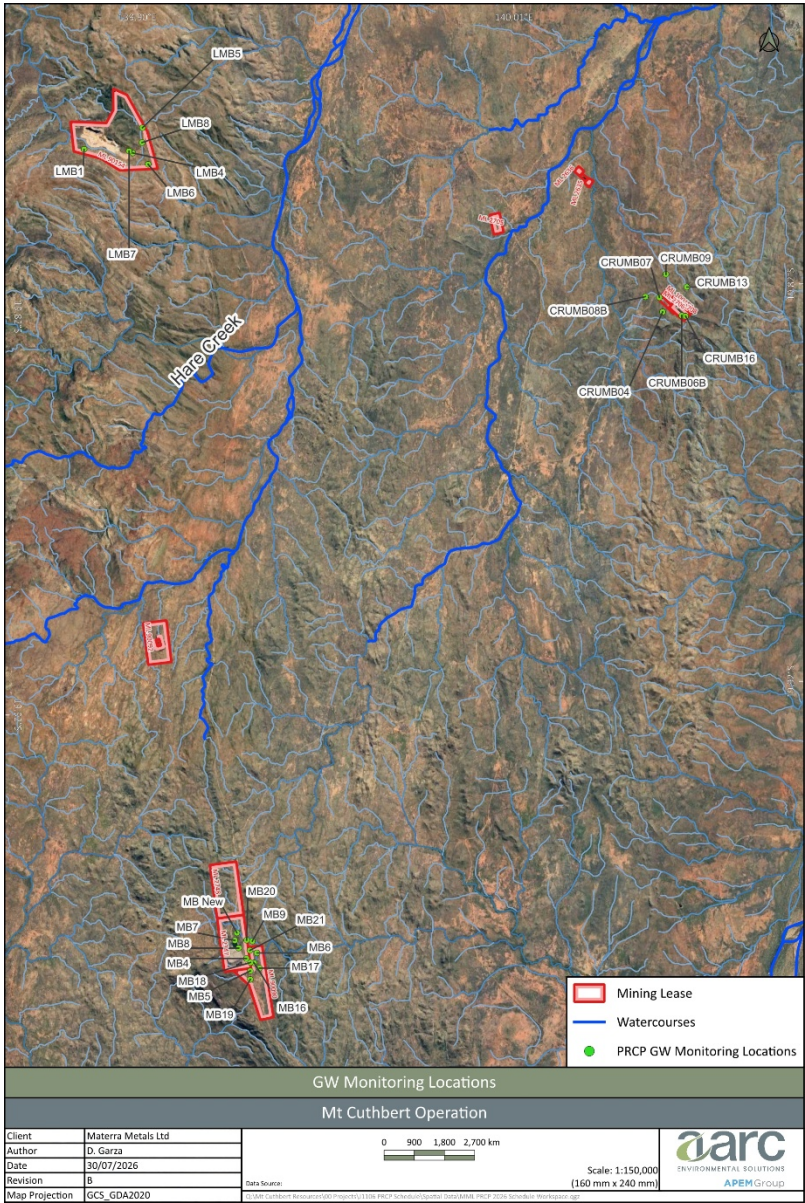


Figure App6-1. Groundwater monitoring locations

[Insert delegate's name.]

Appendix 7 – Groundwater quality limits

Quality characteristic (units)	Monitoring Bore	Limit	Comment on limit
pH (pH units)	All bores	5.7-8.0	Site-specific
Electrical conductivity (µS/cm)	All bores	400	Site-specific ¹
Sulfate (mg/L)	All bores	30	Site-specific ¹
Aluminium - dissolved (µg/L)	All bores	55	ANZG 2018
Arsenic - dissolved (µg/L)	All bores	13	ANZG 2018 ¹
Boron - dissolved (µg/L)	All bores	140	Site-specific
Cadmium - dissolved (µg/L)	All bores	0.2	ANZG 2018
Chromium - dissolved (µg/L)	All bores	1	ANZG 2018
Cobalt - dissolved (µg/L)	All bores	5	Site-specific ¹
Copper - dissolved (µg/L)	All bores	10	Site-specific
Lead - dissolved (µg/L)	All bores	3.4	ANZG 2018
Manganese - dissolved (µg/L)	All bores	920	Site-specific ¹
Mercury - dissolved (µg/L)	All bores	0.06	ANZG 2018
Molybdenum - dissolved (µg/L)	All bores	10	Site-specific ¹
Nickel - dissolved (µg/L)	All bores	11	ANZG 2018 ¹
Selenium - dissolved (µg/L)	All bores	5	ANZG 2018
Vanadium - dissolved (µg/L)	All bores	6	ANZG 2018
Zinc - dissolved (µg/L)	All bores	20	Site-specific
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	All bores	-	For interpretation purposes
Hardness (mg/L)	All bores	-	For interpretation purposes
Water level (mAHD)	All bores	-	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.

ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)

¹ Bore-specific groundwater quality limits are provided in Appendix 7.1 and Appendix 7.2 and apply only to the nominated monitoring bores at the Mt Watson and Mt Cuthbert sites.

[Insert delegate's name.]

Appendix 7.1 – Bore Specific Groundwater quality limits Mt Watson

	LMB1	LMB4	LMB5	LMB6	LMB7	LMB8
Electrical Conductivity (µS/cm)	395	1,380	211	254	959	248
Sulfate (mg/L)	7	240	2		170	6
Arsenic - dissolved (µg/L)						
Cobalt - dissolved (µg/L)			5			
Manganese - dissolved (µg/L)		4,460				

Appendix 7.2 – Bore Specific Groundwater quality limits Mt Cuthbert

	MB4	MB5	MB6	MB7	MB8	MB9	MB16	MB17	MB18	MB19	MB20	MB21
Electrical Conductivity (µS/cm)	3,549	2,166	1,726	4,332	4,344	3,107	3,560	1,398	1,640	1,456	2,429	4,684
Sulfate (mg/L)	2,000	282	197	2,705	2,220	1,100	423	79	450	110	950	2,700
Arsenic - dissolved (µg/L)								54				
Cobalt - dissolved (µg/L)				21	62							12
Manganese - dissolved (µg/L)				4,265	1,695	920					6,100	8,180
Molybdenum - dissolved (µg/L)							154			13		

END OF PRCP SCHEDULE