

PRCP schedule

Environmental Protection Act 1994

PRCP schedule P-PRCP-100761412

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

PRCP schedule: P-PRCP-100761412

PRCP schedule holder(s)

Name(s)	Registered address
GS COAL PTY LTD	Level 44, Gateway Building, 1 Macquarie Place, SYDNEY NSW 2000
J.C.D. AUSTRALIA PTY.LTD.	Level 8, 141 Queen Street, BRISBANE QLD 4000
J-POWER AUSTRALIA PTY. LTD.	Level 30, Riverside Center, 123 Eagle Street, BRISBANE QLD 4000

Location details

Location(s)
ML1787, ML1788, ML1881, ML1884, ML1995, ML2355, ML70334, ML70343 and ML700020

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

29 November 2024

Date

Alison Cummings
Department of the Environment, Tourism, Science
and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Business Centre Coal
PO Box 3028
EMERALD QLD 4720
Phone: (07) 4987 9320
Email: CRMining@des.qld.gov.au



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 by a rehabilitation auditor for the following periods (each an audit period) —
 - (a) the 3-year period starting on the day the schedule takes effect
 - (b) each 3-year period starting on the day after the previous audit period ended.
- the holder must, within 4 months after the end of each audit period, give 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 - Final site design and reference maps
- Section C - Post mining land uses
- Section D - Non-use management areas
- Section E - Attachments
- Section F - Definitions

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 comply with each milestone criterion stated in the schedule.
- PRCP2** Where land becomes available for rehabilitation earlier than the nominated 'Date area is available', progressive rehabilitation for that land must commence as soon as practicable. Progressive rehabilitation commenced early under this condition must be carried out in accordance with the milestones and criteria in this schedule, except that each of the dates by which milestones are to be completed is brought forward by the same amount of time as the commencement was brought forward.
- PRCP3** Where an area achieves a rehabilitation milestone, it must be maintained and continue to comply with the rehabilitation milestone criteria for that rehabilitation milestone until the next rehabilitation milestone is achieved.
- PRCP4** Where an area has achieved the final rehabilitation milestone, it must be maintained and continue to comply with the rehabilitation milestone criteria for the final milestone and continue to be in a stable condition¹, until the area is progressively certified according to the requirements of the EP Act, or that area is surrendered.
- PRCP5** Monitoring and maintenance must be carried out in accordance with:
- (a) the monitoring and maintenance program described in the rehabilitation planning part relating to this PRCP schedule; and
 - (b) any requirement under this PRCP schedule.
- PRCP6** The holder must keep records in relation to relevant matters for a minimum of five years and provide such records to the administering authority on request.
- Relevant matters for this condition include, but are not necessarily limited to, the following:
- (a) rehabilitation activities and the results of these activities;
 - (b) maintenance activities and the results of maintenance activities;
 - (c) monitoring activities and the results of monitoring;
 - (d) designs, drawings, specifications or any similar documents required under the PRCP schedule; and

¹ 'Stable condition' means land is in a stable condition if—the land is safe and structurally stable, and there is no environmental harm being caused by anything on or in the land, and the land can sustain a PMLU.

- (e) certifications, assessments, investigations, inspections, audits or any similar processes carried out in relation to rehabilitation milestones or milestone criteria

PRCP7 Rehabilitation of any land disturbed by mining activities on tenure mining lease (ML) 1904 since the date that tenure was granted, 31 March 1983, remains the responsibility of the environmental authority holder, and holder of this schedule, and all rehabilitation must be conducted in accordance with the progressive rehabilitation and closure plan and schedule insofar as they apply to ML700020.

Note: The administering authority acknowledges that ML1904 has been conditionally surrendered in favour of ML700020 under the provisions of the Mineral Resources Act 1989.

PRCP8 By 10 December 2025, the holder must submit a report to the administering authority which:

- (a) Proposes monitoring locations and hydrogeological units to replace all 'TBD' values in Attachment 5 – Groundwater Monitoring Locations; and
- (b) Considers the requirements of the administering authority's, or its successor's, most recent edition of the Guideline: "Using monitoring data to assess groundwater quality and potential environmental impacts" (DES,2021).

PRCP9

- (a) The administering authority and holders agree that PRCP conditions should, where possible, be based on site-specific data.
- (b) The administering authority and holders note that some of the criteria in Attachment 4 – Surface Water Quality Limits, Attachment 6 – Groundwater Quality Limits, and the erosion rates in RM11(a), are not currently based on site-specific data.
- (c) Prior to the application of RM10 and RM11, the holders intend to apply to the administering authority to amend the PRCP schedule to replace the criteria in Attachment 4 – Surface Water Quality Limits and Attachment 6 – Groundwater Quality Limits, and the erosion rates in RM11(a), with site-specific data.
- (d) The administering authority must consider the site-specific data provided by the holders when deciding such amendment application.

PRCP10 Within 5 years of the approval of the PRCP schedule the holder must:

- (a) Collect measured, site-specific erosion data sufficient to establish the site-specific erosion rate; and
- (b) Provide (a) to the administering authority.

END OF CONDITIONS

Section B - Final site design and reference maps

List of figures:

1. Final Site Design – Clermont Mine
2. Final Site Design – Cement Hill
3. Final Site Design – Overland Conveyor
4. Final Site Design – Train Loadout
5. Rehabilitation Area 1
6. Rehabilitation Area 2
7. Rehabilitation Area 3
8. Rehabilitation Area 4
9. Rehabilitation Area 5
10. Rehabilitation Area 6
11. Improvement Area 1

Figure 1. Final Site Design – Clermont Mine

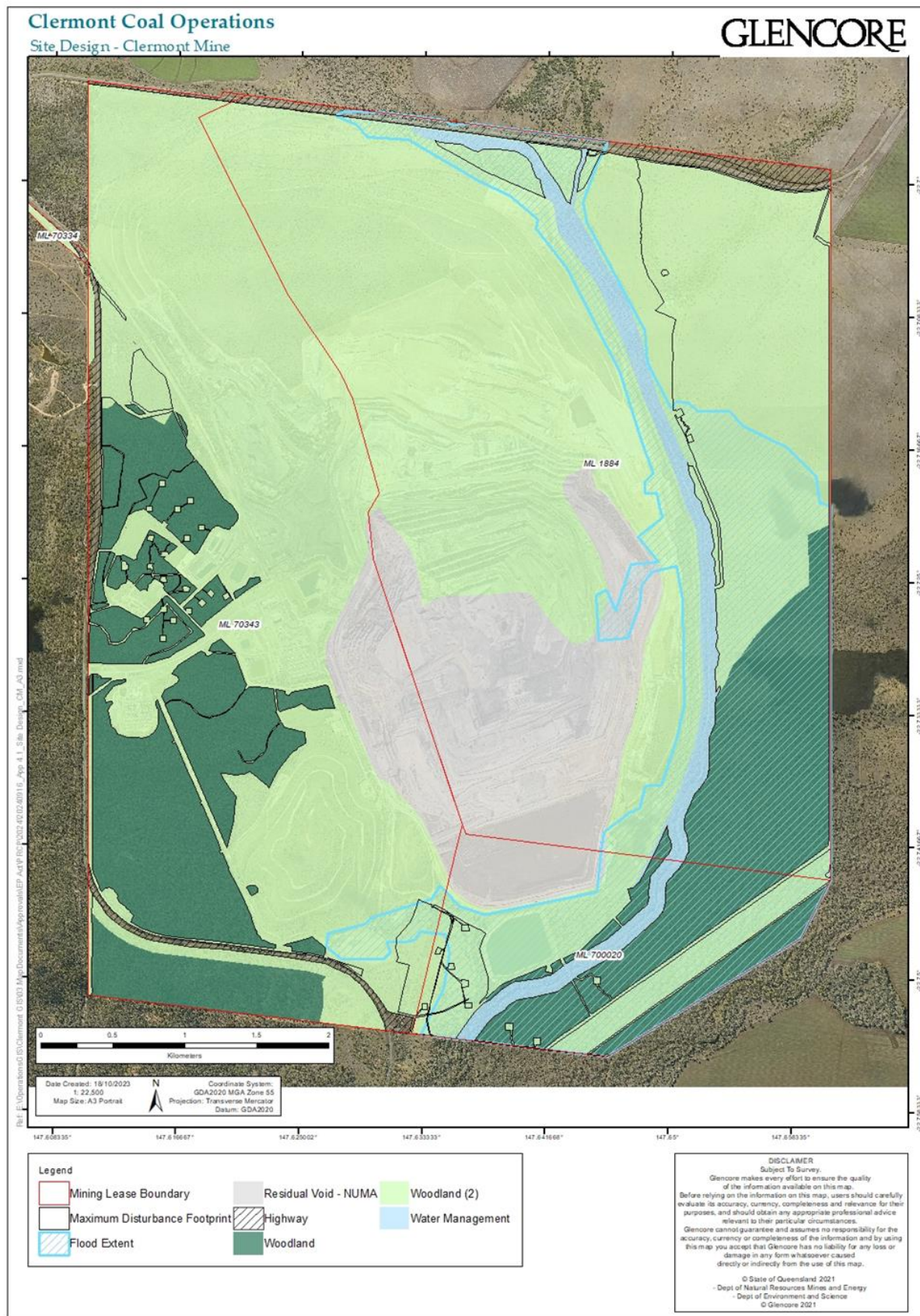


Figure 2. Final Site Design – Cement Hill

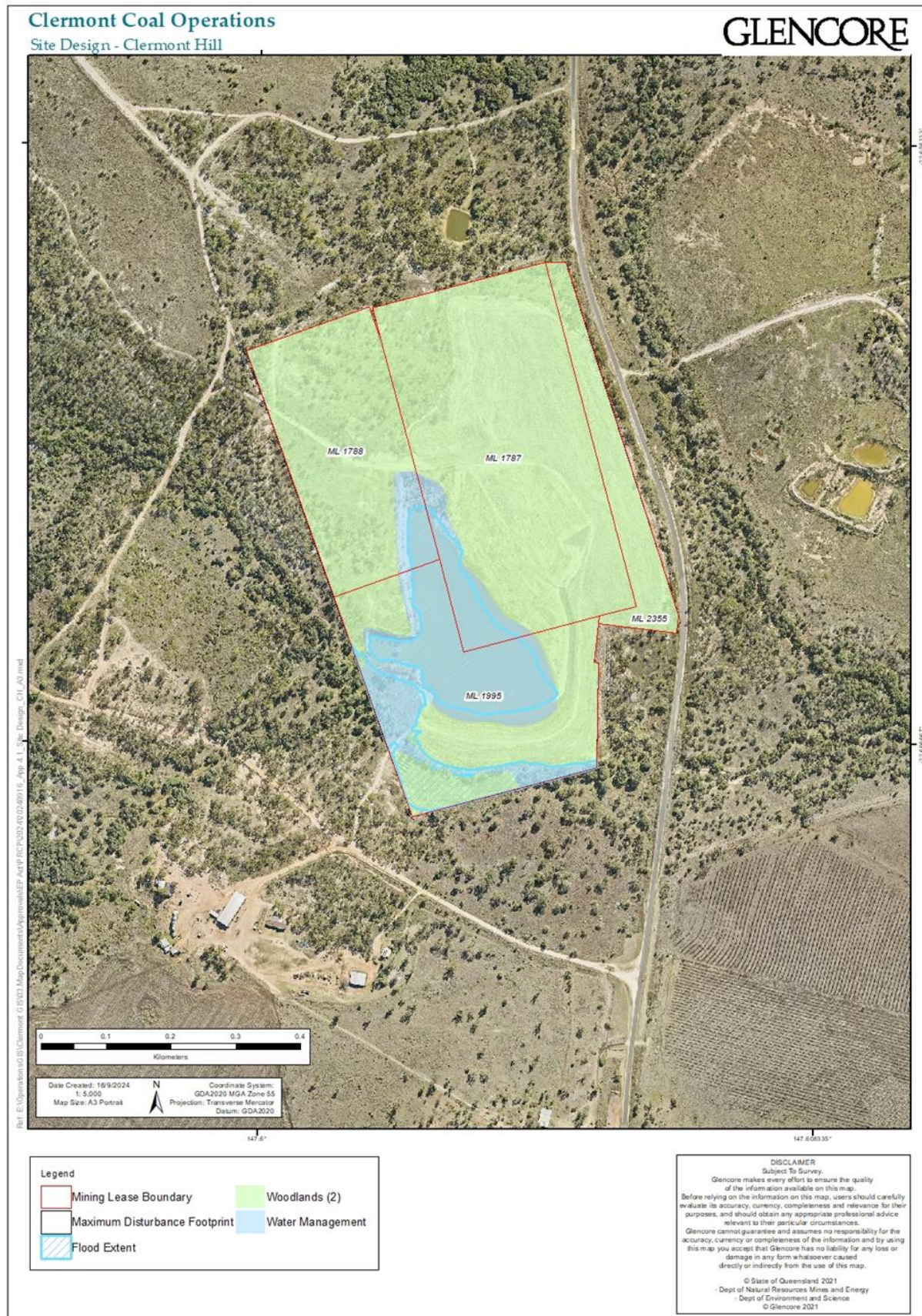


Figure 3. Final Site Design – Overland Conveyor

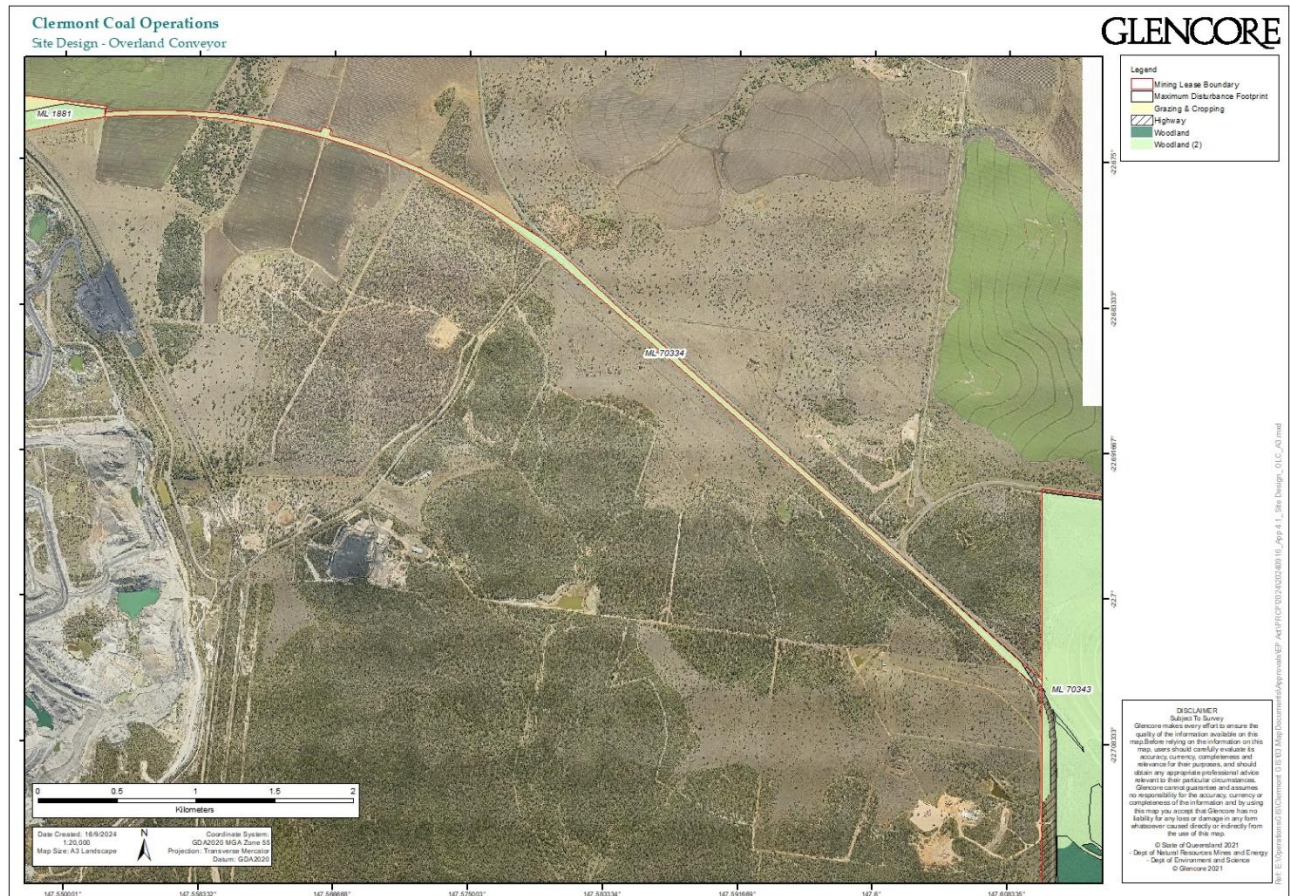


Figure 4. Final Site Design – Train Loadout

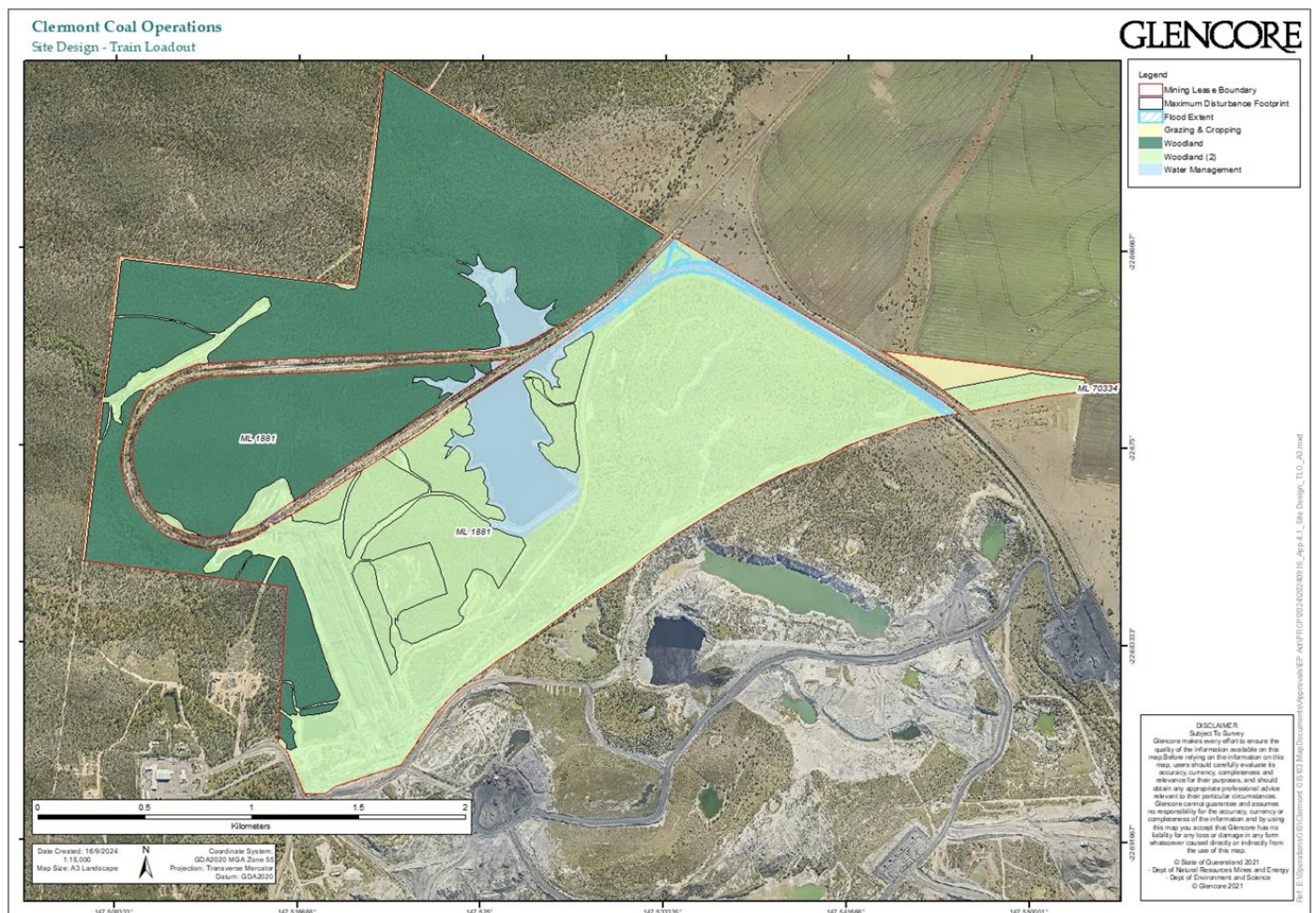


Figure 5. Rehabilitation Area 1

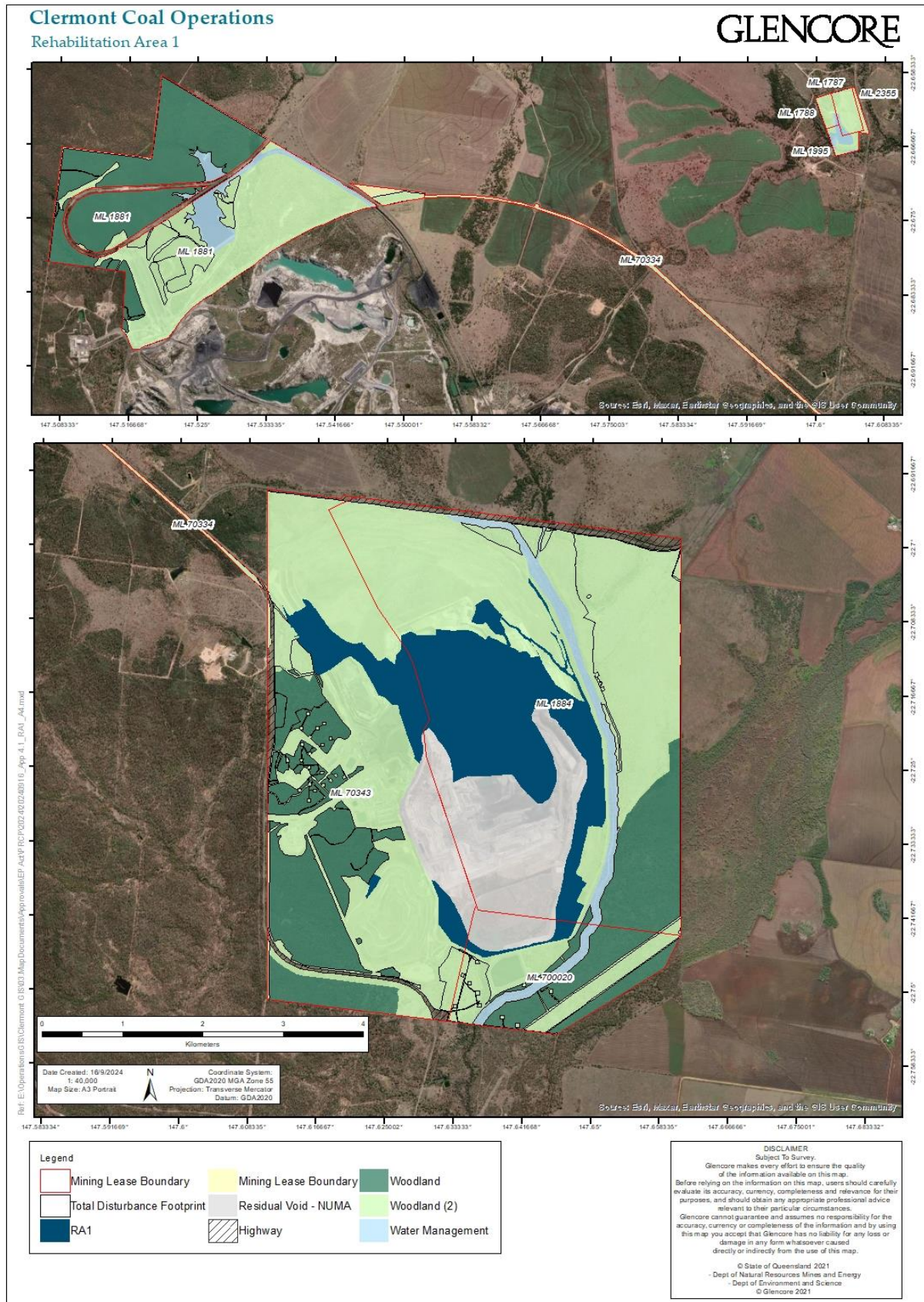


Figure 6. Rehabilitation Area 2

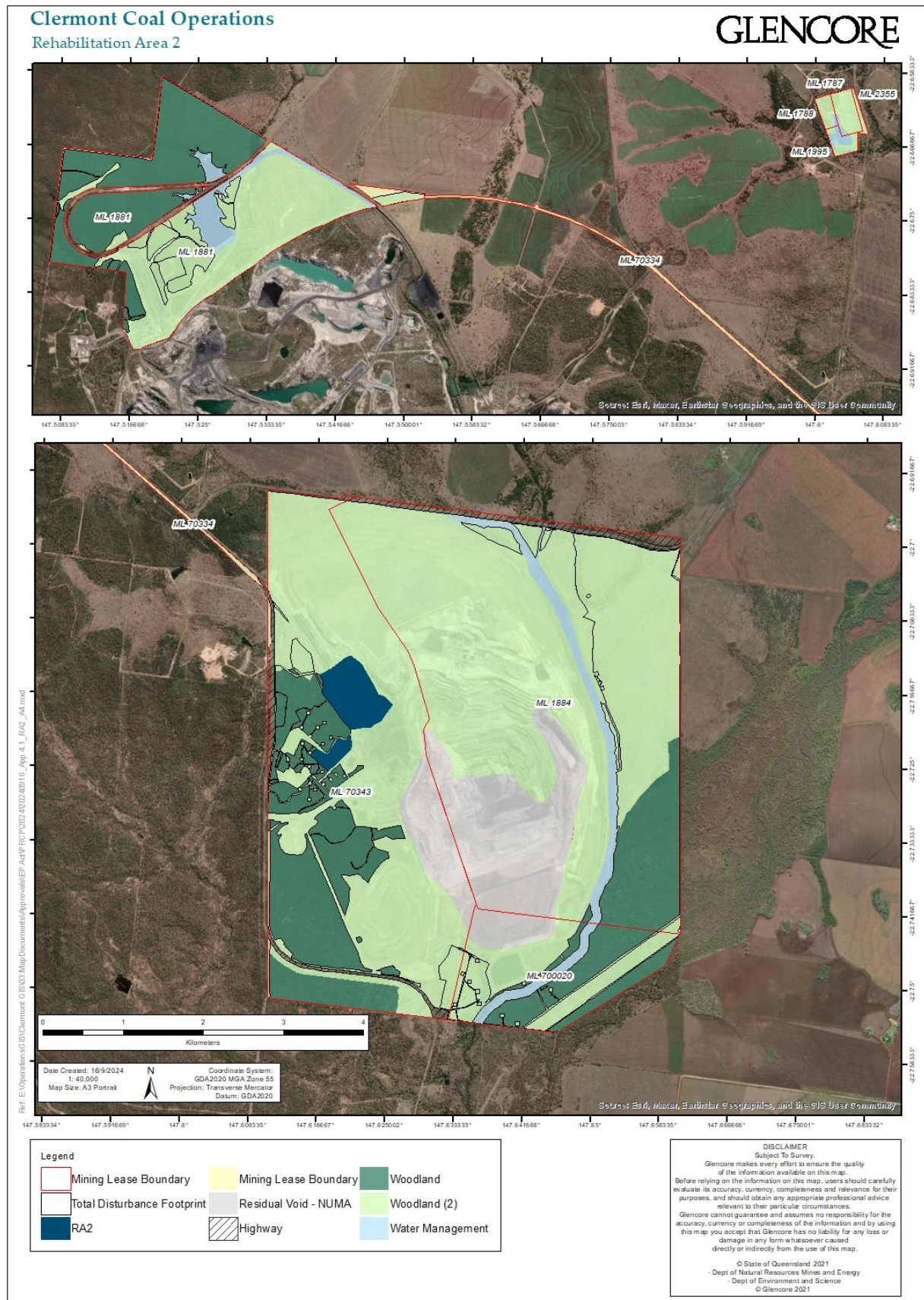


Figure 7. Rehabilitation Area 3

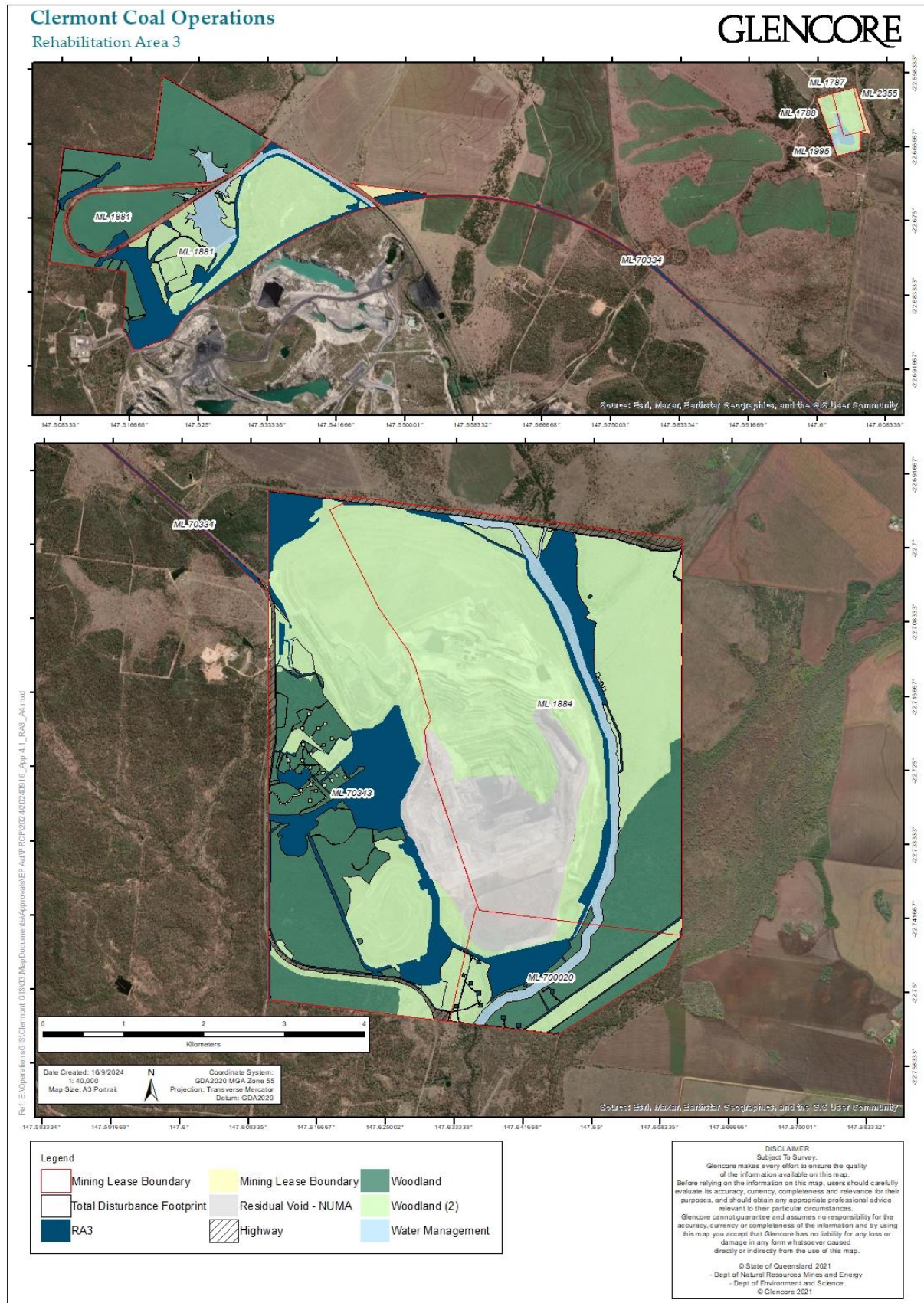


Figure 8. Rehabilitation Area 4

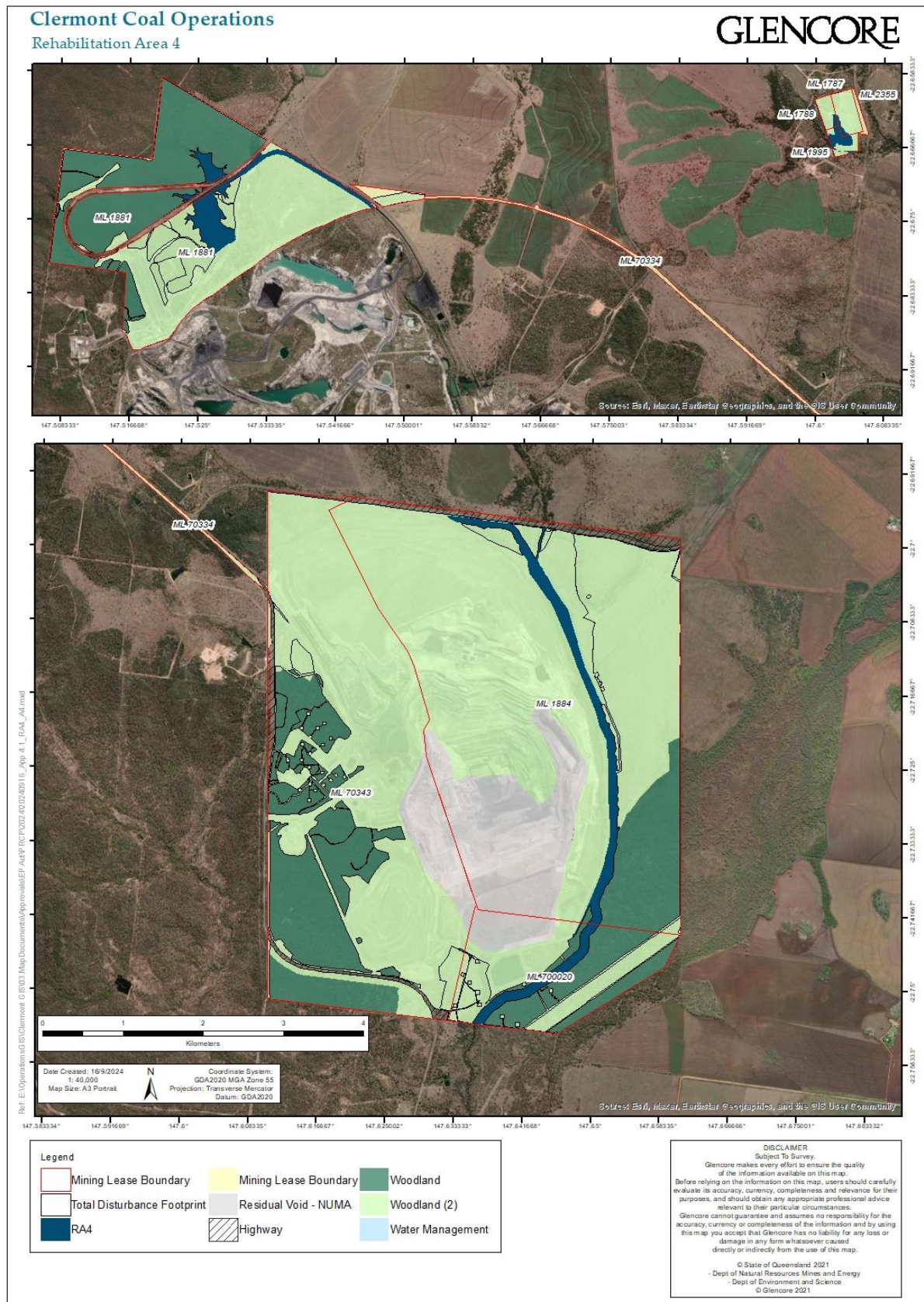


Figure 9. Rehabilitation Area 5

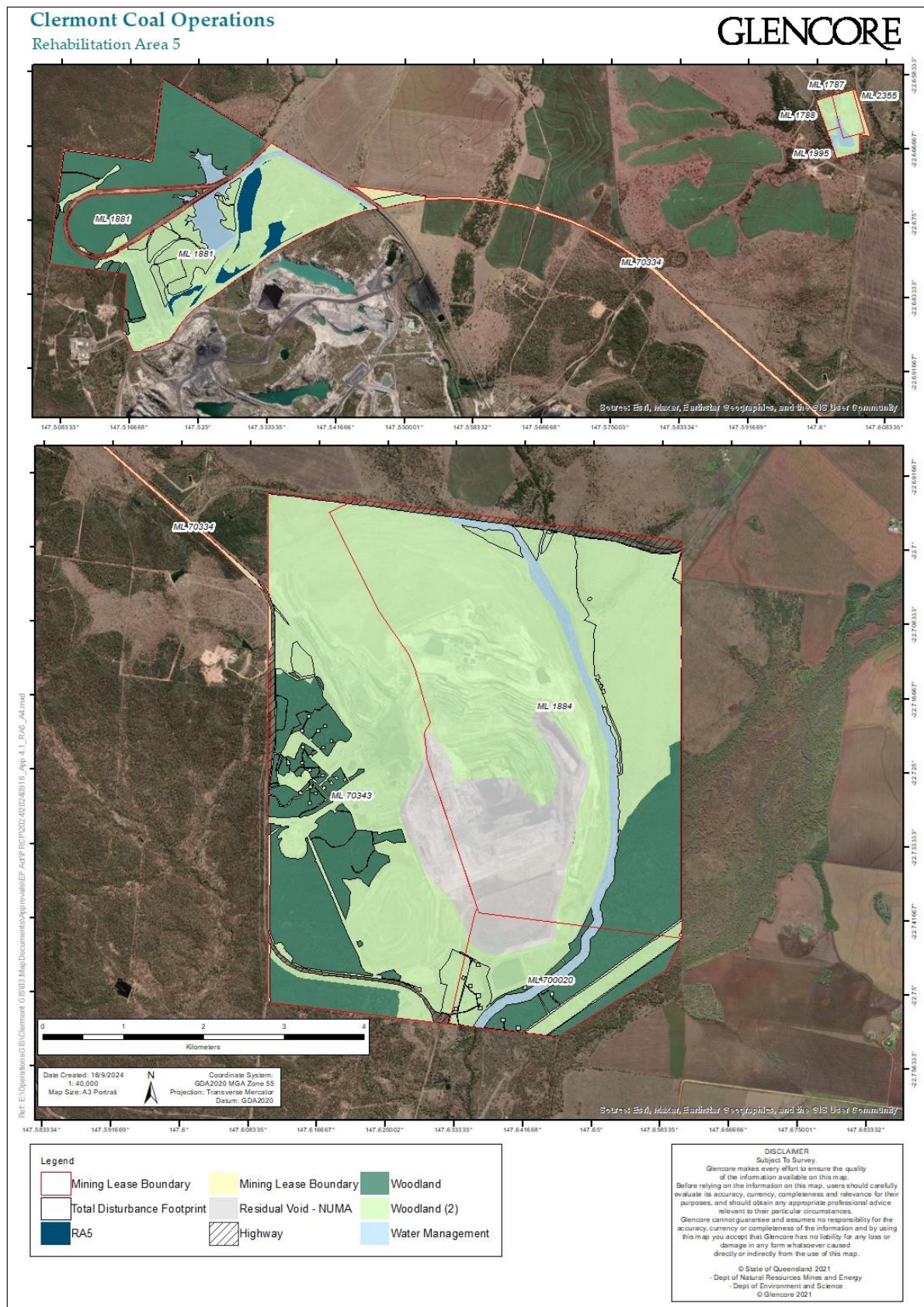


Figure 10. Rehabilitation Area 6

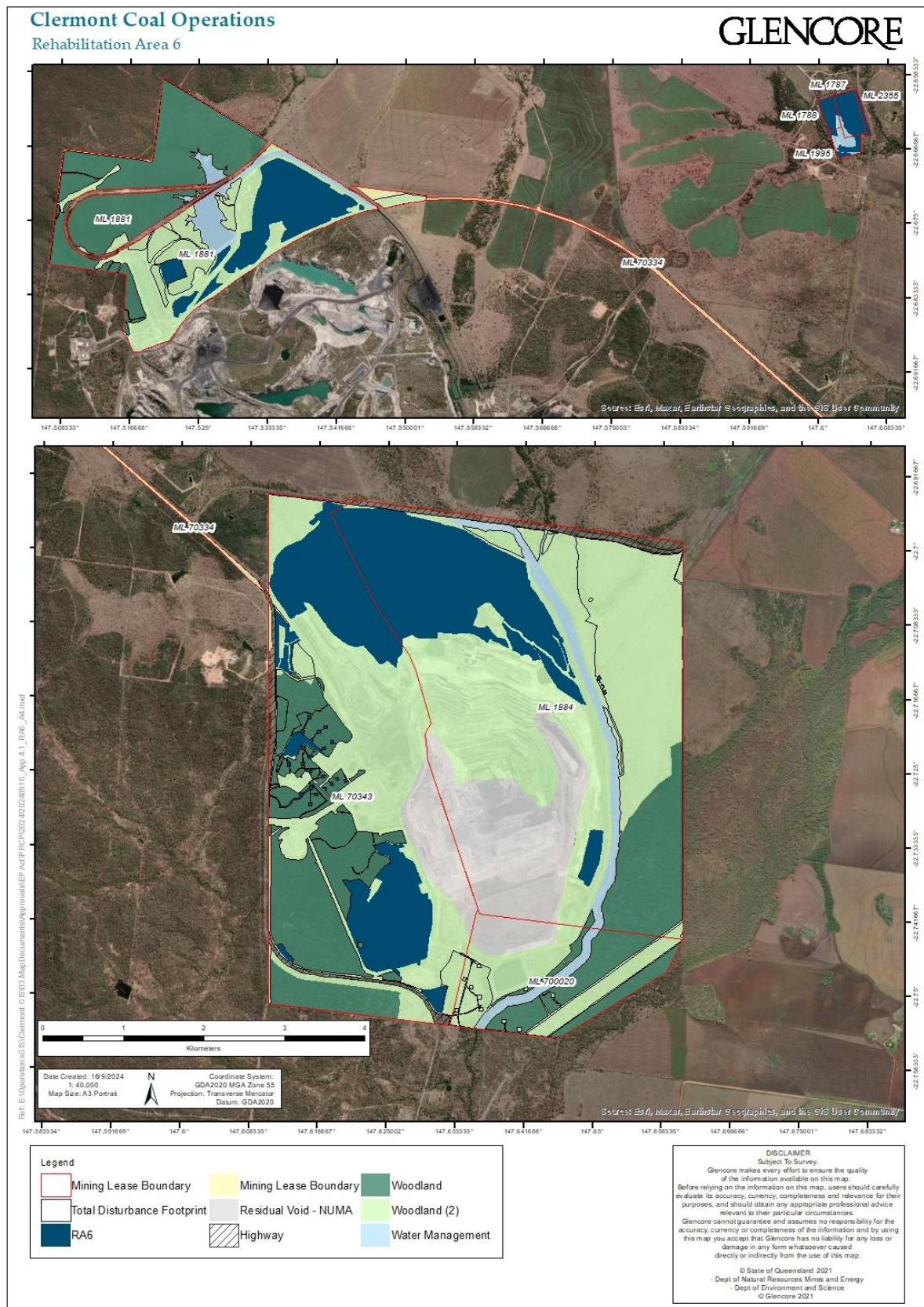
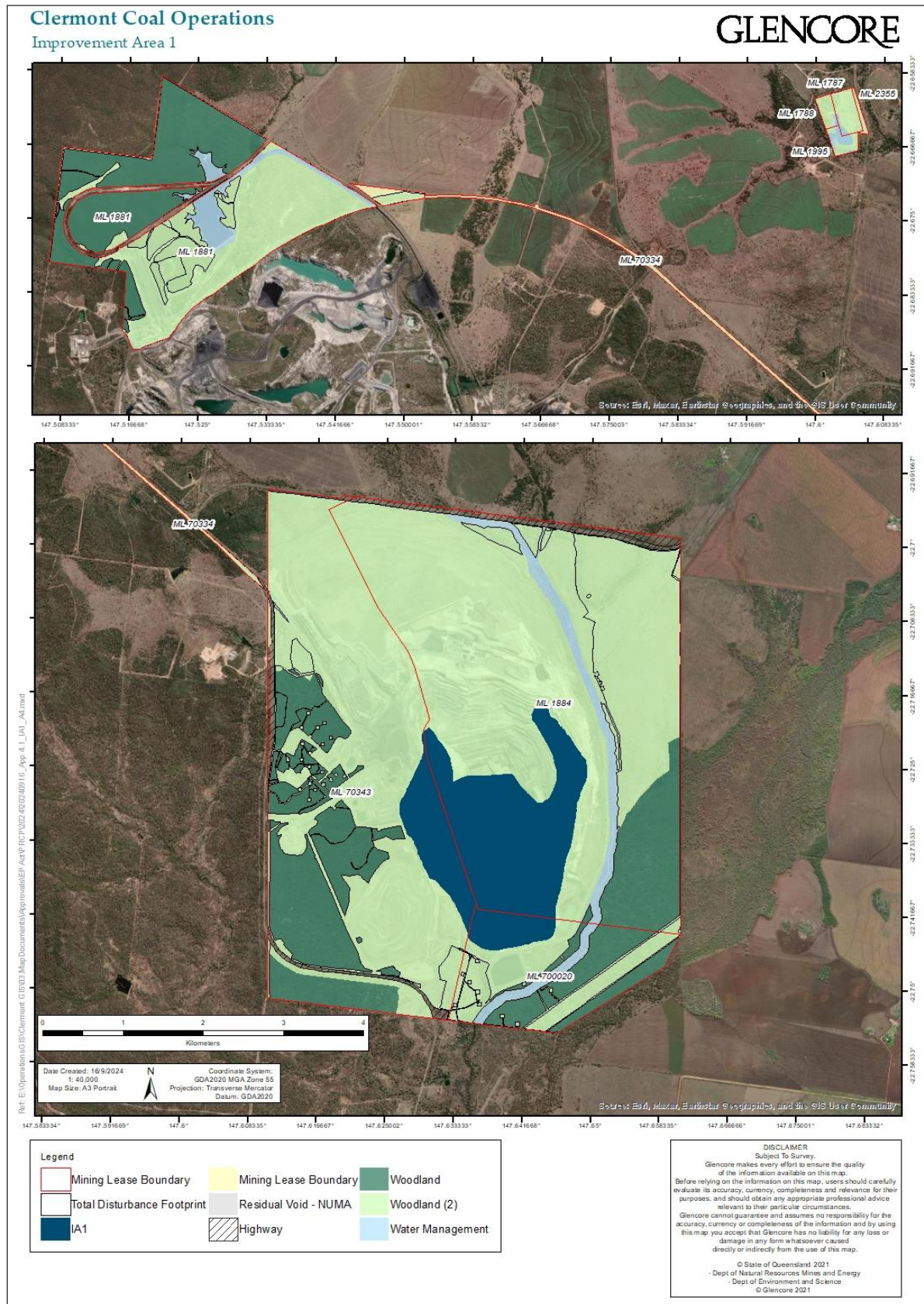


Figure 11. Improvement Area 1



Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)																				
Rehabilitation area				RA1																
Relevant activities				Waste Rock Dump (WRD). Includes: All North-West WRD (360 dump) and southern face of North WRD, South-West WRD, South-East WRD at CM																
Total rehabilitation area size (ha)				489																
Commencement of first milestone: RM1				01/01/2025																
PMLU				Woodland ²																
Date area is available	10/12/24	10/12/25	10/12/26	10/12/27	10/12/28	10/12/30	10/12/31	10/12/32	10/12/33	10/12/34										
Cumulative area available (ha)	40	80	80	186	186	286	416	416	469	489										
Milestone completed by	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/37	10/12/39	10/12/40	10/12/41	10/12/42	10/12/43	10/12/44	10/12/45	10/12/46
Milestone Reference	Cumulative area achieved (ha)																			
RM1	40	80		186		286	416		469	489										
RM4	40	80		186		286	416		469	489										
RM5		40	80		186		286	416		469	489									
RM6		40	80		186		286	416		469	489									
RM7		40	80		186		286	416		469	489									
RM8									40	80		186		286	416		469	489		
RM9											40	80	186			286	416		469	489
RM10																				489
RM11																				489

² Woodland includes grazing as a land management tool.

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)														
Rehabilitation area	RA2													
Relevant activities	CM Tailings. Includes: Megacell (18ha) area and Tailings Settling Cells (10.5ha)													
Total rehabilitation area size (ha)	60													
Commencement of first milestone: RM1	1/01/2025													
PMLU	Woodland ²													
Date area is available	10/12/24	10/12/27	10/12/28	10/12/29	10/12/32									
Cumulative area available (ha)	18	44	44	44	60									
Milestone completed by	10/12/26	10/12/28	10/12/29	10/12/30	10/12/33	10/12/34	10/12/35	10/12/37	10/12/38	10/12/39	10/12/40	10/12/43	10/12/45	10/12/46
Milestone Reference	Cumulative area achieved (ha)													
RM1	18	44			60									
RM2	18	44			60									
RM3	18	28.5												
RM4		18	44			60								
RM5			18	44			60							
RM6			18	44			60							
RM7			18	44			60							
RM8								18	44			60		
RM9										18	44		60	
RM10														60
RM11														60

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)														
Rehabilitation area				RA3										
Relevant activities				Infrastructure removed										
Total rehabilitation area size (ha)				538										
Commencement of first milestone: RM1				1/01/2027										
PMLU				Woodland ²										
Date area is available	10/12/26	10/12/27	10/12/31	10/12/32	10/12/33	10/12/34								
Cumulative area available (ha)	52	52	122	258	388	538								
Milestone completed by	10/12/27	10/12/28	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/38	10/12/41	10/12/42	10/12/43	10/12/44	10/12/45	10/12/46
Milestone Reference	Cumulative area achieved (ha)													
RM1	52		122	258	388	538								
RM2	52		122	258	388	538								
RM4		52		122	258	388	538							
RM5		52		122	258	388	538							
RM6		52		122	258	388	538							
RM7		52		122	258	388	538							
RM8							52		122	258	388	538		
RM9								52			122	258	388	538
RM10														538
RM11														538

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)														
Rehabilitation area			RA4											
Relevant activities			Water Management Areas. Includes: Gowrie Creek Diversion (CM), Residual Void (CH), West Dam, Northern Boundary and Eastern Diversion (TLO)											
Total rehabilitation area size (ha)			148											
Commencement of first milestone: RM1			1/01/2028											
PMLU			Water Management											
Date area is available	10/12/27	10/12/29	10/12/30	10/12/31	10/12/32									
Cumulative area available (ha)	93	93	93	141	148									
Milestone completed by	10/12/29	10/12/30	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/39	10/12/41	10/12/42	10/12/43	10/12/44	10/12/45	10/12/46
Milestone Reference	Cumulative area achieved (ha)													
RM1	93			141	148									
RM4		93			141	148								
RM5		93			141	148								
RM6		93			141	148								
RM7			93			141	148							
RM8								93		141	148			
RM9									93			141	148	
RM10														148
RM11														148

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)									
Rehabilitation area	RA5								
Relevant activities	TLO Waste Rock Dumps (WRDs) Includes: Historic Blair Athol/ TLO Rehabilitation completed from 1980s to 2000s								
Total rehabilitation area size (ha)	29								
Commencement of first milestone: RM1	1/01/2033								
PMLU	Woodland ²								
Date area is available	10/12/32								
Cumulative area available (ha)	29								
Milestone completed by	10/12/33	10/12/34	10/12/42	10/12/44	10/12/46				
Milestone Reference	Cumulative area achieved (ha)								
RM1	29								
RM4		29							
RM5		29							
RM6		29							
RM8			29						
RM9				29					
RM10					29				
RM11					29				

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)															
Rehabilitation area	RA6														
Relevant activities	Existing Rehabilitation														
Total rehabilitation area size (ha)	762														
Commencement of first milestone: RM8	1/01/2025														
PMLU	Woodland ²														
Date area is available	10/12/24	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/32						
Cumulative area available (ha)	50	100	150	250	350	450	550	720	762						
Milestone completed by	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/37	10/12/38	10/12/46
Milestone Reference	Cumulative area achieved (ha)														
RM8	50	100	150	250	350	450	550	720	762						
RM9			50	100				150	250	350	450	550	720	762	
RM10															762
RM11															762

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal; or retention for handover	1.1 With the exception of any infrastructure to remain as part of the post-mining land use (PMLU) or where infrastructure is agreed to be retained by the landholder as evidenced by a signed landholder agreement, the following are complete: (a) All services (water, electricity, gas, etc.) disconnected; (b) All asbestos and other hazardous materials removed; (c) All buildings demolished and removed; (d) All pipelines decommissioned; (e) All fencing removed; (f) All roads decommissioned; and (g) All boreholes decommissioned. 1.2 All general waste³ and demolition waste⁴ has been: (a) Removed; or (b) Disposed of where authorised by environmental authority EPML00634113. 1.3 Transfer of ownership agreements in place for all water management infrastructure to be retained.
RM2	Identification and remediation of contaminated land	2.1 Preliminary site investigation (PSI) completed. 2.2 A detailed site investigation (DSI) has been completed where the PSI completed under criterion RM2(a) identifies contamination is present, or is likely to be present, and said contaminated material is likely to result in a risk to human health or cause environmental harm. 2.3 Where contaminated material is identified under criterion RM2.2, all contaminated material is either: (a) Remediated; (b) Removed and disposed of at a licenced facility; or (c) Disposed of as per the Contaminated Land Investigation Document (CLID) and Site Management Plan (SMP). 2.4 The site suitability statement⁵ states the land is not contaminated land and is not unsuitable for the proposed PMLU.

³ 'General waste' means pipes and liners (HDPE or poly), electrical cables and power poles.

⁴ 'Demolition waste' means waste streams generated from construction, renovation, repair, and demolition of large building structures, roads and dams. Demolition waste includes wood, steel, concrete, masonry, plaster, metal, glass, bitumen and asphalt.

⁵ 'Site suitability statement' retains its definition under the EP Act.

		2.5 Auditor certifies, as per <i>Environmental Protection Act 1994</i> (EP Act) (Qld), that all contaminated materials have been remediated, or removed and disposed of. 2.6 Land is removed from Contaminated Land Register. 2.7 Land is removed from Environmental Management Register if feasible.
RM3	Installation of cap on tailings	3.1 The Megacell is geotechnically stable. 3.2 The Megacell has been fully encapsulated with a cap of $\geq 10\text{m}$ of non-acid forming (NAF) material. 3.3 There is no evidence of saline, metalliferous or acid mine drainage from the Megacell to the receiving environment. 3.4 Tailings settling cells comply with the following: (a) All tailings and coal fines have been excavated and disposed of within WRDs; and (b) Earthworks are completed to remove berms and fully backfilled to the surrounding natural surface level. 3.5 Piezometers remain installed as per Attachment 11 – Piezometer Monitoring Locations.
RM4	Bulk earthworks and general reshaping	4.1 External dump slopes constructed to the following specifications: (a) Average slope angle is $\leq 20\%$ between bench drains; (b) Horizontal slope length between bench drains is $< 125\text{m}$. 4.2 Bench drains are constructed to the following specifications: (a) Between areas of tri-linear batters; (b) To direct flow to stormwater chutes; (c) With a $\geq 300\text{mm}$ freeboard from design water level to top level of drain, where drains are $\geq 1\text{m}$ deep. 4.3 Stormwater chutes are constructed to the following specifications: (a) To capture flow for a $\leq 10\%$ AEP critical duration event; (b) To direct flow of water from bench drains to receiving environment or final void. (c) With geofabric and rock armouring, where flow velocity is > 1.5 metres per second (m/s). 4.4 Reactive material⁶ is not exposed on landform surface and is covered with $\geq 10\text{m}$ of non-acid forming (NAF) material.

⁶ 'Reactive material' means material which is:

- (a) Capable of Acid Mine Drainage (AMD) as defined by meeting either of the following criteria:
- (i) Material is Potentially Acid Forming (PAF) as identified by:

RM5	Placement of topsoil or growth medium	5.1 Topsoil or growth medium placed at a depth ≥ 100mm (millimetres). 5.2 Topsoil or growth medium is tested prior to placement on the landform under RM5.1 for the parameters in Attachment 1 – Soil Quality Criteria. 5.3 Where the topsoil or growth medium tested under RM5.2 does not meet the criteria of Attachment 1, the topsoil or growth medium is ameliorated and fertilised to achieve all criteria in Attachment 1 for RM5. 5.4 Contour ripping completed at the following depths: (a) ≥ 500mm for WRD slopes; (b) ≥ 300mm for WRD plateaus; and (c) ≥ 100mm for all other areas.
RM6	Seeding	6.1 With the exception of non-persistent cover crop species, the seed mix contains only those species listed in Attachment 2 – Seed Mix Species List for the relevant PMLU 6.2 Seed mix applied at a rate ≥ 7 kilograms per hectare (kg/ha). 6.3 Livestock are excluded from newly seeded areas via physical or virtual fencing.
RM7	Water management in the final landform	7.1 All dams⁷, which are to remain as part of the PMLU or are to be retained as evidenced by a written and signed landholder agreement for their retainment, comply with the following: (a) Safely accessible by humans and livestock; (b) All contaminated sediment has been removed; and (c) Electrical conductivity is $\leq 5,000 \mu\text{S}/\text{cm}$. 7.2 All dams⁷ which are not to remain or be retained under criterion RM7.1, comply with the following: (a) Where present, liners are removed; (b) All contaminated sediment has been removed; and (c) Earthworks are completed to decommission dam walls. 7.3 Water licences for diversions and impoundments are surrendered or transferred to a third-party.

- (A) Total Sulfur (S) content $> 0.5\%$; and
 (B) Net Acid Producing Potential (NAPP) > 10 kilograms per tonne (kg/t) H_2SO_4 ; or
 (ii) Material is Potentially Acid Forming - Low Capacity (PAF-LC) as identified by:
 (A) Total S $> 0.05\%$; and
 (B) NAPP of $0 < \text{NAPP} \leq 10$ kg/t H_2SO_4 ; and
 (c) Net Acid Generation (NAG) $\text{pH} < 4.5$; or
 (b) Otherwise, prone to, or capable of, spontaneous combustion.

⁷ Including dams which are regulated structures.

RM8	Achievement of surface requirements	8.1 Vegetation groundcover is $\geq 50\%$. 8.2 Proportion of Category 3 restricted invasive plant species⁸ and Weeds of National Significance⁹ is $< 10\%$ of total vegetative groundcover. 8.3 The landform is free draining, with exception of water management infrastructure retained under RA4, and there is no evidence of any of the following: (a) Vegetation die-back localised in low points on the landform surface; or (b) Salt rise as evidenced by salt deposition at the landform surface. 8.4 An AQP certifies that there is no erosion classified as 'moderate' or 'severe' as defined by Attachment 7 – Erosion Classification Framework. 8.5 Despite RM8.4 erosion is acceptable in the achievement of surface requirements provided an AQP certifies that all active erosion has been identified and remediation activities have been completed. 8.6 There is no evidence of saline, metalliferous or acid mine drainage from landforms to the receiving environment. 8.7 There is no evidence of spontaneous combustion or self-heating material on the landform surface. 8.8 Groundwater monitoring of seepage from RA2 demonstrates the trend in groundwater levels is not rising over 5 consecutive years.
RM9	Achievement of PMLU to a safe, stable, non-polluting, and self-sustaining condition	9.1 Vegetation groundcover $\geq 80\%$. 9.2 Proportion of Category 3 restricted invasive plant species⁸ and Weeds of National Significance⁹ is $< 10\%$ of total vegetative groundcover. 9.3 The landform is free draining, with exception of water management infrastructure retained under RA4, and there is no evidence of any of the following: (a) Vegetation die-back localised in low points on the landform surface; or (b) Salt rise as evidenced by salt deposition at the landform surface. 9.4 There is no evidence of saline, metalliferous or acid mine drainage from landforms to the receiving environment. 9.5 A rehabilitation performance assessment is completed using the methodology outlined in Attachment 8 – Approved Method of Assessment.

⁸ Defined by the *Biosecurity Act 2014*.

⁹ Defined by *Invasive Plants and Animals Committee 2016, Australian Weeds Strategy 2017 to 2027*, Australian Government Department of Agriculture and Water Resources, Canberra.

		9.6 The rehabilitation performance assessment completed under RM9.5 meets the benchmark criteria in: (a) Attachment 9 – Benchmark Criteria for RA1-RA5 for the relevant PMLU; and (b) Attachment 10 – Native Ecosystem Benchmark Criteria for RA6. 9.7 Risk Assessment demonstrates risks in the rehabilitation area are similar to risks in neighbouring unmined landscapes subject to a similar PMLU.
RM10	Surface water and groundwater demonstrate non-polluting landform	10.1 Surface water quality results monitored monthly during flow at, but not limited to, downstream locations specified in Attachment 3 – Surface Water Monitoring Locations, must not exceed the limits in Attachment 4 – Surface Water Quality Limits, for a minimum of 5 consecutive years. 10.2 If (A) the surface water quality results exceed the criteria in RM10.1; and (B) if there is flow at both the upstream and downstream monitoring location for each creek; then, each year by 1 November, an AQP must complete and provide to the administering authority an assessment of the cause of the exceedance and risk of rehabilitation not achieving a stable condition. Where the assessment concludes: (a) that there is a low risk to achieving a stable condition, then no further action is to be taken; (b) that there is a risk greater than low to achieving a stable condition, then an assessment of potential environmental harm and any changes or rectification actions to rehabilitation activities must be determined and implemented. 10.3 If RM10.2(b) is triggered, then the 5 year timeframe under RM10.1 is reset. 10.4 Groundwater quality results monitored quarterly at, but not limited to, the monitoring locations specified in Attachment 5 – Groundwater Monitoring Locations, for all quality characteristics listed in in Attachment 6 – Groundwater Quality Limits, for a minimum of 5 consecutive years, must not exceed the limits in in Attachment 6, for 3 consecutive results. 10.5 Groundwater quality results demonstrate any seepage from the Megacell has a pH >7 and is primarily migrating towards the CM void with no impacts on water quality detected in the alluvial aquifer.
RM11	Erosion demonstrates stable landform	11.1 Average erosion rate on the landform is <5t/ha/yr with the maximum erosion rate at any point on the landform <10t/ha/yr. 11.2 An AQP certifies that there is no erosion classified as 'moderate' or 'severe' as defined by Attachment 7 – Erosion Classification Framework. 11.3 Despite RM11.2 gullies are acceptable in the achievement of a stable landform provided they meet the following criteria as certified by an AQP: (a) does not exceed 1m in depth at any point; and (b) has not exposed environmentally problematic materials; and

		(c) the cause of the gully is known and has been resolved; and (d) has established and persistent vegetation cover and/or rock armouring at the head of the gully; and (e) is in a stabilised state, demonstrated by monitoring data over a 5 year period; and (f) does not provide a safety hazard within the context of the PMLU; and (g) does not impact the stability or performance of bench drains or stormwater chutes; and (h) are isolated.
--	--	--

Section D – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)									
Improvement area	IA1								
Relevant activities	Residual Void NUMA (CM)								
Total size (ha)	400								
Commencement of first milestone: MM1	1/01/2029								
NUMA	Residual Void								
Date area is available	10/12/28	10/12/30	10/12/31						
Cumulative area available (ha)	150	300	400						
Milestone completed by	10/12/30	10/12/31	10/12/32	10/12/35	10/12/36	10/12/37	10/12/38	10/12/39	10/12/40
Milestone Reference	Cumulative area achieved (ha)								
MM1	150	300	400						
MM2				150	300	400			
MM3							150	300	400

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Highwall and Low wall treatment	1.1 Low wall treatments are completed, including: (a) Low wall reshaped to 20m high tri-linear slope design which allows for safe egress from final void; (b) Bench drains are constructed between tri-linear slopes; (c) Bench drains are constructed to direct flow to stormwater chutes (d) Stormwater chutes direct flow from bench drains to void floor; (e) Topsoil applied to low wall above an elevation of 108mAHD and at a depth $\geq 100\text{mm}$; and (f) With the exception of a non-permanent cover crop species, the seed mix contains only those species listed in Attachment 2 – Seed Mix Species List; (g) Seed mix is applied to low wall above an elevation of 108mAHD and at a rate $\geq 7\text{kg/ha}$ 1.2 Western wall treatments are completed, including: (a) Weathered zone is laid back to 1V:3H; (b) Topsoil applied to upper half of layback at a depth $\geq 100\text{mm}$; (c) With the exception of a non-permanent cover crop species, the seed mix contains only those species listed in Attachment 2 – Seed Mix Species List; and (d) Seed mix is applied to upper half of layback and at a rate $\geq 7\text{kg/ha}$; and (e) Rock mulch is applied to lower half of layback. 1.3 All highwalls achieve a Factor of Safety (FoS) ≥ 1.2. 1.4 Set-back for highwalls achieves: (a) A FoS ≥ 1.5 as per the arrangement depicted in Figure 1 of Attachment 12 – Highwall Setback Schematics; or (b) A FoS ≥ 1.3 as per the arrangement depicted in Figure 2 of Attachment 12 and only for the segment between points 'A' and 'B' in Figure 3 of Attachment 12 where the set-back encroaches on the Western Diversion Drain. 1.5 The existing Gowrie Creek levee has been bulked out as a permanent landform (the Southern landform) to achieve final void flood immunity for events up to 0.1% AEP. 1.6 All coal seams and strata capable of spontaneous combustion are treated so as to minimise the ingress of oxygen.

MM2	Achievement of surface requirements	2.1 Access to highwalls is restricted by a bund constructed to the following specifications: (a) A minimum height of 2m; and (b) A minimum base width of 5m. 2.2 Access to highwalls is restricted by a minimum of four (4) strand barbed wire fencing, erected on the outside of the safety bund. 2.3 Warning signage to deter public access and warn of void related risks are designed in accordance with Australian Standard AS1319-1994 and are erected at 100m intervals around the final void rim. 2.4 There is no evidence of spontaneous combustion or self-heating material on the landform surface.
MM3	Achievement of sufficient improvement	3.1 Groundwater and void lake monitoring confirms: (a) The final void is acting as a sink; and (b) The final void water level rebound will be below the Tertiary basalt hydrogeological unit. 3.2 The residual void: (a) Has in place effective management measures to ensure it is safe to humans, and livestock; (b) Will not cause environmental harm outside of the tenure boundaries; (c) Has $\geq 40\%$ vegetative groundcover on the low wall above an elevation of 108mAHD; and (d) Is geotechnically stable.

Section E – Attachments

Attachment 1 – Soil Quality Criteria

Parameter	Criteria
	RM5
pH	4.5 – 9.0
EC _{1:5} (µS/cm)	<1,000
Nitrate (mg/kg)	>5.0
Total Kjeldahl Nitrogen (mg/kg)	>500
Total Phosphorus (mg/kg)	≥50
Exchangeable Sodium Percentage [ESP] (%)	<6.0
Total Organic Carbon (%)	>1.0
Plant Available Water Capacity [PAWC] (mm/m)	>75

Attachment 2 – Seed Mix Species List

This attachment articulates the list of species which are permitted to be included in the seed mix for Rehabilitation Areas (RAs) and Improvement Areas (IAs). For Rehabilitation Areas (RAs), the list of species is further specific to the PMLU to be achieved.

For RAs, the seed mix should be selected and apportioned with appreciation for the benchmark criteria at later milestones. Hence, the proportion of each species (kg/ha) within the seed mix should reflect the relative cover and frequency of the relevant Regional Ecosystems (REs) Technical Description (<https://publications.qld.gov.au/dataset/re-technical-descriptions>).

For IAs, any of the species listed may be selected as part of the seed mix. However, the seed mix should be selected so as to ensure the establishment of vegetation assemblage sympathetic to the surrounding landscape and one that minimises erosion in the final landform.

Despite introduced species occurring in the RE Technical Descriptions, introduced species must not be included in the seed mix. Finally, the seed mix must not include Indian Couch *Bothriochloa pertusa* or *Seca Stylosanthes* spp, both of which have significant impacts on surrounding native remnant vegetation.

PMLU	Trees	Shrubs	Grasses	Forbs
Water Management	<i>Acacia excelsa</i> <i>Acacia pendula</i> <i>Alphitonia excelsa</i> <i>Archidendropsis basaltica</i> <i>Atalaya hemiglauc</i> <i>Casuarina cristata</i> <i>Casuarina cunninghamiana</i> <i>Corymbia clarksoniana</i> <i>Corymbia tessellaris</i> <i>Eucalyptus camaldulensis</i> <i>Eucalyptus coolabah</i> <i>Eucalyptus melanophloia</i> <i>Eucalyptus populnea</i> <i>Eucalyptus tereticornis</i> <i>Ficus rubiginosa</i> <i>Lysiphyllum carronii</i> <i>Lysiphyllum hookeri</i> <i>Melaleuca bracteata</i> <i>Petalostigma pubescens</i> <i>Terminalia oblongata</i> <i>Ventilago viminalis</i>	<i>Acacia bancroftiorum</i> <i>Acacia crassa</i> <i>Acalypha eremorum</i> <i>Alstonia constricta</i> <i>Breynia oblongifolia</i> <i>Carissa ovata</i> <i>Cassia brewsteri</i> <i>Clerodendrum floribundum</i> <i>Corchorus trilocularis</i> <i>Dodonaea viscosa</i> <i>Eremophila bignoniiflora</i> <i>Erythroxylum australe</i> <i>Geijera parvifolia</i> <i>Grewia latifolia</i> <i>Leptospermum lamellatum</i> <i>Leptospermum polygalifolium</i> <i>Owenia acidula</i> <i>Pittosporum angustifolium</i> <i>Psydrax oleifolia</i> <i>Santalum lanceolatum</i> <i>Senna artemisioides</i> <i>Senna gaudichaudii</i>	<i>Aristida latifolia</i> <i>Aristida leptopoda</i> <i>Astrelba lappacea</i> <i>Bothriochloa bladhii</i> <i>Bothriochloa decipiens</i> <i>Bothriochloa ewartiana</i> <i>Brachyachne convergens</i> <i>Chloris divaricata</i> <i>Chrysopogon fallax</i> <i>Cymbopogon bombycinus</i> <i>Dactyloctenium radulans</i> <i>Dichanthium sericeum</i> <i>Digitaria brownii</i> <i>Eneteropogon ramosus</i> <i>Enneapogon lindleyanus</i> <i>Enteropogon acicularis</i> <i>Eragrostis lacunaria</i> <i>Eriochloa crebra</i> <i>Eriochloa pseudoacrotricha</i> <i>Eriocloa procera</i> <i>Eulalia aurea</i> <i>Heteropogon contortus</i> <i>Iseilema spp.</i> <i>Leptocloa digitata</i> <i>Panicum decompositum</i> <i>Panicum queenslandicum</i> <i>Paspalidium caespitosum</i> <i>Paspalidium jubiflorum</i> <i>Sporobolus caroli</i> <i>Sporobolus caroli</i> <i>Themeda triandra</i>	<i>Alysicarpus muelleri</i> <i>Atriplex muelleri</i> <i>Basilicum polystachyon</i> <i>Bidens pilosa</i> <i>Boerhavia dominii</i> <i>Brunoniella australis</i> <i>Calotis spp.</i> <i>Capparis lasiantha</i> <i>Cheilanthes sieberi</i> <i>Cullen tenax</i> <i>Cyperus exaltatus</i> <i>Cyperus gracilis</i> <i>Desmodium brachypodum</i> <i>Dianella longifolia</i> <i>Einadia nutans</i> <i>Enchylaena tomentosa</i> <i>Eremophila debilis</i> <i>Euphorbia drummondii</i> <i>Eustrephus latifolius</i> <i>Evolvulus alsinoides</i> <i>Galactia tenuiflora</i> <i>Glycene latifolia</i> <i>Gossypium australe</i> <i>Hardenbergia violacea</i> <i>Hibiscus meraukensis</i> <i>Hibiscus sturtii</i> <i>Ipomoea plebeia</i> <i>Jasminum didymum</i> <i>Kennedia rubicunda</i> <i>Lomandra confertifolia</i> <i>Maireana enchylaenoides</i> <i>Neptunia spp.</i> <i>Pandorea pandorana</i> <i>Passiflora aurantia</i> <i>Polymeria calycina</i> <i>Pterocaulon spp.</i> <i>Ptilotus exaltatus</i> <i>Rhynchosia minima</i> <i>Rostellularia adscendens</i> <i>Salsola australis</i> <i>Scleroleana muricata</i> <i>Sida spp. (Native)</i> <i>Vigna lanceolata</i> <i>Zaleya galericulata</i>

PMLU	Trees	Shrubs	Grasses	Forbs
Woodland	<i>Acacia catenulata</i> <i>Acacia decora</i> <i>Acacia excelsa</i> <i>Acacia falciformis</i> <i>Acacia rhodoxylon</i> <i>Acacia shirleyi</i> <i>Allocasuarina leuhmannii</i> <i>Alphitonia excelsa</i> <i>Archidendropsis basaltica</i> <i>Atalaya hemiglauc</i> <i>Brachychiton rupestris</i> <i>Capparis canescens</i> <i>Corymbia citriodora</i> <i>Corymbia clarksoniana</i> <i>Corymbia dallachiana</i> <i>Corymbia erythrophloia</i> <i>Corymbia leichhardtii</i> <i>Corymbia tessellaris</i> <i>Denhamia cunninghamii</i> <i>Eucalyptus cambageana</i> <i>Eucalyptus crebra</i> <i>Eucalyptus exserta</i> <i>Eucalyptus melanophloia</i> <i>Eucalyptus orgadophila</i> <i>Eucalyptus populnea</i> <i>Eucalyptus tereticornis</i> <i>Eucalyptus thozetiana</i> <i>Ficus rubiginosa</i> <i>Flindersia dissosperma</i> <i>Flindersia dissosperma</i> <i>Grevillea parallela</i> <i>Lysicarpus angustifolius</i> <i>Lysiphyllum hookeri</i> <i>Petalostigma pubescens</i> <i>Terminalia oblongata</i> <i>Ventilago viminalis</i>	<i>Acacia bancroftiorum</i> <i>Acacia crassa</i> <i>Acacia cretata</i> <i>Acacia julifera</i> <i>Acalypha eremorum</i> <i>Alectryon diversifolius</i> <i>Alstonia constricta</i> <i>Breynia oblongifolia</i> <i>Carissa ovata</i> <i>Cassia brewsteri</i> <i>Clerodendrum floribundum</i> <i>Corchorus trilocularis</i> <i>Dodonaea viscosa</i> <i>Eremophila bignoniiflora</i> <i>Eremophila mitchellii</i> <i>Erythroxylum australe</i> <i>Geijera parvifolia</i> <i>Grewia latifolia</i> <i>Leptospermum lamellatum</i> <i>Leptospermum polygalifolium</i> <i>Owenia acidula</i> <i>Pittosporum angustifolium</i> <i>Psydrax oleifolia</i> <i>Santalum lanceolatum</i> <i>Senna artemisioides</i> <i>Senna gaudichaudii</i>	<i>Aristida caput-medusae</i> <i>Aristida latifolia</i> <i>Aristida leptopoda</i> <i>Aristida personata</i> <i>Aristida queenslandica</i> var. <i>Queenslandica</i> <i>Astrebla lappacea</i> <i>Bothriochloa bladhii</i> <i>Bothriochloa decipiens</i> <i>Bothriochloa ewartiana</i> <i>Brachyachne convergens</i> <i>Chloris divaricata</i> <i>Chrysopogon fallax</i> <i>Cymbopogon bombycinus</i> <i>Cymbopogon queenslandicus</i> <i>Cyperus fulvus</i> <i>Cyperus gracilis</i> <i>Dactyloctenium radulans</i> <i>Dichanthium sericeum</i> <i>Digitaria brownii</i> <i>Digitaria ramularis</i> <i>Enneapogon lindleyanus</i> <i>Enteropogon acicularis</i> <i>Enteropogon unispiceus</i> <i>Entolasia stricta</i> <i>Eragrostis lacunaria</i> <i>Eriachne mucronata</i> <i>Eriochloa crebra</i> <i>Heteropogon contortus</i> <i>Iseilema</i> spp. <i>Panicum decompositum</i> <i>Panicum effusum</i> <i>Panicum queenslandicum</i> <i>Paspalidium caespitosum</i> <i>Paspalidium criniforme</i> <i>Paspalidium gracile</i> <i>Sporobolus caroli</i> <i>Sporobolus creber</i> <i>Themeda triandra</i> <i>Triodia</i> sp.	<i>Alysicarpus muelleri</i> <i>Atriplex muelleri</i> <i>Basilicum polystachyon</i> <i>Boerhavia dominii</i> <i>Breynia oblongifolia</i> <i>Calotis</i> spp. <i>Capparis lasiantha</i> <i>Cheilanthes sieberi</i> <i>Cullen tenax</i> <i>Desmodium brachypodium</i> <i>Dianella longifolia</i> <i>Einadia nutans</i> <i>Enchylaena tomentosa</i> <i>Eustrephus latifolius</i> <i>Evolvulus alsinoides</i> <i>Galactia tenuiflora</i> <i>Geijera salicifolia</i> <i>Glycene latifolia</i> <i>Goodenia glabra</i> <i>Gossypium australe</i> <i>Hardenbergia violacea</i> <i>Hibiscus meraukensis</i> <i>Hibiscus sturtii</i> <i>Ipomoea plebeia</i> <i>Jasminum didymum</i> <i>Kennedia rubicunda</i> <i>Lomandra confertifolia</i> <i>Maireana enchylaenoides</i> <i>Neptunia</i> spp. <i>Pandorea pandorana</i> <i>Passiflora aurantia</i> <i>Phyllanthus virgatus</i> <i>Polymeria calycina</i> <i>Pterocaulon</i> spp. <i>Ptilotus exaltatus</i> <i>Rhynchosia minima</i> <i>Salsola australis</i> <i>Sida</i> spp. (Native) <i>Vigna lanceolata</i> <i>Zaleya galericulata</i>

Attachment 3 – Surface Water Monitoring Locations

Monitoring Location	Stream	Latitude (GDA2020)	Longitude (GDA2020)
Upstream			
BCK10	Bath Creek	-22.6802	147.5111
WCK20	Wolfgang Creek	-22.7547	147.6459
WCK50	Wolfgang Creek	-22.6641	147.7276
GCK10	Gowrie Creek	-22.69526	147.63137
TTCK10	Teatree Creek	-22.69707	147.64418
Downstream			
BCK20	Bath Creek	-22.6802	147.5111
WCK40	Wolfgang Creek	-22.7808	147.6334
GCK20	Gowrie Creek	-22.7546	147.6358

Attachment 4 – Surface Water Quality Limits

Quality Characteristic ¹⁰	Unit	Wolfgang Creek	Bath Creek	Gowrie Creek	Source
pH	pH Units	6.0-8.5	6.5 – 8.5	6.5 – 8.5	Site-specific or Nogoia River WQO ¹¹
Electrical Conductivity	µS/cm	680	400	760	Site-specific
Sulfate	mg/L	25	25	25	Nogoia River WQO
Turbidity	NTU	170	50	50	Site-specific or Nogoia River WQO
Nitrate	mg/L	0.5	0.5	0.5	Site-specific
Arsenic (Dissolved)	µg/L	13	13	13	ANZG 2018 ¹²
Boron (Dissolved)	µg/L	200	200	200	Site-specific
Copper (Dissolved)	µg/L	3	3	3	Site-specific
Molybdenum (Dissolved)	µg/L	34	34	34	ANZG 2018
Nickel (Dissolved)	µg/L	11	11	11	ANZG 2018
Selenium (Dissolved)	µg/L	5	5	5	ANZG 2018
Uranium (Dissolved)	µg/L	0.5	0.5	0.5	ANZG 2018
Zinc (Dissolved)	µg/L	8	8	8	ANZG 2018
Major ions: Calcium, Chloride, Magnesium, Sodium, Potassium, Carbonate and Bicarbonate	mg/L	Interpretation only			N/A

¹⁰ 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.

¹¹ DES (2013) *Nogoia River Sub Basin Environmental Values and Water Quality Objectives Basin No. 130 (part), including all waters of the Nogoia River Sub-basin – surface water.*

¹² ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection).

Attachment 5 – Groundwater Monitoring Locations

Monitoring Location	Hydrogeological unit	Latitude (GDA2020)	Longitude (GDA2020)
NF6C	Alluvial	-22.7557	147.6385
NF14B	Alluvial	-22.769	147.6391
NF3A	Tertiary Basalt	-22.7067	147.673
NF4A	Tertiary Basalt	-22.7254	147.6706
NF5C	Tertiary Basalt	-22.7450	147.6596
NF16B	Tertiary Basalt	-22.6990	147.6445
TS01*	Tertiary Sediment	<i>TBD</i>	<i>TBD</i>
NF6E	Tertiary Sediment	-22.7556	147.6385
NF16A	Tertiary Sediment	-22.6990	147.6445
NF5B	Permian sediment	-22.745	147.6595
NF6A	Permian sediment	-22.7556	147.6384
NF14A	Permian sediment	-22.7691	147.6391
NF5A	Cambrian metamorphics	-22.7450	147.6596
TLO1*	Tertiary Basalt	<i>TBD</i>	<i>TBD</i>
TLO2*	Tertiary Basalt	<i>TBD</i>	<i>TBD</i>
TLO3*	Tertiary Basalt	<i>TBD</i>	<i>TBD</i>
ALU1*	Alluvial	<i>TBD</i>	<i>TBD</i>
ALU2*	Alluvial	<i>TBD</i>	<i>TBD</i>
ALU3*	Alluvial	<i>TBD</i>	<i>TBD</i>

Attachment 6 – Groundwater Quality Limits

Quality Characteristic ¹³	Unit	NF6C	NF14B	NF3A	NF4A	NF5C	NF16B	TS01*	NF6E	NF16A	NF5B	NF6A	NF14A	NF5A	TLO1*	TLO2*	TLO3*	ALU1*	ALU2*	ALU3*	Source
Stratigraphy		Quaternary alluvium		Tertiary basalt				Tertiary sediments			Permian sediments			Cambrian Metamorphics	Tertiary basalt			Quaternary alluvium			
pH	pH Units	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	Lower Nogoia River /Theresa Creek WQO
EC	µS/cm	2,880	2,880	1,603	1,660	2,230	1,380	2,200	2,880	1,380	1,760	970	1,720	1,760	2,200	2,200	2,200	2,200	2,200	2,200	Site-specific and based on bore specific data
Sulfate	mg/L	25	25	41	25	25	25	25	192	25	25	25	25	25	25	25	25	25	25	25	Site specific or Lower Nogoia River /Theresa Creek WQO
Nitrate	mg/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	Site-specific based on surface water data
Arsenic (Dissolved)	µg/L	13	13	32	13	2	2	13	3	13	13	4	13	13	13	13	13	13	13	13	Site-specific and ANZG 2018
Boron (Dissolved)	µg/L	200	200	260	220	170	80	200	100	80	170	200	200	170	200	200	200	200	200	200	Site-specific and based on bore specific data
Copper (Dissolved)	µg/L	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4	1.4	1.4	2.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	Site-specific and ANZG 2018
Molybdenum (Dissolved)	µg/L	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	ANZG 2018
Nickel (Dissolved)	µg/L	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	ANZG 2018
Selenium (Dissolved)	µg/L	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	ANZG 2018
Uranium (Dissolved)	µg/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ANZG 2018
Zinc (Dissolved)	µg/L	30	30	37	24	34	31	30	57	30	30	30	30	30	30	30	30	30	30	30	Site-specific and bore specific data
Major ions	mg/L	Calcium, Chloride, Magnesium, Sodium, Potassium, Carbonate, and Bicarbonate monitored for interpretative purposes																			

¹³ 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.

*The limits for new bores will be amended when the bores have been drilled and a minimum of 12 monitoring events have occurred.

Attachment 7 – Erosion Classification Framework

Erosion type	Erosion classification ¹⁴		
	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits	Loss of surface horizon; subsoil exposure; root exposure; substantial soil deposits downslope
Rill and Gully erosion	<0.3m deep Occasional rills	>0.3m deep Common rills	>0.3m deep Numerous rills forming corrugated ground surface
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

¹⁴ Adapted from:
The National Committee on Soil and Terrain. (2009). *Australian Soil and Land Survey Field Handbook* (3rd ed.). Collingwood, Victoria: CSIRO Publishing.

Attachment 8 – Approved method of assessment

Parameter	Approved method
Large Trees (>20cm DBH for non-eucalypts; >30cm DBH for eucalypts)	Not Applicable
Tree canopy height	Five 5x10m subplots in 10x50m plot. All woody species over 2m measured
Recruitment of dominant canopy spp.	Five 5x10m subplots in 10x50m plot. RRC also assesses number of individuals per "Framework" ¹ species, recruitment
Native tree spp. richness	Five 5x10m subplots in 10x50m plot. RRC also assesses number of individuals per "Framework" ¹ species, recruitment
Tree canopy cover	100m transect using line intercept method (Grieg-Smith 1964)
Shrub cover	100m transect using line intercept method (Grieg-Smith 1964)
Coarse woody debris	Five 5x10m subplots in 10x50m plot
Native plant spp. richness	Five 5x10m subplots in 10x50m plot
Non-native cover	Non-natives spp. richness recorded see below
Native perennial grass cover	Recorded as part of overall live ground cover in five 1x1m quadrats every 10m along transect
Organic litter, rock, bare, cryptograms	Five 1x1m quadrats every 10m along transect
Slope	At each transect
Soils	Bulk sample from five sub-samples at 10m intervals along transect. Assessed for suite of variables
Erosion	Record distance along transect where present, severity rating 1 (no erosion) to 5 (gully >1m deep)
Non-native spp. richness	Five 5x10m subplots in 10x50m plot
Biomass	Five 1x1m quadrats every 10m along transect
Tree hollows	Visually estimated at three points at 0, 25, 50m along transect
Free water	Visually estimated at three points at 0, 25, 50m along transect

Benchmark Criteria

Attachments 9 and 10 articulate the benchmark criteria to be achieved for each assessable attribute. The benchmark criteria for each applicable RA is determined by the corresponding PMLU. The reference Regional Ecosystems (REs) are also included for interpretation purposes only.

Attachment 9 –Benchmark Criteria for RA1-RA5

PMLU	Water Management	Woodland
Reference REs	11.3.3 ¹⁵	11.5.3 ¹⁶ , 11.11.1 ¹⁷
Assessable Attributes	Benchmark Criteria	
Non-native plant cover (%)	<25%	<25%
Tree (native) species richness (spp)	≥2	≥3
Shrub (native) species richness (spp)	≥2	≥2
Grass (native) species richness (spp)	≥2	≥2
Forb/other (native) species richness (spp)	≥3	≥3
Tree (native) canopy cover and shrub (native) canopy cover (%)	≥10%	≥10%
Native perennial grass cover (%)	≥10%	≥10%
Litter and other vegetation cover (%)	≥15%	≥15%

¹⁵ *Eucalyptus coolabah* woodland on alluvial plains

¹⁶ *Eucalyptus populnea* +/- *E. melanophloia* +/- *Corymbia clarksoniana* woodland on Cainozoic sand plains and/or remnant surfaces

¹⁷ *Eucalyptus crebra* +/- *Acacia rhodoxylon* woodland on old sedimentary rocks with varying degrees of metamorphism and folding

Attachment 10 –Native Ecosystem Benchmark Criteria for RA6

PMLU	Woodland	
Assessable Attributes	Benchmark Criteria	
	ML1881	All other areas of RA6
Tree (native) and Shrub (native) species richness (spp)	≥3 species	≥3 species of which 1 must be a eucalypt species
Grass (native) species richness (spp)	≥2	
Forb/other (native) species richness (spp)	≥2	
Tree (native) canopy cover and shrub (native) canopy cover (%)	≥8%	
Native perennial grass cover (%)	≥5%	≥20%
Litter and other vegetation cover (%)	≥8%	≥30%
Non-native plant cover (%)	<62.5%	<40%

Attachment 11 – Piezometer Monitoring Locations



Attachment 12 – Highwall Set-back Schematics

Figure 1 – Highwall and set-back arrangement to achieve $FoS \geq 1.5$

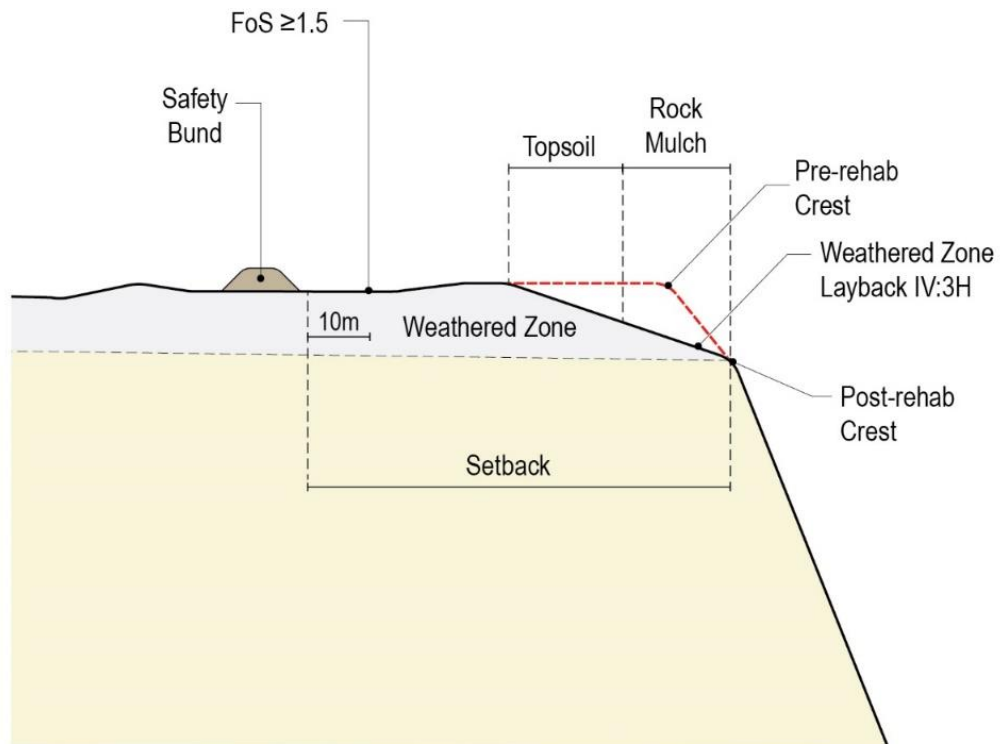


Figure 2 – Highwall and set-back arrangement to achieve $FoS \geq 1.3$

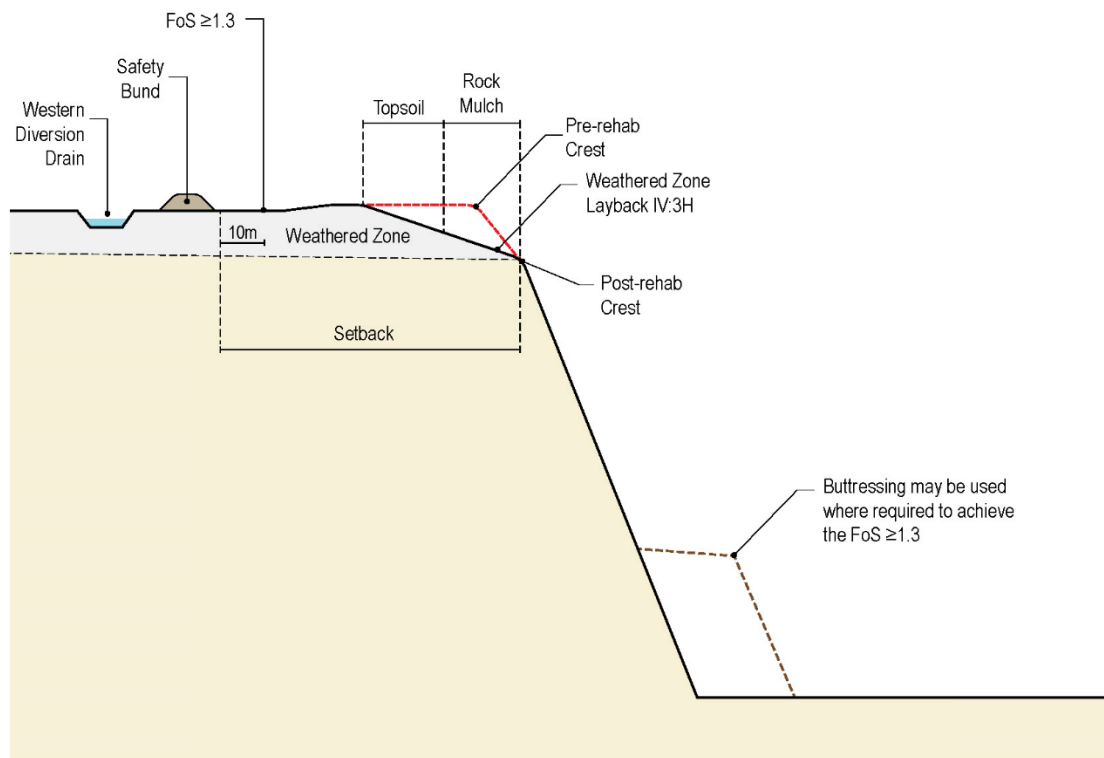


Figure 3 – Highwall segment permitted to achieve FoS ≥ 1.3



Section F – Definitions

Appropriately qualified person (AQP)	Means a person who has professional qualifications, training, skills or 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.
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.
Environmentally problematic materials	Means waste rock or processing materials that include one of the following characteristics: Potentially Acid Forming (PAF), saline, sodic, dispersive, high metal/metalloid concentrations and solubility.
Rehabilitation activity	Means any activity that the holder is required to carry out in relation to this PRCP schedule.
Stable	In relation to land, means landform dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation. Land is in a stable condition if: (a) the land is safe and structurally stable, and (b) there is no environmental harm being caused by anything on or in the land, and (c) the land can sustain a post mining land use (PMLU).
Suitably qualified and experienced person (SQP)	Means a suitability qualified person 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.

END OF PRCP SCHEDULE