

PRCP schedule

Environmental Protection Act 1994

P-PRCP-101091028_V1 Dawson South Coal Mine

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

PRCP schedule: P-PRCP-101091028_V1

PRCP schedule holder(s)

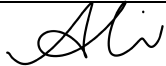
Name(s)	Registered address
Anglo Coal (Dawson South) Pty Ltd	Ground Floor, 201 Charlotte Street, BRISBANE CITY QLD 4000
Mitsui Moura Investment Pty Ltd	Level 46, 1 Macquarie Place, SYDNEY NSW 2000

Location details

Location(s)
Mining Lease (ML) ML5657; ML80160; ML80161

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

6 May 2026

Date

Alison Cummings

Department of the Environment, Tourism, Science and Innovation

Delegate of the administering authority

Environmental Protection Act 1994

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Obligations under the *Environmental Protection Act 1994*

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

Pursuant to section 285 of the EP Act:

- the holder of a PRCP schedule must commission an audit of the schedule 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 - Definitions
- Section C - Final site design and reference maps
- Section D - Post mining land uses
- Section E - Non-use management areas
- Section F – Attachments.

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

PRCP	Condition
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'; (b) describe in the notification why or why not it considers that it would be reasonable and appropriate to apply to the administering authority to amend this schedule; and (c) unless otherwise agreed to by the administering authority in writing, apply to the administering authority within sixty (60) days of the notification to amend this schedule in a way that maximises the progressive rehabilitation to a stable condition. Note: 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. Assessment of land becoming available is undertaken on a nominally annual basis. 3. Rehabilitation of land size must be practicable and economical. 4. The dates by which milestones are to be completed is brought forward, to the extent it is reasonably practicable to do so, by the same amount of time as the commencement was brought forward.

- PRCP3** Where an area achieves a rehabilitation or management milestone, the holder must continue to achieve the milestone criteria until:
- (a) A progressive certification area has satisfied the provisions of section 318ZB(4) of the EP Act; or
 - (b) A surrender is approved.
- PRCP4** The holder must maintain a risk register that identifies the risks to not achieving:
- (a) a stable condition for post-mining land uses (PMLU), and
 - (b) sufficient improvement for non-use management areas (NUMA),
- and how the risks are being managed or minimised.
- PRCP5** The risk register (**PRCP4**) must be reviewed annually and includes 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** Records made under **PRCP7** must be kept until the relevant environmental authority has been surrendered or progressive rehabilitation certification is achieved.
- PRCP9** Records made under **PRCP7** must be provided to the administering authority in the specified format within **10 business days** of a written request.
- PRCP10** Disturbance due to exploration and minor ancillary activities in areas not planned to be mined and not within a Rehabilitation Area in this Schedule must be rehabilitated in accordance with the provisions detailed in the '*Eligibility criteria and standard conditions for exploration and mineral development projects*' or its successor, with the exception that land must be rehabilitated to a stable condition which includes achieving the relevant post mining land use for the disturbance location as detailed in **Figure 1 – Final Site Design**.
- PRCP11** By **10 December 2028**, the holder must submit to the administering authority a report that must:
- (a) Propose groundwater monitoring locations details to populate **Attachment 8 – Groundwater Monitoring Locations**;
 - (b) Include a map to be included at **Figure 5 - Groundwater Monitoring Locations** that depicts the groundwater monitoring bore locations; and
 - (c) Propose groundwater quality for inclusion in **Attachment 9 – Groundwater Quality Limits** based on site specific data.
- PRCP12** By **31 October 2027**, the holder must submit to the administering authority the following reports:
- (a) A report that proposes soil quality criteria for inclusion in **Attachment 1 – Soil Quality Criteria** based on site specific data;
 - (b) A report that proposed surface water quality for inclusion in **Attachment 7 – Surface Water Quality Limits** based on site specific data.

- PRCP13** An up-to-date closure groundwater and water balance model (calibrated once data becomes available) must be maintained with predictions rerun at least every five (5) years, or a date agreed with the administering authority, from the date of approval of the PRCP and within a year of any surrender application.
- The closure groundwater modelling confirms the residual voids will not cause environmental harm through the release of contaminants from the void lakes beyond the tenure boundaries post-closure.
- PRCP14** By **31 March 2028**, the holder must submit to the administering authority a report that includes:
- (a) The proposed methodology of assessing rehabilitation against the reference site; and
 - (b) The proposed rehabilitation reference sites, reviewed by an AQP for adequacy which must at a minimum consider:
 - i. The location of the reference sites (GDA2020);
 - ii. The number of reference sites nominated;
 - iii. The rehabilitation area/domain to which each reference site relates; and
 - iv. Justification for the suitability of each nominated reference site.
- PRCP15** Once endorsed by the administering authority, the methodology for assessing the rehabilitation against the reference sites attributes identified in **PRCP14** will replace the BioCondition benchmark criteria list in **RM7.12 to RM7.14** and **Attachment 5 – BioCondition Benchmark Criteria**.
- PRCP16** A flood protection design plan and assessment report for any flood protection features must be developed and certified by an AQP and provided to the administering authority within **two (2) years** of the approval of this PRCP schedule.
- PRCP17** By **10 December 2030**, the holder must submit to the administering authority a report documenting evidence of successful bushland establishment across the Dawson Complex (comprising Dawson Central & North Coal Mine and Dawson South Coal Mine) where less than 100mm of growth media has been applied to spoil management units (SMU) 1 and/or 2.

END OF CONDITIONS

Section B - Definitions

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.
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.
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.
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, being independent of the PRCP schedule holder, and has not previously provided advice 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. 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.
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).
Rehabilitation activity	means any activity that the holder is required to carry out in relation to this PRCP schedule.
Relevant material	includes: i. Final landform design report, ii. Durability assessment/ report, iii. "As Constructed" report,

	iv. All monitoring data, v. Assessment of monitoring data, vi. All maintenance records; and vii. Modelling and technical assessments.
Relevant structure	To be defined during the assessment and listed here. Typically includes TSF and higher risk structures, including WRDs.
Spoil management units (SMU)	SMU 1 – Dawson coarse sandstone spoil: include the coarse sandstone spoils which form almost all of the eastern spoils through to most of the central inner spoil areas at Dawson Mine. This material offers the greatest capability to resist erosion. SMU 2 – Gibihi intergrade spoil: This is a quality intergrade spoil (a mixture of SMU 1 and SMU 3 – due to blasting and excavating) with higher fines content than the coarser SMU 1 sandstone spoils. SMU 3 – Fine Kianga spoil with few significant chemical /physical limitations: mostly from B Seam, generally predominates in most areas. SMU 4 – Fine Kianga spoil with increased chemical/physical limitations: mostly A Seam and is generally of much poorer quality than the lower B Seam with increased extent of limiting factors in terms of spoil quality and erosional stability.
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 environmental context, geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation.
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 Third 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	Weeds are defined by the Biosecurity Act 2014.

Section C - Final site design and reference maps

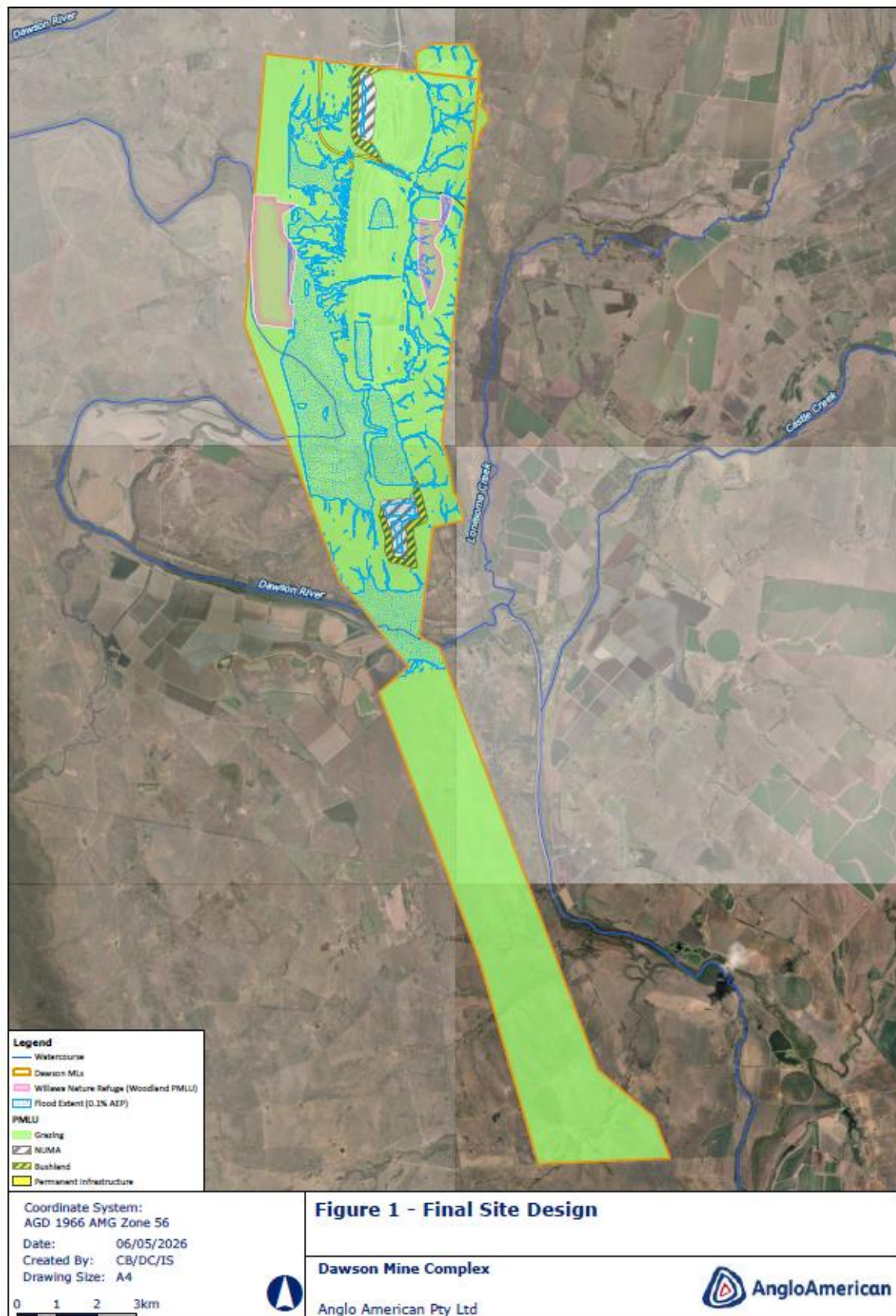


Figure 1 – Final Site Design

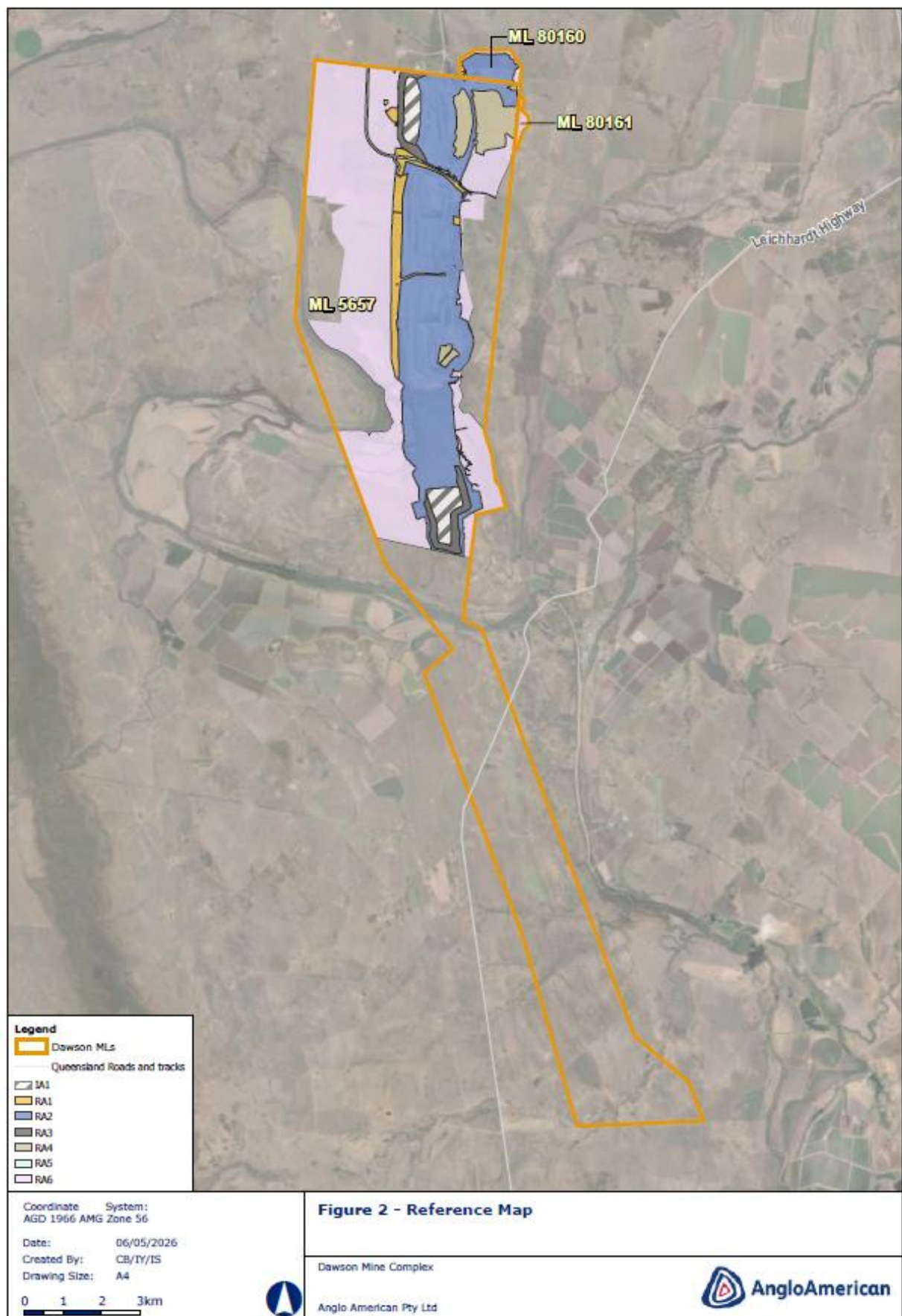


Figure 2 – Reference Map

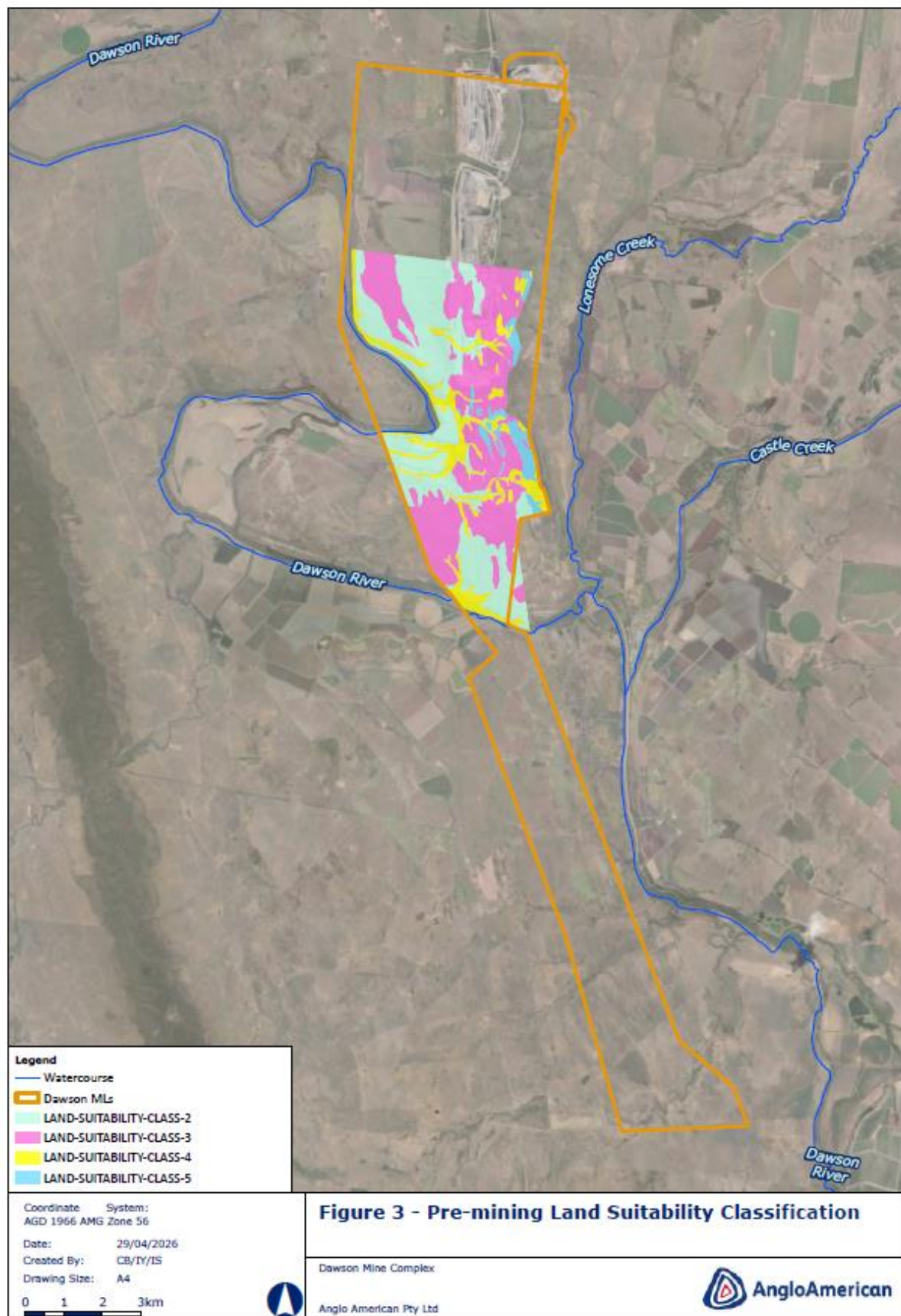


Figure 3 – Pre Mining Land Suitability Classification

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Section D – Post mining land uses

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(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)												
Rehabilitation area				RA1								
Relevant activities				Infrastructure (includes: cleared areas, access tracks, topsoil stockpile, exploration pads, laydown yards, pipelines, powerlines, water management infrastructure)								
Total rehabilitation area size (ha)				183.97								
Commencement of first milestone: RM1				30/01/2026								
PMLU				Grazing								
Date area is available	10/12/2025	10/12/2031	10/12/2036	10/12/2041	10/12/2046	10/12/2051						
Cumulative area available (ha)	2.87	88.78	92.35	114.33	118.10	183.97						
Milestone completed by	10/12/2035	10/12/2040	10/12/2045	10/12/2050	10/12/2055	10/12/2060	10/12/2065	10/12/2070	10/12/2075	10/12/2080	10/12/2085	10/12/2100
Milestone Reference	Cumulative area achieved (ha)											
RM1	2.87	88.78	92.35	114.33	118.10	183.97						
RM2	2.87	88.78	92.35	114.33	118.10	183.97						
RM3		2.87	88.78	92.35	114.33	118.10	183.97					
RM4			2.87	88.78	92.35	114.33	118.10	183.97				
RM5			2.87	88.78	92.35	114.33	118.10	183.97				
RM6				2.87	88.78	92.35	114.33	118.10	183.97			
RM7						2.87	88.78	92.35	114.33	118.10	183.97	
RM8												183.97

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(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)											
Rehabilitation area				RA2							
Relevant activities				Overburden Dumps (includes: ramps, haul roads, spoil DRE, spoil TS, backfilled mining pits)							
Total rehabilitation area size (ha)				1689.84							
Commencement of first milestone: RM1				30/01/2026							
PMLU				Grazing							
Date area is available	10/12/2025	10/12/2031	10/12/2036	10/12/2041	10/12/2046	10/12/2051					
Cumulative area available (ha)	25.18	181.41	819.20	1167.15	1229.52	1689.84					
Milestone completed by	10/12/2030	10/12/2036	10/12/2041	10/12/2046	10/12/2051	10/12/2056	10/12/2061	10/12/2066	10/12/2071	10/12/2076	10/12/2100
Milestone Reference	Cumulative area achieved (ha)										
RM1	25.18	181.41	819.20	1167.15	1229.52	1689.84					
RM2	25.18	181.41	819.20	1167.15	1229.52	1689.84					
RM3		25.18	181.41	819.20	1167.15	1229.52	1689.84				
RM4			181.41	819.20	1167.15	1229.52	1689.84				
RM5			25.18	181.41	819.20	1167.15	1229.52	1689.84			
RM6				25.18	181.41	819.20	1167.15	1229.52	1689.84		
RM7					25.18	181.41	819.20	1167.15	1229.52	1689.84	
RM8											1689.84

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(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)							
Rehabilitation area		RA3					
Relevant activities		Overburden Dumps (includes: ramps, haul roads, spoil DRE, spoil TS, backfilled mining pits)					
Total rehabilitation area size (ha)		121.84					
Commencement of first milestone: RM1		1/01/2036					
PMLU		Bushland					
Date area is available	10/12/2035	10/12/2041	10/12/2046	10/12/2051	10/12/2056	10/12/2061	
Cumulative area available (ha)	51.06	51.06	121.84	121.84	121.84	121.84	
Milestone completed by	10/12/2046	10/12/2051	10/12/2056	10/12/2066	10/12/2066	10/12/2075	10/12/2100
Milestone Reference	Cumulative area achieved (ha)						
RM1	51.06		121.84				
RM2	51.06		121.84				
RM3		51.06		121.84			
RM4		51.06			121.84		
RM5			51.06		121.84		
RM6				51.06		121.84	
RM7				51.06		121.84	
RM8							121.84

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(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)		
Rehabilitation area	RA4	
Relevant activities	Existing Rehabilitation (81.77ha progressively certified)	
Total rehabilitation area size (ha)	221.70	
Commencement of first milestone: RM6	1/01/2031	
PMLU	Grazing	
Date area is available	10/12/2030	
Cumulative area available (ha)	221.70	
Milestone completed by	10/12/2040	10/12/2100
Milestone Reference	Cumulative area achieved (ha)	
RM6	221.70	
RM7	221.70	
RM8		221.70

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(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)	
Rehabilitation area	RA5
Relevant activities	Theodore-Moura Road
Total rehabilitation area size (ha)	29.21
Commencement of first milestone: RM8	1/01/2081
PMLU	Permanent Infrastructure
Date area is available	10/12/2080
Cumulative area available (ha)	29.21
Milestone completed by	10/12/2100
Milestone Reference	Cumulative area achieved (ha)
RM8	29.21

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(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)			
Rehabilitation area		RA6	
Relevant activities		Ancillary and Exploration	
Total rehabilitation area size (ha)		2398.52	
Commencement of first milestone: RM1		1/01/2081	
PMLU		Grazing	
Date area is available	10/12/2080		
Cumulative area available (ha)	2398.52		
Milestone completed by	10/12/2085	10/12/2095	10/12/2100
Milestone Reference	Cumulative area achieved (ha)		
RM1	2398.52		
RM6		2398.52	
RM7		2398.52	
RM8			2398.52

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Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria	
RM1	Infrastructure decommissioning and removal	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 buried services are decommissioned; (b) All surface services are disposed of appropriately (e.g. polypipe water lines, Overhead powerlines); (c) All buildings and associated infrastructure removed offsite; (d) All hardstand decommissioned; (e) All fencing and associated infrastructure disposed of appropriately; (f) All waste that is not authorised to be disposed of onsite under EPML00657413 is removed; (g) All boreholes not required for monitoring purposes are decommissioned; (h) All sediment ponds and sumps decommissioned; (i) All dams not part of PMLU dewatered and desilted; and (j) All machinery and equipment not required for rehabilitation works are removed from site.

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RM2	Identification, remediation and removal of contaminated land	2.1	Contaminated land investigations (investigation, remediation and validation) completed by a Suitably Qualified Person (SQP) in accordance with appropriate guidance, including but not limited to the EP Act, ASC NEPM and National Remediation Framework (NRF).
		2.2	Where potentially contaminated sites are identified: (a) A preliminary site investigation (PSI) completed; and (b) If required, a detailed site investigation (DSI) is completed where the PSI completed under RM2.2(a) identified contamination is present, or is likely to be present, and said contamination 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(b) , all contaminated material is either: (a) Remediated in-situ; (b) Removed and disposed of at a licensed facility; or (c) Disposed of as per the Contaminated Land Investigation Document (CLID) and Site Management Plan (SMP).

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		2.4	Contaminated Land 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.
		2.5	Contaminated Land Investigation Document (CLID) completed in accordance with the EP Act, including: (a) Site Suitability Statement confirming the suitability of the property (all lot/plans within the mining lease area) for the PMLUs; and (b) Site Investigation Report and, where required, a Validation Report and/or draft Site Management Plan provided.
		2.6	Removal of land from the Environmental Management Register and the Contaminated Land Register, where applicable.
		2.7	Contaminated Land Auditor certifies that no contamination unsuitable for the PMLU remains or is occurring.
RM3	Landform development, reshaping and reprofiling	<u>All rehabilitation areas</u>	
		3.1	All major earthworks (including reshaping, pushing/trimming), where appropriate, are completed in accordance within tolerance of design specification provided by an AQP.

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		3.2	The landform achieves the following slopes: (a) Externally draining slopes, internally draining slopes, top of dumps, roads infrastructure <16.7%; (b) Void- Highwall/Endwall/Ramps <33%.
		3.3	All landforms are predominantly shaped to be water shedding.
		3.4	Environmentally problematic materials are appropriately placed and located within the final landform, consistent with the relevant designs.
		<u>Levee/Flood Protection Landform</u>	
		3.5	Landform must: (a) Exceed the mAHD for 0.1% AEP water surface level +0.5m freeboard. (b) Prevent surface flow of floodwater into the void; (c) Be geotechnically stable when floodwater is against the batter; and (d) Not be constructed with dispersive material.
		3.6	Selective placement of non-erosive materials and/or rock mulch protection to ensure landform stability as per AQP's advice.

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RM4	Surface Preparation	4.1	Assessment of growth media characteristics and the development of an amelioration and physical treatment plan to achieve the criteria in Attachment 1 - Soil Quality Data is completed by an AQP.
		4.2	Where the growth media (topsoil, rock mulch and subsoil) physical, chemical and biological properties tested does not meet the criteria in Attachment 1 - Soil Quality Data , ameliorants such as fertiliser, gypsum or other suitable matters are applied at a rate determined by a AQP and documented.
		4.3	Growth medium placed at a depth of $\geq 100\text{mm}$, except in areas where spoil management units can support PMLU bushland outcomes.
		4.4	Contour ripping of compacted surfaces completed up a depth of at least 200mm depending on the spoil management unit present.
		4.5	Growth media health and suitability is assessed and documented by an SQP as suitable for the PMLU and target vegetation establishment.
RM5	Revegetation	<u>All rehabilitation areas</u>	
		5.1	With the exception of non-persistent cover crop species, the seed mix contains only those species listed in Attachment 3 – Species Seed Mix for the relevant PMLU.
		5.2	Seed mix applied at a rate as listed in Attachment 4 - Seeding Rates for key species.

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		<u>Grazing PMLU</u>	
		5.4	Completed seeding with a selection of species and seeding rates listed in Attachment 3 – Species Seed Mix and Attachment 4 – Seeding Rates for grazing PMLU.
		5.5	The seed mix must include: (a) At least four species of 3P native pasture species; (b) two legumes; and (c) two shade tree species established.
		<u>Bushland PMLU</u>	
		5.6	Completed seeding with a selection of native vegetation species and seeding rates listed in Attachment 3 – Species Seed Mix and Attachment 4 – Seeding Rates for bushland PMLU, or as amended for additional native endemic species as recommended by an AQP and certified as suitable to achieve a stable condition.
RM6	Achievement of surface requirements	6.1	Weed presence is less than 10% of total vegetative cover confirmed by an AQP in annual monitoring.
		<u>Grazing PMLU</u>	
		6.2	Vegetative groundcover is ≥50%.

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		Bushland	
		6.3	Vegetative groundcover and / or rock cover is $\geq 50\%$.
		<u>Erosion and sediment control (All RAs)</u>	
		6.4	No evidence of erosion classified as 'moderate' or 'severe' as defined by Attachment 2 – Erosion Classification Framework .
		6.5	Erosion requiring intervention has been remediated and does not impact achieving the PMLU.
RM7	Achievement of PMLU to a stable condition	7.1	Risk Assessment demonstrates risks in the rehabilitation area are similar to hazards in neighbouring unmined landscapes subject to a similar PMLU.
		7.2	The landform is geotechnically stable and achieved FoS ≥ 1.5 .
		7.3	Weed presence is a maximum of 10% of total cover confirmed by an AQP in annual monitoring. Less than 5% of total vegetative groundcover are restricted weeds listed under the Biosecurity Act 2014 and showing sufficient improvement.
		7.4	No evidence of active scouring, gullyng, or rilling in or adjacent to water management drainage infrastructure retained on the landform (including spine drains, contour drains and chutes).

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		7.5	No evidence of erosion classified as 'moderate' or 'severe' as defined by Attachment 2 – Erosion Classification Framework .
		7.6	Surface water runoff collected from representative areas of rehabilitation when surface flow occur and safe to do so complies with Attachment 7 – Surface Water Quality Limits .
		<u>Grazing PMLU</u>	
		7.7	60% established and self-sustaining vegetative groundcover.
		7.8	Biomass of 1,000kg/ha at a minimum.
		7.9	Minimum vegetation composition (per hectare (averaged)) of: (a) three species of 3P native pasture species, (b) two legumes, and (c) two shade tree species, present.
		7.10	Assessment of land condition and carrying capacity demonstrates a sustainable grazing outcome has been achieved.

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		7.11	Land suitability class assessed by an AQP that the land has achieved a post-mining land suitability class of ≤ 3 for cattle grazing, or not different from pre-mining suitability class, depicted in Figure 3 – Pre Mining Land Suitability Classification , if it is class 4.
		<u>Bushland PMLU</u>	
		7.12	A BioCondition assessment is completed by an AQP using the methodology outlined in the latest version of the Queensland Herbarium's 'BioCondition Assessment Manual'.
		7.13	The BioCondition assessment completed under RM7.12 complies with the PRCP Benchmark for the PMLU, as per Attachment 5 – BioCondition Benchmark Criteria .
		7.14	An assessment of BioCondition benchmarks for Bushland PMLU complies with the >35/60 PRCP benchmark for the PMLU as per Attachment 5 – BioCondition Benchmark Criteria .
		<u>Retained Water Storage</u>	
		7.15	Retained dams are safe for native animals and stock access and have vegetated banks.
		7.16	All retained water storages are safe and stable.
		7.17	Water storages monitored quarterly, must not exceed the stock water guidelines (ANZECC 2000),

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		<u>Flood Protection Landform</u>	
		7.18	Permanent fencing in place and maintained post closure which excludes stock.
		Existing Rehabilitation (RA4)	
		7.19	Existing progressive certification obtained or: (a) >60% groundcover (b) Biomass >1,000kg/ha (c) Three species of 3P pasture species.
		7.20	An AQP certifies that all infrastructure to be retained onsite 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 is safe, stable and will not cause environmental harm.
RM8	Achievement of post-mining land use water quality	8.1	For a minimum of five (5) consecutive years immediately prior to the milestone completion date, surface water quality must be monitored at least once per month when a greater than 30mm rainfall event (24 hours period) and flow occurs at the monitoring point(s). Monitoring must occur at, but not limited to, downstream locations specified in in Attachment 6 – Surface Water Monitoring Locations . Surface water quality results must not exceed the limits specified in Attachment 7 – Surface Water Quality Limits .

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		8.2	If the surface water quality results exceed the criteria in 8.1; and if there is flow at both the upstream and downstream monitoring location for each watercourse; then, each year 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; or (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.
		8.3	If 8.2 is triggered, then the five (5) year timeframe under RM8.1 is reset.
		8.4	For a minimum of five (5) 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 Attachment 8 – Groundwater Monitoring Locations for all quality characteristics listed in Attachment 9 – Groundwater Quality Limits .
		8.5	Groundwater quality results must not exceed the limits in Attachment 9 – Groundwater Quality Limits , for three (3) consecutive results.

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Section E – Non-use management areas

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(IA1) Improvement area 1

Non-use management area (NUMA)					
Improvement area	IA1				
Relevant activities	Void NUMA				
Total size (ha)	152.45				
Commencement of first milestone: MM1	1/01/2047				
NUMA	NUMA				
Date area is available	10/12/2046	10/12/2052	10/12/2057		
Cumulative area available (ha)	69.26	69.26	152.45		
Milestone completed by	10/12/2052	10/12/2057	10/12/2062	10/12/2067	10/12/2072
Milestone Reference	Cumulative area achieved (ha)				
MM1	69.26	69.26	152.45		
MM2		69.26	69.26	152.45	
MM3			69.26	69.26	152.45

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Improvement area milestones

Milestone reference	Management milestone	Milestone criteria	
MM1	Achievement of final landform design	1.1	Pit walls achieve a Static Factor of Safety > 1.5.
		1.2	Pit walls and voids assessed as geotechnically stable.
		1.3	Pit walls achieve a maximum slope of $\leq 1V:3H$ (33.3%).
		1.4	The final design must be completed by an AQP based on the latest flood modelling and materials data prior to construction.
		1.5	The location of the voids and associated safety bunds does not cause instability or degradation to the land outside the NUMA.
		1.6	Final residual voids are not subject to inundation from floodwaters up to and including the 0.1% AEP.
		1.7	Residual voids must not overtop.
MM2	Achievement of safety requirements	2.1	Competent safety bund in place to prevent access to the residual void, at the geotechnical setback distance of a minimum of 15m.

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		2.2	The safety bund is constructed in accordance with engineering requirements, including: (a) Constructed from non-weather, non-dispersive dumped rockfill; and (b) A minimum of 2m in height.
		2.3	Fencing erected, where required to prevent access to the residual void, around the perimeter of the safety bund.
		2.4	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 void rim.
MM3	Achievement of sufficient improvement	3.1	The final landform has been constructed in accordance with the final design.
		3.2	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.
		3.3	Groundwater and void lake water level and quality monitoring confirms that the residual voids acts as groundwater sinks post-closure, as confirmed by an AQP.
		3.4	The residual voids are safe to humans.

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		3.5	Voids retain flood immunity, supported by flood modelling re-run at end of life and calibrated against the final landform.
		3.6	The void will not present an unacceptable risk of environmental harm.
		3.7	Erosion of the landform within the NUMA area will not negatively impact on the stability any adjacent rehabilitation areas, or their ability to sustain their PMLU.
		3.8	Monitoring and maintenance of exclusion fences and bunds to be carried out to ensure they remain effective.

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Section F – Attachments

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Attachment 1 – Soil Quality Criteria

Parameter	Criteria
pH	6.0-8.5
Electrical Conductivity (EC) _{1:5} (µS/cm)	≤2000
Sulphates (mg/kg)	≥4
Nitrate (mg/kg)	>12.5
Total Kjeldahl Nitrogen (mg/kg)	≥200
Total Phosphorus (mg/kg)	≥10
Chloride (mg/kg)	<800
Cation Exchange Capacity (CEC) and Exchangeable Cations (mEq/100g)	≥5
Exchangeable Sodium Percentage [ESP] (%)	<6
Organic matter (%)	≥1
Emerson aggregate class	≥4

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Attachment 2 – Erosion Classification Framework:

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope, etc	Loss of surface horizon; root exposure; moderate substantial soil deposits downslope
Rill erosion	<0.3m deep <15 rills/transect*	<0.3m deep 15-30 rills/transect*	<0.3m deep >30 rills/transect*
Gully erosion	Absent	>0.3m deep Gullies are linear, continuous, and restricted to primary or minor drainage lines	>0.3m deep Gullies are continuous or discontinuous, and either tend to branch away from primary drainage lines and on to foot slopes, or have multiple branches within drainage lines
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

Source: NCST (2009) Australian Soil and Land Survey Field Handbook, 3rd edition. The National Committee on Soil and Terrain. CSIRO Publishing, Collingwood, Australia.

*Transect linear 100 m across the contour (Source: Tongway, D. J. and Hindley, N. L. 2005. Landscape Function Analysis: Procedures for Monitoring and Assessing Landscapes. CSIRO Publishing, Canberra, Australia)

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Attachment 3 – Species Seed Mixes

Species Name*	Common Name	Suitability		Rationale			Post Mining Land Use**
		Steep-rocky slopes	Flat/Gentle	Already present in rehabilitation area*	Typical dominant species in native ecosystems	Typical habitat	
			Topsoiled surfaces				
TREES							
<i>Corymbia citriodora</i>	Lemon-scented Gum	✓	✓	✓	✓	In variety of situations	G
<i>Corymbia clarksoniana</i>	Clarkson's bloodwood	✓	✓			Both plains and skeletal soils	G
<i>Corymbia erythrophloia</i>	Red bloodwood	✓	✓		✓	Variety of habitats	G
<i>Corymbia tessellaris</i>	Moreton Bay ash		✓			Creek banks	G
<i>Corymbia watsoniana</i>	Yellow jacket	✓	✓		✓	Sandy soils on sandstone.	G
<i>Eucalyptus cambageana</i>	Dawson gum		✓	✓	✓	Often occurs with Brigalow, but could be good in slightly more saline areas	
<i>Eucalyptus cloeziana</i>	Gympie messmate	✓				Skeletal soil	
<i>Eucalyptus crebra</i>	Small-leaved ironbark	✓	✓	✓	✓	Variety of habitats	G
<i>Eucalyptus longirostrata</i>	Grey gum	✓		✓		Skeletal soil	G
<i>Eucalyptus melanophloia</i>	Silver-leaved ironbark		✓		✓	Upper floodplains	G
<i>Eucalyptus microcarpa</i>	Grey box		✓		✓	Grassy flats	
<i>Eucalyptus orgadophila</i>	Mountain coolabah		✓	✓	✓	Variety of habitats	G
<i>Eucalyptus suffulgens</i>	Blue mallee	✓				Skeletal soil	G
<i>Eucalyptus tereticornis</i>	Blue gum		✓	✓	✓	Variety of habitats.	G
<i>Eucalyptus thozetiana</i>	Thozet's gum	✓	✓	✓		Variety of habitats, pebbly soils, slight rises	G

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<i>Ficus rubiginosa</i>	Rusty fig	✓	✓			Rocky locations in region	G
<i>Lysicarpus angustifolius</i>	Brown hazelwood		✓		✓	Poor nutrient soils	G
<i>Lysiphyllum hookeri</i>	Native bauhinia	✓	✓			Fixes nitrogen	G
SMALL TREES / TALL SHRUBS							
<i>Acacia bancroftiorum</i>	Bancroft's wattle	✓	✓	✓	✓	Often present in rehab within region. Fixes nitrogen	
<i>Acacia fasciculifera</i>	Scrub ironbark	✓	✓		✓	Variety of habitats, including ridges and along creeks. Fixes nitrogen.	
<i>Acacia conferta</i>	Crowded-leaf wattle		✓		✓	Fixes nitrogen.	
<i>Acacia crassa</i>	Curacabah	✓	✓		✓	Variety of habitats. Fixes nitrogen	
<i>Acacia decora</i>	Pretty wattle	✓		✓		Ridges and outcrops. Fixes nitrogen.	
<i>Acacia leiocalyx</i>	Black wattle		✓		✓	Variety of habitats. Fixes nitrogen.	
<i>Acacia neriifolia</i>	Oleander wattle	✓	✓			Rocky hillsides and ridgetops of granite or sandstone. Fixes nitrogen.	
<i>Acacia oswaldii</i>	Boree		✓			Loamy soil. Fixes nitrogen.	
<i>Acacia rhodoxylon</i>	Rosewood	✓	✓	✓		Skeletal soils on hills of the region. Fixes nitrogen.	
<i>Acacia shirleyi</i>	Lancewood	✓			✓	Rocky slopes of region. Fixes nitrogen	
<i>Acalypha eremorum</i>		✓	✓			Variety of habitats.	
<i>Alectryon diversifolius</i>			✓	✓		Clay soil	
<i>Allocasuarina littoralis</i>	Black she-oak	✓	✓		✓	Variety of habitats. Fixes nitrogen	
<i>Alphitonia excelsa</i>	Soap tree		✓	✓	✓	Variety of habitats. Common pioneer	
<i>Alstonia constricta</i>		✓	✓	✓	✓	Variety of habitats., including rocky slopes. Common pioneer	
<i>Archidendropsis basaltica</i>	Red lancewood	✓	✓	✓		Variety of habitats	
<i>Atalaya hemiglauca</i>	Whitewood		✓	✓		Variety of habitats.. Common pioneer on clayey soils	
<i>Cassia brewsteri</i>	Leichhardt bean	✓	✓	✓		Variety of habitats. Fixes nitrogen.	

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<i>Croton insularis</i>		✓	✓			Variety of habitats	
<i>Denhamia oleaster</i>			✓	✓		Variety of habitat including open forest and vine thicket	
<i>Diospyros humilis</i>	Ebony	✓				Variety of habitats, including rocky slopes	
<i>Drypetes deplanchei</i>		✓	✓			Variety of habitats	
<i>Ehretia saligna</i> var. <i>membranifolia</i>	Peach bush		✓	✓		Moister locations	
<i>Eremophila deserti</i>	Turkey bush	✓	✓			Variety of habitats	
<i>Eremophila mitchellii</i>	False sandalwood		✓	✓		Typically on flat black soil areas	
<i>Excoecaria dallachyana</i>		✓	✓			Variety of habitats	
<i>Ficus opposita</i>	Sandpaper fig	✓	✓			Variety of habitats	
<i>Flindersia dissosperma</i>	Scrub leopardwood	✓	✓			Variety of habitats	
<i>Geijera salicifolia</i>		✓	✓			Variety of habitats. Common pioneer	
<i>Geijera parviflora</i>	Wilga		✓	✓	✓	Often on clay soils	
<i>Grevillea striata</i>	Beefwood		✓	✓		Preferring slightly acid soils.	
<i>Leptospermum sericatum</i>	Teatree	✓			✓	Variety of habitats	
<i>Leptospermum lamellatum</i>	Teatree	✓	✓			Variety of habitats	
<i>Lophostemon suaveolens</i>	Swamp mahogany		✓		✓	Variety of habitats	
<i>Macropteranthes leichhardtii</i>	Bonewood	✓	✓			Variety of habitats	
<i>Notelaea microcarpa</i>		✓		✓		Variety of habitats	
<i>Owenia acidula</i>	Emu apple	✓	✓			Variety of habitats	
<i>Petalostigma pubescens</i>	Quinine bush	✓	✓	✓	✓	Variety of habitats	
<i>Pittosporum angustifolium</i>	Weeping pittosporum		✓			Variety of habitats	
<i>Pittosporum spinescens</i>		✓	✓			Variety of habitats	

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<i>Psyrax odorata</i>		✓	✓	✓		Variety of habitats	
<i>Psyrax oleifolia</i>		✓	✓			Occurs in variety of habitats in region, including in RE adjacent to site typical of generally deep texture contrast with thick sandy surface horizons with some deep red earths	
<i>Santalum lanceolatum</i>	Sandalwood	✓	✓			Variety of habitats	
<i>Senna gaudichaudii</i>		✓	✓			Variety of habitats. Fixes nitrogen	
<i>Terminalia oblongata</i>	Yellowwood		✓			Black soil	
SMALL SHRUBS							
<i>Acalypha eremorum</i>		✓	✓			Variety of habitats	
<i>Bertya pedicellata</i>		✓				Variety of habitats	
<i>Boronia odorata</i>		✓				Variety of habitats	
<i>Breynia oblongifolia</i>	Coffee bush		✓	✓		Variety of habitats	
<i>Carissa ovata</i>			✓	✓		Variety of habitats	
<i>Clerodendrum floribundum</i>	Loblolly bush		✓			Variety of habitats. Quite often used in rehab	
<i>Corchorus trilocularis</i>			✓			Variety of habitats. Used effectively in rehab elsewhere	
<i>Dodonaea filifolia</i>		✓				Variety of habitats	
<i>Dodonaea viscosa</i>	Sticky hopbush		✓	✓	✓	Variety of habitats. Used effectively in rehab elsewhere	
<i>Dodonaea stenophylla</i>		✓				Variety of habitats	
<i>Dodonaea triangularis</i>		✓				Variety of habitats	
<i>Eremophila debilis</i>			✓			Variety of habitats	
<i>Erythroxylum australe</i>	Ironwood	✓	✓	✓		Variety of habitats	
<i>Grewia latifolia</i>	Dog's balls	✓	✓	✓	✓	Variety of habitats	
<i>Hibbertia cistoidea</i>		✓	✓			Variety of habitats	
<i>Hovea longipes</i>		✓	✓			Variety of habitats Fixes nitrogen	

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<i>Hovea lorata</i>		✓	✓			Variety of habitats. Fixes nitrogen	
<i>Jacksonia scoparia</i>	Dogwood	✓	✓			Variety of habitats. Fixes nitrogen	
<i>Myoporum acuminatum</i>	Boobialla		✓	✓		Variety of habitats	
<i>Pultenaea spinosa</i>			✓	✓		Variety of habitats. Fixes nitrogen	
<i>Senna artemisioides</i>	Wormwood	✓	✓	✓	✓	Variety of habitats. Drought tolerant. Fixes nitrogen	
VINES							
<i>Boerhavia dominii</i>			✓	✓		Variety of habitats, especially black soil	
<i>Capparis lasiantha</i>		✓	✓	✓		Variety of habitats	
<i>Clematicissus opaca</i>		✓	✓			Variety of habitats	
<i>Desmodium brachypodium</i> (NL)		✓	✓		✓	Variety of habitats. Nitrogen fixing	G
<i>Desmodium rhytidophyllum</i> (NL)		✓	✓		✓	Variety of habitats. Nitrogen fixing	G
<i>Eustrephus latifolius</i>	Wombat berry	✓	✓	✓		Variety of habitats	
<i>Evolvulus alsinoides</i>			✓	✓		Variety of habitats	
<i>Galactia tenuiflora</i> (NL)		✓	✓			Variety of habitats. Nitrogen fixing	G
<i>Glycine tomentella</i> (NL)		✓	✓			Variety of habitats. Nitrogen fixing	G
<i>Hardenbergia violacea</i> (NL)		✓	✓			Variety of habitats. Nitrogen fixing	G
<i>Ipomoea plebeia</i>			✓			Variety of habitats	
<i>Jasminum didymum</i>		✓	✓			Variety of habitats	
<i>Kennedia rubicunda</i> (NL)		✓	✓		✓	Variety of habitats. Nitrogen fixing	G
<i>Neptunia gracilis</i> (NL)			✓		✓	Variety of habitats. Often used in rehabilitation. Fixes nitrogen	G
<i>Pandorea pandorana</i>	Jasmin	✓	✓			Variety of habitats	
<i>Parsonsia lanceolata</i>	Monkey rope		✓		✓	Variety of habitats	

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<i>Passiflora aurantia</i>		✓	✓			Variety of habitats	
<i>Rhynchosia minima</i> (NL)		✓	✓	✓	✓	Variety of habitats. Nitrogen fixing	G
<i>Vigna spp.</i> (NL)		✓	✓			Variety of habitats. Nitrogen fixing	G
GRASSES							
<i>Aristida calycina</i>	Three awn	✓	✓	✓	✓	Variety of habitats, poor soils	G
<i>Aristida caput-medusae</i>	Three awn	✓			✓	Variety of habitats, poor soils	G
<i>Aristida latifolia</i>	Three awn	✓	✓	✓	✓	Variety of habitats, clay soils	
<i>Arundinella nepalensis</i>	Reedgrass		✓			Variety of habitats	G
<i>Bothriochloa bladhii</i> (3P)	Bluegrass	✓	✓	✓	✓	Variety of habitats	G
<i>Bothriochloa decipiens</i>	Pitted bluegrass	✓	✓	✓	✓	Variety of habitats	G
<i>Brachyachne convergens</i>			✓			Variety of habitats	
<i>Chloris ventricosa</i>			✓		✓	Variety of habitats. Clay soils	G
<i>Chrysopogon fallax</i> (3P)	Golden beard grass	✓	✓	✓	✓	Variety of habitats	G
<i>Cleistochloa subjuncea</i>	Wire grass	✓			✓	Adapted to skeletal soils. Tough species	G
<i>Cymbopogon refractus</i>	Barbed wire grass	✓	✓	✓	✓	Variety of habitats	G
<i>Dactyloctenium radicans</i>			✓			Variety of habitats. Stoloniferous species	
<i>Dichanthium sericeum</i> (3P)	Bluegrass		✓	✓	✓	Black soils	G
<i>Digitaria brownii</i> (3P)			✓		✓	Variety of habitats	G
<i>Digitaria ciliaris</i>			✓		✓	Variety of habitats	
<i>Dinebra decipiens</i>			✓			Variety of habitats	
<i>Enneapogon lindleyanus</i>	Nineawn			✓	✓	Variety of habitats, skeletal soils	G
<i>Enneapogon truncatus</i>	Nineawn			✓	✓	Variety of habitats, skeletal soils	G

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<i>Enteropogon acicularis</i> (3P)	Nineawn		✓		✓	Variety of habitats, clay soils	G
<i>Entolasia stricta</i>	Wire grass	✓	✓		✓	Adapted to skeletal soils. Tough species	G
<i>Eragrostis lacunaria</i>			✓		✓	Variety of habitats	G
<i>Eriochloa crebra</i>			✓			Variety of habitats	G
<i>Heteropogon contortus</i> (3P)	Black speargrass	✓	✓	✓	✓	Variety of habitats. Common on slopes and ridges of the region	G
<i>Iseilema</i> spp.			✓		✓	Variety of habitats, often on plains	
<i>Panicum decompositum</i>	Panic		✓		✓	Clayey, periodically flooded sites	G
<i>Panicum effusum</i>	Panic		✓		✓	Variety of habitats, especially clay soils	G
<i>Paspalidium caespitosum</i>	Brigalow grass		✓	✓	✓	Variety of habitats in more favourable sites	
<i>Paspalidium gracile</i> (3P)	Slender panic		✓		✓	Variety of habitats in more favourable sites	G
<i>Sporobolus caroli</i>	Fairy grass		✓		✓	Variety of habitats in more favourable sites	
<i>Themeda triandra</i> (3P)	Kangaroo grass	✓	✓	✓	✓	Wide variety of habitats, but with soil.	G
<i>Triodia mitchellii</i>	Buck spinifex	✓			✓	Stony soils on hillslopes, ridges and plateaux	
FORBS							
<i>Atriplex muelleri</i>	Saltbush		✓		✓	Salt tolerant	
<i>Basilicum polystachyon</i>	Basil	✓	✓			Variety of habitats	
<i>Brunoniella australis</i>			✓	✓		Variety of habitats	
<i>Cheilanthes sieberi</i>	Rasp fern	✓	✓	✓	✓	Variety of habitats	
<i>Cullen tenax</i>	Emu foot		✓	✓		Variety of habitats. Nitrogen fixing	
<i>Dampiera discolor</i>			✓			Variety of habitats	
<i>Dianella longifolia</i>	Flax lily	✓	✓			Variety of habitats, damper sites	
<i>Dysphania carinata</i>			✓			Variety of habitats. Salt tolerant	
<i>Einadia</i> spp.	Saltbush		✓		✓	Variety of habitats. Salt tolerant	

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<i>Enchylaena tomentosa</i>	Ruby saltbush		✓	✓	✓	Variety of habitats. Salt tolerant	
<i>Euphorbia drummondii</i>		✓	✓	✓		Variety of habitats. Salt tolerant	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>		✓	✓			Variety of habitats. Salt tolerant	
<i>Goodenia glabra</i>		✓	✓			Variety of habitats	
<i>Goodenia rotundifolia</i>		✓	✓			Variety of habitats	
<i>Gossypium sturtianum</i>		✓	✓			Variety of habitats	
<i>Hibiscus sturtii</i>		✓	✓	✓		Variety of habitats	
<i>Lomandra confertifolia</i>	Mat rush	✓	✓		✓	Variety of habitats	
<i>Lomandra multiflora</i>	Mat rush		✓	✓	✓	Variety of habitats, damper areas	
<i>Maireana enchylaenoides</i>	Wingless bluebush		✓			Variety of habitats. Salt tolerant	
<i>Melhania oblongifolia</i>		✓	✓	✓		Variety of habitats. Has been used successfully in regional rehabilitation	
<i>Peripleura hispidula</i>			✓	✓		Variety of habitats	
<i>Phyllanthus virgatus</i>			✓	✓	✓	Variety of habitats	
<i>Pterocaulon serrulatum</i>		✓	✓	✓		Variety of habitats	
<i>Rostellularia adscendens</i>			✓	✓		Variety of habitats	
<i>Rutidosia crispata</i>			✓			Variety of habitats	
<i>Seringia corollata</i>		✓	✓			Variety of habitats	
<i>Solanum elaeagnifolium</i>	Nightshade	✓	✓			Variety of habitats	
<i>Solanum ellipticum</i>	Nightshade	✓	✓	✓		Variety of habitats	
<i>Solanum parvifolium</i>	Nightshade	✓	✓	✓		Variety of habitats	
<i>Sida</i> spp. (Native!)	Sida	✓	✓		✓	Variety of habitats	
* 3P = Palatable, Perennial, Productive ; NL = Native Legume ** While all species are suitable for either PMLU (Grazing or Bushland), those marked G are highlighted for Grazing (fodder and shade)							

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Attachment 4 – Seeding Rates

Bushland PMLU - to be adapted to site conditions			
TREES			
(minimum of 3 species from the list with bulked seed at 3kg/ha (assuming some chaff and impurities in the seed lots). Use 1.5kg/ha if using pure seed)			
<i>Lysicarpus angustifolius</i>	<i>Eucalyptus cambageana</i>	<i>Eucalyptus longirostrata</i>	<i>Corymbia watsoniana</i>
<i>Eucalyptus thozetiana</i>	<i>Eucalyptus citriodora</i>	<i>Eucalyptus orgadophila</i>	
<i>Corymbia clarksoniana</i>	<i>Eucalyptus tereticornis</i>	<i>Eucalyptus suffulgens</i>	
<i>Corymbia erythrophloia</i>	<i>Eucalyptus crebra</i>	<i>Eucalyptus cloeziana</i>	
TALL SHRUBS/SMALL TREES			
(minimum of 4 species from the list with bulked seed at 4 kg/ha). (assuming some chaff and impurities in the seed lots).			
<i>Allocasuarina littoralis</i>	<i>Alectryon diversifolius</i>	<i>Cassia brewsteri</i>	<i>Lophostemon suaveolens</i>
<i>Acacia bancroftiorum</i>	<i>Acacia rhodoxylon</i>	<i>Denhamia oleaster</i>	<i>Notelaea microcarpa</i>
<i>Acacia fasciculifera</i>	<i>Acacia shirleyi</i>	<i>Ficus opposita</i>	<i>Petalostigma pubescens</i>
<i>Acacia conferta</i>	<i>Alphitonia excelsa</i>	<i>Eremophila mitchellii</i>	<i>Terminalia oblongata</i>
<i>Acacia crassa</i>	<i>Alstonia constricta</i>	<i>Leptospermum lamellatum</i>	<i>Psyrax odorata</i>
<i>Acacia decora</i>	<i>Archidendropsis basaltica</i>	<i>Geijera salicifolia</i>	<i>Santalum lanceolatum</i>
<i>Acacia leiocalyx</i>	<i>Atalaya hemiglauca</i>	<i>Pittosporum spinescens</i>	
LOW SHRUBS			
(minimum of 1 species from the list with a bulked seed at 1kg/ha) (assuming some chaff and impurities in the seed lots).			
<i>Breynia oblongifolia</i>	<i>Dodonaea viscosa</i>	<i>Erythroxylum australe</i>	<i>Dodonaea filifolia</i>
<i>Carissa ovata</i>	<i>Jacksonia scoparia</i>	<i>Grewia latifolia</i>	<i>Eremophila debilis</i>
<i>Hovea lorata</i>	<i>Dodonaea triangularis</i>	<i>Hovea longipes</i>	

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GRASSES			
(minimum of 5 species from the list with bulked seed at 3kg/ha) (assuming some chaff and impurities in the seed lots).			
<i>Aristida calycina</i>	<i>Cleistochloa subjuncea</i>	<i>Enneapogon lindleyanus</i>	<i>Chrysopogon fallax</i> (3P)
<i>Aristida caput-medusae</i>	<i>Cymbopogon refractus</i>	<i>Enneapogon truncatus</i>	<i>Digitaria brownii</i> (3P)
<i>Themeda triandra</i> (3P)	<i>Panicum effusum</i>	<i>Entolasia stricta</i>	<i>Eriochloa crebra</i> (3P)
<i>Paspalidium gracile</i> (3P)	<i>Heteropogon contortus</i> (3P)	<i>Eragrostis lacunaria</i>	
<i>Bothriochloa bladhii</i> (3P)	<i>Dichanthium sericeum</i> (3P)	<i>Enteropogon acicularis</i> (3P)	
FORBS			
(minimum of 2 species from the list with bulked seed at 1kg/ha) (assuming some chaff and impurities in the seed lots).			
<i>Euphorbia drummondii</i>	<i>Rostellularia adscendens</i>	<i>Melhanian oblongifolia</i>	<i>Lomandra confertifolia</i>
<i>Euphorbia tannensis</i>	<i>Seringia corollata</i>	<i>Phyllanthus virgatus</i>	<i>Solanum parvifolium</i>
<i>Solanum ellipticum</i>	<i>Goodenia rotundifolia</i>	<i>Sida spp. (Native!)</i>	<i>Hibiscus sturtii</i>
Grazing PMLU - to be adapted to site conditions			
SHADE TREES			
(minimum of 2 species from the list with bulked seed at 1kg/ha (assuming some chaff and impurities in the seed lots). Use 0.5kg/ha if using pure seed)			
<i>Lysicarpus angustifolius</i>	<i>Eucalyptus cambageana</i>	<i>Eucalyptus longirostrata</i>	<i>Corymbia watsoniana</i>
<i>Eucalyptus thozetiana</i>	<i>Eucalyptus citriodora</i>	<i>Eucalyptus orgadophila</i>	<i>Corymbia erythrophloia</i>
<i>Corymbia clarksoniana</i>	<i>Eucalyptus tereticornis</i>	<i>Eucalyptus suffulgens</i>	<i>Eucalyptus crebra</i>
GROUND COVER			
(minimum of 3 species from the list with bulked seed at 3kg/ha) (assuming some chaff and impurities in the seed lots).			
<i>Boerhavia dominii</i>	<i>Eustrephus latifolius</i>	<i>Parsonsia lanceolata</i>	<i>Vigna spp. (NL)</i>
<i>Clematis opaca</i>	<i>Evolvulus alsinoides</i>	<i>Rhynchosia minima</i> (NL)	<i>Kennedia rubicunda</i> (NL)
<i>Desmodium brachypodium</i> (NL)	<i>Galactia tenuiflora</i> (NL)	<i>Neptunia gracilis</i> (NL)	<i>Entolasia stricta</i>
<i>Desmodium rhytidophyllum</i> (NL)	<i>Glycine tomentella</i> (NL)	<i>Pandorea pandorana</i>	<i>Eragrostis lacunaria</i>

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<i>Euphorbia drummondii</i>	<i>Rostellularia adscendens</i>	<i>Melhanian oblongifolia</i>	<i>Lomandra confertifolia</i>
<i>Euphorbia tannensis</i>	<i>Seringia corollata</i>	<i>Phyllanthus virgatus</i>	<i>Solanum parvifolium</i>
<i>Solanum ellipticum</i>	<i>Goodenia rotundifolia</i>	<i>Sida spp. (Native!)</i>	<i>Hibiscus sturtii</i>
<i>Aristida calycina</i>	<i>Cleistochloa subjuncea</i>	<i>Enneapogon lindleyanus</i>	<i>Panicum effusum</i>
<i>Aristida caput-medusae</i>	<i>Cymbopogon refractus</i>	<i>Enneapogon truncatus</i>	
3P GRASSES			
(minimum of 3 species from the list with bulked seed at 3kg/ha) (assuming some chaff and impurities in the seed lots).			
<i>Bothriochloa bladhii</i> (3P)	<i>Dichanthium sericeum</i> (3P)	<i>Enteropogon acicularis</i> (3P)	<i>Chrysopogon fallax</i> (3P)
<i>Paspalidium gracile</i> (3P)	<i>Heteropogon contortus</i> (3P)	<i>Eriochloa crebra</i> (3P)	<i>Digitaria brownii</i> (3P)
<i>Themeda triandra</i> (3P)			

Note: Where seed for a specific species is not available in sufficient quality or quantity as listed in this table, it will be supplemented by the equivalent weight of a comparable native species from the technical descriptions for suitable regional ecosystems.

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Attachment 5 – BioCondition Benchmark Criteria

Regional Ecosystem RE11.10.1 Rehabilitated *Corymbia citriodora* and/or *Eucalyptus crebra* shrubby or grassy open forest.

BioCondition Assessable Attributes	BioCondition Assessable Attribute Weighting	BioCondition benchmark	Indicative ¹ measure at c. 5yrs	BioCondition Score	Indicative ¹ measure at c.15-20 yrs	BioCondition Score
Recruitment	5	100%	0	0	20%	3
Non-native plant cover (%)	10	0%	<25%	5	<25%	5
Tree species richness	5	4	≥1	2.5	≥4	5
Native shrub species richness	5	4	≥1	2.5	≥1	2.5
Native grass species richness	5	9	≥2	2.5	≥2	2.5
Native forb other species richness	5	17	≥4	2.5	≥4	2.5
Tree canopy height (m)	5	24	0	0	≥6.0m	3
Tree canopy cover (%)	5	30	≥3.0%	2	≥15%	5
Shrub canopy cover (%)	5	13	≥1%	3	≥6.5%	3
Native perennial grass (%)	5	16	≥8%	3	≥8%	3
Litter ground cover (%)	5	50	0	0	≥5%	3
Total BioCondition Assessable Score	60			>20 Total above = 23		>35 Total above = 37.5

¹A site's total BioCondition score can be comprised of different attribute scores but must meet or exceed the minimum (modified) total BC score for the relevant milestone.

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Regional Ecosystem RE11.3.25 Rehabilitated *Eucalyptus tereticornis* or *E. camaldulensis* woodland to open forest.

BioCondition Assessable Attributes	BioCondition Assessable Attribute Weighting	BioCondition benchmark	Indicative ¹ measure at c. 5yrs	BioCondition Score	Indicative ¹ measure at c.15-20 yrs	BioCondition Score
Recruitment	5	100%	0	0	20%	3
Non-native plant cover (%)	10	0%	<25%	5	<25%	5
Tree species richness	5	4	≥1	2.5	≥4	5
Native shrub species richness	5	4	≥1	2.5	≥1	2.5
Native grass species richness	5	8	≥2	2.5	≥2	2.5
Native forb other species richness	5	13	≥3	2.5	≥3	2.5
Tree canopy height (m)	5	23	0	0	≥6.0m	3
Tree canopy cover (%)	5	34	≥3.4%	2	≥17%	5
Shrub canopy cover (%)	5	7	≥1%	3	≥3.5%	3
Native perennial grass (%)	5	35	≥18%	3	≥18%	3
Litter ground cover (%)	5	21	0	0	≥2%	3
Total BioCondition Assessable Score	60			>20 Total above = 23		>35 Total above = 37.5

¹A site's total BioCondition score can be comprised of different attribute scores but must meet or exceed the minimum (modified) total BC score for the relevant milestone

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Attachment 6 – Surface Water Monitoring Locations

Monitoring Points	Receiving Waters Location Description	Latitude (decimal degree, GDA2020)	Longitude (decimal degree, GDA2020)
Upstream Monitoring Points			
AQ-DS01R Theodore	Dawson River 1.4 kilometres upstream of confluence with release water channel	-24.949	150.0736
Downstream Monitoring Points			
DS-130317B-Woodleigh	Dawson River main Channel at existing stream flow station at Woodleigh – 130317B.	-24.83211532	149.97499566
DS9	Downgradient of Pit 25 and Pit 26	-24.82931846	150.01271329
DS10	Dawson River Anabranh, downstream of Pit 28	-24.8898177	150.02856207

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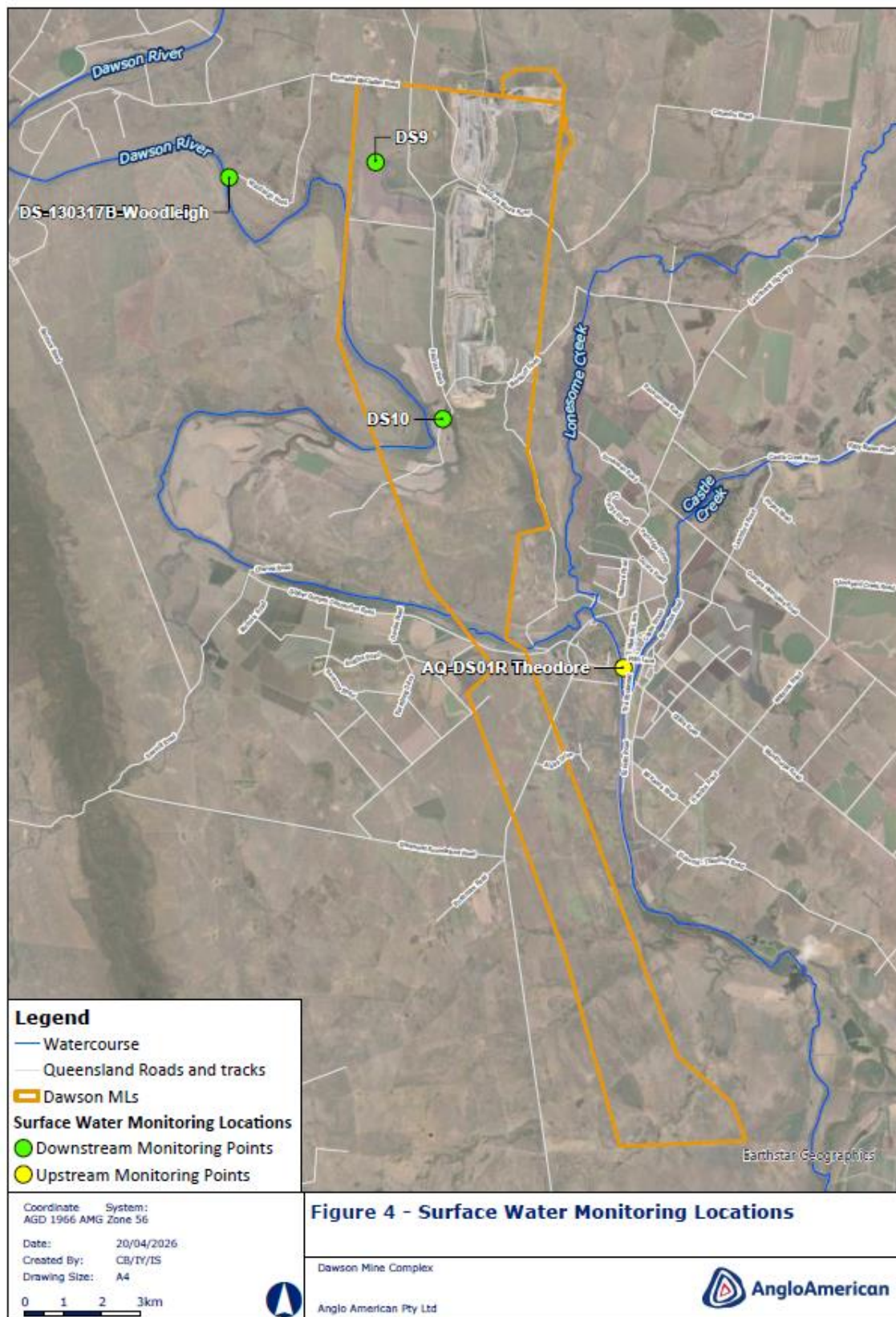


Figure 4 – Surface Water Monitoring Locations

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Attachment 7 – Surface Water Quality Limits

Quality characteristic (units)	Limit	Comment on limit
pH	6.5-8.5	Lower Dawson River WQO
Electrical Conductivity ($\mu\text{S}/\text{cm}$)	340	Lower Dawson River WQO – Baseflow
Turbidity (NTU)	50	Lower Dawson River WQO
Sulphate (mg/L)	25	Lower Dawson River WQO
Fluoride (mg/L)	0.2	Site-specific – 95 th percentile of upstream data
Aluminium - dissolved ($\mu\text{g}/\text{L}$)	160	Site-specific – 95 th percentile of upstream data
Antimony - dissolved ($\mu\text{g}/\text{L}$)	9	ANZG 2018
Arsenic - dissolved ($\mu\text{g}/\text{L}$)	13	ANZG 2018
Boron - dissolved ($\mu\text{g}/\text{L}$)	90	Site-specific – 95 th percentile of upstream data
Copper - dissolved ($\mu\text{g}/\text{L}$)	3	Site-specific – 95 th percentile of upstream data
Iron - dissolved ($\mu\text{g}/\text{L}$)	270	Site-specific – 95 th percentile of upstream data
Manganese - dissolved ($\mu\text{g}/\text{L}$)	63	Site-specific – 95 th percentile of upstream data
Molybdenum - dissolved ($\mu\text{g}/\text{L}$)	2	Site-specific – 95 th percentile of upstream data
Nickel - dissolved ($\mu\text{g}/\text{L}$)	11	ANZG 2018
Vanadium - dissolved ($\mu\text{g}/\text{L}$)	6	ANZG 2018
Zinc - dissolved ($\mu\text{g}/\text{L}$)	40	Site-specific – 95 th percentile of upstream data
Nitrate ($\mu\text{g}/\text{L}$)	0.5	Site-specific – 95 th percentile of upstream data
Total recoverable hydrocarbons (C6-C9) ($\mu\text{g}/\text{L}$)	20	
Total recoverable hydrocarbons (C10-C36) ($\mu\text{g}/\text{L}$)	100	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes	
Hardness (mg/L)	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)
- Lower Dawson WQOs - https://environment.desi.qld.gov.au/_data/assets/pdf_file/0030/88824/fitzroy_dawson_river_wqo_290911.pdf

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Attachment 8 – Groundwater Monitoring Locations

Monitoring Bore	Hydrogeological Unit	Latitude (decimal degree, GA2020)	Longitude (decimal degree, GDA2020)
DSMB03	Tertiary Sediments	-24.94157	150.04325
DSMB04	Alluvium	-24.93948	150.03683
DSMB05	Alluvium	-24.90379	150.0298
DSMB06	Alluvium	-24.89686	150.02784
DSMB07	Alluvium	-24.8862	150.02231
DSMB13	Alluvium	-24.86707	150.00675
DSMB14	Alluvium	-24.84432	150.00556
P25_MB02D	Tertiary Sediments	TBD	TBD
P25_MB_02S	Alluvium	TBD	TBD

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Figure 5 - Groundwater Monitoring Locations

Attachment 9 – Groundwater Quality Limits

Quality characteristic (units)	Monitoring Bore	Limit	Comment on limit
pH (pH units)	All bores	6.5 – 8.5	
Electrical conductivity (µS/cm)	All bores	4,600	WQO Zone 21
Sulfate (mg/L)	All bores	125	WQO Zone 21
Nitrate (mg/L)	All bores	1	WQO Zone 21
Fluoride (mg/L)	All bores	0.4	WQO Zone 21
Aluminium - dissolved (µg/L)	All bores	55	ANZG 2018
Antimony - dissolved (µg/L)	All bores	9	ANZG 2018
Arsenic - dissolved (µg/L)	All bores	13	ANZG 2018
Boron - dissolved (µg/L)	All bores	940	ANZG 2018
Copper – dissolved (µg/L)	All bores	60	WQO Zone 21
Iron - dissolved (µg/L)	All bores	280	ANZG 2018
Manganese - dissolved (µg/L)	All bores	270	WQO Zone 21
Molybdenum - dissolved (µg/L)	All bores	34	ANZG 2018
Nickel - dissolved (µg/L)	All bores	11	ANZG 2018
Vanadium - dissolved (µg/L)	All bores	6	ANZG 2018
Zinc - dissolved (µg/L)	All bores	150	WQO Zone 21
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)
- Fitzroy Groundwater Basin Zone 21 WQOs -
https://environment.desi.qld.gov.au/_data/assets/pdf_file/0030/88824/fitzroy_dawson_river_wqo_290911.pdf

END OF PRCP SCHEDULE