



**Resources
Regulator**

FWP0001765

BOWRAL WASTE CENTRE PTY LTD QUARRY EXTENSION FORWARD PROGRAM

Saturday 6 December 2025 to Tuesday 5 December 2028

Summary

Detail	
Mine	Bowral Waste Centre Pty Ltd Quarry Extension
Reference	FWP0001765
Forward program commencement date	Saturday 6 December 2025
Forward program end date	Tuesday 5 December 2028
Forward program revision (if applicable)	
Contact	Ewen McKenzie
Mining leases	M(MO)L 11 (1992)
Project location	Bowral Waste Centre Pty Ltd
Date of submission	Monday 2 February 2026
Document URL <small>Security reminder: Please exercise caution before opening external links. If a link appears suspicious, avoid clicking it and report it to the Resources Regulator.</small>	https://www.bowralwastecentre.com.au/

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Three-year forecast - surface disturbance activities

Project description

The Bowral Quarry Extension (the "Quarry") is located within and adjacent to an industrial area approximately 1km south-west of Bowral's town centre. Since approval of Development Consent DA267/95, the Bowral Quarry Extension has supplied principally Ashfield Shale together with smaller amounts of clay and sandstone material for brick manufacture . Following changes in mining legislation, M(MO)l11 was granted to the Austral brick Company Pty Ltd (Austral bricks) on 6 December 2018 for an area smaller than that provided for by the Development Consent. Since the grant of M(MO)L11 extraction operations have been limited to the mining lease grant area. It is noted that DA267/95 does not specify a project life or end date for extraction operations within the quarry site (the Quarry Site). Notwithstanding , the remaining reserves within M(MO)L11 will be relinquished by 2028. Ownership of the quarry extension passed to Bowral Waste Centre Pty Ltd (BWC) in mid 2024.

Description of surface disturbance activities

Exploration activities

No exploration is proposed to occur within the Quarry Site during the Forward program period

Construction activities

No construction activities are scheduled to occur within the Quarry Site during the Forward Program period.

Mining schedule

Mining development method and sequencing and general mine features.

Any extraction will involve either the use of scrapers or and excavator and haul trucks. The more competent materials will require ripping by bulldozer prior to recovery by the scrapers/excavator, however no blasting will be undertaken. Recovered raw materials will then be placed into blended or intermediate stockpiles within the quarry or transported by the haul truck to customers (likely to be Austral bricks raw material stockpile area adjacent to BWC). Given previous site disturbance, no vegetation clearing will be required , and no topsoil will be stripped.

Areas identified for emplacements, the sequencing of emplacements, construction, and management.

No overburden material is expected to be encountered and therefore no overburden emplacement area is required. Approximately 21,000 loose cubic metres of soil material and clay has previously been stockpiled in the northern part of the Bowral Quarry Extension area. This material does not form part of the raw material resource and will be retained on site for use in future rehabilitation. Temporary placement of 5200m³ of overburden from the adjacent landfill has occurred in the NW corner of the quarry (this is quarry unrelated) and is expected to be used as landfill cover over the next 24 months.

Processing infrastructure activities and the location of tailings facilities and schedule for emplacement.

No clay/shale processing occurs within the quarry extension.

Waste disposal and materials handling operations.

Negligible wastes will be generated within the Quarry in the next three years given all amenities and workshop facilities are now located within the adjacent BWC site and not within the Quarry. Wastes likely to be produced within the Quarry include the following - General wastes produced by any contractor employees e.g. food scraps , drink and food packaging will be collected and placed in the

appropriate recycling or general waste bins located at the BWC site. Wastes such as greases, oils, filters , batteries and tyres could be generated in the event of an unscheduled maintenance event. These will be removed from the site by the contractors for appropriate offsite disposal. Scheduled maintenance of mobile equipment will occur at the BWC site.

Key production milestones

MATERIAL	UNIT	YEAR 1	YEAR 2	YEAR 3
Stripped topsoil (if applicable)	(m ³)	0	0	0
Rock/overburden	(m ³)	0	0	0
Ore	(Mt)	0	0	0
Reject material¹	(Mt)	0	0	0
Product	(Mt)	0	0	0

¹This includes coarse rejects, tailings and any other wastes resulting from beneficiation.

Three-year rehabilitation forecast

Rehabilitation planning schedule

Rehabilitation planning schedule

During the Forward Program period mining activities will continue to be undertaken within the existing disturbance areas and using existing access roads. No new disturbance is planned during the Forward Program period. Rehabilitation will only be undertaken in areas which are no longer required for operational purposes. As the extent of disturbance at the Quarry is largely confined to operational areas required to support ongoing mining activities, opportunities for progressive rehabilitation prior to the completion of mining operations are limited. As such, no specific rehabilitation activities are expected during this Forward Program period.

Stakeholder consultation

Given the scale of the Quarry and consultation undertaken as part of the preparation of Version 1 of the RMP no further stakeholder consultation is currently planned or considered necessary during the Forward Program period.

Rehabilitation studies, risk assessments and/or design work

No rehabilitation trials are currently planned or undertaken within the Quarry Site as the rehabilitation techniques are based principally upon rehabilitation principles which are well understood. The relevant techniques have previously been used at other extraction sites on land owned by Austral Bricks that was used for clay/shale extraction. No additional studies, risk assessments or design work are currently planned with regard to the final landform, water management or rehabilitation methodologies during the Forward Program period.

Rehabilitation research and trials

RRT NUMBER	PROJECT/TRIAL NAME	OBJECTIVE OF TRIAL/PROJECT	METHODOLOGY	EXPECTED DATE OF COMPLETION	STATUS
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Rehabilitation maintenance and corrective actions

No rehabilitation performance issues or knowledge gaps were identified in the First Annual Rehabilitation Report. Notwithstanding, previous rehabilitation activities at the Quarry have proved successful with no specific maintenance or corrective actions identified.

Rehabilitation schedule

During the Forward Program period some mining activities will continue be undertaken within the existing disturbance areas and using existing access roads. No new disturbance is planned during the Forward Program period. Any rehabilitation will only be undertaken in areas which are no longer required for operational purposes. As the extent of disturbance at the Quarry is largely confined to operational areas required to support ongoing mining activities, opportunities for progressive rehabilitation prior to the completion of mining operations are limited. As such, no specific rehabilitation activities are expected during this Forward Program period.

Completion of rehabilitation

Subsidence remediation for underground operations

As no underground operations are conducted as part of the Quarry's operations, no subsidence remediation is required.

Progressive mining and rehabilitation statistics

Three-yearly forecast cumulative disturbance and rehabilitation progression

Forecast	UNIT	YEAR 1	YEAR 2	YEAR 3
A1 Total disturbance footprint - surface disturbance	(ha)	3.53	3.53	3.53
O Total active disturbance	(ha)	3.53	3.53	3.53
P Total new area of land proposed for active rehabilitation	(ha)	0	0	0

Rehabilitation key performance indicators (KPIs)

Forecast	UNIT	YEAR 1	YEAR 2	YEAR 3
O Total new disturbance area during reporting period	(ha)			
P Total new area of land proposed for rehabilitation during the reporting period	(ha)			
Q Annual rehabilitation to disturbance ratio				

Attachment 1 - Reporting Definitions

REPORTING CATEGORY	DEFINITION
<p>A Total disturbance footprint - surface disturbance</p>	<p>All areas within a mining lease that either have at some point in time or continue to pose a rehabilitation liability due to surface disturbance activities.</p> <p>The total disturbance footprint is the sum of the total active disturbance, decommissioning, landform establishment, growth medium development, ecosystem and land use establishment, ecosystem and land use development and rehabilitation completion (see definitions below).</p> <p>Underground mining operations should not include the footprint of underground mining areas/subsidence management areas in the total disturbance footprint.</p>
<p>B Total active disturbance</p>	<p>Includes on-lease exploration areas, stripped areas ahead of mining, infrastructure areas, water management infrastructure, sewage treatment facilities, topsoil stockpile areas, access tracks and haul roads, active mining areas, waste rock emplacements (active/unshaped/in or out-of-pit), tailings dams (active/unshaped/uncapped) and temporary stabilised areas (e.g. areas sown with temporary cover crops for dust mitigation and temporary rehabilitation).</p>
<p>C Rehabilitation - land preparation</p>	<p>Includes the sum of all disturbed land within a mining lease that have commenced</p>

REPORTING CATEGORY	DEFINITION
	<p>any, or all, of the following phases of rehabilitation - decommissioning, landform establishment and growth medium development.</p> <p>Refer to the glossary of terms in this document for the definition of these phases of rehabilitation.</p>
<p>D</p> <p>Ecosystem and land use establishment</p>	<p>Includes the area which has been seeded/planted with the target vegetation species for the intended final land use. However, vegetation has not matured to a stage where it can be demonstrated that it will be sustainable for the long term and or require only a maintenance regime consistent with target reference/analogue sites.</p> <p>Typically, rehabilitation areas would be in this phase for at least two years (and usually more) before rehabilitation can be classified as being in the ecosystem and land use development phase. This phase does not apply to infrastructure areas that are being retained as part of final land use for the site.</p>
<p>O</p>	<p>The area of any new active disturbance that will be created during the next three years, as defined under definition A1 (definition A1 Table 5).</p>
<p>P</p>	<p>The sum of any new rehabilitation to be commenced in the next three years. These areas may be in the phases "Rehabilitation - Land Preparation" or the "Ecosystem & Land Use Establishment" (definitions C & D in Table 5).</p>

REPORTING CATEGORY

DEFINITION

Q

The rehabilitation to disturbance ratio (S / R) indicates how many hectares of new rehabilitation are undertaken for each hectare of land disturbed during the three years. A ratio of 1/1 indicates that the area of new rehabilitation and disturbance in that period are the same.

Attachment 2 - Definitions

WORD	DEFINITION
Active	In the context of rehabilitation, land associated with mining domains is considered 'active' for the period following disturbance until the commencement of rehabilitation.
Active mining phase of rehabilitation	In the context of rehabilitation, the active mining phase of rehabilitation constitutes the rehabilitation activities undertaken during mining operations such as salvaging and managing soil resources, salvaging habitat resources, and native seed collection. This phase also includes management actions taken during operations to manage risks to rehabilitation and enhance rehabilitation outcomes such as selective handling of waste rock and management of tailings emplacements.
Analogue site	In the context of rehabilitation, an analogue site is a 'reference site' that represents an example of the defining characteristics (such as vegetation composition and structure or agricultural productivity) of the final land use. Characteristics of analogue sites can be assessed to develop the rehabilitation objectives and completion criteria for final land use domains.
Annual rehabilitation report and forward program	As described in the Mining Regulation 2016.
Annual reporting period	As defined in the Mining Regulation 2016.

WORD	DEFINITION
Closure	A whole-of-mine-life process, which typically culminates in the relinquishment of the mining lease. It includes decommissioning and rehabilitation to achieve the approved final land use(s).
Decommissioning	The process of removing mining infrastructure and removing contaminants and hazardous materials.
Decommissioning Phase of Rehabilitation	Activities associated with the removal of mining infrastructure and removal and/or remediation of contaminants and hazardous materials. In the context of the rehabilitation management plan this phase of rehabilitation may also include studies and assessments associated with decommissioning and demolition of infrastructure or works carried out to make safe or 'fit for purpose ' built infrastructure to be retained for future use(s) following lease relinquishment.
Department	Department of Primary Industries and Regional Development.
Disturbance	See Surface Disturbance.
Disturbance area	<p>An area that has been disturbed and that requires rehabilitation.</p> <p>This may include areas such as on-licence exploration areas, stripped areas ahead of mining, infrastructure areas, water management infrastructure, sewage treatment facilities, topsoil stockpile areas, access tracks and haul roads, active mining areas, waste emplacements (active/unshaped/in or out-of-pit), tailings dams (active/unshaped/uncapped), and areas requiring rehabilitation that are temporarily stabilised (i.e. managed to minimise dust generation and/or erosion).</p>

WORD	DEFINITION
Domain	<p>An area (or areas) of the land that has been disturbed by mining and has a specific operational use (mining domain) or specific final land use (final land use domain). Land within a domain typically has similar geochemical and/or geophysical characteristics and therefore requires specific rehabilitation activities to achieve the associated final land use.</p>
Ecosystem and Land Use Development	<p>This phase of rehabilitation consists of the activities to manage maturing rehabilitation areas on a trajectory to achieving the approved rehabilitation objectives and completion criteria.</p> <p>For vegetated land uses this phase may include processes to develop characteristics of functional self-sustaining ecosystems, such as nutrient recycling, vegetation flowering and reproduction, and increasing habitat complexity, and development of a productive, self-sustaining soil profile.</p> <p>This phase of rehabilitation may include specific vegetation management strategies and maintenance such as tree thinning, supplementary plantings and weed management.</p>
Ecosystem and Land Use Establishment	<p>This phase of rehabilitation consists of the processes to establish the approved final land use following construction of the final landform.</p> <p>For vegetated land uses this rehabilitation phase includes establishing the desired vegetation community and implementing land management activities such as weed control. This phase of rehabilitation may also include habitat augmentation such as installation of nest boxes.</p>
Exploration	<p>Has the same meaning as that term under the State Environmental Planning Policy (Mining,</p>

WORD	DEFINITION
	Petroleum Production and Extractive Industries) 2007.
Final landform and rehabilitation plan	As defined in the Mining Regulation 2016.
Final land use	As defined in the Mining Regulation 2016.
Form and way	Means the form and way approved by the Secretary. Approved form and way documents are available on the department's website.
Growth Medium Development	<p>This phase of rehabilitation consists of activities required to establish the physical, chemical and biological components of the substrate required to establish the desired vegetation community (including short lived pioneer species.</p> <p>This phase may include spreading the prepared landform with topsoil and/or subsoil and/or soil substitutes, applying soil ameliorants to enhance the physical, chemical and biological characteristics of the growth media, and actions to minimise loss of growth media due to erosion.</p>
Habitat	Has the same meaning as that term under the Biodiversity Conservation Act 2016 and the Fisheries Management Act 1994 (as relevant).
Indicator	An attribute of the biophysical environment (e.g. pH, topsoil depth, biomass) that can be used to approximate the progression of a biophysical process. It can be measured and audited to demonstrate (and track) the progress of an aspect of rehabilitation towards a desired completion

WORD	DEFINITION
	<p>criterion (i.e. defined end point). It may be aligned to an established protocol and used to evaluate changes in a system.</p>
Land	<p>As defined in the Mining Act 1992.</p>
Landform Establishment	<p>This phase of rehabilitation consists of the processes and activities required to construct the final landform.</p> <p>In addition to profiling the surface of rehabilitation areas to the approved final landform profile this phase may include works to construct surface water drainage features, encapsulate problematic materials such as tailings, and prepare a substrate with the desired physical and chemical characteristics (e.g. rock raking or ameliorating sodic materials).</p>
Large mine	<p>As defined in the Mining Regulation 2016.</p>
Lease holder	<p>The holder of a mining lease.</p>
Life of mine	<p>The timeframe of how long a mine is approved to mine, from commencement to closure.</p>
Mine rehabilitation portal	<p>Means the Resources Regulator's online portal that lease holders must use (via a registered account) to:</p>

WORD	DEFINITION
	<ul style="list-style-type: none"> • upload rehabilitation geographical information system (GIS) spatial data • develop rehabilitation GIS spatial data (using online tracing functions) • generate rehabilitation plans and rehabilitation statistics using the map viewer and Rehabilitation Key Performance Indicator functionalities. <p>Data submitted to the mine rehabilitation portal is collated in a centralised geodatabase for use by the Resources Regulator to regulate rehabilitation performance of lease holders.</p>
Mining area	As defined in the Mining Act 1992.
Mining domain	A land management unit with a discrete operational function (e.g. overburden emplacement), and therefore similar geophysical characteristics, that will require specific rehabilitation treatments to achieve the final land use(s).
Mining land	As defined in the Mining Act 1992.
Native vegetation	Has the same meaning as that term under section 60B of the Local Land Services Act 2013.
Overburden	Material overlying coal or a mineral deposit.
Performance indicator	An attribute of the biophysical environment (for example pH, slope, topsoil depth, biomass) that can be used to demonstrate achievement of a rehabilitation objective. It can be measured and audited to

WORD	DEFINITION
	<p>demonstrate (and track) the progress of an aspect of rehabilitation towards a desired completion criterion, that is, a defined end point. It may be aligned to an established protocol and used to evaluate changes in a system.</p>
Phases of rehabilitation	<p>The stages and sequences of actions required to rehabilitate disturbed land to achieve the final land use. The phases of rehabilitation are:</p> <ul style="list-style-type: none">• active mining• decommissioning• landform Establishment• growth medium development• landform Establishment• ecosystem and land use establishment• ecosystem and land use development
Progressive rehabilitation	<p>The progress of rehabilitation towards achieving the approved rehabilitation completion criteria. This may be described in terms of domains, phases, performance indicators and rehabilitation completion criteria.</p>
Rehabilitation Completion	<p>The final phase of rehabilitation when a rehabilitation area has achieved the approved rehabilitation objectives and rehabilitation completion criteria for the final land use. Rehabilitation areas may be classified as complete when the Resources Regulator has determined in writing that the relevant</p>

WORD	DEFINITION
	rehabilitation obligations have been fulfilled following submission of <i>Form ESF2 Rehabilitation completion and/or review of rehabilitation cost estimate application</i> by the lease holder.
Rehabilitation Completion criteria	As defined in the Mining Regulation 2016.
Rehabilitation cost estimate	As defined in the Mining Regulation 2016.
Rehabilitation management plan	As defined in the Mining Regulation 2016.
Rehabilitation objectives	As defined in the Mining Regulation 2016.
Rehabilitation risk assessment	As defined in the Mining Regulation 2016.
Rehabilitation schedule	The defined timeframes for progressive rehabilitation set out in the forward program.
Relevant stakeholders	<p>Means any persons or bodies who may be affected by the mining operations, including rehabilitation, carried out on the lease land, and includes:</p> <ul style="list-style-type: none"> • the relevant development consent authority • the local council • the relevant landholder(s) • community consultative committee (if required under the development consent) or equivalent

WORD	DEFINITION
	<p>consultative group</p> <ul style="list-style-type: none"> • affected land holder(s) • government agencies relevant to the final land use • affected infrastructure authorities (electricity, telecommunications, water, pipeline, road, rail authorities) • local Aboriginal communities, and • any other person or body determined by the Minister to be a relevant stakeholder in relation to a mining lease.
Risk	The effect of uncertainty on objectives. It is measured in terms of consequences and likelihood (AS/NZS ISO 31000:2009).
Secretary	The Secretary of the department.
Security deposit	An amount that a mining lease holder is required to provide and maintain under a mining lease condition, to secure funding for the fulfilment of obligations under the lease (including obligations that may arise in the future).
Surface disturbance	Includes activities that disturb the surface of the mining area, including mining operations, ancillary mining activities and exploration.

WORD	DEFINITION
Tailings	A combination of the fine-grained solid material remaining after the recoverable metals and minerals have been extracted from the mined ore, and any process water ² .
Waste	Has the same meaning as that term under the <i>Protection of the Environment Operations Act 1997</i> .

²Commonwealth of Australia (DITR), 2007. Tailings Management.

Attachment 3 - Plans

211004.2A(00).FWD Plan Year 1.260128.pdf

211004.2B(00).FWD Plan Year 2.260128.pdf

211004.2C(00).FWD Plan Year 3.260128.pdf