



**NSW  
Resources  
Regulator**

**ARR0001541**

# **ATTUNGA LIMESTONE MINE ANNUAL REHABILITATION REPORT**

**Tuesday 4 June 2024 to Tuesday 3 June 2025**

## Summary table

DETAIL	
<b>Mine</b>	Attunga Limestone Mine
<b>Reference</b>	ARR0001541
<b>Annual report period commencement date</b>	Tuesday 4 June 2024
<b>Annual report period end date</b>	Tuesday 3 June 2025
<b>Forward program</b>	FWP0001451
<b>Mining leases</b>	ML 1394 (1992)
<b>Lease holder(s)</b>	Graymont (NSW) Pty Ltd
<b>Contact</b>	Lizz Norvill
<b>Date of submission</b>	Thursday 31 July 2025

## Important

The department may make the information in your report and any supporting information available for inspection by members of the public, including by publication on its website or by displaying the information at any of its offices. If you consider any part of your report to be confidential, please communicate this to the department via the message function on this submission within the NSW Resources Regulator Portal.

## Mine details

### Project description

High-grade limestone is mined and processed at Graymont’s Attunga Limestone Mine to deliver products for essential services while supporting vital industrial processes and agricultural needs. Crushed limestone is processed through a kiln and hydrator to produce lime products suitable for many applications. In addition, crushed limestone is sold directly into construction and agricultural markets. Graymont intends to mine or process limestone at the Attunga site for the long term (+twenty years). As well as the resources at Attunga, there are significant resources at both Sulcor and Carey’s to extend the site life further. References to mining operations at Sulcor and Carey’s are included for context only and to understand how the two operations relate to each other.

### Life of mine

## Current development consents, leases and licences

### Development consents granted under the *Environmental Planning and Assessment Act 1979*

DA9577 (MOD121)  
DA9577 (MOD121)  
DA9577 (MOD121)  
DA9577 (MOD121)

### Authorisations covering the mining area granted under the *Mining Act 1992*

ML 1394 (1992)

### Any other approvals, licences, or authorities issued by government agencies that are relevant to the progress of mining operation and rehabilitation activities

Water access license 21083  
Water supply works approval 90CA814652  
Explosives license to store and manufacture  
Crown Lands License 377235  
EPL License 905

### Summary of the scope and/or purpose of the new applications or modifications to existing approvals (if applicable)

N/A

## Changes to land ownership and land use

There has been no changes to land ownership or land use during the annual reporting period.

# Surface disturbance and rehabilitation activities during the reporting period

## Surface disturbance and rehabilitation activities that were conducted and an analysis of the progress against the rehabilitation schedule

Additional surface disturbance was not required as the pit has been opened to the full extent as per current plan. Landform establishment and topsoiling was completed in area IA3 and IA3 East. Planting of trees occurred in IA3 with participation from Attunga Public School students as part of plant a tree day. Seeding was unable to be undertaken due to unavailability of contractors and extended wet periods. Overburden Emplacement Areas R1 – R10 continued in ecosystem and land use development phase. AMA2-433 berm was landformed and topsoiled. Tests were carried out (refer below). Active Mining Area AMA2 – 433 berm southern area has been deferred due to a berm slip which has made the area unsafe to work within until expert planning and remediation is carried out. Tree planting with Attunga Public School was relocated from R8 to IA3 for safety of students.

## Rehabilitation planning activities that were conducted, including any specialist studies

Analogue sites are established. No further work required. Consultation on native seed mix was undertaken with Biobank Seeds (Uralla) who also supplied the seeds. Ecological studies of areas R1 – R9 were not undertaken.

## Overview of subsidence repair and/or remediation works undertaken

No subsidence or remediation works undertaken.

## Overview of rehabilitation management and maintenance activities

Attunga conducts a seasonal weed control program and engages a contractor to complete the works - Invasive Species Management Services NSW, This program is conducted across the site with a focus on the rehabilitated areas to prevent weed species from outperforming the recently planted native grass and plants species established during the rehab process. The last campaign was completed 20th June 2024, 24th September 2024, 20th December 2024, 24th March 2025, targeting St Johns Wart, Tiger-pear, Green Sestrum. Erosion control is managed throughout the year by an external contractor to maintain roads and operating areas including access roads into rehabilitated areas to control water run off and direction of flow and pooling of water above the slopes of reformed areas. There have been no subsidence issues identified and no recent repairs required from erosion. Maintenance of this work is carried out usually every 3-4 months or if a risk is identified to occur after heavy rain events. The last maintenance work conducted was across the month of April 2025. Small animal pest control consists of

bait stations installed around buildings and plant structures. Feral animal control for goats and wild dogs is conducted off site by surrounding farm owners. Trapping of feral cats is conducted by a contracted maintenance staff. Fences are inspected and repairs carried out as required when damage is identified. Sediment ponds and sediment catchment areas were inspected and cleaned out

**Details of any rehabilitation actions taken as required by any letters, notices or directions issued by government agencies, including the NSW Resources Regulator**

Resources Regulator issued a MA s240 notice (1) – NTCE0017126. Section 1 (nomination of specialists) has been met by the Graymont Attunga site. Section 2 (specialist report) is underway and due 19 December 2025

**Details of any rehabilitation areas that have achieved the final land use**

No rehabilitation areas have been approved by the NSW Resources Regulator as having achieved final land use.

**Key production milestones**

MATERIAL	UNIT	FWP0001451 YEAR 1		THIS REPORT
<b>Stripped topsoil</b> <small>(if applicable)</small>	(m <sup>3</sup> )		0	0
<b>Rock/overburden</b>	(m <sup>3</sup> )		0.5	0
<b>Ore</b>	(Mt)		0.09	0.16
<b>Reject material<sup>1</sup></b>	(Mt)		0	0
<b>Product</b>	(Mt)		0.18	0.29

<sup>1</sup> This includes coarse rejects, tailings and any other wastes resulting from beneficiation.

## Disturbance and rehabilitation statistics

### Current disturbance and rehabilitation progression

ELEMENT	UNIT	THIS REPORT
A1 Total disturbance footprint – surface disturbance	(ha)	49.35
B Total active disturbance	(ha)	36.49
C Rehabilitation – land preparation	(ha)	2.64
D Ecosystem and land use establishment	(ha)	1.65
E Ecosystem and land use development	(ha)	8.57
F Rehabilitation completion	(ha)	0

### Rehabilitation key performance indicators (KPIs)

ELEMENT	UNIT	THIS REPORT
G New disturbance area	(ha)	0
H New rehabilitation commenced during annual reporting period	(ha)	1.47
I Established rehabilitation	(ha)	8.57
J Annual rehabilitation to disturbance ratio	%	
K Rehabilitated land to total mine footprint	%	17.37

## Progressive achievement of established rehabilitation

ELEMENT	UNIT	THIS REPORT
L Established rehabilitation for agricultural final land uses	%	0
M Established rehabilitation for native ecosystem final land uses	%	99.98
N Established rehabilitation for other/non-vegetated final land uses	%	0

## Variation to the rehabilitation schedule

### Identify the components of the most recent forward program that were not achieved

Seeding was unable to be undertaken in areas IA3 and IA3 East. Ecologist surveys were not undertaken.

### Key factors that delayed progressive rehabilitation

Seeding was unable to be undertaken due to unavailability of contractors and extended wet periods.

### Outline actions that will be included in the forward program and carried out to minimise disturbance and undertake progressive rehabilitation as far as reasonably practical

Proactive follow-up and management of seeding contractor work schedule. Early sourcing and engagement of ecologist to undertake monitoring surveys.

# Rehabilitation monitoring and research findings

## Rehabilitation monitoring

### The rehabilitation monitoring carried out in the annual reporting period

Rehabilitation progress against the criteria has been affected by the long period of drought conditions. Increased rainfall has seen a recovery in the performance across all areas. Vegetation growth has improved during the reporting period, particularly native grass coverage has become more predominant. Non-noxious weed infestations continue to be present. Noxious weeds are well under control. No issues identified throughout the reporting period in relation to monitoring of water, dust and noise. No specialist monitoring was undertaken in the reporting period.

## Status of performance against rehabilitation objectives and rehabilitation completion criteria

### The monitoring program that has been implemented

Planned monitoring using the Rapid Rehabilitation Survey continued during the reporting period. The following items were found: Erosion of topsoil in IA3 due to delay in seeding Tube stock (Black Cypress) was eaten by kangaroos (~50%). Whitebox tube stock established well

**Are all rehabilitation areas in Landform Establishment phase or higher represented in the monitoring program to assess performance against the rehabilitation objectives and approved or, if not yet approved rehabilitation completion criteria and final landform and rehabilitation plan?**

Yes

**Year rehabilitation areas will be included as part of the monitoring program**

**An appraisal of whether rehabilitation is moving towards achieving the proposed rehabilitation objectives, approved or, if not yet approved, rehabilitation completion criteria and final landform and rehabilitation plan as soon as reasonably practicable.**

Substantial works were completed in accordance with the 2024 Forward Program and Life of Mine Rehabilitation Schedule (Attunga Rehabilitation Management Plan), and rehabilitation is therefore considered to be moving towards achieving the rehabilitation objectives. [Select the best description of the appraisal from below] Rehabilitation is moving towards achieving the final land use as soon as reasonably practicable There are performance

issues preventing rehabilitation moving towards achieving the final land use as soon as reasonably practicable

**Appraisal description**

Rehabilitation is moving towards achieving the final land use as soon as reasonably practicable.

**Rehabilitation monitoring program findings**

Monitoring inspection in the form of the rapid rehab assessments carried out in the following areas during the last annual reporting period: - Drainage structure: 16/10/23, 17/01/24, 29/5/24 R8: 16/10/23,17/01/24, 29/5/24 R9: 16/10/23,17/01/24, 29/5/24 R10: 16/10/23, Daily site inspections completed by Quarry Supervisor.

**Performance issues and their causes including identification of any knowledge gaps that must be addressed**

Loss of newly planted tube stock due to grazing by kangaroos

## Outcomes of rehabilitation research and trials

RRT NUMBER	PROJECT/TRIAL NAME	OBJECTIVE OF TRIAL/PROJECT	METHODOLOGY	EXPECTED DATE OF COMPLETION	STATUS	ON TRACK?
RRT0001010	Upper eastern bench trail	Establish vegetation on the upper eastern bench to reduce visual impacts	Upper eastern bench will be deep ripped where possible and covered with a base of 0.5 m of well graded broken rock. The bench will be top soiled and seeded with a grass mixture as specified in the rehabilitation management plan. Native shrubs will be planted after the grasses are established	31 Jul 2024	Cancelled	Yes
RRT0001011	Vegetation establishment – R8	Test revegetation methods on former mining disturbed land	Rehabilitation area R8, previously an overburden emplacement area, has been subject to rehabilitation in recent years however there is not much progress towards a native ecosystem final land use. Specifically, there is very little native vegetation establishment and the area is dominated by the exotic Johnson grass. A trial will involve herbicide use to remove the Johnson grass and resow native grasses and trees	31 Jul 2027	Ongoing	Yes
RRT0001012	Vegetation establishment – R9	Achieve vegetation establishment	Rehabilitation area R9 was rehabilitated through the growth medium development phase in 2020 and then hydromulched with a mixed pasture and native seed mix. Despite showing initial promise with good germination	31 Jul 2027	Ongoing	Yes

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RRT NUMBER	PROJECT/TRIAL NAME	OBJECTIVE OF TRIAL/PROJECT	METHODOLOGY	EXPECTED DATE OF COMPLETION	STATUS	ON TRACK?
			of grasses, vegetation cover subsequently declined during the summer of 2020/21. Repairs are required in this area and will include trialling alternative processes for surface preparation and sowing of the desired seed mix.			
RRT0001013	Topsoil preparation trial	Address topsoil deficit	A future trial is proposed to prepare topsoil like materials using site resources, and address the known deficit in topsoil volumes relative to rehabilitation requirements. The approach is to use fine overburden materials and blend these with organic mulch or compost. The trial will seek input and advice from a qualified professional, e.g. an agronomist or mine rehabilitation specialist.	31 Jul 2027	Ongoing	Yes
RRT0001098	RRT0001013 Topsoil preparation trial	Investigate options of external supplied mulch or blended material for topsoil preparation	Conduct soil testing to ensure adequate soil preparation for vegetation establishment	31 Jul 2025	Ongoing	Yes
RRT0001099	RRT0001012 Vegetation establishment – R9	To not have a failure in vegetation establishment	Obtain advice from experts on causes of past failure. Alternate surface preparation recommended	31 Jul 2025	Ongoing	Yes
RRT0001100	RRT0001010 Upper eastern bench trial	Safe access to eastern bench	Safe access will allow for rejuvenation of the area	31 Jul 2026	Not started	No
RRT0001101	R8	To determine if natural overburden soil supports growth of vegetation	To form up final land use of this area with untreated overburden soils or seeding to determine if natural plant growth can be	31 Jul 2024	Ongoing	Yes

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RRT NUMBER	PROJECT/TRIAL NAME	OBJECTIVE OF TRIAL/PROJECT	METHODOLOGY	EXPECTED DATE OF COMPLETION	STATUS	ON TRACK?
			supported in this soil without added organics/seedbanks.			

**Outcomes of completed trials and research**

N/A

# Attachment 1 – Reporting Definitions

REPORTING CATEGORY		DEFINITION
<b>A1</b>	Total disturbance footprint – surface disturbance	<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>
<b>A2</b>	Underground Mining Area	Underground mining operations areas/subsidence management areas.
<b>B</b>	Total active disturbance	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).
<b>C</b>	Rehabilitation – land preparation	<p>Includes the sum of all disturbed land within a mining lease that have commenced 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>

REPORTING CATEGORY	DEFINITION
<p><b>D</b> 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><b>E</b> Ecosystem and Land Use Development</p>	<p>Rehabilitation has matured to a level where target revegetation outcomes are on a trajectory towards meeting the final rehabilitation objectives and rehabilitation completion criteria (as verified by monitoring).</p> <p>This phase includes infrastructure areas that are to be retained for an approved post mining land use, following completion of all necessary measures to render the infrastructure fit for this purpose (for example structural integrity).</p>
<p><b>F</b> Rehabilitation Completion</p>	<p>The NSW Resources Regulator has determined in writing that the mining area has achieved the approved rehabilitation objectives and approved rehabilitation completion criteria and final landform and rehabilitation plan following the submission of <i>Form: ESF2 Rehabilitation completion and/or review of rehabilitation cost estimate and/or notification of mine or petroleum site closure</i>.</p>
<p><b>G</b> New active disturbance area</p>	<p>The area of any new active disturbance that has been created during the annual reporting period (definition A1 in Table 5).</p>
<p><b>H</b> New rehabilitation commenced during annual reporting period</p>	<p>The sum of any new rehabilitation commenced in the annual reporting period. These areas may be in the rehabilitation land preparation phase or the ecosystem &amp; land use establishment phase (definitions C and D in Table 5).</p>
<p><b>I</b> Established rehabilitation (hectares)</p>	<p>The total area of land that is verified to be within either the ecosystem and land use development phase or the rehabilitation completion phase (definitions E &amp; F in Table 5).</p>

REPORTING CATEGORY		DEFINITION
<b>J</b>	Annual rehabilitation to disturbance ratio	The rehabilitation to disturbance ratio (H/G) indicates how many hectares of new rehabilitation are undertaken for each hectare of land disturbed during the year. A ratio of 1/1 indicates that the area of new rehabilitation and disturbance in that year are the same.
<b>K</b>	% Rehabilitated land to total mine footprint	The proportion of the total mine footprint (area of land that has been disturbed by past or present surface disturbance activities) that has established rehabilitation ( $I/A1 \times 100$ ). For open cut mining, the proportion of the total mine footprint verified to be “established rehabilitation” should substantially increase as an operation progresses towards mine closure.
<b>L</b>	Established rehabilitation for agricultural final land uses (hectares)	The percentage of total area of land that is verified to be within either the ecosystem and land use development phase or the rehabilitation completion phase (definitions E & F in Table 5) that have been returned to an agricultural final land use.
<b>M</b>	Established rehabilitation for native ecosystem final land uses (hectares)	The percentage of total area of land that is verified to be within either the ecosystem and land use development phase or rehabilitation completion phase (definitions E & F in Table 5) that have been returned to native ecosystem final land use.
<b>N</b>	Established rehabilitation for other/non-vegetated final land uses (hectares)	The percentage of total area of land that is verified to be within either the ecosystem and land use development phase or the rehabilitation completion phase (definitions E & F in Table 5) that have been returned to other/non-vegetated final land use.

## Attachment 2 – Definitions

WORD	DEFINITION
<b>Active</b>	In the context of rehabilitation, land associated with mining domains is considered ‘active’ for the period following disturbance until the commencement of rehabilitation.
<b>Active mining phase of rehabilitation</b>	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.
<b>Analogue site</b>	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.
<b>Annual rehabilitation report and forward program</b>	As described in the Mining Regulation 2016.
<b>Annual reporting period</b>	As defined in the Mining Regulation 2016.
<b>Closure</b>	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).
<b>Decommissioning</b>	The process of removing mining infrastructure and removing contaminants and hazardous materials.
<b>Decommissioning Phase of Rehabilitation</b>	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.

<b>WORD</b>	<b>DEFINITION</b>
<b>Department</b>	The Department of Regional NSW.
<b>Disturbance</b>	See Surface Disturbance.
<b>Disturbance area</b>	<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>
<b>Domain</b>	<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>
<b>Ecosystem and Land Use Development</b>	<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>
<b>Ecosystem and Land Use Establishment</b>	<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>
<b>Exploration</b>	Has the same meaning as that term under the State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

WORD	DEFINITION
<b>Final landform and rehabilitation plan</b>	As defined in the Mining Regulation 2016.
<b>Final land use</b>	As defined in the Mining Regulation 2016.
<b>Form and way</b>	Means the form and way approved by the Secretary. Approved form and way documents are available on the Department’s website.
<b>Growth Medium Development</b>	<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>
<b>Habitat</b>	Has the same meaning as that term under the <i>Biodiversity Conservation Act 2016</i> and the <i>Fisheries Management Act 1994</i> (as relevant).
<b>Indicator</b>	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 criterion (i.e. defined end point). It may be aligned to an established protocol and used to evaluate changes in a system.
<b>Land</b>	As defined in the <i>Mining Act 1992</i> .
<b>Landform Establishment</b>	<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>
<b>Large mine</b>	As defined in the Mining Regulation 2016.
<b>Lease holder</b>	The holder of a mining lease.

WORD	DEFINITION
<b>Life of mine</b>	The timeframe of how long a mine is approved to mine, from commencement to closure.
<b>Mine rehabilitation portal</b>	<p>Means the NSW Resources Regulator’s online portal that lease holders must use (via a registered account) to:</p> <ul style="list-style-type: none"> <li>■ upload rehabilitation geographical information system (GIS) spatial data</li> <li>■ develop rehabilitation GIS spatial data (using online tracing functions)</li> <li>■ generate rehabilitation plans and rehabilitation statistics using the map viewer and Rehabilitation Key Performance Indicator functionalities.</li> </ul> <p>Data submitted to the mine rehabilitation portal is collated in a centralised geodatabase for use by the NSW Resources Regulator to regulate rehabilitation performance of lease holders.</p>
<b>Mining area</b>	As defined in the <i>Mining Act 1992</i> .
<b>Mining domain</b>	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).
<b>Mining land</b>	As defined in the <i>Mining Act 1992</i> .
<b>Native vegetation</b>	Has the same meaning as that term under section 60B of the <i>Local Land Services Act 2013</i> .
<b>Overburden</b>	Material overlying coal or a mineral deposit.
<b>Performance indicator</b>	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 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.

WORD	DEFINITION
<b>Phases of rehabilitation</b>	<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"> <li>■ active mining</li> <li>■ decommissioning</li> <li>■ landform Establishment</li> <li>■ growth medium development</li> <li>■ ecosystem and land use establishment</li> <li>■ ecosystem and land use development.</li> </ul>
<b>Progressive rehabilitation</b>	<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>
<b>Rehabilitation Completion</b>	<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 NSW Resources Regulator has determined in writing that the relevant rehabilitation obligations have been fulfilled following submission of <i>Form ESF2 Rehabilitation completion and/or review of rehabilitation cost estimate</i> application by the lease holder.</p>
<b>Rehabilitation Completion criteria</b>	<p>As defined in the Mining Regulation 2016.</p>
<b>Rehabilitation cost estimate</b>	<p>As defined in the Mining Regulation 2016.</p>
<b>Rehabilitation management plan</b>	<p>As defined in the Mining Regulation 2016.</p>
<b>Rehabilitation objectives</b>	<p>As defined in the Mining Regulation 2016.</p>
<b>Rehabilitation risk assessment</b>	<p>As defined in the Mining Regulation 2016.</p>
<b>Rehabilitation schedule</b>	<p>The defined timeframes for progressive rehabilitation set out in the forward program.</p>

WORD	DEFINITION
<b>Relevant stakeholders</b>	<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"> <li>■ the relevant development consent authority</li> <li>■ the local council</li> <li>■ the relevant landholder(s)</li> <li>■ community consultative committee (if required under the development consent) or equivalent consultative group</li> <li>■ affected land holder(s)</li> <li>■ government agencies relevant to the final land use</li> <li>■ affected infrastructure authorities (electricity, telecommunications, water, pipeline, road, rail authorities)</li> <li>■ local Aboriginal communities, and</li> <li>■ any other person or body determined by the Minister to be a relevant stakeholder in relation to a mining lease.</li> </ul>
<b>Risk</b>	The effect of uncertainty on objectives. It is measured in terms of consequences and likelihood (AS/NZS ISO 31000:2009).
<b>Secretary</b>	The Secretary of the Department.
<b>Security deposit</b>	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).
<b>Surface disturbance</b>	Includes activities that disturb the surface of the mining area, including mining operations, ancillary mining activities and exploration.
<b>Tailings</b>	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 <sup>2</sup> .
<b>Waste</b>	Has the same meaning as that term under the <i>Protection of the Environment Operations Act 1997</i> .

<sup>2</sup> Commonwealth of Australia (DITR), 2007. *Tailings Management*.

## Attachment 3 – Rehabilitation Complaints

DATE	COMPLAINANT	COMPLAINT DETAILS	RESPONSE DETAILS	STATUS OF RESPONSE	DATE RESPONSE COMPLETED (IF APPLICABLE)
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## Attachment 4 – Stakeholder consultation

DATE	STAKEHOLDER	CONSULTATION ACTIVITIES AND FORMS	MATTERS SUBJECT TO CONSULTATION	ACTIONS TAKEN
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## Attachment 5 – Plans

Plan1A.pdf

Plan1B.pdf

Annual Report (LARGE MINE) v1.11



**Legend**

- Rehabilitation**
- Decommissioning
  - Landform Establishment
  - Growth Media Development
  - Ecosystem and Land Use Establishment
  - Ecosystem and Land Use Development
  - Relinquishment (Rehabilitated)
  - Rehabilitation Completion

- Disturbance**
- Beneficiation Facility
  - Infrastructure Area
  - Other
  - Overburden Emplacement Area
  - Tailings Storage Facility
  - Underground Mining Area (SMP)
  - Active Mining Area (Open cut void)
  - Water Management Area

- Project Approval Boundary
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations

543.2                      0                      271.58                      543.2 Meters

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**Notes**



Legend

- Current Landform Contours
- Project Approval Boundary
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations

Notes

543.2 0 271.58 543.2 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
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