

FWP0001711

ESCOTT ZEOLITE MINE FORWARD PROGRAM

Saturday 2 August 2025 to Tuesday 1 August 2028





Summary

DETAIL	
Mine	Escott Zeolite Mine
Reference	FWP0001711
Forward program commencement date	Saturday 2 August 2025
Forward program end date	Tuesday 1 August 2028
Forward program revision (if applicable)	
Contact	Joel Cook
Mining leases	ML 1356 (1992)
Project location	Zeolite Australia Pty Limited
Date of submission	Wednesday 24 September 2025

Important

The department may make the information in your program 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 program to be confidential, please communicate this to the department via the message function on this submission within the NSW Resources Regulator Portal.



Three-year forecast – surface disturbance activities

Project description

Escott Zeolite Mine (Zeolite) is an open cut zeolite mine owned and operated by Zeolite Australia Pty Limited (ZAPL). Zeolite comprises Mining Lease (ML) 1356 and is located approximately 1.5km South of Werris Creek and 11km North-Northwest of Quirindi in New South Wales, within an area defined as the Gunnedah Coalfield. Zeolite currently operates under the conditions and commitments of ML 1356 and Environmental Protection Licence (EPL) 6378. Zeolite is approved to produce up to 30,000 tonnes (T) of Zeolite annually.

Description of surface disturbance activities

Exploration activities

Exploration during the forward program within ML 1356 is currently being planned for the Forward Program. Exploration activities would generally include: • Drone imagery. • Geological mapping. • Reverse Circulation (RC) drilling.

Construction activities

Construction activities currently planned to be undertaken during the forward program include construction of the High Bay Shed.

Mining schedule

Mining development method and sequencing and general mine features.

Key mining activities to be undertaken during the Forward Program will include:

Continued open cut mining in the Main Pit North with Zeolite to be extracted at a rate of 15,000 tonnes (YR 1), 17,500 tonnes (YR 2), and 20,000 (YR 3) tonnes.

Commencement of prestrip areas and mining to the south and west of the Main Pit North and associated with the overburden dump to the east.

Progressive rehabilitation activities across the Forward Program are not available. Opportunities to advance rehabilitation will be investigated as part of future Forward Programs.

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

Emplacement of overburden at the eastern emplacement will continue across the Forward Program. It is noted that Opportunities for backfilling and in pit dumping is limited across the

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next three years. Opportunities to advance emplacement rehabilitation will be investigated as part of future Forward Programs. Sequencing has been planned to assist in minimising amenity impacts. ZAPL is reviewing opportunities to process overburden within the existing pit or on the overburden stockpile/dump for sale as a separate product (gravel/road base/soil conditioner).

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

The Escott Zeolite Processing Plant (DA 29/93) is a zeolite mineral processing plant that is now subject of AMA 1012 and forms part of the RMP and associated Rehabilitation documents. There is no tailings or emplacement facilities.

Waste disposal and materials handling operations.

Waste generated at ZAPL is removed from site by a licensed waste contractor. There is no rejects or tailings produced at Escott Mine.

Key production milestones

MATERIAL	UNIT	YEAR 1	YEAR 2	YEAR 3
Stripped topsoil (if applicable)	(m³)	1,073.88	352.68	510.59
Rock/overburden	(m³)	15,000	10,000	5,000
Ore	(Mt)	0.02	0.02	0.02
Reject material ¹	(Mt)	0	0	0
Product	(Mt)	0.02	0.02	0.02

Δ

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



Three-year rehabilitation forecast

Rehabilitation planning schedule

Rehabilitation planning schedule

ZAPL is continuing to undertake mine optimisation planning activities, which may include infrastructure upgrades and conducting mining operation in additional areas.

Notwithstanding, these activities would be subject to modifications and/or approvals to mining areas or rehabilitation obligations and have not been discussed in detail within this Annual Rehabilitation Report (ARP). Key planning works undertaken during the reporting period include:

• reviewing opportunities to processing overburden within the existing pit or on the overburden stockpile/dump for sale as a separate product (gravel/road base/soil conditioner).

• Updating ROBJs, the Rehabilitation Management Plan and associated inputs, annual reporting and the RCE to account for AMA 1012. This will continue into the next reporting period. There is no rehabilitation currently planned across the Forward Program.

Stakeholder consultation

Consultation will be undertaken with Council, Agencies and other stakeholders with regard to the mine optimisation planning activities, which may include infrastructure upgrades and conducting mining operations in additional areas.

Rehabilitation studies, risk assessments and/or design work

The ZAPL Risk Assessment will be reviewed as part of the Rehabilitation document updates to include AMA 1012.



Rehabilitation research and trials

RRT	PROJECT/TRIAL NAME	OBJECTIVE OF TRIAL/PROJECT	METHODOLOGY	EXPECTED DATE	STATUS
NUMBE	ER			OF COMPLETION	

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Rehabilitation maintenance and corrective actions

Rehabilitation maintenance and corrective action requirements will be reviewed as part of annual processes and subsequent Forward Programs.

Rehabilitation schedule

Progressive rehabilitation activities across the Forward Program are not available. Opportunities to advance rehabilitation will be investigated as part of future Forward Programs. Rehabilitation maintenance activities on rehabilitation areas within ML 1356, completed prior to 2018 was not required. Opportunities to advance emplacement rehabilitation is being considered with as part of due diligence reviews for processing overburden within the existing pit or on the overburden stockpile/dump for sale as a separate product (gravel/road base/soil conditioner).

Completion of rehabilitation

No areas are expected to be completed for rehabilitation across the Forward Program.

Subsidence remediation for underground operations

Subsidence Remediation is not applicable. Zeolite is an open cut mine.

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)	5.64	5.99	6.5
В	Total active disturbance	(ha)	3.94	4.3	4.81
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)	1.07	0.35	0.51
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
Α	Total disturbance footprint – surface disturbance	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.
		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).
		Underground mining operations should not include the footprint of underground mining areas/subsidence management areas in the total disturbance footprint.
В	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).
С	Rehabilitation – land preparation	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. Refer to the glossary of terms in this document for the definition of these
		phases of rehabilitation.
D	Ecosystem and land use establishment	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.
		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.



REPORTING CATEGORY	DEFINITION
0	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	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).
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.
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.



WORD	DEFINITION
Department	The Department of Regional NSW.
Disturbance	See Surface Disturbance.
Disturbance area	An area that has been disturbed and that requires rehabilitation. 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).
Domain	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.
Ecosystem and Land Use Development	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. 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. This phase of rehabilitation may include specific vegetation management strategies and maintenance such as tree thinning, supplementary plantings and weed management.
Ecosystem and Land Use Establishment	This phase of rehabilitation consists of the processes to establish the approved final land use following construction of the final landform. 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.
Exploration	Has the same meaning as that term under the State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.



WORD	DEFINITION
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	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.
	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.
Habitat	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).
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 criterion (i.e. defined end point). It may be aligned to an established protocol and used to evaluate changes in a system.
Land	As defined in the <i>Mining Act 1992</i> .
Landform Establishment	This phase of rehabilitation consists of the processes and activities required to construct the final landform. 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).
Large mine	As defined in the Mining Regulation 2016.
Lease holder	The holder of a mining lease.



WORD	DEFINITION	
Life of mine	The timeframe of how long a mine is approved to mine, from commencement to closure.	
Mine rehabilitation portal	Means the NSW Resources Regulator's online portal that lease holders must use (via a registered account) to: 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. 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.	
Mining area	As defined in the <i>Mining Act 1992</i> .	
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 <i>Mining Act 1992</i> .	
Native vegetation	Has the same meaning as that term under section 60B of the <i>Local Land Services Act</i> 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 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
Phases of rehabilitation	The stages and sequences of actions required to rehabilitate disturbed land to achieve the final land use. The phases of rehabilitation are: active mining decommissioning landform Establishment growth medium development ecosystem and land use establishment ecosystem and land use development.
Progressive rehabilitation	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.
Rehabilitation Completion	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 Form ESF2 Rehabilitation completion and/or review of rehabilitation cost estimate application 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.



WORD	DEFINITION			
Relevant stakeholders	Means any persons or bodies who may be affected by the mining operations, including rehabilitation, carried out on the lease land, and includes: the relevant development consent authority the local council the relevant landholder(s) community consultative committee (if required under the development consent) or equivalent consultative group 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.			
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> .			

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

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Attachment 3 – Plans

63030206_Plan2A_Year1_2026_01.pdf 63030206_Plan2B_Year2_2027_01.pdf 63030206_Plan2C_Year3_2028_01.pdf

Forward Program (LARGE MINE) v2.5



Open Cut Summary Rehabilitation Cost Estimation

Note: Sections of this pag	e are automatically filled in from the registration page				
Mine Name:	Escott Zeolite Mine				
Lease(s):	ML 1356 and AMA 1012				
Authorisation Owner:	Zeolite Australia Pty Ltd				
Term of RCE:	1 Year				
Tomi of Roz.					
Current Security:	\$213,000 Date of Last Security Deposit Review: 12-11-202				
Mine Contact:	Gerard Stephen				
	Domain		Security	Deposit	
Domain 1: Infrastructure				\$368,189	
Domain 2: Tailings & Rejects				,	
Domain 3: Overburden & Waste				\$21,051	
Domain 4: Active Mine & Voids			\$34,850		
Domain 5: Managemer	IT ACTIVITIES			\$79,870	
Subtotal (Domains and Sundry Items)				\$503,959	
Contingency 10%			\$50,396		
Post Closure Environmental Monitoring 10%			\$50,396		
Project Management a	nd Surveying	10%		\$50,396	
Total Security De	posit for the Mining Project (excl. of GST)		\$655,147	
Note: GST is not include	d in the above calculation or as part of rehabilitation se	curity depos	its required by the De	partment.	
Alterations have bee	n made to unit prices within this spreadsheet. (Attach a sep	parate sheet p	providing details of chan	ges).	
✓ The proposed rehab	ilitation design is generally consistent with the development	consent for t	he project.		
	tion has been estimated using the best available information flection of the total rehabilitation liability held by this mine.	at the time.			
Gerard Stephen Company Respresentative's Name			22 September 2025 Date		
Director Company Represer	ntative's Role / Responsibility		Gerar Signa	d C Stepl	