

FWP0001740

RUNNING STREAM QUARRY FORWARD PROGRAM

Thursday 16 October 2025 to Sunday 15 October 2028



Summary

Detail	
Mine	Running Stream Quarry
Reference	FWP0001740
Forward program commencement date	Thursday 16 October 2025
Forward program end date	Sunday 15 October 2028
Forward program revision (if applicable)	
Contact	Sinead Kelly
Mining leases	ML 1777 (1992)
Project location	Csr Building Products Limited
Date of submission	Wednesday 19 November 2025
Document URL	https://www.pghbricks.com.au/resources/other-resources/nsw-environmental-reporting
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Important

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Three-year forecast - surface disturbance activities

Project description

The Running Stream Clay/Shale Mine is located on Lot 2 DP 869395, 5814 Castlereagh Highway, Running Stream NSW 2850. The site has been operating since 1976 under a previous Mining Lease which expired in 2007. The land has been owned by CSR Building Products since 2009. Mining Lease ML1777 (1992) was granted 16th October 2018 with an expiry date of 16th October 2039. When operational, the Running Stream Clay/Shale Mine supplied CSR's brickworks in Raglan, NSW. In 2006, CSR Building Products closed the Raglan Brick Plant and the Running Stream site went into care and maintenance. The reasons for this closure of the plant were due to a very slow building market and in turn poor sales of brick products. In 2023, the site was granted suspension of mining operations until 2026. The current operators, PGH Bricks & Pavers Pty Ltd envisage the recommencement of extraction of clay/shale however this is not forecasted for the next three years.

Description of surface disturbance activities

Exploration activities

No exploration activities are proposed for the next three years.

Construction activities

No construction is expected to occur during the next three years.

Mining schedule

Mining development method and sequencing and general mine features.

No mining is expected to occur on the site within the next three years.

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

Overburden emplacement areas include the previously rehabilitated areas to the west of the previously active pit and the Old Quarry to the north. These areas have been well

vegetated for some decades and only maintenance activities will be undertaken if necessary.

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

No processing of residues or tailings will occur on the site.

Waste disposal and materials handling operations.

The main source of potential contamination, aside from sediment from the quarry, is hydrocarbons from fuels and oils used by vehicles/plant on the site. The risk of hydrocarbons entering the water system will be minimised by ensuring all contractors follow CSR's Spill and Leaks Procedure and carry suitable spill kits. Within the quarry area and water management features, regular inspections will also assist in identifying potential risks to the environment.

Key production milestones

MATERIAL	UNIT	YEAR1	YEAR2	YEAR3
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 maintenance and corrective actions

No issues were identified in the previous period.

Rehabilitation schedule

Temporary rehabilitation to reduce sediment entrainment on the site will continue until mining is recommenced. The main areas of concern regarding erosion and sediment entrainment are the exposed highwall areas within the pit which are comprised of a clay material easily eroded and dispersed. Maintenance of newly grassed areas will be performed if required, including re-grassing areas of erosion repair. Site fencing/signage and general site security will be maintained or repaired where required, and weeds will be monitored and eradicated as required (particularly on new rehabilitation areas). Drainage repairs on lined drains leading to the Main Sedimentation Dam are expected to occur on site within the next 12 months. It is envisioned that the main pit will function as a "clean water catchment" throughout the suspension period. When mining recommences, the water management will be reviewed, and appropriate changes will be made to manage the dirty water generated from the design storm event.

Completion of rehabilitation

No areas are expected to be lodged for rehabilitation completion within the next three years.

Progressive mining and rehabilitation statistics

Three-yearly forecast cumulative disturbance and rehabilitation progression

Forecast		UNIT	YEAR1	YEAR2	YEAR3
A1	Total disturbance footprint - surface disturbance	(ha)	3.82	3.82	3.82
B	Total active disturbance	(ha)	2.54	2.54	2.54
P	Total new area of land proposed for active rehabilitation	(ha)	0	0	0

Attachment 1 - Reporting Definitions

REPORTING CATEGORY		DEFINITION
A	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.
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).
C	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

REPORTING CATEGORY		DEFINITION
		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.

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

WORD	DEFINITION
	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	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.

WORD	DEFINITION
	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.
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 Biodiversity Conservation Act 2016 and the Fisheries Management Act 1994 (as

WORD	DEFINITION
	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 Mining Act 1992.
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.
Life of mine	The timeframe of how long a mine is approved to mine, from commencement to closure.
Mine rehabilitation portal	Means the 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

WORD	DEFINITION
	Indicator functionalities.
	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.
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 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.
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 ▪ landform Establishment ▪ ecosystem and land use establishment

WORD	DEFINITION
	▪ 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 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 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	Means any persons or bodies who may be affected by the mining operations, including rehabilitation, carried out on the lease land, and includes:

WORD	DEFINITION
	- 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> .

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

Site Registration

Date

November 2025

Complete the following fields prior to calculating the Security Deposit.

Mine Name:	Running Stream		
Lease(s):	ML1777		
Title Holder:	CSR Building Products Limited		
Term of RCE:	PGH Bricks & Pavers Pty Ltd		
Current Security:	\$90,000	Date of last Security Deposit review	9/12/2024
Mine Contact:	Joe Gauci, 59-67 Cecil Road, Cecil Park, 0417 683 526		
List key changes since previous submission:	e.g. significant landform rehabilitation undertaken in domain xyz e.g. change in mine waste (tailings) capping rate		



Open Cut Summary Rehabilitation Cost Estimation

Note: Sections of this page are automatically filled in from the registration page

Mine Name:	Running Stream		
Lease(s):	ML1777		
Authorisation Owner:	CSR Building Products Limited		
Term of RCE:	PGH Bricks & Pavers Pty Ltd		
Current Security:	\$90,000	Date of Last Security Deposit Review:	9/12/2024
Mine Contact:	Joe Gauci, 59-67 Cecil Road, Cecil Park, 0417 683 526		

Domain		Security Deposit
Domain 1: Infrastructure		\$16,520
Domain 2: Tailings & Rejects		
Domain 3: Overburden & Waste		\$1,184
Domain 4: Active Mine & Voids		\$14,145
Domain 5: Management Activities		\$37,593
Subtotal (Domains and Sundry Items)		\$69,442
Contingency	10%	\$6,944
Post Closure Environmental Monitoring	10%	\$6,944
Project Management and Surveying	10%	\$6,944
Total Security Deposit for the Mining Project (excl. of GST)		\$90,274

Note: GST is not included in the above calculation or as part of rehabilitation security deposits required by the Department.

- ☐ Alterations have been made to unit prices within this spreadsheet. (Attach a separate sheet providing details of changes).
- ☒ The proposed rehabilitation design is generally consistent with the development consent for the project.

This mine security calculation has been estimated using the best available information at the time.
It is a true and accurate reflection of the total rehabilitation liability held by this mine.

Joe Gauci

Company Representative's Name

19/11/25

Date

National Raw Materials Manager

Company Representative's Role / Responsibility



Signature

Open Cut Operations

Domain 1a: Infrastructure

Total Cost for Infrastructure Domain

\$16,520

Additional Assumptions: Record any relevant assumptions to this domain below:

	Key Rehabilitation Area Data for Domain	Enter data below manually
	Total Landform Establishment:	
	Total Growth Media Development:	
	Total Ecosystem Establishment:	

Management Precinct	Activity / Description	Applicable (Y or N)	Quantity	Unit	Default Unit Rate	Alternative Unit Rate	Total Cost	Basis for Costs Estimation and Additional Relevant Information	Description / Notes:
Termination of Services and Demolition Works Subtotal							\$0		
Rail Infrastructure Subtotal							\$0		
Contaminated Materials Subtotal							\$0		
Vents, Shafts and Boreholes Subtotal							\$0		
Roads and Tracks Subtotal							\$0		
Earthworks / Structural Works (Landform Establishment)	Minor reshaping and pushing	Y	1.3	ha	\$3,900		\$5,070		D10 Dozer @ \$400 per hour and 16 H grader @ \$230 per hour (50% utilisation).
Earthworks / Structural Works (Landform Establishment) Subtotal							\$5,070		
Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment)	Source, cart and spread growth media - haul distance <1 km	Y	2600	m3	\$3.26		\$8,466	< =1km	Undertaken with 623 scraper and 14 M grader.
	Direct seeding / fertiliser (pasture grass species)	Y	1.3	ha	\$1,875		\$2,438		Includes treating, weighing, mixing with fertiliser + spreading by tractor or helicopter (aerial seeding).
	Single application of fertiliser (pasture)	Y	1.3	ha	\$420.00		\$546		Assumes 250 kg / ha. These rates have fluctuated over the last few years however in light of current conditions (lower fuel prices, reduced demand etc) this is a suitable standard rate.
Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment) Subtotal							\$11,450		
Water Management Subtotal							\$0		
Maintenance of Rehabilitated Areas Subtotal							\$0		
Additional Items Subtotal							\$0		
Total Cost for Infrastructure Domain							\$16,520		

Open Cut Operations

Domain 2a: Tailings & Rejects

Total Cost for Tailings & Rejects Domain

\$0

Additional Assumptions: Record any relevant assumptions to this domain below:

	Key Rehabilitation Area Data for Domain	Enter data below manually
	Total Landform Establishment:	
	Total Growth Media Development:	
	Total Ecosystem Establishment:	

Management Precinct	Activity / Description	Applicable (Y or N)	Quantity	Unit	Default Unit Rate	Alternative Unit Rate	Total Cost	Basis for Costs Estimation and Additional Relevant Information	Description / Notes:
	Contaminated Materials Subtotal						\$0		
	Earthworks / Structural Works (Landform Establishment) Subtotal						\$0		
	Earthworks / Structural Works (Landform Establishment) Subtotal						\$0		
	Mine Waste Subtotal						\$0		
	Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment) Subtotal						\$0		
	Water Management Subtotal						\$0		
	Maintenance of Rehabilitated Areas Subtotal						\$0		
	Additional Items Subtotal						\$0		
Total Cost for Tailings & Rejects Domain							\$0		

Open Cut Operations

Domain 3a: Overburden & Waste

Total Cost for Overburden & Waste Domain

\$1,184

Additional Assumptions: Record any relevant assumptions to this domain below:

	Key Rehabilitation Area Data for Domain	Enter data below manually
	Total Landform Establishment:	
	Total Growth Media Development:	
	Total Ecosystem Establishment:	

Management Precinct	Activity / Description	Applicable (Y or N)	Quantity	Unit	Default Unit Rate	Alternative Unit Rate	Total Cost	Basis for Costs Estimation and Additional Relevant Information	Description / Notes:
Contaminated Materials Subtotal							\$0		
Roads and Tracks Subtotal							\$0		
Earthworks / Structural Works (Landform Establishment) Subtotal							\$0		
Mine Waste Subtotal							\$0		
Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment) Subtotal							\$0		
Water Management Subtotal							\$0		
Maintenance of Rehabilitated Areas	Maintenance of areas that have been shaped and seeded and revegetation has been 'successful'	Y	1.28	ha	\$925		\$1,184		Rehabilitation maintenance might include re-seeding, watering, fertilising, minor re-shaping, erosion control, inspections/audits - does not include major repair works.
Maintenance of Rehabilitated Areas Subtotal							\$1,184		
Additional Items Subtotal							\$0		
Total Cost for Overburden & Waste Domain							\$1,184		

Open Cut Operations

Domain 4a: Active Mine & Voids

Total Cost for Active Mine & Voids Domain

\$14,145

Additional Assumptions: Record any relevant assumptions to this domain below:

	Key Rehabilitation Area Data for Domain	Enter data below manually
	Total Landform Establishment:	
	Total Growth Media Development:	
	Total Ecosystem Establishment:	

Management Precinct	Activity / Description	Applicable (Y or N)	Quantity	Unit	Default Unit Rate	Alternative Unit Rate	Total Cost	Basis for Costs Estimation and Additional Relevant Information	Description / Notes:
Open Cut Subtotal							\$0		
Earthworks / Structural Works (Landform Establishment)	Minor reshaping and pushing	Y	1.04	ha	\$3,900		\$4,056		D10 Dozer @ \$400 per hour and 16 H grader @ \$230 per hour (50% utilisation).
Earthworks / Structural Works (Landform Establishment) Subtotal							\$4,056		
Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment)	Source, cart and spread growth media - haul distance <1 km	Y	1000	m3	\$3.26		\$3,256	< =1km	Undertaken with 623 scraper and 14 M grader.
	Direct seeding / fertiliser (pasture grass species)	Y	1.04	ha	\$1,875		\$1,950		Includes treating, weighing, mixing with fertiliser + spreading by tractor or helicopter (aerial seeding).
	Direct seeding / fertiliser (tree or native grass species)	Y	1.04	ha	\$4,135		\$4,300		Includes treating, weighing, mixing with fertiliser + spreading by tractor or helicopter (aerial seeding).
	Single application of fertiliser (pasture)	Y	1.04	ha	\$420.00		\$437		Assumes 250 kg / ha. These rates have fluctuated over the last few years however in light of current conditions (lower fuel prices, reduced demand etc) this is a suitable standard rate.
	Single application of fertiliser (trees)	Y	1.04	ha	\$140.00		\$146		These rates have fluctuated over the last few years however in light of current conditions (lower fuel prices, reduced demand etc) this is a suitable standard rate.
Land Preparation and Revegetation (Growth Media Development and Ecosystem Establishment) Subtotal							\$10,089		
Water Management Subtotal							\$0		
Maintenance of Rehabilitated Areas Subtotal							\$0		
Additional Items Subtotal							\$0		
Total Cost for Active Mine & Voids Domain							\$14,145		

Open Cut Operations

Domain 5a: Management Activities

Total Cost for Management Activities

\$37,593

Additional Assumptions: Record any relevant assumptions to this domain below:

Key Rehabilitation Area Data for Domain		Enter data below manually
Total Landform Establishment:		
Total Growth Media Development:		
Total Ecosystem Establishment:		

Management Precinct	Activity / Description	Applicable (Y or N)	Quantity	Unit	Default Unit Rate	Alternative Unit Rate	Total Cost	Basis for Costs Estimation and Additional Relevant Information	Description / Notes:
Water Management	On-site treatment of contaminated water due to high salt (includes removal of metals etc, brine disposal and cost of mobile water treatment unit)	N		ML	\$3,600				Rate can fluctuate depending on treatment type however this is a suitable standard rate for current programs at mining operations.
	On-site treatment of contaminated water due to low pH (includes removal of metals etc, neutralisation treatments and cost of mobile water treatment unit)	N		ML	\$1,500				Rate can fluctuate depending on treatment type however this is a suitable standard rate for current programs at mining operations.
Water Management Subtotal							\$0		
Creek Diversions	Repairs and/or stabilisation of new or compromised water course diversion	N		m	\$2,500				Assumes material is suitable for revegetating and has a reasonable chance of stabilising.
	Long term maintenance of water course diversion – Channel constructed through backfilled material	N		m	\$1,500				Assumes maintenance has been kept up and significant works are not required.
	Long term maintenance of water course diversion – Channel constructed through competent material	N		m	\$750.00				Assumes maintenance has been kept up and significant works are not required.
	Installation of rock armouring	N		m2	\$6.00				Assumes competent material is locally available - multiply costs by 2 for sourcing and transporting from offsite location.
Creek Diversions Subtotal							\$0		
Maintenance of Rehabilitated Areas	Pest management on buffer lands, non-disturbed, and rehabilitated areas	Y	19.26	ha	\$150.00		\$2,889		Feral animal baiting programs if required and waste materials required to be removed.
	Land management of undisturbed areas (rehabilitation, weeds, ferals, erosion and sediment control works)	Y	19.26	ha	\$400.00		\$7,704		Undisturbed areas within the lease boundary that require land management activities.
Maintenance of Rehabilitated Areas Subtotal							\$10,593		
Heritage Items	The restoration and care and maintenance of items that have heritage significance	N		allow	Use alternate rate cell				Item for the redistribution of Aboriginal artefacts, preservation of European heritage items or a combination of activities.
Heritage Items Subtotal							\$0		
Sundry Items	Development of an 'Unplanned' Project Closure Plan - State Significant Development with closure planning well progressed i.e. preferred cover design, closure environment modelled e.g. groundwater / subsidence / pit lakes, preliminary seal designs, etc. and only finalisation of detailed engineering designs required	N		allow	\$100,000				Provisional sum to be used to refine the conceptual closure plan into a detailed closure plan with execution strategies for rehabilitation activities. Assumes outcomes of studies readily available including modelling, landform design, geochemistry, demolition, etc. Costs to finalise options by domain and finalise designs for construction. Assume a simple site e.g. single open cut, no legacy operations historic in the area, little social dependence, etc. Depending on site size, complexity, final land use requirements and knowledge base investigations can range from ~\$75k to >\$1 M. Sites with more than 1 pit to add \$50,000 to rate.
	Development of an 'Unplanned' Project Closure Plan - Non State Significant Development with at least 2 of the following aspects requiring closure planning, but no significant issues realised at this time: previous subsidence, medium or higher geochemistry risk and/or spontaneous combustion propensity, known/ likely contamination, tailings / rejects, final void	N		allow	\$90,000				Provisional sum to be used to refine the conceptual closure plan into a detailed closure plan with execution strategies for rehabilitation activities. Estimated cost for developing closure plan including studies - basic to satisfy risks and decisions - includes risk assessment, options analysis, Closure Plan. Sites with more than 1 pit to add \$50,000 to rate.
	Development of an 'Unplanned' Project Closure Plan - Non State Significant Development with no EPL and/or only one of the following relevant aspects: previous subsidence, low to medium geochemistry risk and/or spontaneous combustion propensity, known limited contamination, small approved final void	Y	1	allow	\$15,000		\$15,000		Assumes sediment control is the key concern for rehabilitation e.g. small mines, exploration operations. Includes risk assessment, sampling and analyses on <5 samples, one study and Closure Plan.

	Development of an 'Unplanned' Project Closure Plan - State Significant Development with only preliminary to conceptual closure planning in place	N		allow	\$300,000			Includes costs for key investigations and studies including designs e.g. geochemistry, Contamination Remediation Action Plan, subsidence risk, cover/capping and final landform, site wide surface water, etc. Provisional sum to be used to refine the conceptual closure plan into a detailed closure plan with execution strategies for rehabilitation activities. Assume at least 15 types of studies required ranging from geotechnical to ecology and social, development of a closure plan including address of obligations. Assume a simple site e.g. single open cut, no legacy operations historic in the area, little social dependence, etc. Depending on site size, complexity, final land use requirements and knowledge base investigations can range to >\$3 M. Sites with more than 1 pit to add \$50,000 to rate.
	Development of an 'Unplanned' Project Closure Plan - Non State Significant Development with at least ≥2 of the following aspects resulting in significant issues requiring remediation: previous subsidence, medium or higher geochemistry risk and/or spontaneous combustion propensity, known/likely contamination, tailings / rejects, final void	N		allow	\$125,000			Includes costs for key investigations and studies including economic treatments and designs e.g. geochemistry, Contamination Remediation Action Plan, subsidence risk, cover/capping and final landform, site wide surface water, etc. Provisional sum to be used to refine the conceptual closure plan into a detailed closure plan with execution strategies for rehabilitation activities.
	Develop a Review of Environmental Factors (REF) to facilitate rehabilitation including contamination works.	N		allow	\$27,950			Based on experience for a REF after completion of a detailed closure study (e.g. contamination investigation) costs could range from \$10,000 to \$100,000 ex GST. Note this does not apply to a Statement of Environmental Effects or Environmental Impact Statement.
	Site security during closure	N		yr.	\$75,000			Provisional sum for site security measures required during closure. This includes nightly patrols and first response in the event of an out of hours incident.
	Choose type of HAZMAT Clean-up required - cleaning and decontaminating plant and equipment, chemical storage locations, oil and grease traps, tanks, vessels, and pipe work etc	N		allow	\$0		Select type of HAZMAT Clean-up Required	Type of HAZMAT Clean-up required - cleaning and decontaminating plant and equipment, chemical storage locations, oil and grease traps, tanks, vessels, and pipe work etc
	Removal and disposal of radiation devices	N		each	\$31,630			Provisional sum for removal and disposal of monitoring devices on conveyors using a radiation source (i.e., Americium - 241, Plutonium - 238, Caesium - 137 etc). Source Isotope type, quantity, strength, weight, source holder type, source holder weight, pick-up location (among others) will directly affect pricing.
	Additional fees for accessing State, Crown or other public lands for rehabilitation/remediation activities	N		allow	Use alternate rate cell			Provisional sum.
					Sundry Items Subtotal		\$15,000	
Mobilisation and Demobilisation	Mobilisation & Demobilisation for small mine or quarry - small fleet	Y	1	Item	\$12,000		\$12,000	May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
	Mobilisation & Demobilisation for small mine or quarry - medium to large fleet	N		Item	\$35,000			May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
	Mobilisation & Demobilisation (Distance to site <150 km)	N		item	\$100,000			May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
	Mobilisation & Demobilisation (Distance to site >150 km but <500 km)	N		item	\$150,000			May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
	Mobilisation & Demobilisation (Distance to site >500 km but <1000 km)	N		item	\$300,000			May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
	Mobilisation & Demobilisation (Distance to site >1000 km)	N		item	\$500,000			May include specialist demolition equipment and/or suitable plant to execute bulk earthworks as required.
					Mobilisation and Demobilisation Subtotal		\$12,000	
Additional Items	Other 1 <insert>	N			This is			This item includes <<to be added by the operator>>
	Other 2 <insert>	N			deliberately			This item includes <<to be added by the operator>>
	Other 3 <insert>	N			left blank			This item includes <<to be added by the operator>>
					Additional Items Subtotal		\$0	

Total Cost for Management Activities	\$37,593
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Assumptions and rehabilitation requirements

List or record any assumptions made when completing this tool:

[illegible]