

Pollution Incident Response Management Plan

Rindean Quarries Pty Ltd



Version 4

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1.0 Purpose

This Pollution Incident Response Management Plan (PIRMP) has been prepared, to address the requirements of the *Protection of the Environment Operations Act 1197*, Specifically Part 5.7A of the Act, and to ensure compliance with Rindean Quarries Environment Protection License #20548, Development Consent DA 42409/2012 legal and other requirements.

The purpose of the PIRMP is to set out how pollution incidents and impacts which have the potential to occur during activities associated with the operation of Rindean Quarries are prevented or minimised so that no significant harm occurs to human health and the environment. This plan provides details of management procedures to be implemented if a pollution incident occurs.

1.1 Definition of a Pollution Incident

For the purpose of this plan, a pollution incident is defined by the NSW Environment Protection Authority (EPA) as:

‘An incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise’

1.2 Requirement of Notification of Pollutant Incident

If a pollution incident occurs, it is the duty of the premises to notify the incident if it causes or threatens ‘Material Harm’ to the environment, which is defined under the POEO Act as:

- a) Material harm to the environment is:
 - 1. The actual or potential harm to the health or safety of human being or to ecosystems that is not trivial, or
 - 2. Actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000. Loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

- b) Harm to the environment includes:

‘any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, included any act or omission that results in pollution.’

This plan further describes how materials are to be handled and stored on site in accordance with applicable Safety and Environmental Legislation.

A written copy of this plan is to be kept at Rindean Quarries and be made available on request by an authorized NSW EPA Officer and to any person who is responsible for implementing this plan.

2.0 Scope

The scope of this management plan is to provide:

- Procedures to be followed by the license holder or occupier of the premises in notifying pollution incidents to appropriate personnel, authorities, and regulatory bodies
- A description of the action to be taken, immediately after a pollution incident by the license holder to reduce or control any pollution
- Procedures to be followed for coordinating any action take in combating the pollution caused by the incident (with appropriate personnel, authorities, and regulatory bodies), and the communication pathways that need to be utilized in order to do this

This management plan applies to the employees and contractors operating at Rindean Quarries.

2.1 Environment Protection License

Table 1: Environment Protection License (EPL) Details

Name of licensee:	Rindean Quarries ABN: 90 606 847 385
EPL Number:	20548
Premises name and address:	Rindean Quarries 620 Wisemans Ferry Rd, Somersby
Company or business contact details:	Name: Alice Calleija Position: Compliance/ Safety Advisor Business hours contact number: 0476 633 388 (All hours) Email: info@rindean.com.au
Website address:	https://rindean.com.au/
Scheduled activities on the EPL:	Extractive activities
Fee-based activities on the EPL:	Land-based extractive activity Scale: >100000-500000 T annual capacity to extract, process or store

3.0 Legal and Other Requirements

All activities carried out onsite are to comply with the following licenses, legislation, regulations and guidelines relevant to;

All activities carried out onsite are to comply with the following licenses, legislation, regulations and guidelines relevant to the notification and management of environmental pollution.

- *Environment Protection License 20548 – Rindean Quarries*
- *Development Application DA 42409/2012- Rindean Quarries*
- *Court Order and Consent 10021 of 2014 – Rindean Quarries*
- *Environmental Impact Statement 2012 - Rindean Quarries*
- *Protection of the Environment Operation Act, 1997 (POEO Act)*
- *Protection of the Environment Operations (General) Regulation, 2009*
- *Protection of the Environment Operations (Waste) Regulation, 2005*
- *Protection of the Environment Legislation Amendment, 2011*
- *Environmentally Hazardous Chemical Act, 1985 (NSW)*
- *Managing Risks of Hazardous Chemicals in the Workplace – Code of Practice (July 2012)*
- *Storage and handling Liquids: Environmental Protection – Participants Manual (DECC 2007)*
- *Soils and Construction: Managing Urban Stormwater (Landcom 2004)*
- *Relevant Australia/ New Zealand Standards*
- *Safety Data Sheets applicable to materials stored onsite*

By adhering to the requirements set out in the above-mentioned legislation, regulations and guidelines, this will aid in preventing or minimizing the release of pollution into the environment.

In addition, Rindean Quarries has procedures outlined in the Environmental Management System relevant to pollution management reporting.

4.0 Roles and Responsibilities

Rindean Quarries has set out the roles and responsibilities for the overall conduct and control of any pollution incident until such time the incident is under control and any investigation completed. Once the ‘all clear’ is given by emergency services and/or regulatory authorities, the responsibility is transferred back to the Quarry Managers.

The roles and responsibilities are outlined in Table 2 below:

Table 2: Roles and responsibilities

Position	Activities / Responsibilities
Quarry Managers (Production Managers)	<ul style="list-style-type: none"> - Contact emergency services - Assess the incident situation and activate the response team, if required - Prevent further harm by controlling the incident scene, if safe to do so - Activate the site emergency evacuation procedure, if required - Manage the site evacuation procedure - Liaise with emergency services and regulatory authorities - Assist in clean-up and remediation
Environmental Officer (or delegate)	<ul style="list-style-type: none"> - Assist in incident controlling, if safe to do so - Notify the relevant regulatory authorities, if required - Assist in clean-up and remediation - Collate information and record incident in the Environmental Incident Register
Safety Adviser (or delegate)	<ul style="list-style-type: none"> - Assist in incident controlling, if safe to do so - Notify the relevant regulatory authorities, if required - Assist in clean-up and remediation
Operators and Contractors	<ul style="list-style-type: none"> - Report incident to the Quarry Managers or Management Team - Prevent further harm by controlling the incident scene, if safe to do so - Assist in clean-up and remediation

5.0 Identification of Potential Pollution Hazards & Risk Assessment

The following risk matrix table has been developed to:

- Identify site specific hazards that may result in a pollution incident occurring;
- Assess the likelihood of an incident occurring as a result of a particular hazard;
- Assess the likely degree of impact if an incident occurs; and
- Outline preventive management actions to be implemented in order to control and minimise or avoid impacts.
- Monitor implemented controls.

Table 3 contains the Risk Assessment Matrix adopted by Rindean Quarries.

Table 4 contains the hazard identified onsite and associated risk assessment and proposed actions.

Table 3: Risk Assessment Matrix

RISK ASSESSMENT MATRIX					
Likelihood	Consequence				
	1	2	3	4	5
A	Extreme	Extreme	High	Med	Low
B	Extreme	High	High	Med	Low
C	Extreme	High	Med	Low	Low
D	High	Med	Med	Low	Low
E	High	Med	Low	Low	Low
LIKELIHOOD					
A – Almost Certain (<i>is expected to occur</i>)					
B – Likely (<i>Will probably occur</i>)					
C – Possible (<i>may occur at some point</i>)					
D – Unlikely (<i>could occur but doubtful</i>)					
E – Rare (<i>may occur but highly unlikely</i>)					
CONSEQUENCE					
1 – Catastrophic (<i>critical unmanageable impacts</i>)					
2 – Major (<i>intense, manageable impacts</i>)					
3 – Moderate (<i>serious impacts, easily managed</i>)					
4 – Minor (<i>minor management action required</i>)					
5 – Insignificant (<i>impacts requiring no treatment</i>)					
RESPONSE TO RISK RANKINGS					
Extreme	Work is not to commence until the hazard is managed and the level of risk is reduced. The quarry manager or production manager is to authorise the work.				
High	Work can be tolerated if it is not reasonably practicable to reduce the risk further. The activity must not be undertaken without a risk assessment and being supervised.				
Medium	Work can be undertaken with the identified controls in place.				
Low	Work that is part of the day-to-day operation of the quarry with known controls, control measures are to be effective, reliable and subject to appropriate monitoring.				
HIERARCHY OF RISK CONTROL					
Eliminate the hazard	Highest level of health and safety protection, most reliability of control measures.				
Substitute the hazard with something safer	Change the substance being used to a safer one and use two people to lift items.				
Isolate the hazard from people	Putting up barriers, sound walls, acoustic enclosures				
Reduce the risk through engineering controls	Put in guards or other barriers, use design and engineering solutions.				
Reduce the exposure by applying administrative actions	Procedures, signs, training				
Use personal protective equipment	Lowest level of health and safety protection, least reliability of control measures				

Table 4: Hazard Identification and Risk Assessment

Hazard	Potential Pollution Incident & Condition influencing Likelihood of occurrence	Likelihood of Incident occurring	Consequence of incident	Assessed Risk Level	Proposed Actions - Pre-emptive Actions (Avoid impact) - Control Actions (minimise impact)
Diesel storage	<p>Polluting Incident</p> <p>1. Diesel spill to land/water from diesel tank</p> <p>Influencing conditions</p> <ul style="list-style-type: none"> - Diesel not stored correctly - Bad weather event - Overfilling of diesel tank - Poor maintenance 	E (Rare)	3 (Moderate)	Medium	<p>Pre-emptive Actions</p> <ul style="list-style-type: none"> - EPA approved bunding containment installed for diesel tank - Spill kits located onsite at vantage points - Regular inspections - Site induction for all employees and contractors - Correct refuelling procedures and training <p>Incident Control Actions</p> <ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Stop release at source - Contain release using spill kits or earth bunding - Remove contaminated material from site by licenced contractor/ facility
Silt/ Tailings ponds	<p>Polluting Incident</p> <p>1. Dam wall collapse releasing sediment laden water off site</p> <p>2. Silt pond overtopping</p> <p>Influencing conditions</p> <ul style="list-style-type: none"> - Poor construction/ maintenance of dam - Machine impacting dam wall 	<p>1. E (Rare)</p> <p>2. E (Rare)</p>	<p>1. 2 (Major)</p> <p>2. 3 (Moderate)</p>	<p>1. Medium</p> <p>2. Low</p>	<p>Pre-emptive Actions</p> <ul style="list-style-type: none"> - Daily monitoring, regular inspections - Pond wall maintenance as required and identified in inspections <p>Incident Control Actions:</p> <ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Cease pumping of tailing into pond immediately

	<ul style="list-style-type: none"> - Poor monitoring of water levels, resulting in over topping - Poor maintenance 				<ul style="list-style-type: none"> - Control release of silt/water by installing temporary earth bunding downslope of release - Remediate area of sediment release - Repair pond wall when practical to do so
Refuelling plant and equipment	<p>Polluting Incident</p> <ol style="list-style-type: none"> 1. Release of diesel from plant during refuel from bowser 2. Release of diesel from plant during refuel from diesel truck <p>Influencing Conditions</p> <ul style="list-style-type: none"> - Damage to plant due to collision - Diesel cart malfunction, break in hose - Poor maintenance 	<ol style="list-style-type: none"> 1. D (Unlikely) 2. D (Unlikely) 	<ol style="list-style-type: none"> 1. 3 (Moderate) 2. 4 (Minor) 	<ol style="list-style-type: none"> 1. Medium 2. Low 	<p>Pre-emptive Actions</p> <ul style="list-style-type: none"> - EPA Compliant bunding containment installed for the fuel bowser - Fuel pump fitted with safety cut out - Plant pre-start inspections - Spill kits located onsite - Regular inspections - Correct refuelling procedures and training - Site induction for all employees and contractors <p>Incident control Actions</p> <ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Stop release at source - Contain release using spill kits or earth bunding - Remove contaminated material from site by licenced contractor/ facility
Dust generation	<p>Polluting Incident</p> <ul style="list-style-type: none"> - Significant release of dust from site operations <p>Influencing Conditions</p> <ul style="list-style-type: none"> - Extreme weather conditions - Excessive machinery movements - Poor maintenance on haul roads - Inadequate use of water car 	C (Possible)	4 (Minor)	Low	<p>Pre-emptive Actions</p> <ul style="list-style-type: none"> - Monitor weather conditions and cease works or modify operations when significant dust is visible leaving site - Maintain haul roads in good condition - Regular use of water cart - Mandatory use of wheel wash, when leaving the quarry

					Incident Control Actions <ul style="list-style-type: none"> - Notify Quarry managers or delegate - Following procedure outlined in EPL, if TEOM alarm is triggered
Excessive noise generation	Polluting incident <ul style="list-style-type: none"> - Excessive noise generation from quarry activities - Excessive noise generation from trucks Influencing Conditions <ul style="list-style-type: none"> - Staff and contractors not properly inducted - Poor maintenance of haul roads 	D (Unlikely)	4 (Minor)	Low	Pre-emptive Actions <ul style="list-style-type: none"> - Implement mitigation measures - Conduct noise assessments at sensitive receivers, in accordance with EPL regulations - Record all noise data and monitor if any triggers are made - Construction and installation of noise bunds and walls around the quarry - Regular maintenance of equipment - Strictly adhering to operating hours - Ensure all speed limits and safe driving practices are followed Incident Control Actions <ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Cease excessive noise generating activity immediately
Internal scrub or grass fire/ Site fire	Polluting incident <ul style="list-style-type: none"> - Out of control fire leaving the premises - Smoke pollutant clouds Influencing Conditions <ul style="list-style-type: none"> - Poorly serviced machinery/ plant equipment - Extreme dry weather - Employee/ contractor negligence 	C (Possible)	2 (Major)	Extreme	Pre-emptive Actions <ul style="list-style-type: none"> - Regular maintenance on machines and plant equipment - Site induction for all employees and contractors - Fire extinguishers located in every machine/ plant equipment and site office - Use of water cart - Regular maintained grass areas Incident Control Actions

					<ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Use of fire extinguisher of water cart if safe to do so - Call 000 if necessary and people or the environment is in danger - Quarry evacuation if necessary
External bush fire	<p>Polluting incident</p> <ul style="list-style-type: none"> - Out of control fire approaching quarry - Damage to quarry property - Smoke pollutant clouds <p>Influencing Conditions</p> <ul style="list-style-type: none"> - Poorly maintained property borders - Extreme dry weather 	C (Possible)	1 (Extreme)	Extreme	<p>Pre-emptive Actions</p> <ul style="list-style-type: none"> - Fire extinguishers located in every machine/ plant equipment and site office to be used if safe to do so - Use of water cart to control fire spotting - Regular maintained grass areas <p>Incident Control Actions</p> <ul style="list-style-type: none"> - Notify Quarry Managers or delegate - Use of fire extinguisher of water cart if safe to do so - Call 000 if necessary and people or the environment is in danger - Quarry evacuation if necessary

6.0 Pollutant Inventory

Table 5: Pollutants kept on premise

Pollutant	Quantity	Location	Controls
Diesel	6,000 Liters	Refer 12.0 Site Plans (Page 17 of PIRMP) Middle of quarry along driveway on side pad	Self bunded fuel tank, spill kit, sds, fire extinguisher

7.0 Pollutant Incident Response Contact Details

Table 6: Rindean Quarries Contract Details (Responsible persons for reporting authorities)

Name	Position	Contact Number
Lawrance Spiteri	Director / Safety Director	(24 hours): 0418 675 374
Jeremy Spiteri	Director / Safety Director	(24 hours): 0401 480 174
Phil Tabone	Quarry Manager / Director / Safety Director	(24 hours): 0421 750 109
Alice Calleija	Compliance / Safety Advisor	(24 hours): 0476 633 388

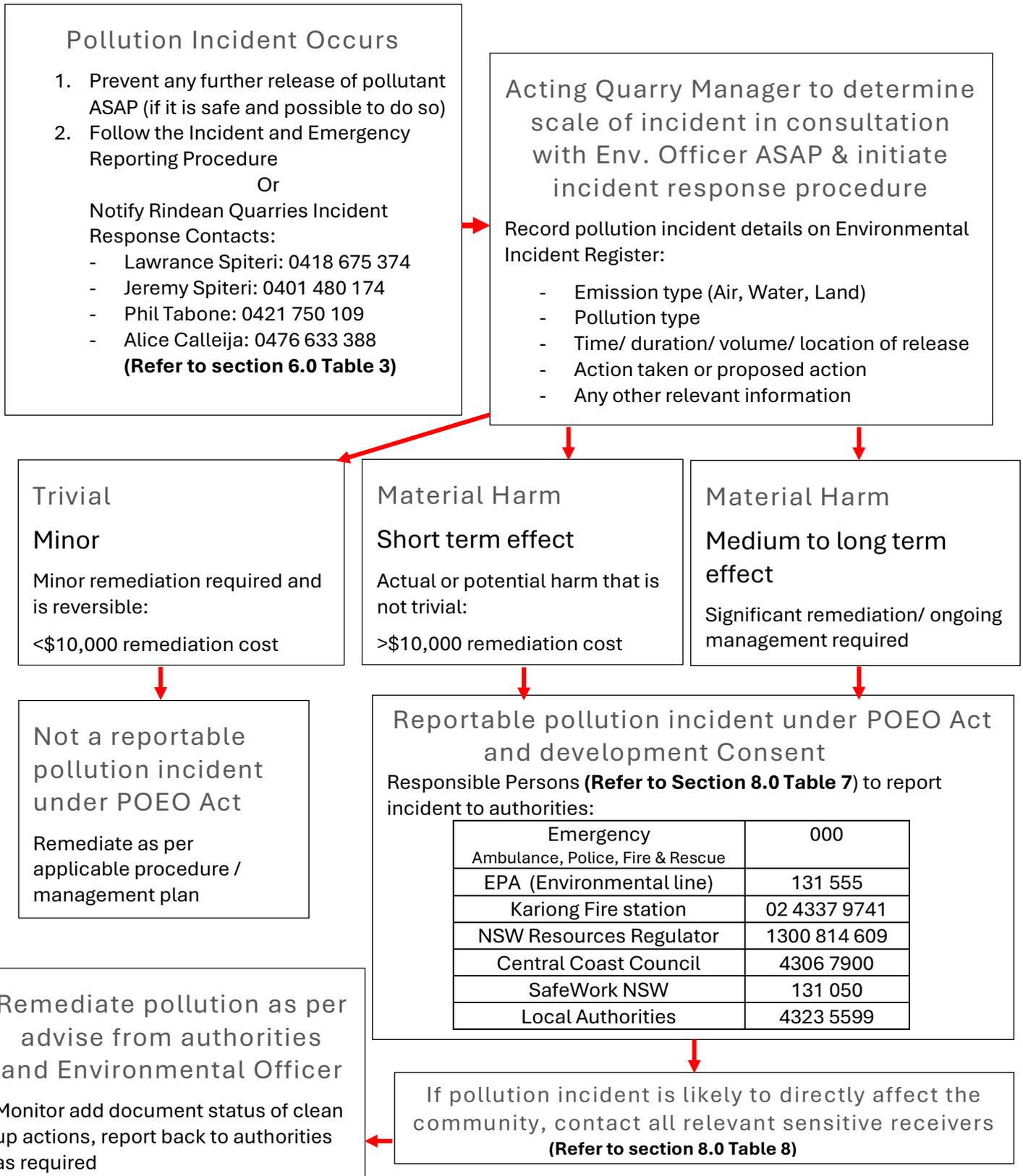
Table 7: Authorities Incident Contact Details

Name	Location	Contact Number
Emergency (Ambulance, Police, Fire & Rescue)	-	000 (When incident presents immediate threat to human health and property)
EPA (Environmental line)	-	131 555
Kariong Fire station	1 Central Coast Highway, Kariong 2250	02 4337 9741
NSW Resources Regulator		1300 814 609
Central Coast Council	Gosford 2250	4306 7900
SafeWork NSW		131 050
Local Authorities	Gosford Police Station	4323 5599

Table 8: Receivers on EPL 20548 (Rindean Quarries)

Name	Address
R1 – Private Property	630 Wisemans Ferry Road, Somersby 2250
R2 – Private Property	628 Wisemans Ferry Road, Somersby 2250
R3 – Private Property	2 Lackersteens Road, Somersby 2250
R4 – Private Property	590 Wisemans Ferry Road, Somersby 2250
R5 – Private Property	596 Wisemans Ferry Road, Somersby 2250
R6 – Private Property	600 Wisemans Ferry Road, Somersby 2250

8.0 Pollution Incident Response Procedure & Actions Flow Chart



9.0 Notification of Incident

Notification of Relevant Authorities

In the event of a notifiable incident, relevant authorities will be contacted via telephone call (and email if required) and notified through the contact details contained in Table 7.

Notification of Neighbours and Local Community

In the event where the incident has the potential to impact or cause an impact to nearby residents (Table 8), notification will be provided in the form of door-knock, phone call or letter box drop. The most suitable notification methodology determined by the Quarry Manager

10.0 Training, Plan Testing & Review

All staff, visitors and contractors coming on to site will be briefed on their responsibilities under this plan as part of the site induction requirements, with a copy of this plan being available to all personnel for viewing.

The incident response and action flow chart (Section 8.0) will also be made available as a notice posted at the appropriate locations around the site office and workshop area.

Annual testing and review of this plan is to be undertaken, which would involve two components. The first component will involve a desktop review of the plan component to ensure all details are up to date and still relevant to site operations. The second component will involve a practical exercise with all relevant site staff, in the form of a toolbox training exercise on the implementation of the response procedure (refer to 13.0 of this plan)

This plan would be tested and reviewed annually on an on-going basis, within 12 months of the latest approved revision date.

PIRMP and mock incident training details are contained in the quarry's toolbox talk and training records.

11.0 Safety Equipment

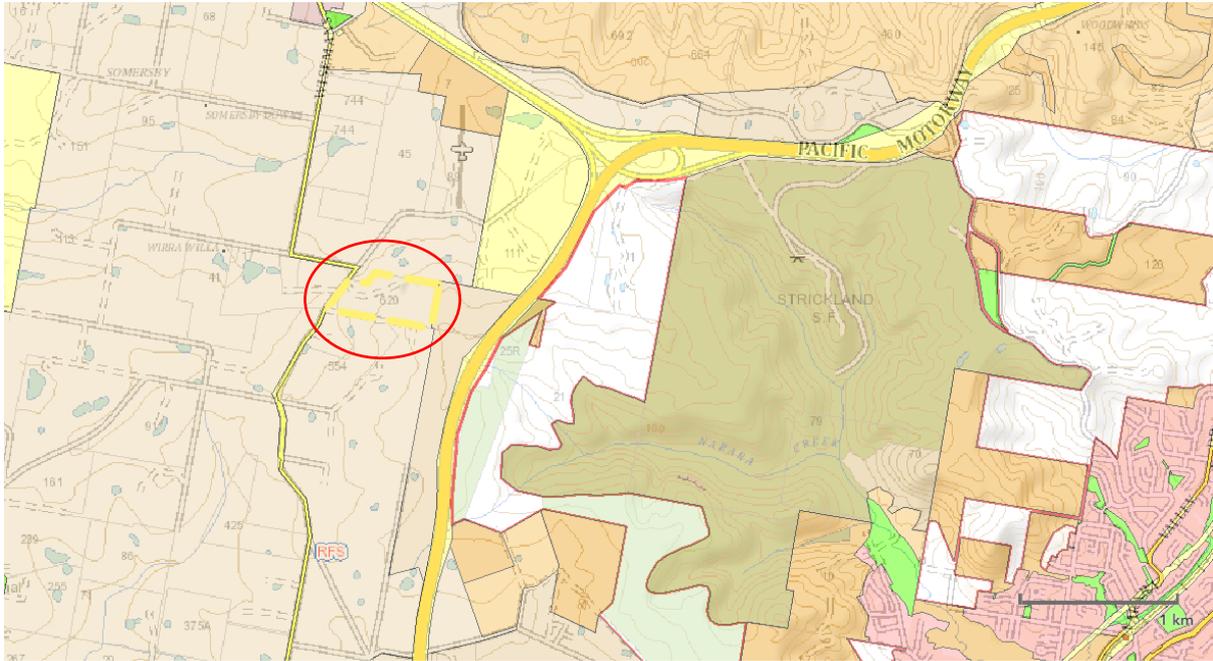
Rindean Quarries ensures all measures of safety and compliance are upheld and that all employees, contractors and visitors to the Quarry have all appropriate measures to establish their safety.

Below documents the safety equipment the quarry holds:

- **Fire extinguishers:**
 - All machines, plant equipment, site offices and lunchroom store a fire extinguisher. Regular maintained and tested every six months.
- **Safety data sheets (SDS):**
 - All relevant hazardous liquids stored at Rindean Quarries has the SDS card placed in noticeable area relevant to the liquid.
- **First aid kits:**
 - All site offices and sheds have a fully stocked first aid kit available in an accessible area. Regular maintained by the Quarry safety advisor.
- **Watercart:**
 - Fully maintained and daily checked watercart, able to be used to prevent dust, put out fires and prevent fire embers from igniting.
- **Self-bunded diesel storage:**
 - Fully contained and controlled diesel storage, with spill kits and all safety signage accessible and clearly marked for employees and contractors.
- **Safety equipment/ site induction:**
 - All employees and contractors must have full personal protective equipment (PPE) to ensure their safety. Managed and inspected daily by Quarry Manager.
 - All employees, contractors to the quarry must be inducted and notified of relevant safety and evacuation measures.
 - Visitors must be fully accompanied by a Quarry Manager and signed in and out of the quarry, to ensure that the Quarry Manager is always fully aware of everyone onsite.
 - The quarry has all required safety signage, including:
 - Road speed limits
 - UHF radio channel
 - Site office location
 - First aid kits, fire extinguishers and emergency evacuation locations
 - All relevant emergency/ site contacts

12.0 Site Plans

Location Map:



Key Details:



Emergency evacuation point



Diesel self-bunded storage tank

13.0 PIRMP Training and Testing

Table 9: PIRMP Training and Mock Incident Record

Test Date	Test Organiser	Details
19.01.2024	Alice Calleija	Onsite toolbox meeting held with management, personnel & contractors revising PIRMP protocols & training plan.
22.01.2025	Alice Calleija	Onsite toolbox meeting held with management, personnel & contractors revising PIRMP protocols & training plan.
12.01.2026	Alice Calleija	Onsite toolbox meeting held with management, personnel & contractors revising PIRMP protocols & training plan.