

## **23A. Pollution Incident Response Management Plan (PIRMP)**

A Pollution Incident Response Management Plan (PIRMP) is a document that outlines what procedures are in place to minimise the risk of a pollution incident on a premises.

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## Review

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# ENVIRONMENTAL MONITORING

## POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

### INTRODUCTION:

This Pollution Incident Response Management Plan (PIRMP) has been prepared in accordance with the regulatory requirements of the Protection of the Environment Operations Act, 1997 (POEO Act) for the Bayrange TG Jung Quarry, Located 530 Coramba road, Coffs Harbour, NSW.

#### 1.1. Environment Protection Licence Details

Name of Licensee: Kerita Holdings Pty Ltd (ABN: 76 119 123 707)

EPL number: 6213

Premises name and address: TOM JUNG QUARRIES

RED HILL- 530 Coramba Road, Coffs Harbour, NSW. 2450

Company/business contact details: Bayrange Group Head Office: 02 66525315

Website address: <http://thebayrange.com.au>

#### Scheduled activities:

Extraction, stripping, Crushing & Screening, Sales and stockpiling.

#### 1.2. Premises Covered

This PIRMP is for the TG Jung Quarry premises, which is licensed by the EPA (EPL No, 6213).

The scheduled activities related to TG Jung Quarries operation is: Extractive Activities

The layout of Jung Quarry and adjoining neighbours is outlined

[Figure 1](#)



We are committed to taking the greatest care of the environment while going about our activities on the site to ensure the highest level of environmental performance.

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A pollution incident is required to be notified if there is a risk of “material harm” to the environment and to the health or safety of human beings. (Refer Section 147 of the POEO Act)

Refer to **Mine Safety Management Plan 27A. TGJQ-MSMP-2020 v1** for environmental monitoring, responsibilities, requirements and Accident and incident Management.

## OBJECTIVE:

- Ensure comprehensive and timely communication about a pollution incident to staff at the premises, the Environment Protection Authority (EPA), other relevant authorities specified in the POEO Act (such as local councils, NSW Ministry of Health, SafeWork NSW, and Fire and Rescue NSW) and people outside the facility who may be affected by the impacts of the pollution incident.
- Minimise and control the risk of a pollution incident at the facility by requiring identification of risks and development of planned actions to minimise and manage those risks.
- Ensure that the plan is properly implemented by trained staff, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

If it is suspected that an incident may cause material environmental harm the Pollution Incident Management Response Plan will be executed. This plan is based on seven phases:

- 1. Assess**
- 2. Notify**
- 3. Stop**
- 4. Contain**
- 5. Mitigate**
- 6. Clean up**
- 7. Review**

Details of the requirements and responsibilities for each phase are explained below:

## 1. ASSESS

Identify the severity, risks, and extent of the incident:

- What is the substance emitted?
- What are its properties?
- Is there a risk to health and safety?
- Do you have the necessary PPE to manage the emission?
- What is the nature of the surrounding area?
- What is the volume of the emission?

Refer to Emergency Response plan for dangerous incidents;  
**Emergency response plan 9A. Emergency Response Plan 2021**

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Use Risk, incident and Accident Management Assessments and checklists [5E. Task Risk Assessment- Shortened Version](#), [12B.2. Standard Post Incident Management Check List](#), [12E. Accident Information Checklist 2020](#)

If the emission has the potential to cause material harm, execute the next phase of the plan (Notify)

## 2. NOTIFY

Contact key individuals

- Any person becoming aware of a potential pollution event on the site is to immediately commence preventative action in accordance with the plan and notify the site supervisor or Quarry Manager.
- The Quarry Manager or his nominated representative will coordinate the necessary action required and commence contacting the relevant authorities.

Contact Relevant Authorities

- Firstly, call 000 if the incident presents an immediate threat to human health or property.
- If the incident does not require an initial emergency agency, or once the 000 call has been made, notify the relevant authorities.
- EPA
- Mines inspector
- Fire and Rescue NSW
- Coffs Harbour city council
- Other response agencies as appropriate.

## 3. STOP

- Stop the source of the emission
- Ensure that necessary emergency materials are on hand to control larger emissions

## 4. CONTAIN

- Prevent the emission from spreading.
- Prevent the emitted material from discharging off site
- When an emission is on a hard surface
- Selected quarry material can be used to absorb or prevent further spreading. Use appropriate absorbent materials i.e., absorbent granules or sand
- Spill kits are provided on site as per Annexure A

## 5. MITIGATE

- Implement environmental controls downstream of pollution source to prevent/minimise further impact to the environment
- Barrier off hazardous area, Mitigation controls to ensure the contamination is not spread through contact with vehicles and equipment.
- 

## 6. CLEAN UP

- Clean up and remedial actions to restore the environment

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- Disposal of pollutants in accordance with regulations
- Refer to suppliers/manufactures' product description and material data sheets or for clean-up information

## 7. REVIEW

- Conduct an investigation into the event and assist the EPA and other authorities with their investigations into the incident.
- Take action where applicable to prevent a reoccurrence as identified in the investigation findings.
- PRP (Pollution Response Plan) may need to be incorporated into the review.
- Review the effectiveness of Pollution Incident Response Management Plan

## Community Notification

KEY AGENCIES TO CONTACT	CONTACT PHONE NO.
EPA	131 555
Emergency Services	000
Mines Inspector	(02) 6738 850
Work Cover Authority	13 10 50
Coffs Harbour City Council	(02) 6648 4000
Fire and Rescue NSW	000
SES	132 500
Essential Energy	132 080
ARTC	(02) 4941 9600

○ All community stakeholders that may be affected by a spill will be notified at the earliest convenience. These include neighbouring property owners and the general public within the vicinity of the site

○ Persons affected will be contacted immediately after the relevant authorities have been contacted by telephone (or face to face if this is not possible). It may be necessary to advise the affected public on actions that can be taken by them to minimise harm.

○ After the event has been contained and managed by key personnel and authorities' subsequent communication will be undertaken by follow up phone calls, face to face contact and written correspondence as appropriate and approved by the General Manager.

## Hazard Identification

A summary of the potential hazards at Bayrange Quarry premises, to the environment and community are outlined within Table 5.

Table 5. Potential Hazards and Risk Rating.

Potential Hazard	Probability/ Likelihood	Consequence	Risk Rating
Bushfire	2	1	L
Fire in stockpiles	1	1	L
Breach of development consent conditions	1	1	L
Breach of permitted hours of operation	1	1	L
Breach of EPA Licence conditions	1	1	L
Breach of Authorised Amount	1	1	L
Failure of sediment controls	2	1	L
Site flooding	4	1	M
Spill of hazardous materials such as diesel or oil	2	1	L
Soil contamination from waste received onsite	2	1	L
Asbestos contamination from waste received onsite	1	1	L
Noise pollution from site activities	3	2	M
Air quality pollution from dust from site activities	3	2	M
Traffic accident on site	3	2	M
Material tracked out of site	3	2	M
Unauthorised vegetation removal	2	1	L
Groundwater pollution	2	2	M
Unauthorised work on heritage item	1	1	L
Unauthorised work on aboriginal heritage item	1	1	L
Snakes on site	3	2	M

## HAZARD AND POLLUTION RESPONSE

### Risk Management

#### PROBABILITY/ LIKEILYHOOD

The qualitative measure of probability/ Likelihood used by Bayrange for risk assessments (Risk Assessment Template) is outlined within Table 1.

What is the likelihood of this incident?

- A) Rare The event may only occur in exceptional circumstances
- B) Unlikely The event is unlikely to occur
- C) Moderate The event could occur at some time
- D) Likely The event will probably occur in most circumstances
- E) Almost Certain The event is likely to occur in most circumstances

Probability Matrix. Table 1.

#### CONSEQUENCE

The qualitative measure of consequence used by Bayrange for risk assessments (Risk Assessment Template) is outlined within Table 2.

What is the consequence of this incident?

- 1) Minor No injury/near miss
- 2) Moderate First aid treatment required no lost time
- 3) Serious Hospital/Medical treatment required
- 4) Severe Extensive injuries, permanent disability lost time
- 5) Disaster Fatality

Consequence Matrix. Table 2.

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## RISK MATRIX

The risk matrix used by Hi-Quality for risk assessment (Risk Assessment Template) is outlined within Table 3.

Table 3.

Consequence			Likelihood		
Value	Description		Value	Description	
1	Incidental	Injury such as First Aid or less, usually dealt with in-house.	1	Rare	The consequence is not expected in the Company / Has never been heard of in the Industry.
2	Minor	One or more injuries which require treatment by a medical professional or as a hospital outpatient, but are not serious (e.g. no time lost)	2	Unlikely	The consequence is possible in the Company / Has occurred in the Industry.
3	Moderate	One or more injuries which are serious enough to result in lost time, non-permanent disabling injuries, or overnight hospitalisation as an inpatient.	3	Possible	The consequence is possible at the workplace at some time in the future (next 10 years) / Has happened at the Company in past 10 years / Occurs annually within the Industry.
4	Major	Serious injuries, requiring immediate emergency hospital treatment as an inpatient, resulting in significant permanent disabling injury e.g. reduced mobility, loss of fingers or extended temporary impairment and/or extended hospitalisation. Serious/dangerous incident/ occurrence.	4	Likely	The event is expected to occur several times a year at a site/focal level.
5	Severe	Death or significant permanently disabling injury e.g. blindness, loss of hand(s), quadriplegia.	5	Almost Certain	The event is expected to occur several times a year at a site level.

Risk Level	Risk Acceptability
Extreme	The impact of this risk occurring would be so severe that the related activity would need to cease immediately. Extreme risks need immediate mitigation strategies to be implemented.
High	This type of risk cannot be accepted. Treatment strategies aimed at reducing the risk level should be developed and implemented as soon as possible.
Medium	This level of risk can be accepted with regular monitoring for any changes in likelihood or consequence levels.
Low	This level of risk can be accepted with monitoring.

TABLE 3: RISK RANKING TABLE					
Likelihood \ Consequence	Consequence				
	Incidental (1)	Minor (2)	Moderate (3)	Moderate (4)	Moderate (5)
Almost Certain (5)	M (5)	H (10)	E (15)	E (20)	E (25)
Likely (4)	M (4)	M (8)	H (12)	E (16)	E (20)
Possible (3)	L (3)	M (6)	H (9)	H (12)	E (15)
Unlikely (2)	L (2)	M (4)	M (6)	M (8)	H (10)
Very Unlikely / Rare (1)	L (1)	L (2)	L (3)	M (4)	M (5)

## Annexure A

TG Jung Quarry Emergency services locations map.



-  Fire Extinguishers
-  First Aid Kit
-  Pedestrian crossing  
Shared pedestrian zone
-  Speed limit signage
-  Emergency Shower Eyewash
-  Spill Kit
-  Light vehicle parking  
Reverse park only
-  Give Way Signs
-  Fuel Tank