

Champions Quarry Expansion

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

Version 1.1 (May 2018)

REVISION HISTORY OF THE POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

| Version | Date | Description | By | Review |
|---------|----------|---|------------------|---------------|
| 1.0 | May 2016 | Pollution Incident Response Management Plan | Champions Quarry | Jeff Champion |
| 1.1 | May 2018 | Pollution Incident Response Management Plan | Champions Quarry | Jeff Champion |

TESTING HISTORY OF THE POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

| Version | Test Date | Description | By | Tester |
|---------|-------------|---|------------------|---------------|
| 1.0 | 10 May 2016 | Pollution Incident Response Management Plan | Champions Quarry | Cath Champion |
| 1.1 | 17 May 2017 | Pollution Incident Response Management Plan | Champions Quarry | Cath Champion |
| 1.1 | 16 May 2018 | Pollution Incident Response Management Plan | Champions Quarry | Cath Champion |

CONTENTS

Glossary

I-ii

| | | |
|-----------|---|----------|
| 1 | INTRODUCTION..... | 1 |
| 1.1 | BACKGROUND | 1 |
| 1.2 | OVERVIEW OF SITE ACTIVITIES | 1 |
| 1.3 | DEFINITION OF ‘POLLUTION INCIDENT’ AND REPORTING | 1 |
| 2 | SITE HAZARDS..... | 5 |
| 3 | INVENTORY OF POLLUTANTS | 6 |
| 4 | RESPONSE TO A POLLUTION INCIDENT | 6 |
| 5 | INCIDENT CONTACT DETAILS..... | 7 |
| 6 | COMMUNICATING WITH THE NEIGHBOURS AND LOCAL COMMUNITIES..... | 7 |
| 6.1 | FORMS OF COMMUNICATING..... | 7 |
| 6.2 | EXTENT OF COMMUNICATION AND RELEVANT ADVICE | 8 |
| 7 | MINIMISING HARM TO PERSONS ONSITE..... | 8 |
| 8 | ACTIONS TO BE TAKEN DURING AND IMMEDIATELY AFTER A POLLUTION INCIDENT..... | 9 |
| 9 | SITE INDUCTION | 9 |
| 10 | AVAILABILITY OF THE PLAN..... | 9 |
| 11 | TESTING OF THE PLAN | 9 |

LIST OF TABLES

Table 2.1 – Size Hazards and Mitigating Measures

LIST OF FIGURES

Figure 1.1 – Quarry Location (Known as Figure 2.1 Project Site Location dated 25 July 2011 extracted from Preferred Project Report December 2011 at page 6)

Figure 1.2 – Figure 1.2 - Champions Quarry Plan of Operational and Extraction Areas (February 2016)

GLOSSARY

| | |
|-----------|---|
| EPL | Environmental Protection Licence under the POEO Act |
| PIRMP | Pollution Incident Response Management Plan |
| POELA Act | <i>Protection of the Environment Legislation Amendment Act 2011</i> |
| POEO Act | <i>Protection and Environment Operations Act 1997</i> |

1 INTRODUCTION

1.1 BACKGROUND

This plan has been created to meet the requirements of the *Protection of the Environment Operations Act 1997* (POEO ACT) and changes as a result of the *Protection of the Environment Legislation Amendment Act 2011* (POELA Act).

The POEO Act (Part 5.7A) requires holders of an EPL to prepare and implement a PIRMP. If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, licensees must immediately implement the plan.

1.2 OVERVIEW OF SITE ACTIVITIES

The primary activities undertaken at Champions Quarry include the extraction and processing of up to 250,000 tonnes per annum of sandstone resource pursuant to the Project Approval granted by the Planning and Assessment Commission of NSW dated August 30, 2012 pursuant to Section 75J of the Environmental and Planning and Assessment Act 1979.

Quarrying at the site will include the following:

- The expansion of the approved resource and processing area;
- Topsoil and overburden removal using a bulldozer/s and/or excavator/s and/or loader/s and/or other suitable machines;
- Excavation of sandstone resource by ripping and pushing the material to create stockpiles of unprocessed material;
- Use of loader/s and/or excavator/s and/or trucks to transport material within the Operational Area and transportation off site;
- Occasional use of a rock saw and/or nitrogen fed jackhammer to assist with the extraction of dimensioned sandstone and other quarry products;
- Processing material including crushing, screening, carting, washing and stockpiling of raw extractive material;
- Associated quarry infrastructure including plant maintenance, implementation of a sand washing plant, office amenities and storage facilities, erosion and sediment control basins, bund construction, drainage construction and dam construction;
- Loading, transport and distribution; and
- Progressive staged rehabilitation of work cells.

The sandstone product ranges from low to medium strength, accordingly material will be extracted by excavators and/or dozers. No permission to blast has been sought or approved. All despatched material from the quarry is proposed to be transported by road.

Champions Quarry is surrounded mainly by farmland and adjoins Wyrallah Road to the west. A copy of the Project Site Location is included in Figure 1.1 and Figure 1.2.

1.3 DEFINITION OF 'POLLUTION INCIDENT' AND REPORTING

Pollution incident is defined in the POEO Act to mean the following:

“pollution incident means 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 a 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”.

A pollution incident is required to be notified if there is a risk of ‘material harm to the environment’, which is defined in section 147 of the POEO Act as:

- (a) harm to the environment is material if:
 - i. it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
 - ii. it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and
- (b) 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.

Industry is now required to report pollution incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council. ‘Immediately’ has its ordinary dictionary meaning of promptly and without delay.

Figure 1.1 – Quarry Location

Known as Figure 2.1 Project Site Location dated 25 July 2011 extracted from Preferred Project Report December 2011 at page 6



Figure 2.1
Project Site Location

| | |
|---------------|---------------------|
| Client: | Champions Quarry |
| Project: | Champions Quarry |
| Drawing No: | 011404rpm_01 |
| Date: | 25/07/11 |
| Drawn by: | AM |
| Source: | Department of Lands |
| Scale: | Refer to Scale Bar |
| Drawing size: | A4 |
| Reviewed by: | WW |

Environmental Resources Management Australie Pty Ltd
 PO Box 5711, 3/146 Gordon Street
 Port Macquarie NSW 2444
 Telephone: +61 2 8584 7155



Figure 1.2 - Champions Quarry Plan of Operational and Extraction Areas (February 2016)



2 SITE HAZARDS

Table 2.1 – Site Hazards and Mitigating Measures

| Site Hazard | Likelihood of Occurring | Mitigating Measures/Pre-emptive Measures |
|--|-------------------------|---|
| Injuries to persons from vehicles/machinery onsite | Low | <ul style="list-style-type: none"> • Maintain fencing and to prevent unauthorised access; • Maintain adequate warning signage; • Ensure all persons are inducted onto site; • Wear high visibility clothing; • Non-essential personnel to be clear of work area; and • Machinery equipped with reversing alarms and/or revolving flagship light. |
| Injuries to persons from falls onsite | Very low | <ul style="list-style-type: none"> • Maintain fencing and to prevent unauthorised access; and • Maintain adequate warning signage. |
| Discharge of sediment laden water | Very low | <ul style="list-style-type: none"> • Controls installed and maintained to minimise generation of sediment laden water; • Install and maintain erosion and sediment controls including sediment traps; and • ensure pH and Total Suspended Solids levels are permissible prior to discharge. |
| Water pollution – General | Very low | <ul style="list-style-type: none"> • Refuelling to be supervised; • Refuelling not to be carried in an area flowing into a water source; • Spill kit located and maintained on site near site office; and • Employees trained to use spill kit. |
| Surface water runoff 1. Failure of dams 2. Over flow of dams | Very low | <ul style="list-style-type: none"> • Regular inspections of dams; • Maintenance of dams as required; • Monitoring water levels and preventable discharging when required; and • Reuse water in dams for dust suppression. |
| Air pollution – Dust | Very low | <ul style="list-style-type: none"> • Disturbed areas minimised; • Water unsealed quarry roads as required using water from Water Reuse Dam; • Water sprays will be used on mobile processing equipment and stockpiles as required; • Trucks leaving the site have loads covered; and • Stockpiles of overburden/topsoil that are stored for rehabilitation purposes will be seeded to minimise potential of fugitive dust. |
| Air pollution – Fires | Very low | <ul style="list-style-type: none"> • Fuels and lubricants are delivered to site as required; • Maintain plant and equipment in accordance with manufactures specifications; • Fire extinguishers located at site office; • Lock up areas maintained to reduce fire hazard where required; |

| | | |
|--|--|---|
| | | <ul style="list-style-type: none"> • Maintain fire breaks; and • Water may be used from Water Reuse Dam to fight fires. |
| Noise | Low | <ul style="list-style-type: none"> • Implement the Champions Quarry Noise Management Plan. |
| Storage of fuel 1. Fuel Leak 2. Tank rupture No fuel stored or storage onsite. Fuel delivered as required. | Very low, fuel not stored onsite. Small amounts of fuel are transported over site to machines when required. | <ul style="list-style-type: none"> • Staff training in fuel handling; • Care in handling fuel containers; • Spill kit located and maintained on site near site office; and • Employees trained to use spill kit. |
| Transporting fuel 1. Fuel Leak 2. Tank rupture Fuel delivered as required. | Low, fuel transported via fuel cell to machinery. | <ul style="list-style-type: none"> • Staff training in fuel handling; • Care in handling fuel containers; • Minimise time fuel spent in cell; • Spill kit located and maintained on site near site office; and • Employees trained to use spill kit. |
| Storage of oil 1. Oil leak 2. Oil spill 3. Oil fire No oils stored or storage onsite. Oils delivered as required. | Very low, oil not stored onsite. Small amounts of oil transported over site to machines when required. | <ul style="list-style-type: none"> • Empty oil containers responsibly disposed of; • Spill kit located and maintained on site near site office; and • Employees trained to use spill kit. |
| Storage of chemicals 1. Chemical leak 2. Chemical spill 3. Mixing of chemicals 4. Chemical explosion No chemical stored or storage onsite. Chemicals delivered as required. | Very low, chemicals not stored onsite or mixed onsite. | <ul style="list-style-type: none"> • Staff training in chemical handling; and • Care in handling chemical containers. |

3 INVENTORY OF POLLUTANTS

No potentially polluting chemicals are stored on site.

Fuels and lubricants for vehicles and machinery are not stored on site and are delivered as required.

Sediment laden runoff water from the disturbed quarry areas must be captured in sediment traps and ultimately the Water Reuse Dam and will be tested and treated if required prior to discharge from the site.

4 RESPONSE TO A POLLUTION INCIDENT

If a pollution incident occurs, the following organisations shall be contacted in the following order:

1. Call 000 if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents;

If the incident does not require an initial combat agency, or once the 000 call has been made, notify the relevant authorities in the following order:

2. The Department of Primary Industries – phone 02 6738 8509 or 02 6772 3375 (after hours);
3. Call the EPA – phone Environment Line on 131 555;

4. The Ministry of Health via the Local Public Health Unit – phone Lismore Public Health Unit on 02 6620 7585 or Lismore Base Hospital on 02 6621 8000;
5. The WorkCover Authority – phone 13 10 50;
6. Lismore City Council – phone 1300 87 83 87; and
7. Fire and Rescue NSW – phone 1300 729 579. Note, if the situation warranted calling 000 as a first point of notification, you do not need to ring Fire and Rescue NSW again.

Call 1 to 000 should be made by the Site Foreman or another responsible site representative immediately when the pollution incident occurs.

All other calls should be made by the Production Manager.

Note: the POEO Act requires that this contact process should be initiated immediately after a pollution incident occurs.

5 INCIDENT CONTACT DETAILS

| External Contacts | |
|---|--|
| Emergency Services (Fire, Police, Ambulance) | 000 |
| EPA | 131 555 |
| Department of Primary Industries (Angus McDouall) | 02 6738 8509 0418 293 744 02 6772 3375 (after hours) |
| Lismore Public Health Unit | 02 6620 7585 |
| Lismore Base Hospital | 02 6621 8000 |
| WorkCover | 13 10 50 |
| Lismore City Council | 1300 87 83 87 |
| Rous Water | 02 6621 8055 02 6626 6955 (after hours) |
| Essential Energy | 13 20 80 |
| Internal Contacts | |
| Production Manager | 0414 298 000 |
| Office | 02 6624 5450 |
| Radio | |
| UHF | Quarry – Channel 9 |

6 COMMUNICATING WITH THE NEIGHBOURS AND LOCAL COMMUNITIES

6.1 FORMS OF COMMUNICATING

In the event of a pollution incident occurring at the Quarry, Quarry Management will use some/all of the following methods to communicate to the public. The severity of the incident and topographic area of the incident will determine the methods of communication.

- Email notifications;
- Strategic phone calls;
- Door knock neighbours;
- Conduct a letter box drop of neighbours;
- Notification on Champions Quarry website; and
- Local newspapers, radio and television.

6.2 EXTENT OF COMMUNICATION AND RELEVANT ADVICE

The extent of communication will depend on the following:

- a. Air/Dust emissions – prevailing winds, height and magnitude of dust, location of any fall out or off-site impacts, possible impacts to receivers; and
- b. Contaminated water runoff – premises adjacent to intermittent watercourse, possible impacts to receivers.

The advice contained within the communication may include the following:

- a. Air/Dust emissions – person in the affected area should close windows and doors and remain inside for the duration of the incident; and
- b. Contaminated water runoff – persons should avoid using or entering the intermittent watercourse and down stream areas.

7 MINIMISING HARM TO PERSONS ONSITE

The only persons authorised to be on the premises shall be Champions Quarry staff, authorised contractors engaged in quarry operations, or other persons under the immediate supervision of Champions Quarry staff.

The risk of harm to persons on the premises shall be minimised by the following:

- a. Implementing the mitigating measures set out in section 2;
- b. Implementation of the Champions Quarry Mine Safety Management Plan which is located in the site office;
- c. Employee Induction process and provision of a Champions Quarry Employee Induction Sheet;
- d. Implementation of the Champions Quarry Environmental Management Strategy;
- e. Incorporating communication systems into the management of safety including:
 - UHF radios being present in all vehicles and heavy machinery as an early warning system and prevention; and
 - Mobile phones being utilised by staff;
- f. Incorporating communication systems into the management of safety including:
 - Presence of fire extinguishers, spill kits and first aid kits located at/adjacent to the site office;
 - Staff training as to safe work practices via tool box talks;
 - Visitors being inducted onto site and being under the immediate supervision of Champions Quarry staff;
 - Where possible a trained and accredited first aid officer shall be present on site at all times; and

- Requirement for immediate reporting of any workplace injury to Site Forman and Production Manager.

Site Evacuation

As part of the site induction, details of the site evacuation procedures and points shall be given to persons attending the site.

Verbal instructions by calling “emergency emergency emergency” to evacuate over the radio system or a verbal directive issued by the appropriate personnel will constitute the evacuation signal.

In the event of an evacuation, persons should assemble at the nearest safe assembly area being either the site office or main entrance gates.

Any need to evacuate should be reported to the Site Foreman and Production Manager and an incident report completed.

8 ACTIONS TO BE TAKEN DURING AND IMMEDIATELY AFTER A POLLUTION INCIDENT

- Address the immediate cause of the incident;
- Identify any injured persons, ensure their immediate safety and render first aid;
- Commence contact process set out in section 4 above;
- Cooperate with emergency services attending the site;
- Responsible manager to assume control (ie Production Manager); and
- Responsible manager to record incident and develop and implement incident response plan (ie Production Manager).

9 SITE INDUCTION

Employees are inducted on site by the Site Foreman prior to starting work on site. A copy of the Champions Quarry employee induction sheet is also provided to employees prior to commencing work along with directions to the Champions Quarry Mine Safety Management Plan.

Ongoing training and feedback is provided to employees by way of toolbox talks.

The Site Foreman shall ensure all employees required to operate plant and equipment are appropriately skilled, competent (and licenced where required).

10 AVAILABILITY OF THE PLAN

Printed copies of this plan shall be available at the Champions Quarry Site Office and Offsite Office.

11 TESTING OF THE PLAN

This plan must be tested at least once every 12 months. The testing is to be carried out in such a manner as to ensure that the information included in the plan is accurate and up to date, and that the plan is capable of being implemented in a workable and effective manner.

The plan shall be routinely tested by:

- Conducting an incident response and evacuation drill at the site based on a possible incident scenario; and
- Simulating the communications process required as part of the incident response, including the roles of the Site Forman and Production Manager.

A written evaluation of these tests shall be undertaken, and records of these evaluations shall be retained by the Champions Quarry.