

Multiquip Quarries

ABN: 44 101 930 714

Pollution Incident Response Management Plan

for

**Environment Protection
Licence 13213**

Ardmore Park Quarry

Prepared by:



R.W. CORKERY & CO. PTY. LIMITED

October 2014



R. W. CORKERY & CO. PTY. LIMITED

Multiquip Quarries

ABN: 44 101 930 714

Pollution Incident Response Management Plan

for

Environment Protection Licence 13213

Ardmore Park Quarry

Prepared for:

CEAL Limited T/as Multiquip Quarries
ABN: 44 101 930 714
PO Box 4
AUSTRAL NSW 2179

Telephone: (02) 9606 9011
Facsimile: (02) 9606 0557
Email: jason@multiquip.com.au

Prepared by:

R.W. Corkery & Co. Pty. Limited
Geological & Environmental Consultants
ABN: 31 002 033 712

Brooklyn Office:

1st Floor, 12 Dangar Road
PO Box 239
BROOKLYN NSW 2083

Orange Office:

62 Hill Street
ORANGE NSW 2800

Brisbane Office:

Suite 5, Building 3,
Pine Rivers Office Park
205 Leitchs Road
BRENDALD QLD 4500

Telephone: (02) 9985 8511

Facsimile: (02) 6361 3622

Email: brooklyn@rwcorkery.com

Website: www.rwcorkery.com

Telephone: (02) 6362 5411

Facsimile: (02) 6361 3622

Email: orange@rwcorkery.com

Telephone: (07) 3205 5400

Facsimile: (02) 6361 3622

Email: brisbane@rwcorkery.com

October 2014

Ref No. 625/20



R. W. CORKERY & CO. PTY. LIMITED

Document Control

Document Title	Pollution Incident Response Management Plan			
Document Number	625/20			
Revision	Issue Date	Originator	Reviewed	Approved
Version 1	16 October 2014	Alex Irwin (RWC)	Jason Mikosic	18 October 2014
Version 2				
Version 3				
Next Review Due	01 November 2015			

This Copyright is included for the protection of this document

COPYRIGHT

© R.W. Corkery & Co. Pty Limited 2014
and
© Multiquip Quarries 2014

All intellectual property and copyright reserved.

Apart from any fair dealing for the purpose of private study, research, criticism or review, as permitted under the Copyright Act, 1968, no part of this report may be reproduced, transmitted, stored in a retrieval system or adapted in any form or by any means (electronic, mechanical, photocopying, recording or otherwise) without written permission. Enquiries should be addressed to R.W. Corkery & Co. Pty Limited.

CONTACT INFORMATION AND DECLARATION

Licence: EPL 13213

Licensee Details: CEAL Limited
PO Box 4
AUSTRAL NSW 2171

Land Address: 5152 Oallen Ford Road
BUNGONIA NSW 2580
Lot 24, DP 1001312

PIRMP Prepared by: Alex Irwin (B.Sc(Hons))
R.W. Corkery & Co. Pty Limited
62 Hill Street,
ORANGE NSW 2800
Tel: (02) 6362 5411
Email: orange@rwcorkery.com

Signature:



Date: 16/10/14

Licensee
Declaration:

I, Jason Mikosic, as General Manager of Multiquip Quarries and Licensee of EPL 13213, declare that the information contained in this Pollution Incident Response Management Plan is neither false nor misleading.

Signature:



Date: 18/10/14



This page has intentionally been left blank



CONTENTS

	Page
CONTACT INFORMATION AND DECLARATION	III
DICTIONARY	VI
1. INTRODUCTION.....	1
2. LEGAL REQUIREMENTS	1
3. PLAN MANAGEMENT AND CONTACT DETAILS	4
4. OBJECTIVES AND OUTCOMES.....	4
5. POTENTIAL HAZARDS	5
5.1 DESCRIPTION OF HAZARDS	5
5.2 PRE-EMPTIVE ACTIONS.....	5
5.3 INVENTORY OF POTENTIAL POLLUTANTS	5
5.4 SAFETY EQUIPMENT AND PROCEDURES	7
6. POLLUTION INCIDENT MANAGEMENT	8
6.1 POLLUTION INCIDENT RESPONSE (GENERAL MANAGEMENT AND ACCOUNTABILITY).....	8
6.2 INCIDENT NOTIFICATION.....	10
6.2.1 Notifiable Incidents	10
6.2.2 Notification Protocol.....	10
6.3 INCIDENT RESPONSE PROCEDURES	12
6.4 EVACUATION PLAN	12
7. PLAN EVALUATION AND REVIEW	12
7.1 EVALUATION	12
7.2 CONTINUAL IMPROVEMENT	13
7.3 TESTING OF POLLUTION INCIDENT RESPONSE.....	13
7.4 COMPETENCY TRAINING	13
7.5 POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN REVIEW.....	13

FIGURES

Figure 1	Site Location & Drainage Network.....	2
Figure 2	Surrounding Land Ownership & Residences.....	3

TABLES

Table 1	Key Contact Details and Responsibilities	4
Table 2	Objectives and Key Performance Outcomes.....	4
Table 3	Identified Pollution Hazards of the Quarry	6
Table 4	Inventory of Pollutants	7
Table 5	Key Management Responsibilities.....	8
Table 6	Government Agency Notification Protocol	11
Table 7	Land Owner Notification Protocol	11



DICTIONARY

Authority	For this plan authority means a regulatory or other government or public authority.
Alert Phase	Means that stage of a pollution incident that is undertaken once it is established that the incident could escalate to a notifiable incident.
Call Out Phase	Means the stage of a pollution incident that is undertaken once the incident is deemed notifiable under the <i>Protection of the Environment Operations Act 1997</i> .
Clean Up Phase	Means the stage of a pollution incident that is undertaken once the area has been declared safe. This involves clean-up and environmental stabilisation.
Hazard	Any source, situation or condition of potential damage, harm or adverse health effects on someone, something or the environment under certain conditions.
Hazardous Material	Means anything that, when produced, sourced, moved, used or otherwise dealt with, and without adequate safeguards to prevent it from escaping, may result in / cause injury or death, damage to property or environmental harm.
Material Harm to the Environment	In accordance with the definition provided by Clause 147 of the <i>Protection of the Environment Operations Act 1997</i> , harm to the environment is material if: <ul style="list-style-type: none"> (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).
Notifiable Incident	A pollution incident which occurs in the course of an activity so that material harm to the environment is caused or threatened.
Pollution Incident	An incident resulting in the spillage, leakage or emission of a material which occurs in the course of an activity so that material harm to the environment is threatened.
Response	The process of addressing the effects of an incident and providing immediate relief for affected persons or the environment.
Stand By Phase	Means the stage of a pollution incident that is undertaken once it is established that the incident will more than likely escalate to a notifiable incident.
Stand Down Phase	Means the stage of a pollution incident that is undertaken once it is established that the incident has been controlled and no support services are required.

1. INTRODUCTION

This Pollution Incident Response Management Plan (the Plan) has been prepared by R.W. Corkery & Co Pty Limited, in accordance with Section 153A of the *Protection of the Environment Operations Act 1997* (POEO Act), on behalf of Multiquip Quarries (the Licensee) for the approved Ardmore Park Quarry (the Quarry). **Figure 1** presents the Quarry location and key features of the local setting. **Figure 2** presents relevant component boundaries and surrounding land ownership and residences.

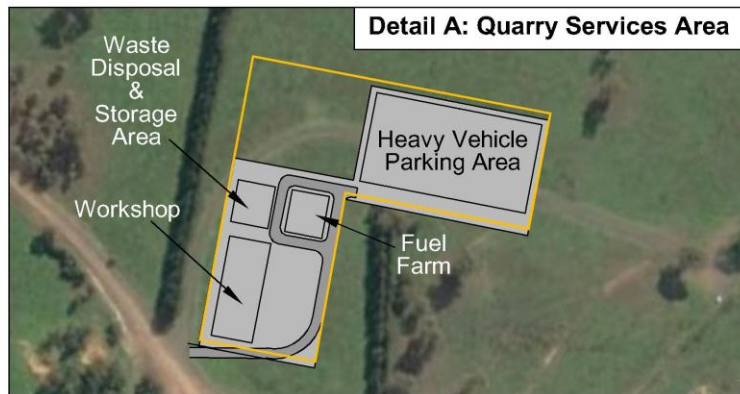
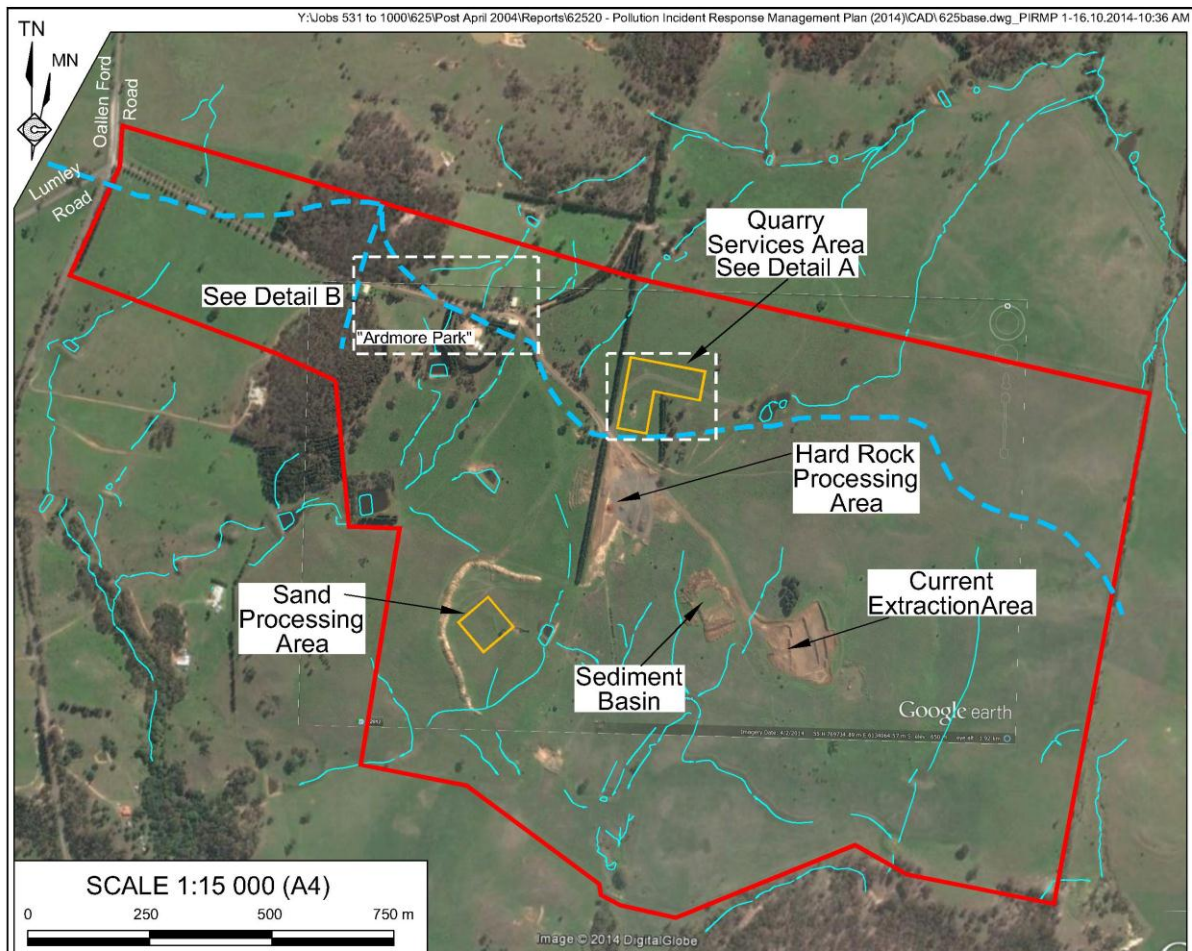
Approval for the Ardmore Park Quarry was originally granted as PA 07_0155 by the Minister for Planning on 20 September 2009. Two subsequent modifications to PA 07_0155 have been approved in October 2010 and November 2013. Since approval of the Quarry, extraction and processing has been limited to small volumes of hard rock extracted for the purpose of the Bungonia By-pass construction.

In the short-term, the Licensee is likely to supply relatively small volumes of sand and hard rock products to local markets whilst larger contracts are sought and obtained. The Plan has been prepared, however, to account for maximum production from the Quarry.

2. LEGAL REQUIREMENTS

The Plan has been prepared to satisfy the requirement of Part 5.7A of the POEO Act and the *Protection of the Environment Operations (General) Regulation 2009* (POEO(G) Reg). In summary, Part 5.7A of the POEO Act requires that the following information be provided within the Plan.

1. The Plan must include the information required by Section 153C of the POEO Act, namely:
 - (a) the procedures to be followed in notifying a pollution incident to:
 - (i) neighbouring land owners or occupiers, and
 - (ii) the local authority(ies) for the area affected, or potentially affected, by the pollution, and
 - (iii) any other persons or authorities as required by Section 148(8) of the POEO Act;
 - (b) a detailed description of the action to be taken, immediately after a pollution incident, to reduce or control any pollution;
 - (c) the procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and, in particular, the persons through whom all communications are to be made; and
 - (d) the specific requirements of Clause 98C of the POEO(G) Reg.
2. The Plan must be kept at the Quarry.
3. The Licensee must test the Plan in accordance with Clause 98E of the POEO(G) Reg.
4. The Plan must be immediately implemented should a pollution incident occur such that material harm to the environment is caused or threatened.



- REFERENCE**
- Quarry Site Boundary
 - - - Catchment Boundary (Approximate)
 - Creek / Drainage Line

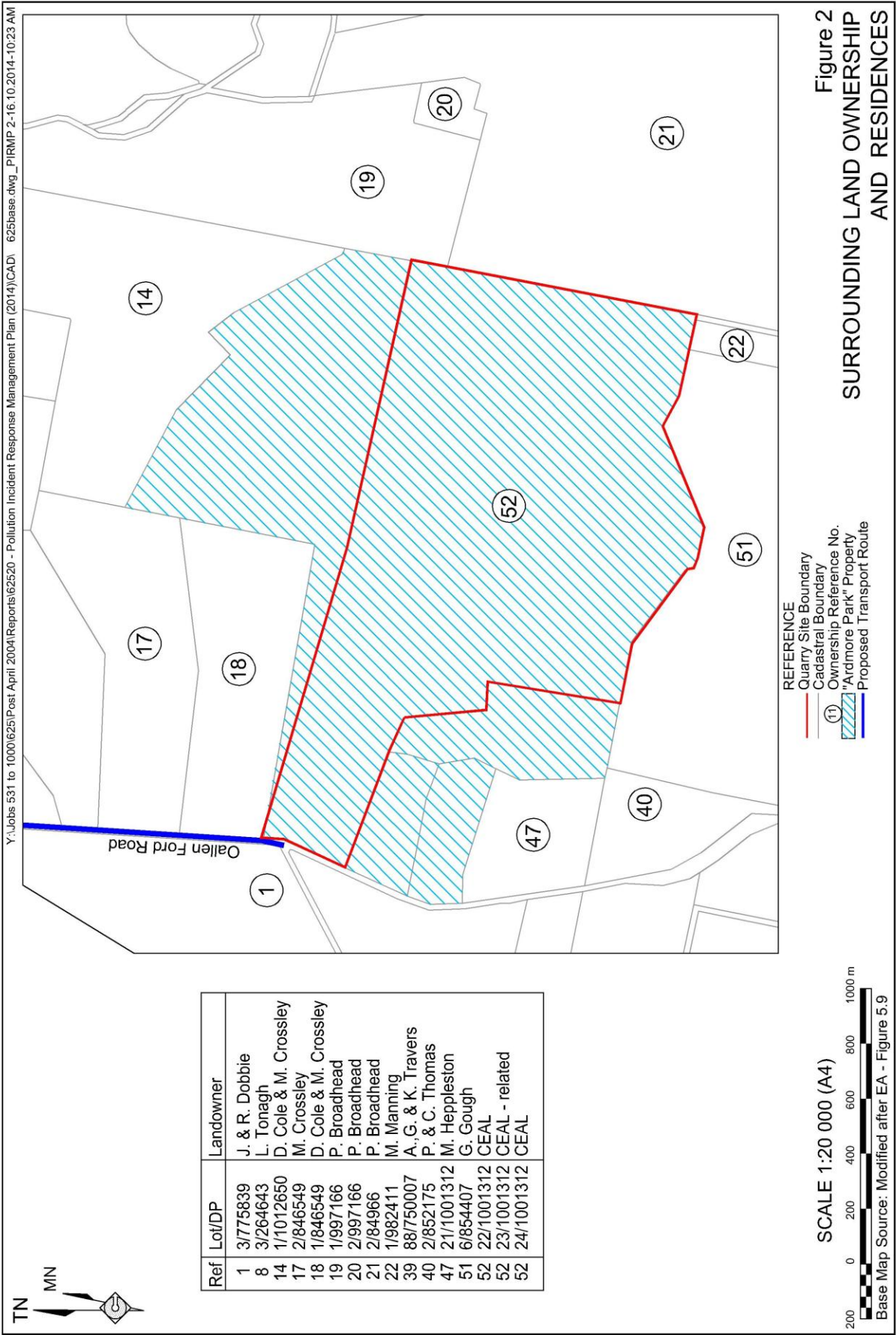


DETAIL SCALE

0 100m

Base Photo Source: Google Earth - 2 April 2014

Figure 1
SITE LAYOUT AND
LOCAL SETTING



In order that the specific requirements of Clause 98C of the POEO(G) Reg are included in the Plan, it has been prepared in accordance with the environmental guidelines *Preparation of Pollution Incident Response Management Plans 2012* issued by the EPA in March 2012 (EPA, 2012).

3. PLAN MANAGEMENT AND CONTACT DETAILS

Table 1 identifies the names, position titles and 24-hour contact details of those key individuals who are responsible for activating the plans and managing the response, authorising the notification of relevant authorities, and managing the response to a pollution incident.

Table 1
Key Contact Details and Responsibilities

Name	Position	24 Hour Contact	Role / Responsibility
Jason Mikosic	General Manager	0419 019 833	Distribution and enforcement of the Plan. Escalation from Stand-by to Call-out Phase (refer to Section 6.1) Notification of stakeholders (refer to Section 6.2).
Trevor Hoffmann	General Superintendent	0417 663 222	Assumes role of GM if unavailable. Implementation of Incident Response Procedures (refer to Section 6.3). Management of site evacuation (refer to Section 6.4).

4. OBJECTIVES AND OUTCOMES

Table 2 presents the objectives and key performance outcomes nominated by the Licensee for the Plan.

Table 2
Objectives and Key Performance Outcomes

OBJECTIVES	KEY PERFORMANCE OUTCOMES
(a) Minimise and control the risk of a pollution incident at the Quarry by identifying hazards, calculating risks and the developing pre-emptive measures and action plans to minimise and manage those risks.	(i) All identified preventative, management and mitigation measures implemented.
(b) Ensure that the Plan is properly implemented by trained staff, identifying persons responsible for implementing it.	(ii) All persons responsible for implementation of the Plan have been identified and arrangements for the review, testing, evaluation and maintenance of the Plan developed.
(c) Ensure that the Plan is regularly tested for accuracy, currency and suitability.	(iii) Arrangements for the review, testing, evaluation and maintenance of the Plan implemented.
(d) Ensure comprehensive and timely communication about a pollution incident to staff at the Quarry, the Environment Protection Authority (EPA), other relevant authorities and people outside the Quarry who may be affected by the impacts of the pollution incident.	(iv) All warning systems for people at the Quarry, the relevant agencies and the public implemented in the event of a pollution incident identified in the Plan as requiring notification.

5. POTENTIAL HAZARDS

5.1 DESCRIPTION OF HAZARDS

A **hazard** is any source, situation or condition of potential damage, harm or adverse health effects on someone, something or the environment under certain conditions. A Pollution Hazard relates to the source, situation or condition in which spillage, leakage or emission of a hazardous material or other contaminant causes harm or adverse effects (to individuals as health effects, to organisations as property or equipment losses, or to the environment).

The Licensee has completed an environmental risk review to identify the potential pollution hazards currently present at the Quarry, the relevant sources, situations or conditions that would result in pollution and the existing (pre-emptive) controls that are in place to reduce the likelihood of a pollution incident. **Table 3** presents the results of this risk assessment with respect to the three primary pollution hazards of the Quarry.

- Diesel Storage, Use and Transfer.
- Herbicide Storage and Use.
- Sedimentation of local watercourses.

No other hazardous materials or other chemicals / pollutants are stored or utilised at the Quarry.

5.2 PRE-EMPTIVE ACTIONS

The pre-emptive mitigation and management measures that have been implemented to prevent the occurrence of, or minimise the impact of pollution incidents are also identified in **Table 3**.

5.3 INVENTORY OF POTENTIAL POLLUTANTS

Currently no hazardous material or other chemicals / pollutants are stored or utilised at the Quarry. As production from the Quarry increases, diesel fuel, engine oils and hydrocarbon based lubricants will be stored at the Quarry. **Table 4** provides a preliminary inventory of chemicals and potential pollutants that will be stored, classification, purpose, method of delivery and storage location. This inventory will be regularly updated as new chemicals of potential pollutants are used or stored on the Quarry site.

Figure 1 identifies the layout of the Quarry, identifying the storage locations referenced in **Table 4**.

Table 3
Identified Pollution Hazards of the Quarry

Hazard	Environmental Impact			Comments / Potential Impacts	Risk Rating	Pre-emptive Controls	Residual Risk
	A	W	S				
Diesel Storage, Use and Transfer	X	X	X	Large quantity of diesel to be kept on site. Should there be a large diesel spill, it can penetrate soil and contaminate groundwater. Product floats on water and may affect the oxygen transfer and damage organisms. Product is flammable and when burnt, produces carbon dioxide/monoxide and oxides of nitrogen plus other substances. Product is a hazardous substance. Diesel exhaust fumes considered a carcinogenic substance.	High	<ul style="list-style-type: none"> Product stored according to Australian Standards 1940 - 1993. This includes provisions for fire prevention, barriers and bunds, ventilation considerations and appropriate signage. Administrative controls in place in regards the use of diesel. Spill kits to be maintained at the Quarry. PPE provided according to the recommendations in the MSDS. Exposure to exhaust minimal (work in well ventilated areas). 	Low
Herbicide Storage and Use		X	X	Small amounts kept on site (for general property management). When released to the environment, toxic to plant life and aquatic biota. Accumulation in soil can affect future plant growth.	Moderate	<ul style="list-style-type: none"> Products stored within secure shed with roof. Products only used for weed control. Products used in accordance with product directions. Areas within 50m of flowing water excluded from weed spraying. Appropriate PPE provided for use. 	Low
Sedimentation of local watercourses	X	X	X	During initial Quarry development and construction works, runoff over disturbed ground may displace and carry elevated concentrations of soil and other solids.. Elevated sediment loads can reduce oxygen levels of water courses and inhibit plant growth. Sedimentation may remove valuable soil resources from the Quarry. Resettled sediment may generated dust as a result of wind erosion.	High	<ul style="list-style-type: none"> Quarry operated in accordance with an Erosion and Sediment Control Plan prepared in accordance with "Managing Urban Stormwater: Soils and Construction" Vol. 1 (Landcom, 2004) and Vol. 2E (DECCW, 2008). Water quality monitoring undertaken in accordance with a Water Management Plan. 	Low
A = Air W = Water S = Soil							

Table 4
Inventory of Pollutants

Chemical/Product Name	Classification	Delivery Method	Storage Location ¹
Diesel	Hazardous	Road - under licence	1. Self-bunded tank adjacent to Storage Shed (5 000L) 2. Fuel Farm (20 000L)
Hydraulic oil and lubricants	Hazardous	Road - under licence	Bunded pallets adjacent to Storage Shed
Glyphosphate based Herbicide	Hazardous	Road - ad hoc	Storage Shed
Note 1: Refer to Figure 1			

5.4 SAFETY EQUIPMENT AND PROCEDURES

The following identifies the safety equipment and procedures that will be used or implemented to minimise the risks to human health or the environment and to contain or control a pollution incident is required.

- **Diesel Storage:**
 1. Self bunded 5 000L tank adjacent to Storage Shed.
 2. 20 000L Tank: constructed and maintained in accordance with Australian Standards 1940 – 1993 within Fuel Farm.
- **Spill kits:** containing spill socs, pads and pillows (for perimeter containment); coveralls, gloves, safety goggles and glasses (for safe work); and disposable bags (for removing waste). Maintained within fuel farm and within selected quarry vehicles
- **Personal Protective Equipment:** requirements are identified and enforced.
- **Pollution Incident Response Procedures (PIRP):** prepared and implemented for identified hazards and potential incidents.
- **Job Safety Analysis (JSAs):** are prepared for potentially hazardous activities.
- **Inductions:** are held for new employees and includes instructions as to safe work practices when using or managing hazardous chemicals and potential pollutants.
- **Material Safety Data Sheets (MSDS):** are retained with the chemicals and within a Hazardous Materials Register.

6. POLLUTION INCIDENT MANAGEMENT

6.1 POLLUTION INCIDENT RESPONSE (GENERAL MANAGEMENT AND ACCOUNTABILITY)

In the event of a pollution incident, the response will be managed in accordance with the following five phases.

1. **Alert Phase:** Monitor any incident with the potential to result in pollution.
2. **Stand By Phase:** Prepare to implement the appropriate pollution incident response procedure should the incident escalate and trigger as a notifiable pollution incident.
3. **Call Out Phase:** Activate the relevant notification (Section 6.2) and incident response procedures (Section 6.3).
4. **Clean Up Phase:** Clean-up any residual contamination / stabilisation of soil materials once the area is declared safe.
5. **Stand Down Phase:** Incident response completed. Implement a de-briefing and review of the implementation of the notification (Section 6.2) and incident response procedures (Section 6.3).

Table 5 presents the responsibilities of the workforce in the implementation of these five phases. It is noted that the General Manager or General Superintendent may nominate a delegated supervisor to manage the incident response. The delegated supervisor, if required, would be nominated during the alert phase.

Table 5
Key Management Responsibilities

Page 1 of 3

Position	PHASE	RESPONSIBILITY
General Manager	General	<ul style="list-style-type: none"> • Ensure adequate resources are available to enable implementation of the Plan. • Ensure Plan evaluation and continual improvement is implemented. • Ensure appropriate personnel training and awareness programs are implemented. • Ensure that the Plan is reviewed and tested every 12 months. • Ensure a hard copy of the Plan is retained on site.
	Alert	<ul style="list-style-type: none"> • Determine need for the appointment of a delegated supervisor to respond to the incident. • Inspect site of potential pollution incident (or delegate to General Superintendent). • Ensure available resources are available to implement the Plan, e.g. mobile equipment, water supply, personnel. • Maintain communication with the General Superintendent for the incident management to ensure progression between incident phases is appropriate.

Table 5 (Cont'd)
Key Management Responsibilities

Page 2 of 3

Position	PHASE	RESPONSIBILITY
	Stand By	<ul style="list-style-type: none"> Advise appropriate personnel of the incident. Advise personnel to be on stand by for implementation of incident management (notification, response management and/or clean up procedures).
	Call Out	<ul style="list-style-type: none"> Determine if the event is a 'Notifiable Incident', i.e. likely to result in 'material harm to the environmental' (refer to Dictionary, p. ix). Approve the activation of the relevant notification (Section 6.2) and response management (Section 6.3) procedures of the Plan. Ensure that perimeters are established and access to the site is controlled. Maintain communication with the General Superintendent or delegated supervisor of the incident and coordinate activities and resources. Determine the priority of actions of employees until agencies and emergency services arrive. Approve the implementation of additional or escalated response measures on advisement from the delegated supervisor of the incident.
	Clean Up	<ul style="list-style-type: none"> Ensure adequate resources are available to undertake clean-up. Inspect and provide confirmation that the affected area is safe.
	Stand Down	<ul style="list-style-type: none"> Ensure Incident Report Form completed and actioned. Give direction for a de-briefing and review of the notification, response management and evacuation procedures of the PIRMP.
General Superintendent	General	<ul style="list-style-type: none"> In the absence of the Managing Director, assume or delegate responsibilities.
	Alert	<ul style="list-style-type: none"> As soon as aware, advise the General Manager of a pollution incident.
	Stand By	<ul style="list-style-type: none"> Monitor the identified incident. Under delegation by the General Manager, advise appropriate site personnel of the incident.
	Call Out	<ul style="list-style-type: none"> If not initiated by plant operators, initiate incident response. Complete the appropriate notification (see Section 6.2). Approve additional response management procedures of the Plan of relevant Pollution Incident Response Plan (PIRP) (refer to Appendices) Monitor the response to the incident and provide advice to the General Manager on the escalation of response as required. Provide owners and occupiers of land updates of any incidents affecting their land as required (see Section 6.2).
	Clean Up	<ul style="list-style-type: none"> Under delegation from the General Manager, direct the incident clean up of the incident and assess and identify when the affected area(s) is/are safe.
	Stand Down	<ul style="list-style-type: none"> Review Incident Report Form and ensure completed correctly. Coordinate and manage de-briefing and review as directed by the General Manager.

Table 5 (Cont'd)
Key Management Responsibilities

Page 3 of 3

Position	PHASE	RESPONSIBILITY
All Personnel	General	<ul style="list-style-type: none"> Ensure incident training is undertaken and responsibilities understood.
	Alert	<ul style="list-style-type: none"> As soon as aware, advise the General Superintendent of a pollution incident. Instigate initial spill response, e.g. use of spill containment materials from spill kit, turn off source of leak, as necessary to control and spill.
	Stand By	<ul style="list-style-type: none"> Follow instructions provided by the General Superintendent or delegated supervisor of the incident.
	Call Out / Clean Up	<ul style="list-style-type: none"> Implement spill response procedures Evacuate the site if instructed. Undertake response under instruction from the General Superintendent or the delegated supervisor of the incident.
	Stand Down	<ul style="list-style-type: none"> Complete and submit an Incident Report Form. Attend incident de-briefing and review as directed by the General Superintendent.

6.2 INCIDENT NOTIFICATION

6.2.1 Notifiable Incidents

During the Call-out phase, the General Manager, General Superintendent or delegated incident supervisor is required to determine whether the incident classifies as a 'Notifiable Incident', i.e. an incident likely to result in 'Material Environmental Harm'. As identified in the Dictionary (p. ix), 'Material Environmental Harm' is defined by Clause 147 of the *Protection of the Environment Operations Act 1997* as occurring 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).

Any incident related to a breach of containment of the three pollution hazards identified in Section 5.1 and **Table 3** will be considered a 'Notifiable Incident', unless further justification can be provided. The judgement of the General Manager will be applied for other incidents.

6.2.2 Notification Protocol

Table 6 presents the notification protocol, developed with reference to "*Protocol for industry notification of pollution incidents*"¹, to be followed in the event that a notifiable pollution incident occurs.

¹ <http://www.environment.nsw.gov.au/pollution/notificationprotocol.htm>

Table 6
Government Agency Notification Protocol

Trigger	Agency	Timing	Contact Details
An incident that presents an immediate threat to human health or property.	Fire and Rescue NSW NSW Police NSW Ambulance Service	Immediately	Call 000
An incident that does not require an initial combat agency or following initial contact with emergency services.	1. Environment Protection Authority	Immediately (or following emergency service contact)	Environment Line 131 555
	2. Ministry of Health		02 9391 900 (Sydney Office); or 02 4827 3111 (Goulburn Base Hospital) / 02 6080 8900 (After Hours) Ask for Public Health Officer on call
	3. WorkCover Authority		13 10 50
	4. Goulburn Mulwaree Council		8:30am - 4:30pm: 02 4823 4444 After Hours: 02 4822 1080

Complying with these notification requirements does not remove the need to comply with any other obligations for incident notification, for example, those that apply under other environment protection legislation or legislation administered by WorkCover.

Table 7 identifies the neighbouring land holders and notification protocol to be followed in the event that a notifiable pollution incident occurs. Telephone numbers for each land owner are held by the General Manager and within a register maintained at the Quarry.

Table 7
Land Owner Notification Protocol

Reference ¹	Name	Lot/DP	Notification Procedures
1	J. & R. Dobbie	3/775839	<ol style="list-style-type: none"> 1. If pollutant has, or has the potential to impact either directly or indirectly on property, call to advise of incident and alert as to any potential hazards or impacts on livestock or water supply. 2. Nominate incident response in place and any associated hazards. Nominate schedule for implementation of incident response and clean-up. 3. Following completion of incident clean up and stand down phases, contact the land owner to confirm incident over. Request feedback on incident management. 4. Provide advice on request as to any procedural improvements relevant to the incident.
14 & 18	D. Cole & M. Crossley	1/1012650 1/846549	
17	M. Crossley	2/846549	
19-21	P. Broadhead	1/997166 2/997166 2/84966	
22	M. Manning	1/982411	
40	P. & C. Thomas	2/852175	
47	M. Heppleston	21/1001312	
51	G. Gough	6/854407	

6.3 INCIDENT RESPONSE PROCEDURES

The Licensee maintains pollution incident response procedures (PIRP's) specific to the pollution incidents identified in **Table 3**. Where the practical response to pollution incidents is the same, only one PIRP has been prepared. The following PIRP's have been prepared for the Quarry.

- Hydrocarbon Spill PIRP (PIRP 1).
- Uncontrolled Stormwater Discharge PIRP (PIRP 2).

The PIRP's are 'live' documents in that they are subject to continual review and will be updated as required to ensure that response to pollution incidents are continually improved. In order to ensure that the superseded versions of each PIRP are not inadvertently referenced in the event of a pollution incident, hard copies are not appended to this document. Rather, these are available on the internal document management system.

As a PIRP is updated, the superseded version will be destroyed.

6.4 EVACUATION PLAN

The Quarry evacuation procedure is as follows.

1. In an emergency evacuation situation, the nominated on-site safety officer will sound the evacuation horn.
2. Upon hearing the horn, all personnel will proceed to the nearest Emergency Assembly Point.
3. Once mustered at these points, all personnel are to await the instructions of either the General Superintendent or safety officer.

7. PLAN EVALUATION AND REVIEW

7.1 EVALUATION

During the "Stand Down" phase or within 14 days of the pollution incident response (including testing of the Plan) a debriefing of all relevant personnel will be undertaken to determine the lessons learned from the operation.

- The de-briefing will include a meeting with the relevant personnel involved in the incident to collate any comments, issues and views on any changes that could be implemented to improve emergency and incident response procedures within the Plan.
- The General Manager or General Superintendent will be responsible for the co-ordination of any de-briefing following a pollution response incidence.

7.2 CONTINUAL IMPROVEMENT

All information and comments compiled from the debriefing will be assessed and reviewed to determine the areas of improvement and the updating and implementation of new procedures to improve the outcomes of any pollution incident response for the Quarry.

- The General Superintendent, if appointed, will be responsible for recommending improvements to the General Manager.
- The General Manager will be responsible for the approval of the recommended improvements and / or determining any required improvements.
- All personnel will be responsible for the implementation of the recommended improvement and continual improvement in performance at the Quarry.

7.3 TESTING OF POLLUTION INCIDENT RESPONSE

This Plan will be tested at least once every 12 months to determine whether the Plan is accurate and up-to-date and is capable of being implemented in a workable and effective manner.

The General Manager will be responsible for the testing of the Plan.

7.4 COMPETENCY TRAINING

Training is to be provided to all personnel on an as needs basis. Specific training related to the Plan and implementation of emergency (incident response) procedures will include.

- The need to report the intended use of any chemicals on site, such as herbicides, and awareness of how they could impact the environment and personal safety.
- Pollution incident management, including roles and responsibilities when responding to an incident.
- Incident reporting requirements.

The General Manager or their delegate will be responsible for ensuring the appropriate training is included in a site induction and revised every 12 months to ensure skills are updated.

7.5 POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN REVIEW

The Plan will be reviewed:

- after each test or actual incident;
- in the event that deficiencies are identified;
- as roles and responsibilities of personnel change;
- in the event of legislative changes; and/or
- every 12 months.

The General Manager will be responsible for the Plan review.



This page has been intentionally left blank

