

Pollution Incident Response Management Plan



Dunmore Quarry

Version 19: April 2024

1. DOCUMENT CONTROL SHEET

Version	Date	Prepared By	Approved By	Revision Details
01	20 Aug 2012	Rod Johnson	Rod Johnson	Document Created
02	21 Nov 2012	Philip Paterson	Rod Johnson	Document control sheet added Incidents updated
03	12 Apr 2013	Ronnie Lawton	Rod Johnson	Format Changes Added additional maps Chemical volumes stored onsite added
04	28 Aug 2013	Mel Goodall	Rod Johnson	Incidents updated Pit area added to map Contacts updated to reflect staff changes
05	01 Sep 2014	Phil Paterson	Rod Johnson	Contacts updated to reflect staff changes Format Changes Added Additional maps
06	25 Sept 2015	Phil Paterson	Rod Johnson	Contacts updated Format changes
07	7 Oct 2016	Ronnie Lawton	Brodie Bolton	Contacts updated Format changes Updated incident #5 and #10 response actions
08	24 Jan 2017	Ronnie Lawton	Glenn Troy	Contacts updated
09	14 June 2017	Ellie Randall	Glenn Troy	Contacts updated
10	3 August 2017	Ellie Randall	Glenn Troy	Incident Updates
11	21 May 2018	Ben Williams	Dylan Treadwell	Contacts Updated
12	30 Oct 2018	Ben Williams	Brodie Bolton	Updated based on feedback from EPA
13	26 Aug 2019	Ben Williams	Rod Johnson	Updated based on new PIRMP template. Incident list refined
14	4 Dec 2019	Ben Williams	Rod Johnson	Incorporate Concrete Batching Plant into document
15	1 Dec 2020	Ben Williams	Brodie Bolton	Insert compliance table into Appendix to reflect EPA PIRMP Guidelines March 2020
16	17 Nov 2021	Ben Williams	Brodie Bolton	Update PIRMP Drill table Update contacts
17	1 Aug 2022	Geoff Stephens	Geoff Stephens	Update contacts
18	14 March 2023	Matt Bray	Glenn Lowerson	Update contacts Change position titles
19	April 2024	Matt Bray	Glenn Lowerson	Annual update post drill

Current Revision	Date Implemented	PIRMP Test Schedule	Date for Next Review
19	April 2024	12 months	2025



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PART A

2. PURPOSE

The purpose of the Dunmore Quarry Pollution Incident Response Plan is to:

- Provide direction to the staff at Dunmore Quarry in responding to pollution incidents at the Dunmore operations including the Dunmore Concrete Batching Plant (DCBP);
- Ensure timely communication about a pollution incident is provided to staff at the premises, the Environment Protection Authority (EPA), other relevant authorities specified in the Protection of the Environment Legislation Amendment Act (POELA Act) (including Shellharbour City Council, NSW Ministry of Health, Safework NSW, and Fire and Rescue NSW) and persons outside the operations who may be affected by the impacts of a pollution incident **that is not trivial**;
- Minimise and control the risk of a pollution incident at Dunmore Quarry by identifying key risks and planned actions to minimise and manage those risks;
- Detail the training requirements for this plan, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

3. LEGISLATIVE REQUIREMENTS

The specific requirements for a Pollution Incident Response Management Plan (PIRMP) are set out in Part 5.7A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO(G) Regulation). Part 3A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO(G) Regulation) describes specific components and requirements of a PIRMP. Table 1 summarises the location of these requirements in the document.

Table 1: Summary of Legislative Requirements of a PIRMP

Section/Clause	Requirement	Location in PIRMP
Part 5.7A POEO Act 1997		
147	(1) For the purposes of this Part— (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	Section 4

	<p>(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.</p> <p>(2) For the purposes of this Part, it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs.</p>	
153A	The holder of an environment protection license must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the license relates.	EPL 77 and this document
153C	<p>A pollution incident response management plan must be in the form required by the regulations and must include the following—</p> <p>(a) the procedures to be followed by the holder of the relevant environment protection licence, or the occupier of the relevant premises, in notifying a pollution incident to—</p> <p>(i) the owners or occupiers of premises in the vicinity of the premises to which the environment protection licence or the direction under section 153B relates, and</p> <p>(ii) the local authority for the area in which the premises to which the environment protection licence or the direction under section 153B relates are located and any area affected, or potentially affected, by the pollution, and</p> <p>(iii) any persons or authorities required to be notified by Part 5.7,</p> <p>(b) a detailed description of the action to be taken, immediately after a pollution incident, by the holder of the relevant environment protection licence, or the occupier of the relevant premises, to reduce or control any pollution,</p> <p>(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,</p> <p>(d) any other matter required by the regulations.</p>	<p>Section 9 and 10</p> <p>Section 5</p> <p>Section 8, 9, 10, 11 and 18, Figures 4-8.</p> <p>Table 9-11, Section 8, 9, 10,11 and 18</p> <p>Table 9-11</p> <p>Section 8, 9, 10 ,11 and 18</p> <p>Section 10, 17</p>
153D	A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is kept at the premises to which the relevant environment protection license relates, or where the relevant activity takes place, and is made available in accordance with the regulations.	Section 2
153E	A person who is required to prepare a pollution incident response management plan under this Part must ensure that it is tested in accordance with the regulations	Section 12,13
153F	If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147) is caused or threatened, the person carrying on the activity must immediately implement any pollution incident response management plan in relation to the activity required by this Part	Section 4, Table 9-11
<p>Part 3A POEO(G) Regulation 2009 Pollution Incident Response Management Plans note: See also 153C (a)-(c) of the POEO Act 1997</p>		

98C(1) (a)	A description of the hazards to human health or the environment associated with the activity to which the license relates,	Table 2, Table 8
98C(1) (b)	The likelihood of any such hazards occurring, including details of any conditions or events that could, or would, increase that likelihood,	Table 8
98C(1) (c)	Details of the pre-emptive action to be taken to minimise or prevent any risk of harm to human health or the environment arising out of the relevant activity	Section 11, Table 2, 8, 9 -11
98C(1) (d)	An inventory of potential pollutants on the premises or used in carrying out the relevant activity	Table 2
98C(1) (f)	A description of the safety equipment or other devices that are used to minimise the risks to human health or the environment and to contain or control a pollution incident,	Table 2, Figure 4-8
98C(1) (g)	the names, positions and 24-hour contact details of those key individuals who: <ul style="list-style-type: none"> I. are responsible for activating the plan, and II. are authorised to notify relevant authorities under section 148 of the Act, and III. are responsible for managing the response to a pollution incident, 	Section 9, 18
98C(1) (h)	the contact details of each relevant authority referred to in section 148 of the Act,	Section 11, 18
98C(1) (i)	Details of the mechanisms for providing early warnings and regular updates to the owners and occupiers of premises in the vicinity of the premises to which the license relates or where the scheduled activity is carried on	Section 11, Table 9-11
98C(1) (j)	The arrangements for minimising the risk of harm to any persons who are on the premises or who are present where the scheduled activity is being carried on	Section 11, Table 2, 8, 9-11
98C(1) (k)	A detailed map (or set of maps) showing the location of the premises to which the license relates, the surrounding area that is likely to be affected by a pollution incident, the location of potential pollutants on the premises and the location of any storm water drains on the premises	Figure 1, Figure 4-8
98C(1) (l)	A detailed description of how any identified risk of harm to human health will be reduced, including (as a minimum) by means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce that risk,	Section 11, Table 8, 9-11
98C(1) (m)	The nature and objectives of any staff training program in relation to the plan	Section 12
98C(1) (n)	The dates on which the plan has been tested and the name of the person who carried out the test,	Table 7
98C(1) (o)	The dates on which the plan is updated,	Section 1
98C(1) (p)	The manner in which the plan is to be tested and maintained.	Section 12, 13, 14

4. DEFINITION OF A 'POLLUTION INCIDENT'

The definition of a pollution incident is:

“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.

Dunmore Quarry is now required to report **non-trivial** pollution incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, Safework NSW and the local council.

5. SCOPE

This PIRMP must be followed by employees, contractors and visitors of Dunmore Quarry, to assist in the early response to, and reporting of, a pollution incident.

6. SITE LAYOUT

The overall site layout of Dunmore Quarry and DCBP is shown in Figure 1 and 2 below. Please note that Part B of this PIRMP contains detailed maps which describe the important details for each pollution incident scenario.



Figure 1 Dunmore Quarry Site Layout

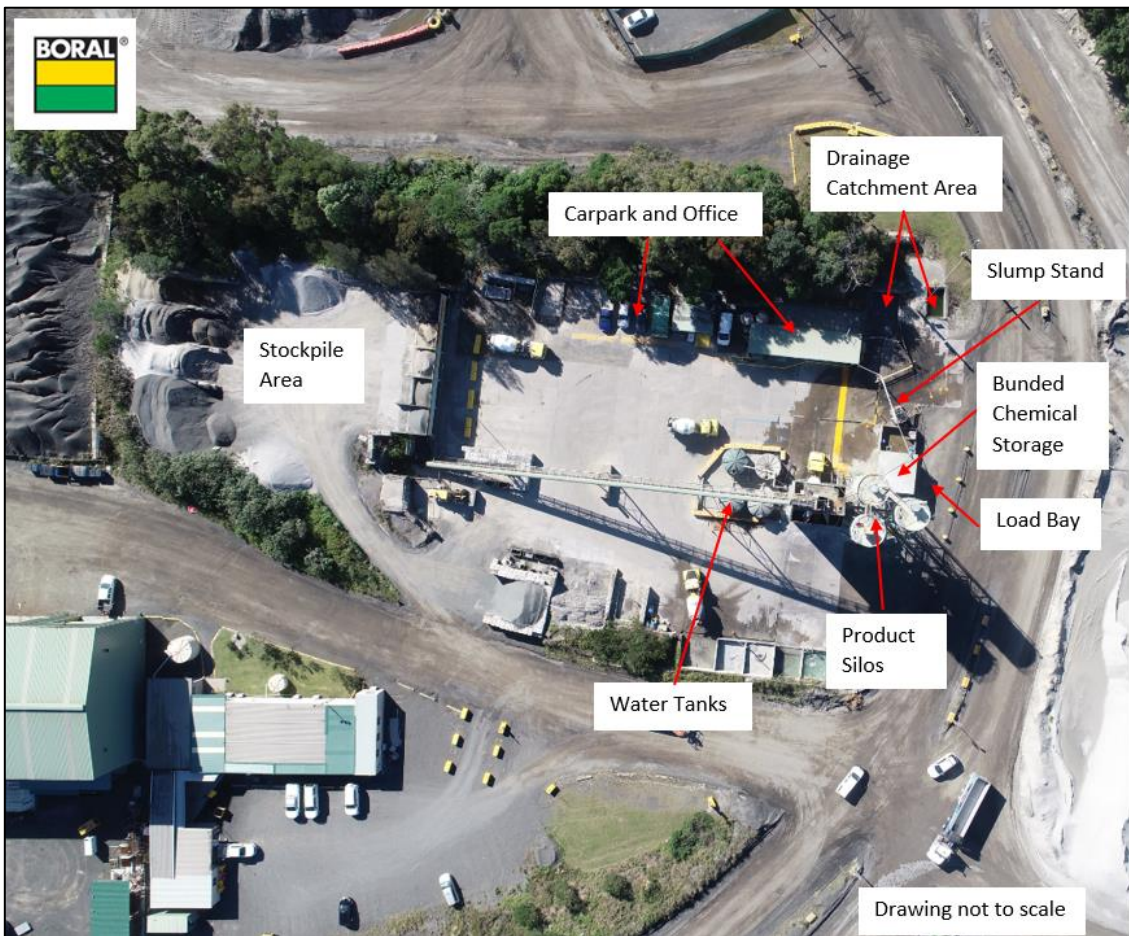


Figure 2 Dunmore Concrete Batching Plant Site Layout

7. POTENTIAL POLLUTING SUBSTANCES

Table 1 below is an inventory of potential pollutants kept on the premises. This inventory provides a description of the main hazards to human health or the environment, an assessment of the likelihood of the hazards occurring and also includes the current controls and safety equipment and/or pre-emptive actions in place to minimise or prevent risk of harm to human health or the environment.

Table 2: Inventory of Potential Polluting Substances Initial Assessment (clause98C (1) (d) & (e))

LIST OF POLLUTING SUBSTANCE STORAGES/USES AT SITE: INITIAL ASSESSMENT (all Chemicals listed in this sheet are to be subjected to a risk assessment located in Appendix A)							
Site Name: Dunmore Quarry					Responsible Person: Brodie Bolton		Date: 17/11/21
Description of Hazard	Covered under Haz Chemicals /MSDS?	Estimated Amount stored (amounts vary depending on operations)	Location of storage	Map reference	Likelihood of Impact on neighbours	Current controls/safety equipment (Pre-emptive Actions)	See Risk Ass & PIRMP Response Action (see Below)
CHEMICALS/FUELS/LUBRICANTS (diesel, oils, lubricants etc.)							
Uncontrolled loss of diesel or other hydrocarbon products that could result in material harm to the environment or human health	Class 3 & Class 2	Diesel Storage 54,500L Waste Oil 3,000L Packaged Oils 3,000L Lubricant, gases 3000L Admixture Chemicals (DCBP) 4500L	Diesel storage tank at Go-line and Workshop Admixture stored in bunded container in DCBP	Figure 2,3,4,5 and 6, 7	LOW Only if substances enter waterways and are transported off-site	<ul style="list-style-type: none"> • Self-bunded tank • Bunding • Lined filling area • PMP • Training • Spill kits • Flammable cabinets • SOP's • Inductions • Firefighting equipment • Security 	Incident #1
AIRBOURNE DUST (e.g. stockpiles, silos, Haul Roads etc.)							
Excessive airborne dust from stockpiled material, mobile plant or traffic areas causing material harm to the environment or significant	N/A	Dust Stockpile , Silo and haul roads 3 silos (DCBP) Shrinkage Limited 85t Slag 85t Flyash 66t	Dedicated on-site stockpile areas	Figure 8,9	LOW Only if excessive dust is spread off-site during high winds	<ul style="list-style-type: none"> • Water sprays • Water cart • Maintain manageable levels • Security • Reduced speed 	Incident #2

LIST OF POLLUTING SUBSTANCE STORAGES/USES AT SITE: INITIAL ASSESSMENT

(all Chemicals listed in this sheet are to be subjected to a risk assessment located in Appendix A)

Site Name: Dunmore Quarry						Responsible Person: Brodie Bolton	Date: 17/11/21
Description of Hazard	Covered under Haz Chemicals /MSDS?	Estimated Amount stored (amounts vary depending on operations)	Location of storage	Map reference	Likelihood of Impact on neighbours	Current controls/safety equipment (Pre-emptive Actions)	See Risk Ass & PIRMP Response Action (see Below)
impact to community							
AQUEOUS (e.g. dams, wastewater tanks, other water storage area)							
Uncontrolled release of sediment laden water from storage dams causing material harm to the environment	TSS, EC	Lower Dam: 14ML storage capacity Middle Dam:120ML storage capacity 12ML sediment treatment volume Croome Sumps: 40ML sediment treatment volume 5-10ML. (DCBP) 3 recycled water tanks 30,000L each 1 fresh water 27,000L	Lower Dam, Middle Dam and Croome Sumps Water storage tanks (DCBP)	Figure 10	LOW Only if excessive sediment enters waterways and is transported off-site during significant rain events	<ul style="list-style-type: none"> Continue to use for dust suppression Ensure pumps are maintained through scheduled maintenance Discharge monitoring Straw bales Rubber and earthen berms Audits and inspections 	Incident #3
FUMES (substances relating to blast fume from explosives)							
Excessive blast fume from blasts causing significant and unexpected impact to the community	N/A	Blast fume containing NOX, SOX	Active production pit area onsite	Figure 11,12	LOW Only if explosives are dormant for excessive periods of time and exposed to water during blasting and prevailing winds push fumes towards community	<ul style="list-style-type: none"> Blast Management Plan Procedures/Training PMP Don't sleep shots for excessive periods (i.e. 7 days) Avoid loading wet holes 	Incident #4



LIST OF POLLUTING SUBSTANCE STORAGES/USES AT SITE: INITIAL ASSESSMENT (all Chemicals listed in this sheet are to be subjected to a risk assessment located in Appendix A)							
Site Name: Dunmore Quarry						Responsible Person: Brodie Bolton	Date: 17/11/21
Description of Hazard	Covered under Haz Chemicals /MSDS?	Estimated Amount stored (amounts vary depending on operations)	Location of storage	Map reference	Likelihood of Impact on neighbours	Current controls/safety equipment (Pre-emptive Actions)	See Risk Ass & PIRMP Response Action (see Below)

8. ROLES AND RESPONSIBILITIES

Table 3: Site Personnel Roles and Responsibilities

Position	Responsibility
<i>Employees and Contractors</i>	<p>Following the procedures outlined in the PIRMP and related documents</p> <p>Immediately alerting Supervisor or Team Leader of any environmental incidents or near-misses.</p>
<i>Team Leaders / Front Line Supervisors</i>	<p>Following the procedures outlined in the PIRMP and related documents (HSEQ MS 3-02)</p> <p>Immediately alerting Site/Quarry Manager or, in case of their unavailability, Environment and Stakeholder Advisor of any potential environmental incidents or near-misses.</p> <p>Assist in conducting incident investigations</p>
<i>Site / Operations Manager and/or Site Environment and Stakeholder Advisor</i>	<p>Authorisation of the PIRMP</p> <p>Administration, maintenance and implementation of the PIRMP</p> <p>Assessing whether the incident is non-trivial and has caused or threatens “material environmental harm” and communicate details to management</p> <p>Providing direction and advice on incident response</p> <p>Coordinating communication to neighbours through Stakeholder Relations Manager</p> <p>Ensuring that investigations are undertaken to a level corresponding to the level of risk and impact.</p>
<i>Senior Health and Safety Business Partner and/or NSW Senior Environment Business Partner</i>	<p>Make a determination as to whether the incident (as defined in section 147 of the POEO Act) is non-trivial and therefore reportable to external agencies</p> <p>Inform Executive General Manager and Group Management of notification to External Agencies</p> <p>Undertake notifications as defined in PIRMP</p> <p>Authorise notifications to public and/or media following GRP-HSEQ-2-02</p>

9. INTERNAL POLLUTION INCIDENT REPORTING

Any pollution incident satisfying the **material harm** threshold must be immediately reported to relevant statutory authorities by either the Senior Health and Safety Business Partner, or NSW Senior Environment Business Partner.

In cases where “material harm” level cannot be immediately assessed or insufficient information comes to hand on the severity of the incident, the general advice is to err on the side of caution and notify the Relevant Authorities with a qualification that the situation could not yet be fully assessed.

Until further notice the following procedure needs to be followed:

1. When a pollution incident occurs, a person who has become aware of it must immediately bring it to the attention of his/her immediate Supervisor or Manager
2. If necessary, first ring “000” for Emergency Services
3. At least one of the following BCM personnel must be contacted **immediately**:

Table 4 Key Personnel Contact Information

Name	Function	Mobile number

Whilst personal contact details for the following are available in the Controlled on site Pollution Incident Response Management Plan they do not appear in this public document

4. Quarry Manager or in case of his unavailability one of the Senior Management personnel listed above, is to **immediately** notify the NSW Senior Health and Safety Business Partner or NSW Senior Environment Business Partner

5. NSW Senior Health and Safety Business Partner to **immediately** notify all Appropriate Regulatory Authorities specified in Section 9.
6. In borderline situations, where the exceedance of the trigger level of “material harm” of a pollution incident may not be clear, a quick assessment including consultation with Boral environmental personnel should be undertaken to help the decision whether to notify or not.
7. Boral’s Senior Management must be informed promptly of the fact of immediate notification to the Authorities. This includes environmental personnel listed above, as well as, James Collings, Angus Shedden and Greg Johnson for Quarries and/or Craig Isedale for Concrete.

10. EXTERNAL POLLUTION REPORTING

As the legislation requires that notification must be done immediately upon becoming aware of the pollution incident, it is unlikely that a detailed picture will be available for reporting. Notwithstanding, it seems that some of the Government Authorities prepared a detailed questionnaire which is being filled at the time of this initial notification. Under the stress of incident handling it could be easy to provide a hasty, inaccurate estimate of the situation when answering these questions.

Therefore, the notification should be restricted to the facts known and nothing should be assumed or guessed. The details will be provided to the asking Authority later when more information comes to hand.

The initial notification should include as much of the following information (if known) as possible:

- location and time of the pollution incident;
- type of the incident (spill, fire, unlicensed harmful discharge, etc.);
- assessed level of incident gravity: "it seems to be..." (e.g. "a relatively minor spill", "major fire", "explosion limited to one building", etc.);
- whether the Emergency Services have been required to attend.

Unless known for a fact, the answers to other questions should be politely deferred until a better assessment of the situation can be made.

The Boral person who is responsible for notifying the Authorities (NSW Senior Health and Safety Business Partner or NSW Senior Environment Business Partner) about the incident must prepare a Notification Log (a suitable form is attached in Appendix C) with the details of time of notifications and the persons who took to the call. The Authorities will generally provide an Incident Notification Number.

Notification of all Appropriate Government Authorities (at least 5 entities) may take considerable time. Delays may be experienced connecting to the right person or no contact may be possible after hours. All such instances should be recorded in the Notification Log.

11. POLLUTION INCIDENT AUTHORITY CONTACT LIST

Table 5 Pollution Incident Authority Contact List

Government Authority - compulsory notifications	Emergency notification phone number
EPA – Environment Line	131 555
Fire and Rescue NSW (FRNSW)	1300 729 579
Shellharbour City Council	4221 6111
Public Health Unit (South East Sydney / Illawarra AHS)- Wollongong SESI PHU	HealthLink (24 hr.)- 0- 1800 063 635 Head Office- Wollongong- 0- 4221 6700
Safework NSW	131050 Company ABN asked: 51 000 756 507
Government Authority - ring if relevant	Emergency notification phone number
Roads and Maritime Services (road spills)	132 701
Police & Ambulance	000
NSW Office of Water	8838 7885
Bush Fire Control Officer	1800 049 933
Poisons Information Centre	131 126
Endeavour Energy (power line emergencies)	131 003

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. Appendix B describes in the response action tables the criteria whether an incident may require community notification. If deemed necessary, Dunmore Quarry would consider the following options for providing early warning and ongoing information to the community on pollution incidents:

- Direct phone contact with any local residents directly impacted by the pollution incident using the details in Table 5 below.
- Letter Box drops of incident information and site contacts to local residents impacted by the pollution incident.

- The inclusion of incident details through the routine Community Consultative Committee meetings.

The Stakeholder Relations Manager can assist in the process of communicating with the community, as per the Stakeholder Engagement Plan for the site.

Table 6: Neighbour Notification List

Reference	Contact Name	Address	Contact Details

Whilst personal contact details for the following are available in the Controlled on site Pollution Incident Response Management Plan they do not appear in this public document

12. INCIDENT RESPONSE TRAINING

Dunmore Quarry will implement the Pollution Incident Response Management Plan by training or providing information to relevant employees and contractors in relevant areas of the Plan. The nature and objectives of staff training is to relate to site personnel the

importance of early notification of any incidents and spills to site supervisors and key personnel.

Training or information will be provided on the following:

- The contents and intent of this PIRMP;
- The roles and responsibilities of site staff in relation to this PIRMP;
- Spill response procedures;
- General environmental awareness; and / or
- Hazardous materials awareness.

Site inductions for visitors and sub-contractors also advise individuals to report any environmental incidents or spills to site supervisors and key personnel immediately. Key site personnel and supervisors participate in PIRMP Tests which are used as practical training and can also be used to identify any potential gaps or areas for improvement for the PIRMP. A summary of the PIRMP Drills undertaken at Dunmore Quarry is shown below in Table 6.

Table 7: PIRMP Drills Undertaken at Dunmore Quarry

Test Date	Version of PIRMP tested	Incident Drilled
24/04/24	V18	Incident #10 Car park/fuel tank failure
10/03/23	V17	Incident #1 Loss of fuel from mobile plant with new supervisor
25/05/21	V15	Incident #1 Loss of fuel from mobile plant with new supervisor
06/03/20	V14	Incident #1 Loss of fuel from mobile plant
26/06/19	V12	Incident #10 Car park/fuel tank failure
19/10/17	V10	Incident #3: Failure of drain valve on bund
04/10/16	V6	Incident #5: Excessive airborne dust off stockpile
01/09/15	V5	Incident #5: Airborne dust during operations in the afternoon
29/08/14	V4	Incident #7: Loss of hydraulic oil from water cart being serviced
30/08/13	V3	Incident #2: Loss of fuel while re-fueling

Please note that V13 of the PIRMP consolidated the incident list. Incident numbers may be reflective of old versions of the PIRMP.

A sign-off sheet is kept of the personnel present for the undertaking of a PIRMP Drill and a record is kept on when and how the PIRMP is communicated to employees. This information forms a section of the PIRMP Drill document.

13. PIRMP TESTING

Plans must be tested routinely 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 each plan is capable of being implemented in a workable and effective manner.

Routine testing of the PIRMP will be conducted annually, and can be completed through the following methods:

- Simulated environmental emergency drills/exercises; or
- Desktop simulations.

14. PIRMP REVIEW

Revisions are to be coordinated by the Site Manager and Environment and Stakeholder Advisor. The objectives of a review are:

- To maintain compliance with the statutory requirements; and
- To identify opportunities for improvement in the plan, and reduce the risk to human health and the environment.

14.1. EVENT BASED

Events which may trigger a review of this Plan or its associated documents include:

- Within 1 month of reporting to the nominated parties in accordance with the plan, after a pollution incident; or
- Modification/improvement to the system.

14.2. TIME BASED

Dunmore Quarry will review this management plan routinely every 12 months. The Plan review will include:



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- This Document; and
- Legislation, Approval and Licence changes.

15. APPENDIX A: RISK ASSESSMENT ON POTENTIAL IMPACTS

Table 8 Risk Assessment on Potential Impacts

Hazard and Likelihood Risk Assessment and Corrective Control Measures								
Site: Dunmore Quarry					Responsible Person: Glenn Lowerson		Review Date: 24 April 2024	
Name / ref of pollutant/chemicals	Description of Hazard / Incident leading to hazard	Consequence	Likelihood	Risk	Factors which could increase risk	Residual Risk after implementation of controls. (See Table 1 for list of current controls).	Responsible person	Action date
Diesel/Hydrocarbons	Incident #1 Uncontrolled loss of diesel or other hydrocarbon products that could result in material harm to the environment or human health	1	1	L1	Dry, windy conditions (increase fire danger) or heavy rain/flood conditions (will increase potential for spill to spread to catchment drainage areas)	Consequence: (Minor): Failure resulting in loss of all or substantial volume of tanks would be captured entirely by existing primary bund with no release to soil or water. Likelihood: (Unlikely): Diesel tanks are self banded double walled fuel tanks. Due to location of tank, damage to tanks is unlikely to occur from external equipment. In addition tanks are maintained in good structural integrity with low risk of failure through corrosion. Drain valve, hoses and refuelling equipment are maintained in good structural integrity with low risk of failure The drain valve is locked at all times.	As per PIRMP action plan	When required
Airborne dust	Incident #2 Excessive airborne dust from stockpiled material, mobile plant or traffic areas causing material harm to the environment or significant impact to community	1	1	L1	Dry, windy conditions (increase wind erosion and dust transport). Summer months with long periods of extended dry conditions.	Consequence: (Minor): Excessive dust from stockpile during high winds causing nuisance to surrounding area. Likelihood: (Unlikely): Stockpiles are maintained to a manageable level on a monthly basis. Use of water sprinklers and water cart onsite during windy periods. Extensive land reserves act as buffer land from surrounding communities. Surrounding land is rural with sparse distribution of neighbours.	As per PIRMP action plan	When required
Sediment laden stormwater	Incident #3 Uncontrolled release of sediment laden water from storage dams causing material harm to the environment	1	2	L2	Extended periods of rain increase the risk. Late Summer/early Autumn is typically the wettest part of the year on site.	Consequence: (moderate): Failure of one or more sediment dams are likely to result in off-site impacts to water courses which would predominantly reduce water quality over a short period of time. As such, impact to the environment/human health is not considered to be significant. Likelihood: (unlikely): Dams are frequently monitored and inspected for levels and integrity. Risk Assessment = Moderate Vs Unlikely = L (2) Note: For PIRMP purposes overflow events during extreme wet weather will be reported under POEO Licence obligations and not Immediate Reporting.	As per PIRMP action plan	When required
Blast fume	Incident #4 Excessive blast fume from blasts causing significant and unexpected impact to the community	1	1	L1	Windy conditions will increase potential for blast fume to leave site. Excessive periods of sleeping shots (>7 days) loading into wet holes	Consequence: (minor): Blast fume would be localised and dispersed with high winds, of short duration and not cause long term impacts. Likelihood: (unlikely): Blast Management Plan in place to reduce the likelihood of shots being slept for extended periods of time and not loaded into wet holes.	As per PIRMP action plan	When required



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PART B

16. PART B: PIRMP RESPONSE ACTIONS AND MAPS

Table 9: Incident #1 Diesel/hydrocarbon Spill Response Actions

Incident #1	<p>Uncontrolled loss of diesel or other hydrocarbon products that could result in material harm to the environment or human health. See Figure 3 and 4 and 5</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Ensure bund/liner are capturing full volume of diesel • Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections) • Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump-out bund contents • Area to be restricted to Incident Response Personnel • Ensure spill kit available for any release from bund/liner • If any release from bund/liner onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination. • Repair/replace tanks • Inspect bund for ongoing serviceability
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency Controller	<ul style="list-style-type: none"> • Emergency Controller: Quarry Manager or delegate • Call service provider: Quarry Manager or delegate • Spill Kit manager: Onsite supervisor or delegate • Periodic inspections and update reporting of site and bund: Onsite supervisor or delegate
Scale of incident	Incident would be restricted to diesel storage area with minimal external impact, however, potential for bund/liner overflow or failure may result in soil and surface water contamination that will require specialist investigation/remediation.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbours 5, 6, 7 and 8 only if diesel has escaped into storm-water drainage lines and will enter Rocklow Creek. See Table 5 Section 11 for the Neighbor Notification List.
Rescuer / respondent + safety checks	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Clean up and Waste disposal	Service Provider to dispose of diesel and advise on required clean-up.
Reporting and re-preparedness	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)



Figure 3: Go-line Above Ground Diesel Storage Area

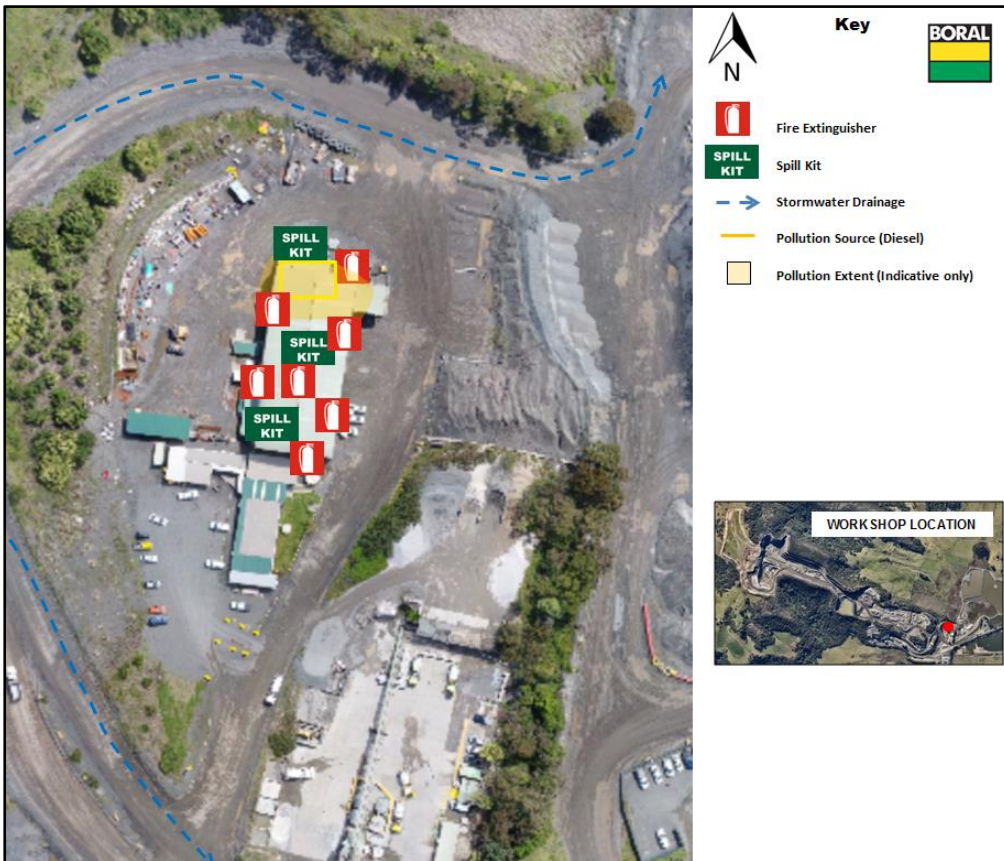


Figure 4: Workshop Diesel/hydrocarbon Storage Area

Please note that hydrocarbon loss from a mobile location could occur at a variable location on the site.



Figure 5 DCBP Hydrocarbon Pollution Sources Fires Extinguisher and Spill Kit locations

Note that no diesel fuelling facilities are located at DCBP and diesel storage would be primarily in the tanks of vehicles on site. As such the diesel sources are not shown in Figure 5.

Table 9: Incident #2: Excessive Airborne Dust Response Actions

<p>Incident #2</p>	<p>Excessive airborne dust from stockpiled material, mobile plant or traffic areas causing material harm to the environment or significant impact to community. See Fig 4 & 5.</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Employees, Contractor/Visitor to notify site representative of issue immediately. • Dust suppression activity to commence immediately on stockpiles via water cart or other means. Any operations associated with disturbing the stockpiles, such as driving and dumping, to be minimised or ceased. • Daily monitoring to be undertaken to assess weather and site conditions • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet)
<p>Alarm raising</p>	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
<p>Emergency Controller</p>	<ul style="list-style-type: none"> • Emergency Controller: Quarry Manager or delegate • Call service provider: Quarry Manager or delegate <p>Periodic inspections and update reporting of site and stockpiles: Onsite supervisor or delegate</p>
<p>Scale of incident</p>	<p>Incident would be localised to the area surrounding stockpile area, with minimal external offsite impact.</p>
<p>Evacuate</p>	<p>Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.</p>
<p>Communications</p>	<p>Internal:</p> <ul style="list-style-type: none"> • Glenn Lowerson - Quarry Manager • Greg Johnson &/or Matt Bray – Senior Environment Business Partner / Environmental and Stakeholder Advisor <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbors affected (will be dependent on wind direction). The environmental representative is to be consulted as to which neighbours will be affected by a particular wind direction. See Table 5 Section 11 for the Neighbor Notification List.
<p>Rescuer / respondent + safety checks</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Rescue + First Aid</p>	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
<p>Clean up and Waste disposal</p>	<p>All water carts to be placed on areas producing airborne dust. If necessary work must be ceased to control airborne dust. No disposal of waste required.</p>
<p>Reporting and re-preparedness</p>	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)

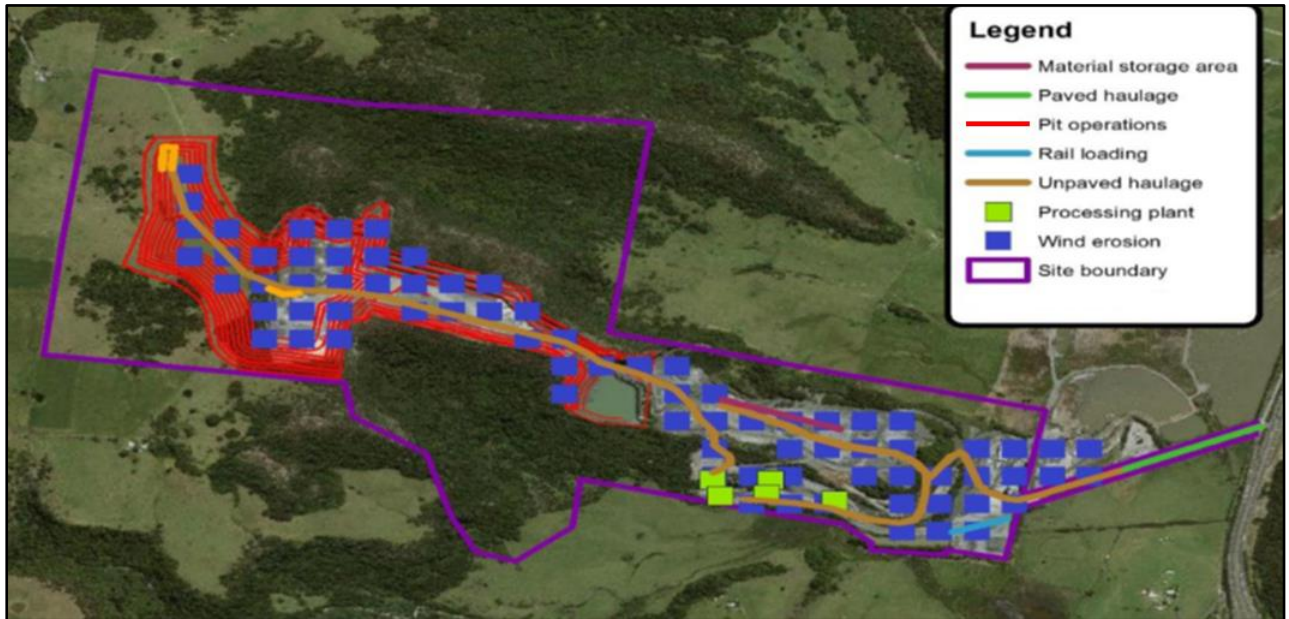


Figure 4: Sources of Dust Pollution at Dunmore Quarry

Please note that pollution controls include operational response which is not included on these maps. See Table 1 in Section 7 for more detail on pollution controls for Incident #2.



Figure 5: Potential Suburbs Affected by Dust Emissions under Adverse Conditions

Table 10: Incident #3: Uncontrolled Release of Stormwater Response Actions

Incident #3	<p>Uncontrolled release of sediment laden water from storage dams causing material harm to the environment. See Fig #6</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Ensure bund integrity is sound throughout the entire period of incident (i.e. periodic inspections) • Contact local neighbours if going to be inundated by rise of water • Area to be restricted to Incident Response Personnel • If any release from site onto unsealed soil/surface water - Environmental Consultants to be engaged to investigate and remediate contamination, if any • Contact local contractor to rebuild dams immediately
Alarm raising	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
Emergency Controller	<ul style="list-style-type: none"> • Emergency Controller: Quarry Manager or delegate • Call service provider: Quarry Manager or delegate • Spill Kit manager: Onsite supervisor or delegate • Periodic inspections and update reporting of site and bund: Onsite supervisor or delegate
Scale of incident	<p>Catastrophic failure of one or more sediment dams are likely to result in off-site impacts to water courses which would predominantly reduce water quality over a short period of time. As such, impact to the environment/human health is not considered to be significant.</p>
Evacuate	<p>Only if flood potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.</p>
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbours 5, 6, 7 and 8 in the case of a sediment dam failure affecting water quality downstream over an extended period of time. See Table 5 Section 11 for the Neighbor Notification List.
Rescuer / respondent + safety checks	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
Rescue + First Aid	<p>As per Site Emergency Plan or Fire Department as part of Immediate Reporting</p>
Clean up and Waste disposal	<p>Depending on severity of incident, consultants to be contacted to advise on required clean-up.</p>
Reporting and re-preparedness	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)

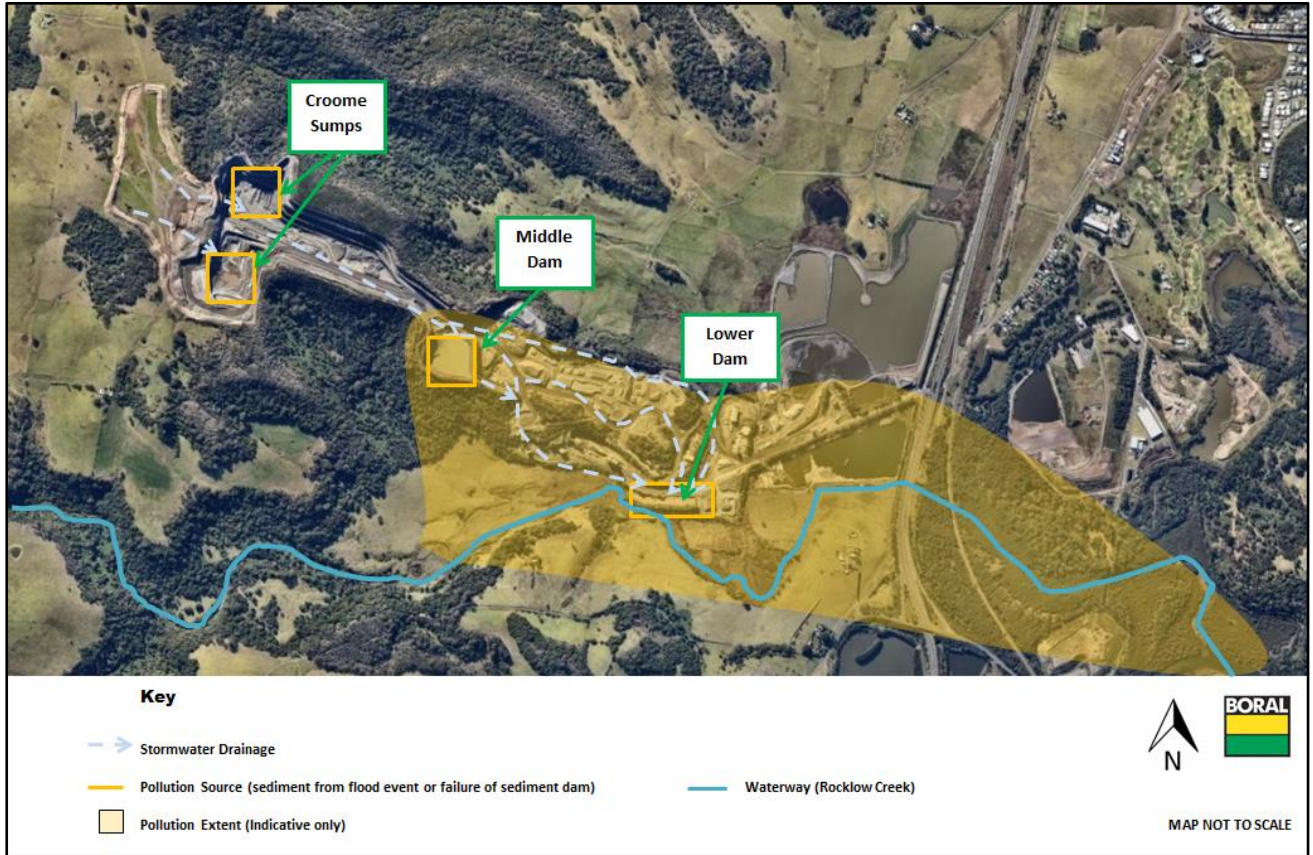


Figure 6: Overflow of Sediment Dams due to Flooding or Dam Failure

Please note that pollution controls include inspections and operational response which are not showed on these maps. See Table 1 in Section 7 for more details.



Figure 7 DCBP Drainage Lines to Capture Sump

Table 12: Incident #4: Excessive Blast Fume Response Actions

Incident #4	<p>Excessive blast fumes generated from a blast adversely affecting residents See Fig #8</p> <p>Actions Required:</p> <ul style="list-style-type: none"> • Contractor/Visitor/Employee to notify site representative of issue immediately. (induction) • Contact all relevant people/department (refer to Immediate Reporting Contact Sheet) • Area to be restricted to Incident Response Personnel • If any release from site into surrounding community - Environmental Consultants to be engaged to investigate • Call service provider, Orica, to provide advice and assistance in incident
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency Controller	<ul style="list-style-type: none"> • Emergency Controller: Quarry Manager or delegate • Call service provider: Quarry Manager or delegate • Periodic inspections and update reporting of offsite impacts: Onsite supervisor or delegate
Scale of incident	Incident would be localised to the area with no long term impact.
Evacuate	Only if fire or explosion potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.
Communications	<p>Internal:</p> <ul style="list-style-type: none"> • Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts <p>External mandatory:</p> <ul style="list-style-type: none"> • Immediate Reporting Contact Sheet to be used <p>External non-mandatory:</p> <ul style="list-style-type: none"> • Contact neighbours 1,2,3,4 and 5 only if blast fumes is migrating offsite towards neighbours. See Table 5 Section 11 for the Neighbor Notification List.
Rescuer / respondent + safety checks	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Rescue + First Aid	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Clean up and Waste disposal	Service Provider to provide advice on clean up
Reporting and re-preparedness	<p>See HSEQ MS:</p> <ul style="list-style-type: none"> • Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)



Figure 8: Potential impacted areas due to excessive Blast fume

Please note that prevailing winds in the Dunmore Quarry area are typically from the North east. Blowing towards to Croome Farm area of the site.

17. PART B: POLLUTION INCIDENT NOTIFICATION LOG

Person undertaking notification (Name/Function):		
Date and time when first become aware of the incident:		
Incident type:		
Comments:		

Initial immediate notification log				
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
Safework NSW				
Other: (including neighbours)				
Other: (including neighbours)				
Other: (including neighbours)				
Other: (including neighbours)				
Other:				
Summary of initial communication:				
Person undertaking notification (Name/Function):				

Date and time when additional information become available:		
Comments:		

Immediate notification of further pertinent information (if applicable)				
Appropriate Regulatory Authority	Time of call	Respondent's name/function	Approximate call duration	Comments
EPA				
Public Health Unit				
Fire and Rescue NSW				
Local Council				
WorkCover				
Other:				
Other:				
Summary of additional communication				

18. PART B: IMMEDIATE NOTIFICATION SHEET

Table 10: Internal Reporting List

Name	Function	Mobile Phone Number

Whilst personal contact details for the following are available in the Controlled on site Pollution Incident Response Management Plan they do not appear in this public document

Table 11: External Reporting List

Government Authority – compulsory notifications	Emergency notification phone number
EPA – Environment Line	131 555
Fire and Rescue NSW (FRNSW)	1300 729 579
Shellharbour City Council	02 4221 6111
Public Health Unit (South East Sydney / Illawarra AHS) – Wollongong SESI PHU	HealthLink (24 hr.) - 0 - 1800 063 635 Head Office – Wollongong - 0- 4221 6700
Safework NSW	131050 Company ABN asked: 51 000 756 507
Government Authority – contact if relevant	Emergency notification phone number
Roads and Maritime Services (road spills)	132 701
Police and Ambulance	000
NSW Office of Water	02 8838 7885
Bushfire Control Officer	1800 049 933
Poisons Information Centre	131 126
Endeavour Energy (power line emergencies)	131 003

Table 12: Neighbour Notification List

Neighbour Notification List (contact if relevant)			
Reference	Contact Name	Address	Contact Details

Whilst personal contact details for the following are available in the Controlled on site Pollution Incident Response Management Plan they do not appear in this public document