

Pollution Incident Response Management Plan



Bombo Quarry EPL313

Version 13: 28 April 2025



1. DOCUMENT CONTROL SHEET

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01	28 May 2013	Nathan Jeffery	Rod Johnson	Document Created
02	30 Aug 2013	Philip Paterson	Philip Paterson	Contact details updated
03	28 Aug 2014	Maz Shaban	Rod Johnson	Contact details updated/ Potential Incidents Risk assessment updated
04	18 May 2016	Sharon Mulready	Nathan Jeffery	Staff contact details updated Updated storage quantities of substances Updated HSEQ MS SOP References Updated Fire & Rescue # Minor format changes
05	05 June 2017	Ellie Randall	Brad Subotic	Mobile plant details on site updated Emergency call contact details updated Contact details updated Incident ref #11 added
06	Aug 2018	Peter Scioscia	Peter Scioscia	Contact details updated
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Current Revision	Date Implemented	PIRMP Test Schedule	Date for Next Review
13	28 April 2025	12 months	September 2025



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PART A: COMPLIANCE REQUIREMENTS, POLLUTION INVENTORIES AND RISK ASSESSMENTS



2. PURPOSE

The purpose of the Bombo Pollution Incident Response Plan is to:

- Provide directions to the staff in responding to pollution incidents at the Bombo operations;
- 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 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.
- A hard copy of the PIRMP is to be kept on the site environmental board in the DSS Main Office. A soft copy of the PIRMP and EPL 313 is made available online <u>https://www.boral.com.au/our-commitment/environmental-reporting</u>.

This document is split into two sections:

Part A details the relevant legislative and regulatory requirements for PIRMP's based on NSW EPA Guidelines for Pollution Incident Response Management Plans (March 2020).

Part B details the specific incident response actions, maps and notification logs for site personnel to use in the case of an incident.

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 within the document.

Section/Clause	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— 	Section 4

Table 1 Summary of Legislative Requirements of a PIRMP



	 (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. (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. 	
153A	The holder of an environment protection licence must prepare a pollution incident response management plan that complies with this Part in relation to the activity to which the licence relates.	EPL 11147 and this document
153C	A pollution incident response management plan must be in the form required by the regulations and must include the following— (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—	Section 9 and 10
	 (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 (ii) the local authority for the area in which the premises to which the environment protection licence or the direction 	Section 5 Section 8, 9, 10, 11 and 18, Figures 4-8.
	 under section 153B relates are located and any area affected, or potentially affected, by the pollution, and (iii) any persons or authorities required to be notified by Part 5.7, (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 	Table 9-11, Section 8, 9, 10,11 and 18 Table 9-11
	the relevant premises, 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,	Section 8, 9, 10, 11 and 18
153D	(d) any other matter required by the regulations.	Section 10, 17 Section 2
חכבד	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 licence relates, or where the relevant activity takes place, and is made available in accordance with the regulations.	
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	Section 4, Table 9-11
	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	
Ра	rt 3A POEO(G) Regulation 2009 Pollution Incident Response Manage note: See also 153C (a)-(c) of the POEO Act 1997	ement Plans
98C(1) (a)	A description of the hazards to human health or the	Table 2, Table 8
	environment associated with the activity to which the licence relates,	
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	Section 11, Table 2, 8,
	prevent any risk of harm to human health or the	9 -11
	environment arising out of the relevant activity	
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	Table 2, Figure 4-8
	are used to minimise the risks to human health or the	
	environment and to contain or control a pollution incident,	
98C(1) (g)	the names, positions and 24-hour contact details of those key individuals who:	Section 9, 18
	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,	
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 activities of the averaging the which the line provides and	Section 11, Table 9-11
	the vicinity of the premises to which the licence relates or where the scheduled activity is carried on	
98C(1) (j)	The arrangements for minimising the risk of harm to any	Section 11, Table 2, 8,
	persons who are on the premises or who are present where	9-11
	the scheduled activity is being carried on	
98C(1) (k)	A detailed map (or set of maps) showing the location of the	Figure 1, Figure 4-8
	premises to which the licence relates, the surrounding area	
	that is likely to be affected by a pollution incident, the	
	location of potential pollutants on the premises and the	
222(4) (1)	location of any stormwater drains on the premises	
98C(1) (l)	A detailed description of how any identified risk of harm to	Section 11, Table 8, 9-
	human health will be reduced, including (as a minimum) by	11
	means of early warnings, updates and the action to be taken during or immediately after a pollution incident to reduce	
	that risk,	
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	Table 7
	of the person who carried out the test,	
090(1) (a)	The dates on which the plan is updated,	Section 1
98C(1) (o)	The dates of which the plan is updated,	



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.

Licensees are 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 to assist in the early response to, and reporting of, a pollution incident. Bombo Quarry is owned and occupied by Boral Resources NSW and is operated under Environmental Protection Licence 313. The Dunmore Sand and Soil (DSS) Manager is the statutory quarry manager of Bombo Quarry. Currently the quarry is not in operation and is in maintenance phase. Typically the only operations that occur within the quarry is periodic dewatering of the pit for safety reasons as per the Dewatering Plan approved by the EPA.

6. SITE LAYOUT

The overall site layout of is shown in Figure 1 below. Figure 2 shows the operational area of the quarry. Figure 3 shows the typical layout of the infrastructure relating to the dewatering. Please note



that Part B of this PIRMP contains detailed maps which describe the important details for each pollution incident scenario.



Figure 1 Bombo Quarry Site Layout





Figure 2 Bombo Operational Areas



undertaken on an as needed basis. When dewatering is not required the pup is taken off hire



7. POTENTIAL POLLUTING SUBSTANCES

Table 2 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 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.

Typically, Bombo Quarry is in maintenance phase and no polluting substances are kept on the premises. For the purposes of the PIRMP it is assumed that dewatering is occurring at the time of any potential incident.



Table 2: Inventory of Potential Polluting Substances Initial Assessment

Site Name: Dunmore Sand	and Soil					Responsible Person: Brodie Bolton	Date: 9/9/2023
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)
	-	S (diesel, Oils, lubricant		-			
Uncontrolled loss of Diesel or other hydrocarbon products that could result in material harm to the environment or human health	Class 3	Diesel Storage tanks 1 000L (pump) 5 000L (fuel storage tank)	Dewatering operational area Fuel Tank Hydrocarbon Storage Container	Figure 4 and 5	Rare (1) Only if substances enter waterways and is transported off- site	 Bunded storage tanks Bunded and lined re- fuelling area Designated mobile plant parking areas PMP Spill kits Waste oil capture Dangerous goods/flammal material storage cabinets SWMS and SOP's Inductions and Training Fire Fighting Equipment Security Alarm system on dredge 	Incident 1 Figure 4 and 5 shows potential scope of Incident. Risk Assessment is located in Table 8. Response actions in Table 9.
		es, silos, Haul Roads etc)			D (1)		
Excessive airborne dust from stockpiles causing material harm to the environment or	N/A	Dust and sand Stockpile and haul roads	Dedicated on site stockpile areas	Figure 6 details potential dust sources	Rare (1) Only if excessive dust is spread off-site during high winds	 Due diligence dust monitoring Maintain manageable stoc levels Security Reduced speed on haul roa 	scope of incident.



Dunmore Sand a						Brodie Bolton	9/9/2023
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)
significant impact to community					5		Risk Assessmer is located in Table 8. Response actions detaile in Table 10.
	-	er tanks, other water sto	<u> </u>				
Uncontrolled release of sediment laden water from storage dams causing material harm to the environment	Suspended solids and salinity	Void: 350ML Void volumes variable depending on operations. Values are indicative only.	Bombo Pit	Figure 8	Rare (1) Only if excessive sediment enters waterways and is transported off- site during significant rain events	 Continued use from plant and dust suppression Valved transfer points Water level monitoring Dredging/backfilling halts hours before overflow Discharge monitoring Earthen bund to 1 in 100y flood level (3.7m) Audits and Inspections 	Figure 8 shows potential scope of incident. 12 Risk Assessmen is located in Table 8.



8. ROLES AND RESPONSIBILITIES

Table 3: Site Personnel Roles and Responsibilities

Position Employees and Contractors	Responsibility
Employees and Contractors	I FOURWING THE PROCEDURES OUTLINED IN THE DIDMID
	Following the procedures outlined in the PIRMP and related documents
	Immediately alerting Supervisor or Team Leader of
	any environmental incidents or near-misses.
Team Leaders / Front Line Supervisors	Following the procedures outlined in the PIRMP
	and related documents (HSEQ MS 3-02)
	Immediately alerting Site/Quarry Manager or, in case of their unavailability, Environmental
	Representative or Environment Manager of any
	potentially material environmental incidents or
	near-misses.
	Assist in conducting incident investigations
Site / Operations Manager and/or	Authorisation of the PIRMP
Site Environmental Coordinator	Administration, maintenance and implementation
	of the PIRMP
	Assessing whether the incident is non-trivial and
	has caused or threatens "material environmental
	harm" and communicate details to management
	Provide direction and advice on incident response
	Coordinate communication to neighbours through
	Stakeholder Relations Manager
	Ensuring that investigations are undertaken to a
	level corresponding to the level of risk and impact.
HSE Regional Manager	Make a determination as to whether the incident
and/or	(as defined in section 147 of the POEO Act) is non-
Regional Environment Manager	trivial and therefore reportable to external
	agencies
	Inform Executive General manager and Group
	management of Notification to External Agencies
	Undertake notifications as defined in PIRMP
	Authorise notifications to public and/or media
	following GRP-HSEQ-2-02



9. INTERNAL POLLUTION INCIDENT REPORTING

Any pollution incident satisfying the *material harm* threshold must be immediately reported to relevant statutory authorities by either the HSE Regional Manager, or Regional Environment Manager.

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**:

Name	Function	Phone number	Mobile number
Brodie Bolton	Dunmore Sand & Soil Quarry Manager		
Dale Todd	Dunmore Sand & Soil Quarry Supervisor		
Ionut Ciobanu	Dunmore Environment and Stakeholder Advisor		
Greg Johnson	Senior Environment Business Partner – NSW/ACT		

Table 4 Key Personnel Contact Information

Whilst personal contact details for the following are available in the PIRMP Controlled Version they do not appear in this public document

4. The DSS Quarry Manager or in case of his unavailability one of the Senior Management personnel listed above, is to **immediately** notify the Dunmore Environment and Stakeholder Advisor or the NSW/ACT Senior Environment Business Partner.



- 5. NSW/ACT Senior Environment 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.
- 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 Angus Shedden, James Collings and Scott Carter.

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, is 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/ACT 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

Government Authority - compulsory notifications	Emergency notification phone number
EPA – Environment Line	131 555
Fire and Rescue NSW (FRNSW)	1300 729 579
Kiama City Council	4232 0444
Public Health Unit (South East Sydney / Illawarra AHS)- Wollongong SESI PHU	Emergencies – 4222 5000 Head Office (Wollongong) 1300 066 055
Safework NSW	131050 Company ABN asked: 51 000 756 507
Covernment Authority, ving if velovert	Emergency notification phone
Government Authority - ring if relevant	number
Roads and Maritime Services (road spills)	number 1300 308 349
	number
Roads and Maritime Services (road spills)	number 1300 308 349
Roads and Maritime Services (road spills) Police & Ambulance	number 1300 308 349 000
Roads and Maritime Services (road spills) Police & Ambulance Natural Resources Access Regulator Bush Fire Control Officer – Illawarra Fire Control	number 1300 308 349 000 1800 633 362
Roads and Maritime Services (road spills) Police & Ambulance Natural Resources Access Regulator Bush Fire Control Officer – Illawarra Fire Control Centre (Albion Park)	number 1300 308 349 000 1800 633 362 4230 8200

Table 5 Pollution Incident Authority Contact List



Kiama Fire Brigade	4232 1222
Kiama Ambulance	13 12 33

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. Part B describes in the response action tables the criteria whether an incident may require community notification. If deemed necessary, Dunmore Sand and Soil 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 6 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
1			
2			
3			

Whilst personal contact details for the following are available in the PIRMP Controlled Version they do not appear in this public document

12. INCIDENT REPONSE TRAINING

DSS 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 Bombo is shown below in Table 6.

Test Date	Version tested	Incident Drilled	Drill Team Lead
23/9/24	11	Incident 1 Loss of Fuel from diesel tank during refueling	Matt Bray / Brodie Bolton
5/9/22	10	Incident 1 Loss of Fuel from diesel tank during refueling	Matt Bray / Brodie Bolton
9/9/22	9	Incident 1 Loss of Fuel from diesel tank during refuelling	Sharon Makin / Brodie Bolton
19/5/21	8	Incident 2 Loss of Fuel from diesel tank during refuelling	Ben Williams/Cameron Williams
28/8/20	7	Incident 10 Excessive Dust from Traffic Areas	Ben Williams/Chris Brown
4/9/19	6	Incident 2 Loss of Fuel from diesel tank during refuelling	Ben Williams/Peter Scioscia
11/9/18	6	Incident 2 Loss of Fuel from diesel tank during refuelling	Ben Williams/Peter Scioscia
17/10/17	5	Incident 2 Loss of Fuel from diesel tank during refuelling	Ellie Randall/Brad Subotic

Table 7: PIRMP Drills Undertaken at Dunmore Quarry

Please note that V9 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. For more information regarding each of the PIRMP Drills, refer to the specific 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

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

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



15. APPENDIX A: RISK ASSESSMENT ON POTENTIAL IMPACTS

Table 8 Risk Assessment on Potential Impacts

		Haz	ard and Lil	kelihoo	d Risk Assessment a	and Corrective Control Measures			
Site: Dunmore	e Sand and Soil					Responsible Person: Brodie Bolton	Review Date: 9/9/23		
Name / ref of pollutant/ chemicals	Description of Hazard / Incident leading to hazard	Consequence	Likelihood	Initial Risk	Factors which could increase risk	Residual Risk after implementation of controls. (S	ee Table 1 for list of current controls).	Responsible person	Action date
Diesel	Incident #1 Uncontrolled loss of Diesel or other hydrocarbon products that could result in material harm to the environment or human health <u>Risk to environment:</u> hydrocarbons smothering aquatic and plant life, decreases in water quality <u>Risk to human health:</u> contamination of waterbodies	Moderate (3)	Unlikely (2)	M6	Weather: Dry, windy conditions (increase fire danger) or heavy rain/flood conditions (will increase potential for spill to spread to catchment drainage areas) Location of spill: spills near drainage lines or with equipment near waterbodies have higher risk of material harm. Spills near vegetation or rehabilitation areas have higher fire risk.	Consequence: (Moderate): Failure resulting in loss of would be captured entirely by existing primary bund dredge ponds are kept offline from the external rive Likelihood: (Unlikely): Diesel Tanks are self bunded location of tank, damage to tanks is unlikely to occu tanks are maintained in good structural integrity wit Drain valve, hoses and refuelling equipment are ma with low risk of failure. The drain valve is locked at a Residual Risk Assessment = Minor (2) Vs Rare (1) =	d with no release to soil or water. Active er system (Rocklow Creek). double walled fuel tanks. Due to r from external equipment. In addition th low risk of failure through corrosion. intained in good structural integrity 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. <u>Risk to environment</u> : dust smothering aquatic and plant life <u>Risk to human health</u> : risk of ingestion of fines via respiration. Site is rated as Tier 3 (lowest) site for respirable crystalline silica.	Minor (2)	Unlikely (2)	L4	Weather: Dry, windy conditions (increase wind erosion and dust transport). Summer months with long periods of extended dry conditions. Onsite prevailing winds are NNE during summer and WSW the rest of the year.	Consequence: (Minor): Excessive dust from stockpi to surrounding area. Material is not crushed reducir Likelihood: (Rare): Stockpiles are maintained to a ma of water cart onsite during windy periods. Extensive surrounding communities. Surrounding land is rural Sand extraction is via wet processes reducing likelih Residual Risk Assessment = Minor (2) Vs Rare (1) =	ng any risk of crystalline silica exposure. anageable level on a monthly basis. Use e land reserves act as buffer land from with sparse distribution of neighbours. wood of transport.	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 <u>Risk to environment:</u> suspended solids smothering aquatic and plant life, decreases in water quality <u>Risk to human health:</u> rapidly increasing water levels could present safety risk for downstream receivers	Minor (2)	Unlikely (2)	L4	<u>Weather:</u> Extended periods of rain increase the risk. Late Summer/early Autumn is typically the wettest part of the year on site.	Consequence: (Minor): Failure of one or more sedim impacts to water courses which would predominant period of time. As such, impact to the environment, significant. Likelihood: (Rare): Dams and bunds are frequently r integrity. Fines ponds are bunded to 3.7m (1 in 100 likelihood. Residual Risk Assessment = Minor (2) Vs Rare (1) = Note: For PIRMP purposes overflow events during e under POEO Licence obligations and not Immediate	tly reduce water quality over a short /human health is not considered to be monitored and inspected for levels and year flood event) to drastically reduce LOW (2)	As per PIRMP action plan	When required



PART B: INCIDENT RESPONSE ACTIONS AND NOTIFICATION LOGS



16. PIRMP RESPONSE ACTIONS AND MAPS

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

Incident [#] 1	Uncontrolled loss of Diesel or other hydrocarbon products that could result in material
	harm to the environment or human health. See Figure 4 and 5.
	Actions Required:
	Shutdown of processes and equipment associated with the spill if safe to do so
	Activation of any associated storm water shut-off valves to isolate
	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 increations)
	inspections)
	 Contact service provider (Caltex No. 1800033111 or Transpacific 02 96007185) to pump- out bund contents if required
	 Area to be restricted to Incident Response Personnel
	 Ensure spill kit available for any release from bund/liner or mobile plant
	 If any release from bund/liner onto unsealed soil/surface water or spill relates to water
	based mobile plant - Environmental Consultants to be engaged to investigate and
	remediate contamination.
	Repair/replace tanks
	 Inspect bund/mobile plant for ongoing serviceability
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP
	actions to be implemented.
Emergency	Emergency Controller: Quarry Manager or delegate
Controller	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	Internal:
	Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts
	 External mandatory: Immediate Reporting Contact Sheet to be used
	External non-mandatory:
	 Contact Neighbours 1 and 2 only if diesel has escaped into storm-water drainage lines
	See Table 5 Section 11 for the Neighbor Notification List.
Rescuer /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Service Provider to dispose of diesel and advise on required clean-up.
Waste disposal	
Reporting and	See HSEQ MS:
re-preparedness	 Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)
For more morma	tion relating to inventory of polluting substances and lists of hydrocarbon controls

For more information relating to inventory of polluting substances and lists of hydrocarbon controls relating to Incident 1 please refer to Table 2 in Part A.



Figure 4: Bombo Dewatering Area Incident 1: Diesel/Hydrocarbon Spill

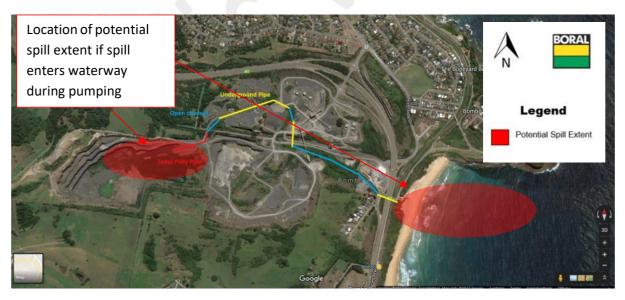


Figure 5: Bombo Dewatering Area Incident 1: Diesel/Hydrocarbon Spill

Figure 4 refers potential extent of a spill when the pump is not operating. Figure 5 refers to potential extent of a hydrocarbon spill into waterways when the pump is operating. Please note spill kits and fire extinguishers are located on hire pumps. For more information relating to inventory of polluting substances and lists of hydrocarbon controls relating to Incident 1 please refer to Table 2 in Part A.



Incident [#] 2	Excessive airborne dust from stockpiled material, mobile plant or traffic areas causing material harm to the environment or significant impact to community. See Fig 6 & 7.
	 Actions Required: 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 on, 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)
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency Controller	 Emergency Controller: Quarry Manager or delegate Call service provider: Quarry Manager or delegate Periodic inspections and update reporting of site and stockpiles: Onsite supervisor or delegate
Scale of incident	Incident would be localised to the area surrounding stockpile area, with minimal external offsite 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	 Internal: Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts External mandatory: Immediate Reporting Contact Sheet to be used External non-mandatory: Contact neighbours 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 Neighbour 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	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.
Reporting and re-preparedness	See HSEQ MS: Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)

Table 10: Incident #2: Excessive Airborne Dust Response Actions

For more information relating to inventory of polluting substances and lists of controls relating to Incident 2 please refer to Table 2 in Part A.

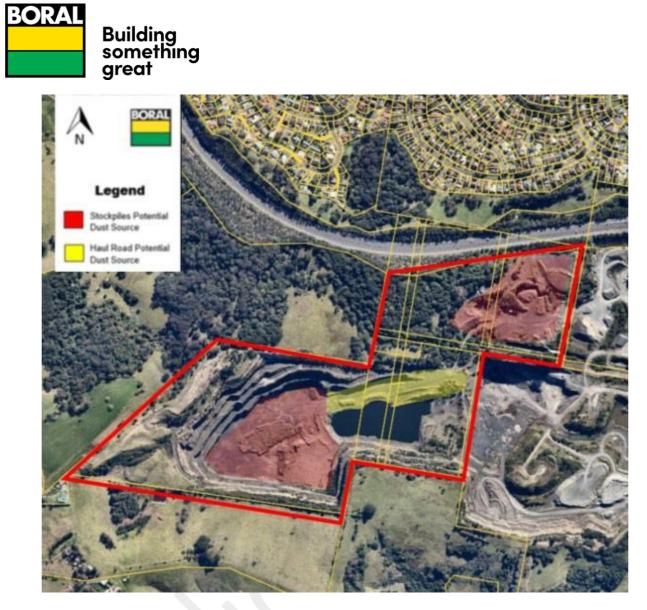


Figure 6: Incident 2: Sources of Dust Pollution at Bombo

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 7: Incident 2: Potential Suburbs Affected by Dust Emissions under Adverse Conditions



Table 11: Incident #3: Uncontrolled Release of Stormwater Response Actions

Incident [#] 3	Uncontrolled release of sediment laden water from storage dams causing material harm to the environment. See Figure 8
	the environment. See Figure 8
	Actions Required:
	 Shutdown of processes and equipment associated with the release if safe to do so
	 Activation of any associated storm water shut-off valves to isolate
	 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 in inundated by rise of water Area to be restricted to Incident Response Personnel
	be engaged to investigate and remediate contamination, if any
	 Contact local contractor to rebuild dams immediately Contract local contractor to install ESC as required around the site.
AL	
Alarm raising	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
Emergency	Emergency Controller: Quarry Manager or delegate
Controller	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	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.
Evacuate	Only if flood potential exists. Quarry Manager and any advice provided by Fire Department as part of attendance after immediate notification.
Communications	Internal:
	Quarry Manager or delegate to use contact sheet for all internal (Boral) contacts
	External mandatory:
	Immediate Reporting Contact Sheet to be used
	External non-mandatory:
	• Contact Neighbours 1 and 2 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 /	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
respondent +	
safety checks	
Rescue + First	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
Aid	
Clean up and	Depending on severity of incident, consultants to be contacted to advise on required clean-
Waste disposal	up.
Reporting and	See HSEQ MS:
re-preparedness	Incident Reporting, Investigation and Action Management Standard (GRP-HSEQ 3-02)
- p. cpai calleou	

For more information relating to inventory of polluting substances and lists of controls relating to Incident 3 please refer to Table 2 in Part A.





Figure 8: Incident 3: 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 2 in Section 7 for more details.



17. POLLUTION INCIDENT NOTIFICATION LOG

Person undertaking (Name/Function):	notification	
Date and time when the incident:	n first become aware of	
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 (Na	ame/Function):			
Date and time when additional information become available:					



Comments:

Appropriate Regulatory AuthorityTimeEPAPublic Health UnitFire and Rescue NSWLocal CouncilWorkCoverOther:Other:Summary of additional control	e of call Respon name/fu	dent's Approx unction call du	comments ration
Public Health UnitFire and Rescue NSWLocal CouncilWorkCoverOther:Other:			
Fire and Rescue NSWLocal CouncilWorkCoverOther:Other:			
NSW Local Council WorkCover Other: Other:			
WorkCover Other: Other:			()
Other: Other:			
Other:			
Summary of additional cc			

18. IMMEDIATE NOTIFICATION SHEET SUMMARY



Table 10: Internal Reporting List

Name	Function	Phone Number	Mobile Number
Brodie Bolton	Dunmore Sand & Soil Quarry Manager		
Dale Todd	Dunmore Sand & Soil Quarry Supervisor		
Ionut Ciobanu	Dunmore Environment and Stakeholder Advisor		
Greg Johnson	Senior Environment Business Partner – NSW/ACT		

Whilst personal contact details for the following are available in the PIRMP Controlled Version 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
Kiama City Council	4232 0444
Public Health Unit (South East Sydney / Illawarra AHS)- Wollongong SESI PHU	Emergencies – 4222 5000 Head Office (Wollongong) 1300 066 055
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)	1300 308 349
Police & Ambulance	000
Natural Resources Access Regulator	1800 633 362
Bush Fire Control Officer – Illawarra Fire Control Centre (Albion Park)	4230 8200
Poisons Information Centre	131 126
Endeavour Energy (power line emergencies)	131 003
Kiama SES	4233 2025
Kiama Fire Brigade	4232 1222



Kiama Ambulance	13 12 33

Table 12: Neighbour Notification List

Neighbour Notification List (contact if relevant)			
Reference	Contact Name	Address	Contact Details
1			
2			
3			

Whilst personal contact details for the following are available in the PIRMP Controlled Version they do not appear in this public document