



Warburn Quarry Pollution Incident Response Management Plan v4 ENV-PLA-2203 WARQ-011

Environment Protection Licence Number: 934



Warburn Quarry
Farm No. 2363, Tharbogang, NSW

	Title	Name	Date
Creator	Principal Environmental Scientist	B Dwyer	16/03/2023
Reviewer	Warburn Quarry Manager	W Laycock	07/04/2023
Reviewer	Regional Quarry Manager – Milbrae West	T Walter	07/04/2023
Reviewer / Approver	Environment and Compliance Manager	S Rankin	07/04/2023







Contents

1	Purpose	. 3
2	Definition of Material Harm to the Environment	.3
3	Environment Protection Licence (EPL) Details	. 4
4	Pollution Incident – Person/s Responsible	. 5
5	Notifications – Relevant Authorities	. 5
6	Notifications – Neighbours and the Local Community [REDACTED]	. 6
7	Hazards - Description and Likelihood	. 7
8	Pollutants	
9	Safety Equipment	. 9
10	Communicating with Neighbours and the Local Community	.9
11	Maps and Site Plans	10
12	Incident Response	
13	Coordinating with Persons	16
14	Training	16
15	Testing and Updating the PIRMP	16
16	Document History	16
Figu Figu	ure 1: Mawsons risk matrix	10 11
	le 1: Potentially impacted neighbours proximate to Warburn Quarry [REDACTED]	.6



1 Purpose

E.B. Mawson & Sons Pty Ltd holds an Environment Protection Licence with the NSW Environment Protection Authority (EPA) for the Milbrae Warburn Quarry. As per the *Protection of the Environment Operations Act 1997* (the POEO Act), the holder of an Environment Protection Licence must prepare, keep, test and implement a pollution incident response management plan (PIRMP) that complies with Part 5.7A of the POEO Act in relation to the activity to which the licence relates.

If a pollution incident occurs in the course of an activity so that material harm to the environment (within the meaning of section 147 of the POEO Act) is caused or threatened, the person carrying out the activity must **immediately** implement this plan in relation to the activity required by Part 5.7A of the POEO Act.

A copy of this plan must be kept at the licensed premises, or where the activity takes place in the case of mobile plant licences, and be made available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

Parts of the plan must also be available either on a publicly accessible website, or if there is no such website, by providing a copy of the plan to any person who makes a written request. The sections of the plan that are required to be publicly available are set out in section 74 of the Protection of the Environment Operations (General) Regulation 2022.

2 Definition of Material Harm to the Environment

This plan must be activated in the event of a *pollution incident* that causes or threatens *material harm* to the environment.

Pollution incident means a leak, spill or other escape or deposit of a substance, which causes or is likely to cause pollution (does not include an incident involving only the emission of noise).

Pollution means (broadly) release or introduction of any substance to air, land or water.

Material harm means actual *or potential* harm to health or safety of human beings or ecosystems that is not trivial, cost to make good exceeds \$10,000. Includes incidents that only impact the premises where the incident occurs.





Environment Protection Licence (EPL) Details

E.B. Mawson & Sons Proprietary Limited Name of licensee:

ABN: 14 004 519 617

EPL number: 934

Milbrae Warburn Quarry

Premises name and address: Farm No. 2363,

THARBOGANG NSW 2680

Name: Wayne Laycock

Company or business contact details (business hours):

Position or title: Quarry Manager

Business hours contact number: 0408 411 059

Email: warburn@mawsons.com.au

Name: Shari Rankin

Company or business contact details (after hours):

Position or title: Environment and Compliance Manager

Business hours contact number: 0433 845 432

Email: srankin@mawsons.com.au

Environmental concerns or complaints

Business hours contact number: 1800 423 456

After hours contact number: 0433 845 432

Website address: www.mawsons.com.au

Scheduled activity/activities on EPL:

Extractive activities

Fee-based activity/activities on EPL:

Extractive activities

Ancillary activities on EPL:

N/A





Pollution Incident - Person/s Responsible 4

Responsibility	Person Responsible					
	Name: Wayne Laycock					
	Position or title: Quarry Manager					
PIRMP activation	Business hours contact number/s: 0408 411 059					
	After hours contact number/s: 0408 411 059					
	Email: wlaycock@mawsons.com.au					
Netificion relevant cuth cuitica	Name: Shari Rankin					
Notifying relevant authorities	Position or title: Environment & Compliance Manager					
Notification should be made by a person with an appropriate	Business hours contact number/s: 0433 845 432					
level of authority within the	After hours contact number/s: 0433 845 432					
company.	Email: srankin@mawsons.com.au					
	Name: Wayne Laycock					
	Position or title: Quarry Manager					
Managing response to pollution incident	Business hours contact number/s: 0408 411 059					
ponution molucit	After hours contact number/s: 0408 411 059					
	Email: wlaycock@mawsons.com.au					

5 **Notifications - Relevant Authorities**

Incidents that cause or threaten material harm (actual or potential harm that is not trivial, eg. loss/damage ~ \$10,000) must be reported to all relevant authorities immediately.

Authority	Contact Number				
Fire and Rescue NSW / Rural Fire Service (first notification)	000				
EPA	131 555				
NSW Health – Murrumbidgee Local Health District	1800 800 944				
SafeWork NSW	131 050				
Local authority – Griffith City Council	1300 176 077				
NSW Resources Regulator	1300 814 609				







Notifications – Neighbours and the Local Community [REDACTED] 6

Neighbours potentially impacted by a pollution incident at Warburn Quarry are those listed in Table 1 that are within approximately 2km of the quarry (see Figure 2 in Section 11). Contact details in Table 1 for neighbours proximate to Warburn Quarry have been redacted for privacy reasons.

Notification of neighbours is the responsibility of the Quarry Manager but may be delegated to a suitably trained person at the discretion of the Quarry Manager and in consultation with the Environment and Compliance Manager. It is the responsibility of the Quarry Manager to inform and update the Environment and Compliance Manager and to record the incident in O4i in accordance with ENV-PRO-001 Environmental Incident Management Procedure.

Table 1: Potentially impacted neighbours proximate to Warburn Quarry [REDACTED]

Neighbour Number	Address	Lot Number(s)	Contact Name	Contact Details	Communication Requirements	

ENV-PLA-2203 WARQ-011 v4 Page 6 of 16



7 Hazards - Description and Likelihood

Table 2: Warburn Quarry risk assessment

		Risk Asse	essment Prior to I	Pre-emptive		Risk Ass	sessment After P	re-emptive				
Hazard	Pollution Incident (Material Harm)		Inherent Risk		Pre-emptive Actions		Residual Risk		Monitoring	and Continuous Improvement		
	(Waterial riailii)	Likelihood Consequence Risk Rating		Risk Rating		Likelihood Consequence Risk Rating		Risk Rating	Aspect to be Monitored	Details of Monitoring and Continuous Improvement		
Dust	Excessive dust resulting in nuisance to neighbours	Likely	Minor	Medium	 Compliance with approved operating hours Exposed/disturbed areas minimised and revegetation undertaken progressively to reduce exposed/disturbed areas 	Unlikely	Minor	Low		Monitoring to be conducted in accordance with EPL 934 and ENV-		
Dust	Excessive dust resulting in health impacts to neighbours	Rare	Major	Medium	Water sprays installed and operational at critical locations on processing plant Drill rig fitted with engineered dust extraction/suppression		Moderate	Medium	Air quality as per EPL 934 and ENV-PLA-001	 PLA-001 Air Quality Management Plan Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management 		
Dust	Excessive dust resulting in biodiversity impacts	Possible	Minor	Medium	 Water cart utilised on exposed areas, roads and hardstands Site access roads and haul roads adequately maintained and appropriately speed limited Dust generating plant shut down during dust amplifying weather conditions Material drop heights for stockpiles reduced 	Unlikely	Minor	Low	Air Quality Management Plan	Procedure) as well as opportunistic site visits Community interactions (including complaints) to be recorded and reported where appropriate		
Surface Water	Unauthorised discharge of wastewater resulting in ecosystem damage to receiving waterway	Possible	Moderate	Medium	 Access and haul roads designed with sufficient diversion drains and culverts to ensure stormwater is diverted away from receiving waterways Access and haul roads graded and orientated to slow the flow of stormwater Stormwater directed to sumps 	Unlikely	Minor	Low	Water quality as per EPL 934 and ENV-	Monitoring to be conducted in accordance with EPL 934 and ENV- PLA-2203 WARQ-005 Warburn Quarry		
Surface Water	Localised flooding as a result of quarry impacts on surface water systems resulting in impacts to neighbours	Possible	Moderate	Medium	 Surface water drainage line/waterway kept free of debris and diversion structures employed to direct stormwater away from them Erosion and sediment control structures 	Unlikely	Minor	Low	PLA-2203 WARQ-005 Warburn Quarry Surface Water and Groundwater Management Plan	Surface Water and Groundwater Management Plan Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic		
Surface Water	Sedimentation resulting in ecosystem damage to receiving waterway	Possible	Minor	Medium	 employed to prevent the sedimentation of receiving waterway Exposed/disturbed areas minimised and revegetation undertaken progressively to reduce exposed/disturbed areas 	Unlikely	Minor	Low		site visits		
Groundwater	Groundwater contamination resulting in aquifer pollution	Possible	Major	High	 Hydrocarbons stored in appropriately bunded areas (as per Figure 4) Adequate spill kits are available on site and training is provided in their use Storage of hydrocarbons is audited during environmental inspections and opportunistic site visits 	Rare	Moderate	Medium	Water quality as per EPL 934 and ENV- PLA-2203 WARQ-005 Warburn Quarry Surface Water and Groundwater Management Plan	 Monitoring to be conducted in accordance with EPL 934 and ENV-PLA-2203 WARQ-005 Warburn Quarry Surface Water and Groundwater Management Plan Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic site visits 		
Fire	Uncontrolled fire started or exacerbated as a result of quarry activities resulting in impacts to neighbours	Possible	Major	High	 Plant and equipment is well maintained and fitted with spark arrestors and fire extinguishers No "hot works" undertaken on days of Total Fire Ban without written approval of RFS Liaison with RFS undertaken in times of extreme fire danger Refuelling and servicing conducted is designated areas 	Rare	Moderate	Medium	Emergency warnings Extreme weather Total Fire Ban days	Environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic site visits		

ENV-PLA-2203 WARQ-011 v4 Page 7 of 16



Hazard	Pollution Incident (Material Harm)	Risk Assessment Prior to Pre-emptive Actions Inherent Risk			Pre-emptive Actions	Risk Ass	sessment After P Actions Residual Risk	re-emptive	Monitoring and Continuous Improvement		
	(Waterial Hariff)	Likelihood	Consequence	Risk Rating		Likelihood	Consequence	Risk Rating	Aspect to be Monitored	Details of Monitoring and Continuous Improvement	
					Quarry activities undertaken in accordance with ENV-PLA-2203 WARQ-002 Warburn Quarry Fire Management Plan						
Fuels, Lubricants and Other Hazardous Materials	Spill resulting in ecosystem damage to receiving waterway	Possible	Moderate	Medium	 Storage and handling of hydrocarbons is in accordance with AS 1940 and the Dangerous Goods Act 1975 Hydrocarbons stored in appropriately bunded areas (as per Figure 4) Adequate spill kits are available on site and training is provided in their use 	Unlikely	Minor	Low	Water quality as per EPL 934 and ENV- PLA-2203 WARQ-005 Warburn Quarry Surface Water and Groundwater Management Plan	Monitoring to be conducted in accordance with EPL 934 and ENV-PLA-2203 WARQ-005 Warburn Quarry Surface Water and Groundwater Management Plan Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic site visits	
Fuels, Lubricants and Other Hazardous Materials	Spill resulting in terrestrial ecosystem damage	Possible	Moderate	Medium	 Storage of hydrocarbons is audited during environmental inspections and opportunistic site visits 	Unlikely	Minor	Low	Area around hydrocarbon storages	Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic site visits	
Pests, Weeds and Diseases	Infestation/outbreak resulting in ecosystem damage	Possible	Moderate	Medium	Pest plants and animals, and diseases managed in accordance with ENV-PLA-2203 WARQ-003 Warburn Quarry Pest and Weed Management Plan Appropriately licensed personnel engaged to undertake pest plant and animal control Control of pest plant and animals, and diseases audited during environmental inspections and opportunistic site visits	Unlikely	Minor	Low	Presence and control of pest plants and animals, and diseases as per ENV-PLA-2203 WARQ-003 Warburn Quarry Pest and Weed Management Plan	Monitoring of presence and control of pest plants and animals, and diseases as per ENV-PLA-2203 WARQ-003 Warburn Quarry Pest and Weed Management Plan Monitoring as part of environmental inspections (as per ENV-PRO-002 Environmental Risk Management Procedure) as well as opportunistic site visits	

This risk assessment has been conducted utilising the following matrix.

	Almost Certain	Medium	High	Very High	Very High	Very High			
٦	Likely	Medium	Medium	High	Very High	Very High			
Likelihood	Possible Low		Medium	Medium	High	Very High			
=	Unlikely	Low	Low	Medium	High	High			
	Rare	Low	Low	Medium	Medium	High			
		Insignificant	Minor	Moderate	Major	Critical			
Consequence									

Figure 1: Mawsons risk matrix

ENV-PLA-2203 WARQ-011 v4 Page 8 of 16



8 Pollutants

Figure 4 in Section 11 provides the locations of pollutants described in the table below.

Location/tank	Pollutant	Maximum Volume
Adjacent to old workshop	Diesel fuel	25,000L
Workshop	Oils/lubricants	1,000L
Workshop	Petrol fuel	5L
Workshop	Herbicide	20L
Workshop	Brake cleaner	20L

9 Safety Equipment

Figure 4 in Section 11 provides the locations of safety equipment described in the table below.

Equipment	Location
Fire extinguishers	In all buildings, on mobile equipment and in light vehicles
Spill kits	Near main crushing plant and in workshop
Bunding	Diesel tank
Personal Protective Equipment (PPE)	Provided and required to be used in accordance with WHS-PRO-017 Personal Protective Equipment (PPE) Procedure
Eyewash station	Workshop
First aid kits	Office, workshop, and most plant, equipment and light vehicles
Defibrillator	Office

10 Communicating with Neighbours and the Local Community

Each neighbour within 2km of the quarry, will receive an in-person visit from Mawsons/Milbrae staff and a copy of this PIRMP with explanation of contact details for notifying Mawsons/Milbrae of complaints or concerns.

Specific messages in the event of a material pollution incident:

- Dust persons in the affected area should close windows and doors and remain inside until advised otherwise by Mawsons/Milbrae or emergency services.
- Fire implement fire safety plan and follow advice of emergency services
- Spill to waterways avoid entering or fishing in downstream waterways
- Pests, weeds and disease type of pest, weed or disease, location of outbreak, maintain vigilance

Minimising harm to persons on the premises

- Evacuate and assemble at the evacuation point at the front entry gate
- Initiate notifications, including emergency services
- Activate the emergency response plan





11 Maps and Site Plans

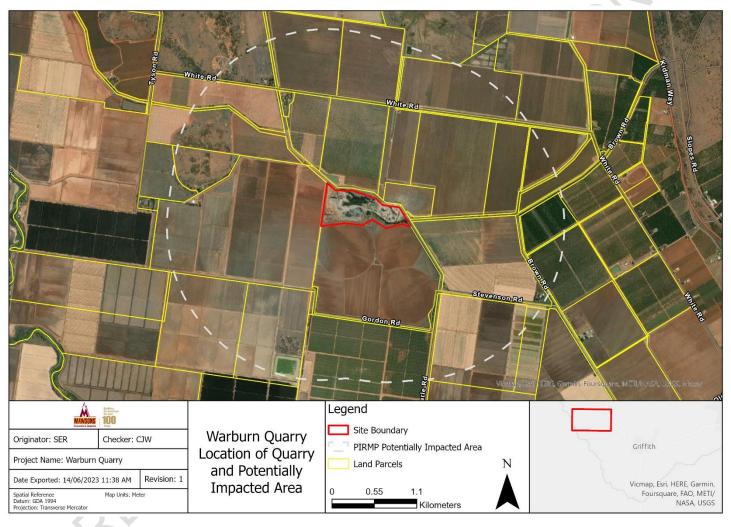


Figure 2: Location of quarry and potentially impacted area

ENV-PLA-2203 WARQ-011 v4 Page 10 of 16





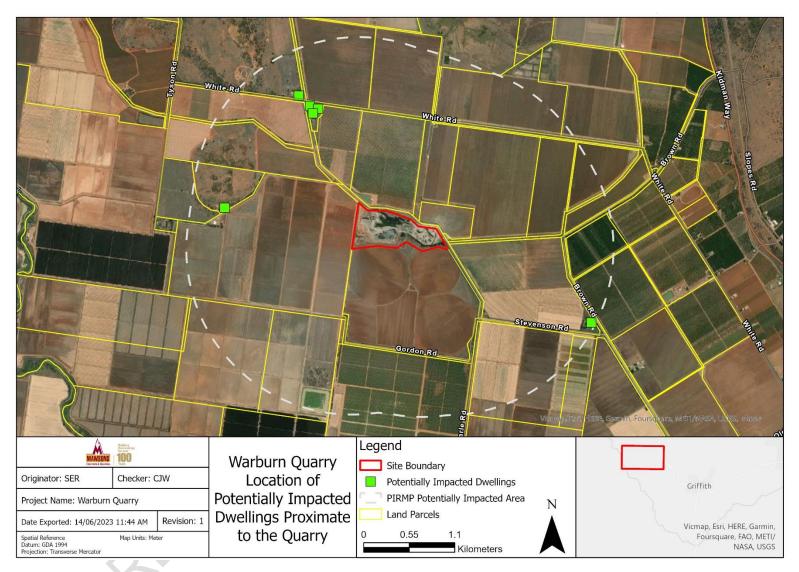


Figure 3: Location of potentially impacted neighbours proximate to the quarry

ENV-PLA-2203 WARQ-011 v4 Page 11 of 16







Figure 4: Location of pollutants, safety equipment and surface water drainage onsite

ENV-PLA-2203 WARQ-011 v4 Page 12 of 16



12 Incident Response

Actions to be taken during or immediately after a pollution incident and the person responsible.

Note: Actions should only be taken if safe to do so.

			Immediate Early Warning		Mitigatio	n Actions	Communication Updates		Clean Up		Close Out		
			Quarry Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager
	Dust	Excessive dust resulting in nuisance to neighbours	Shut down dust generating plant and/or equipment	Text message to neighbours	Notify EPA	Identify source of excessive dust generation Activate dust suppression if not already active Redirect water cart to most heavily affected area	Review weather data Assess clean up obligations	Text message to neighbours	Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	Text message to neighbours Report incident in O4i Provide information for investigation	 Conduct investigation Provide report to EPA
Incident (Material Harm)	Dust	Excessive dust resulting in health impacts to neighbours	Shut down dust generating plant and/or equipment	Phone call to neighbours	Notify EPA	Identify source of excessive dust generation Activate dust suppression if not already active Redirect water cart to most heavily affected area	Identify area of impact Assess clean up obligations Engage WHS team Engage other regulators and/or agencies as required	Phone call to neighbours	Update EPA	Engage contractor to clean exteriors of impacted residences and rainwater tanks, re-fill tanks	Liaise with contractor to ensure clean up meets obligations	 Phone call to neighbours Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA
	Dust	Excessive dust resulting in biodiversity impacts	Shut down dust generating plant and/or equipment	5 (-)	Notify EPA	Identify source of excessive dust generation Activate dust suppression if not already active Redirect water cart to most heavily affected area	Review weather data Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	 Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA

ENV-PLA-2203 WARQ-011 v4 Page 13 of 16





		Immediate Response	Early V	Varning	Mitigatio	n Actions	Communica	tion Updates	Clea	an Up	Clos	e Out
		Quarry Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager
Surface Water	Unauthorised discharge of wastewater resulting in ecosystem damage to receiving waterway	Divert water to sump or away from sensitive receiving environment		Notify EPA	Collect water samples for analysis	Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	 Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA
Surface Water	Localised flooding as a result of quarry impacts on surface water systems resulting in impacts to neighbours	Divert water to sump or away from sensitive receiving environment	Phone call to neighbours	Notify EPA	Collect water samples for analysis	Engage WHS team Engage other regulators and/or agencies as required Assess clean up obligations Review weather data	Phone call to neighbours	Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	 Phone call to neighbours Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA
Surface Water	Sedimentation resulting in ecosystem damage to receiving waterway	Divert water to sump or away from sensitive receiving environment		Notify EPA	Install sediment control devices Collect water samples for analysis	Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	 Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA
Groundwater	Groundwater contamination resulting in aquifer pollution	Divert contamination source to sump or away from sensitive receiving environment			Collect water samples for analysis	Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	Liaise with Quarry Manager to ensure clean up meets obligations	 Report incident in O4i Provide information for investigation 	Conduct investigation Provide report to EPA
Fire	Uncontrolled fire started or exacerbated as a result of quarry activities resulting in impacts to neighbours	Call 000Stop WorkClose Site	Phone call to neighbours		Activate ENV- PLA-2203 WARQ-002 Warburn Quarry Bushfire Management Plan	Engage WHS team Engage other regulators and/or agencies as required	Phone call to neighbours		As directed by Environment and Compliance Manager	 Assess clean up obligations Liaise with Quarry Manager to ensure clean up meets obligations 	 Phone call to neighbours Report incident in O4i Provide information for investigation 	Support WHS team to conduct investigation
Fuels, Lubricants and Other Hazardous Materials	Hydrocarbon spill resulting in ecosystem damage to receiving waterway	Stop spill at the source		Notify EPA	Collect water samples for analysis	Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	Assess clean up obligations Liaise with Quarry Manager to ensure clean up meets obligations	Report incident in O4i Provide information for investigation	Conduct investigation Provide report to EPA

ENV-PLA-2203 WARQ-011 v4





			Immediate Response	Early Warning		Mitigation Actions		Communication Updates		Clean Up		Close Out	
			Quarry Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager	Quarry Manager	Environment and Compliance Manager
	Fuels, Lubricants and Other Hazardous Materials	Hydrocarbon spill resulting in terrestrial ecosystem damage	Stop spill at the source		Notify EPA	Collect soil samples for analysis	Assess clean up obligations		Update EPA	As directed by Environment and Compliance Manager	 Assess clean up obligations Liaise with Quarry Manager to ensure clean up meets obligations 	 Report incident in O4i Provide information for investigation 	 Conduct investigation Provide report to EPA
	Pests, Weeds and Diseases	Pest plant or animal infestation or disease outbreak resulting in ecosystem damage	Control traffic movements to prevent spread	Text message to neighbours	Notify Local Land Services (LLS)	Assess the extent or spread of the infestation or outbreak	 Engage LLS for advice and develop a containment plan Engage other regulators and/or agencies as required 	Text message to neighbours	Update LLS	Engage suitably qualified contractor to conduct control or eradication works	Liaise with contractor to ensure clean up meets obligations	 Report incident in O4i Provide information for investigation 	 Conduct investigation Provide report to LLS

ENV-PLA-2203 WARQ-011 v4 Page 15 of 16



13 Coordinating with Persons

Initial notifications and status updates to neighbours will be undertaken by the Quarry Manager or their delegate as described in Section 6.

Initial notifications to regulatory authorities will be undertaken by the Environment and Compliance Manager or their delegate.

Coordination with regulatory authorities and emergency responders that attend site will be managed by the Quarry Manager or their delegate.

Status updates to, regulatory authorities, and emergency responders that are not on site will be managed by the Environment and Compliance Manager or their delegate.

14 Training

Nature of Training	Training Objectives
Site Induction	Ensure that all personnel entering the site are aware of the hazards and control measures and any specific site conditions within the quarry
Emergency Response	During the testing of this PRIMP workers will have the opportunity to be trained on the emergency response equipment such as spill kit contents and use of these items. Formal fire extinguisher training.

15 Testing and Updating the PIRMP

It is a legal requirement to test the plan every 12 months and within one month of any pollution incident that caused or threatened material harm to the environment.

The PIRMP testing form is hosted on the Mawsons intranet at https://mawsons.integralcs.com/inform/manageinformformrecord/subpageadd/form_id/300. Actions and updates to the PIRMP are also managed through the Mawsons intranet.

16 Document History

Version	Date	Amended By	Reason for Change			
1			Document created			
2						
3	01/05/2021					
4	16/03/2023	B Dwyer	Updated following change of site ownership			