



POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN (PIRMP)

AIM: This Pollution Incident Response Management Plan (PIRMP) has been developed to ensure that if a pollution incident occurs in the course of Schmidt Quarries (SQ) activities, that all aspects of the environment that may be threatened are managed and rectified in accordance with the environmental legislation.

DEFINITION: *Pollution Incident*

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.

WHAT: The purpose of the PIRMP is to set out control measures to prevent harm or injury to persons and damage to the environment caused by the operations of SQ. It is also designed to set out the response to any environmental incident by SQ and its personnel:

- Initial responses to minor environmental incidents
- Detailed responses to major environmental incidents
- Notifications of environmental incidents to key stakeholders (e.g. Near Neighbours)
- Notifications to Regulatory Agencies (e.g. EPA)
- Testing of the PIRMP Annually
- Annual review and reporting of the PIRMP

The PIRMP extends to all areas of the quarry operation and applies to the overall life cycle requirements of the quarry and any of the infrastructure or mobile plant that may contribute to an environmental incident. The PIRMP applies to all workers, contractors, and sub-contractors involved with the site in relation to the aspects of work they undertake.

The initial assessment of potentially polluting substances is included in Appendix-1 and details areas that may be associated with an environmental incident on site. This initial assessment will be completed by the HSE Manager in consultation with the Mine Operator and Quarry Manager.

WHO: All workers on site are required to have the necessary skills, training and/or experience to perform tasks and respond to any incident that may have an impact on the environment. The Quarry Manager is responsible for the implementation of the PIRMP and in consultation with the HSE Manager will be responsible for the annual and post incident testing of the PIRMP.

HOW: The PIRMP provides guidance on the overall management strategy and work practices to be used to manage pollution incident responses. Appendix-1 describes the hazards associated with quarrying activities with Appendix-2 describing how particular potential environmental incidents from identified risks in Appendix-1 may be managed so far as is reasonably practicable and in conjunction with elements of the SQ Safety Management System (SMS) (e.g. Element-9 Emergency Planning and Element-7 Health Control Plan).

The SQ SMS contains the following information both on-site and in the electronic SMS:

- Potential Pollutants Diagram (Site Specific)
- Hazardous Substances and Dangerous Goods (e.g. Guidelines, SOP, Register, SDS's)
- Emergency Management Plan
- Inductions and Training Registers
- Notifications to and from Regulatory Agencies (e.g. EPA, Resources Regulator)



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Communication with Neighbouring Properties and the Community

If an incident occurs the Mine Operator in consultation with the Quarry Manager shall ensure any neighbouring properties will be advised of the incident in the following ways:

1. Telephone the property owner immediately or as soon as possible and advise them of the incident details (i.e. type of pollution, type of chemical, if the authority has been contacted) and any safety issues for humans, animals or plants.
2. Details of preventative actions taken and details of avenues they should undertake to ensure their safety is not compromised.

The SQ website shall be updated to ensure the community located around the quarry area are made aware of the incident and are provided with controls needed to remain safe (e.g. close all windows, stay inside). Authorities notified.

WHEN: The PIRMP shall be implemented at the occurrence of any environmental incident utilising Appendix-2 as a guideline for response. The PIRMP shall be tested annually and at one (1) month post any environmental incident to ensure readiness and currency and to ensure responses remain adequate.

ACTION: Should an environmental incident occur the Quarry Manager/Supervisor shall be advised immediately and determine the response required utilising Appendix-2 as a guideline. The Quarry Manager/Supervisor shall advise the HSE Manager/Mine Operator of any incident and complete *SQ-HSE-FRM-022 Environmental Incident Report* and if any worker or plant is involved a *SQ-HSE-FRM-021 Incident Near Miss Report* so as to facilitate any reporting or notifications required based on the severity and potential impact of the incident. The HSE Manager/Mine Operator shall be responsible for notification to the EPA and other relevant authorities.

DOCUMENT CONTROL: All documentation relating to the PIRMP will be filed at each site as required, and electronically on the company computer systems.

Any incident requiring health monitoring information will be treated as strictly confidential and will be filed in accordance with *SQ-HSE-PLN-002 – Health Control Plan* requirements.

RISK ASSESSMENT MATRIX

	Insignificant	Minor	Moderate	Major	Extreme
Almost Certain	Medium (19)	Medium (16)	High (8)	Very High (3)	Very High (1)
Likely	Medium (20)	Medium (17)	High (9)	High (6)	Very High (2)
Possible	Low (21)	Medium (18)	Medium (13)	High (7)	High (4)
Unlikely	Low (24)	Low (22)	Medium (14)	Medium (11)	High (5)
Rare	Low (25)	Low (23)	Medium (15)	Medium (12)	Medium (10)

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APPENDIX – 1 Hazards Associated with Quarrying Activities that may present harm to human health or the environment.

Hazard	Risk Rating	Impact on Neighbouring facilities	Circumstances that could increase likelihood	Actions taken to minimise risk	Emergency Equipment	Responsible
Storage of Hazardous substances	Medium (14)	NO	<ul style="list-style-type: none"> Inadequate storage areas Incompatible Storage Wrongful disposal 	<ul style="list-style-type: none"> Adequate storage of all hazardous substances Ventilation Regular documented inspections of areas Spill kit SDS documents Disposal in accordance with SDS 	<ul style="list-style-type: none"> Bunding Spill Kit Fire Extinguishers Gloves Masks 	Quarry Manager
Major Fuel Storage (ground contamination)	High (7)	YES	<ul style="list-style-type: none"> Lack of maintenance and inspections Damage to bunding 	<ul style="list-style-type: none"> Area around fuel to be bunded Regular documented inspections of the area Spill kit Emergency Management Plan 	<ul style="list-style-type: none"> Bunding Spill Kit Fire Extinguishers Gloves Masks 	Quarry Manager
Fire	High (7)	YES	<ul style="list-style-type: none"> Hot weather Lack of adequate fire extinguishers Lack of plant maintenance 	<ul style="list-style-type: none"> Ensure fire bans are known Hot Work Permit System Fire extinguishers checked Maintenance of plant undertaken as per manufacturers recommendations No ignition sources around fuels 	<ul style="list-style-type: none"> Spill Kit Fire Extinguisher Gloves Water truck 	Quarry Manager
Rubbish and Waste	Low (24)	NO	<ul style="list-style-type: none"> Wrongful disposal 	<ul style="list-style-type: none"> Dispose of recycled waste at approved waste centres Engage contractors to remove recycled materials Recycle on site 	<ul style="list-style-type: none"> Nominated recycling areas Contact details of recycling premises 	Quarry Manager

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Hazard	Risk Rating	Impact on Neighbouring facilities	Circumstances that could increase likelihood	Actions taken to minimise risk	Emergency Equipment	Responsible
Dust from Quarrying activities	Medium (18)	YES	<ul style="list-style-type: none"> • Wind • Water truck not operational 	<ul style="list-style-type: none"> • Water truck maintained as per manufacturers recommendations • Water truck utilised in accordance with safety requirements (e.g. Not overwatering roads creating hazardous driving conditions) 	<ul style="list-style-type: none"> • Water truck • Masks • Safety eye wear 	Quarry Manager
Sediment ponds	Low (24)	YES	<ul style="list-style-type: none"> • Heavy rain • Fuel and chemical storage inadequate 	<ul style="list-style-type: none"> • Store chemicals and fuels away from ponds • Store chemicals in bunded areas • Regular inspection of sediment ponds 	<ul style="list-style-type: none"> • Bunding • Spill kits • Earthmoving equipment 	Quarry Manager
Plant leaking fluids and chemicals	Low (24)	NO	<ul style="list-style-type: none"> • Lack of Maintenance • Daily inspections not undertaken properly 	<ul style="list-style-type: none"> • Maintenance regime as per the manufacturer's recommendations • Daily inspections undertaken properly and monitored • Spill kit 	<ul style="list-style-type: none"> • Maintenance regime • Spill kit • Gloves 	Quarry Manager/ Workshop Coordinator
Explosive materials brought onsite by contractor	Low (24)	YES	<ul style="list-style-type: none"> • Inadequate storage and transportation by contractor 	<ul style="list-style-type: none"> • Contractor to provide Safe working procedures regarding explosive materials • Subcontractor to be monitored and supervised by Quarry Manager • Contractor to be licenced 	<ul style="list-style-type: none"> • Licenced Contractor • Storage vans • Barricading 	Quarry Manager/ Shotfirer



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Hazard	Risk Rating	Impact on Neighbouring facilities	Circumstances that could increase likelihood	Actions taken to minimise risk	Emergency Equipment	Responsible
Air Quality – emissions	Low (24)	YES	<ul style="list-style-type: none"> Lack of Maintenance of plant Daily inspections not undertaken properly 	<ul style="list-style-type: none"> Maintenance regime as per the manufacturer’s recommendations Daily inspections undertaken properly and monitored 	<ul style="list-style-type: none"> Maintenance regime Respirators 	Quarry Manager/ Plant Operator
Loss of Wildlife	Low (24)	YES	<ul style="list-style-type: none"> Change in Production areas Vehicle collision with wildlife 	<ul style="list-style-type: none"> Rehabilitation plan developed by a qualified consultant and implemented Monitoring & Inspections Operator training and awareness 	<ul style="list-style-type: none"> Maintenance regime Rehabilitation Plan 	Mine Operator/ Director
Loss of Farmland	Low (25)	YES	<ul style="list-style-type: none"> Change in production areas Noise Dust 	<ul style="list-style-type: none"> Rehabilitation plan developed by a qualified consultant and implemented Monitoring & Inspections 	<ul style="list-style-type: none"> Maintenance regime Rehabilitation Plan Water truck 	Mine Operator/ Director



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APPENDIX – 2 Environmental Incident Response Guidelines – The following should be the minimum actions taken if an incident occurs.

INCIDENT RESPONSE PROCEDURES		
Type of Incident	Actions to be undertaken	Responsible
Storage of Hazardous Substances (Major spill)	<ul style="list-style-type: none">• Notify Emergency Services (If Required)• Use a spill kit or quarrying sand• Quarry Manager report spill to the HSE Manager immediately• Work to stop and area evacuated if required• HSE Manager shall report the spill to the relevant authorities• Do not disturb the area• Follow directions from Emergency Services and Authorities• Dispose of contaminated materials at authorised disposal sites	Quarry Manager / HSE Manager
Storage of Hazardous Substances (Minor spill)	<ul style="list-style-type: none">• Contain spill using a spill kit	Quarry Manager



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INCIDENT RESPONSE PROCEDURES		
Type of Incident	Actions to be undertaken	Responsible
Major Fuel Storage (ground contamination)	<ul style="list-style-type: none"> Notify Emergency Services (If Required) Contain spill using a spill kit Quarry Manager report spill to the HSE Manager immediately Work to stop and area evacuated if required HSE Manager shall report the contamination to the relevant authorities Notify neighbours Do not disturb the area Follow directions from Emergency Services and Authorities 	Quarry Manager / HSE Manager
Fire to plant or surrounding areas (Major)	<ul style="list-style-type: none"> Notify Emergency Services Quarry Manager to evacuate the area immediately Quarry Manager report fire to the HSE Manager immediately HSE Manager shall report the fire to the relevant authorities Notify neighbours Notify community (if required) 	Quarry Manager / HSE Manager
Fire to plant or surrounding areas (Minor)	<ul style="list-style-type: none"> Fire to be extinguished immediately using a fire extinguisher or water truck Quarry Manager report fire to the HSE Manager immediately HSE Manager shall report the fire to the relevant authorities 	Quarry Manager / HSE Manager



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INCIDENT RESPONSE PROCEDURES		
Type of Incident	Actions to be undertaken	Responsible
Sediment ponds	<ul style="list-style-type: none">• Use a spill kit or quarrying sand to stop contamination• Quarry Manager report contamination to the HSE Manager immediately• Work to stop if required• HSE Manager shall report the spill to the relevant authorities• Do not disturb the area• Follow directions from Authorities• Notify neighbours if required	Quarry Manager / HSE Manager
Plant leaking fluids and chemicals	<ul style="list-style-type: none">• Contain Spill using a spill kit	Quarry Manager
Explosion from explosive materials	<ul style="list-style-type: none">• Stop work immediately and evacuate the areas• Quarry Manager report explosion to the HSE Manager immediately• HSE Manager shall report the explosion to the relevant authorities• Do not disturb the area• Follow directions from Authorities• Notify neighbours• Notify community (update website)	Quarry Manager / HSE Manager



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INCIDENT RESPONSE PROCEDURES		
Type of Incident	Actions to be undertaken	Responsible
Air Quality – emissions (Major)	<ul style="list-style-type: none">• Stop work immediately and evacuate the areas• Quarry Manager report omissions to the HSE Manager immediately• HSE Manager shall report the issue to the relevant authorities• Do not disturb the area• Follow directions from Authorities• Notify neighbours• Notify community (update website)	Quarry Manager / HSE Manager
Air Quality – emissions (Minor)	<ul style="list-style-type: none">• Use water truck	Quarry Manager