

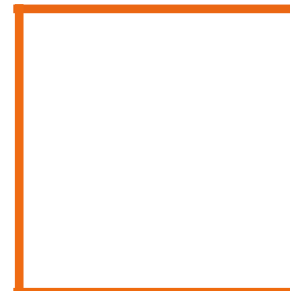


Hanson

ABN: 90 009 679 734

Wagga Wagga Quarry

ENVIRONMENTAL MANAGEMENT SYSTEM





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Document Control			
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Contents

1.	Introduction.....	3
1.1	Overview	3
1.2	Scope	3
1.3	Project/Site Description	3
2	Environmental Management Strategy	7
2.1	Environmental Management and Performance Criteria	7
2.2	Legislative and External Requirements.....	10
2.3	Guidelines.....	11
2.4	Licencing	12
2.4.1	Environmental Protection Licence (EPL) No. 2433	12
2.4.2	Water Licencing.....	12
3	Implementation and Operation.....	12
3.1	Personnel Structure and Responsibilities	12
3.2	Updates to Plans/Procedures/Strategies.....	13
3.3	Training	14
3.4	Communication and Consultation	14
3.4.1	Internal Communication	14
3.4.2	External Communication.....	14
3.4.2.1	Community Consultative Committee	14
3.4.2.2	Additional Community Consultation	14
3.4.3	Community Complaints	16
3.4.4	Conflict Resolution	16
3.5	Emergency Response	16
4	Monitoring and Corrective Action	17
4.1	Monitoring Programs	17
4.2	Non-Compliance	18
4.3	Incidents	19

List of Appendices

- A. Air Quality Management Plan
- B. Appendix B Noise Management Plan
- C. Appendix C Traffic Management Plan
- D. Appendix D Groundwater Audit and Improvement Program
- E. Appendix E Water Management Plan
- F. Appendix F Water Monitoring Program
- G. Appendix G Waste Management Plan
- H. Appendix H Rehabilitation Management Plan
- I. Appendix I Biodiversity Management Plan
- J. Appendix J Emergency Response Plan
- K. Appendix K Environmental Monitoring Locations

L. Appendix L Environmental Policy

1. Introduction

1.1 Overview

Hanson Construction Materials Pty Ltd own and operate a sand and river gravel quarry located on the floodplain of the Murrumbidgee River five kilometres west of the city of Wagga Wagga. The project involves the extraction of up to 150,000 tonnes per annum of construction aggregates over a project life of 25 years. Aggregates extracted from the site would be processed at the site and then transported by road to regional customers in Wagga Wagga, Griffith, Mildura, Leeton, Canberra, Temora, Shepparton and as far south as Melbourne. The project would involve approximately half a million dollars of direct capital investment and would directly employ between 10 and 15 staff. A further 10 employment positions are expected to be supported as subcontracted truck drivers.

The Department of Planning and Environment (DP&E) granted approval for the project subject to a number of approval conditions (Ref 07_0069, November 22, 2011). Under Schedule 5, Condition 1 of the Project Approval, an Environmental Management Strategy (EMS) for the project must be prepared to provide an overview of environmental management at the site.

1.2 Scope

This EMS addresses the requirements of the Project Approval. Specifically, this strategy:

- provides the strategic framework for the environmental management of the project;
- identifies the statutory approvals that apply to the project;
- describes the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
- describes the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance; and
 - respond to emergencies; and
- includes:
 - copies of any strategies, plans and programs approved under the conditions of this approval; and
 - a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.

1.3 Project/Site Description

Hanson Construction Materials Pty Ltd (Hanson) proposes to extend its Wagga Wagga sand and gravel quarry in a project known as the Wagga Wagga Quarry Extension (see Figure 1). The major components of the project are summarised in Table 1 and are depicted in Figures 2 and 3. The project is described in full in Hanson's Environmental Assessment (EA) prepared in April 2010.

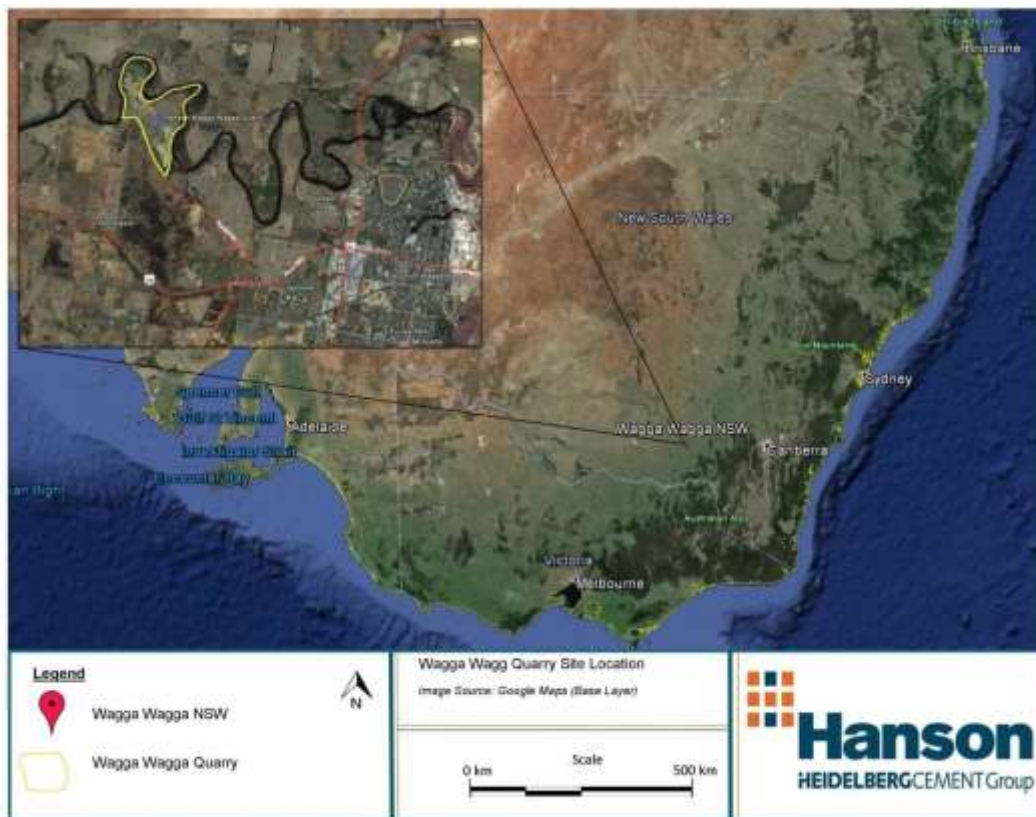


Figure 1- Project Location

Table 1: Project Description

Aspect	Description
Project summary	Continuation and expansion of the Wagga Wagga Quarry including: <ul style="list-style-type: none"> • Extraction of up to 150,000 tpa of sand and gravel • Construction of haul roads, levee banks and sediment dams; • Processing and washing of raw quarried material; • Loading and dispatch by road of an average of 150,000 tpa of quarry products including concrete, aggregates, asphalt aggregates and road base; • Stockpiling of topsoil for reuse in rehabilitation works; and • Progressive rehabilitation of the site.
Total Site Area	200ha.
Extraction Areas	51.6 ha (proposed new extraction area, including up to 22.5 ha of quarry pits); 29 ha (previous extraction area, including up to 16.8 ha of exhausted quarry pits).
Extraction Method	40-tonne excavator.

Extraction Rate	Up to 150,000 tpa.
Extraction Staging	Four separate quarry pits, operated as five successive extraction stages, starting from the north and extending southwards.
Resource	In excess of five million tonnes of sand and gravel.
Depth of Extraction	158 m AHD without the prior written approval of the Secretary. Compliance with this condition will be addressed in the Annual Review.
Processing and Facilities	Operation of existing processing facilities including a primary feed crusher and screens, with connecting conveyor belts. The site contains an existing workshop and office amenities building. A weighbridge is located on the site access road.
Water Management	Water produced from licenced groundwater dewatering operations to be treated on-site (settled to <50 ppm suspended solids) then discharged to the Murrumbidgee as is current site practice.
Main Products	Concrete aggregates, asphalt aggregates, road base and sundry aggregates.
Product Transport	<p>All products would be transported by road, via Roach Road and McNickle Road to the Sturt Highway and thence to market destinations.</p> <p>Maximum of 6 heavy vehicle movements per hour between 3 pm and 6 pm.</p>
Project Life	Quarrying operations may take place at the site until 31 December 2036.
Rehabilitation	Rehabilitation is proposed to be a combination of wetlands, grassland and a revegetated riparian zone. Levee banks would be removed and the material returned to pits. Pit banks would be regraded and revegetated and all pits allowed to fill with water to a standing water level of 168m AHD (except Stage 1, which would be refilled to 1m above groundwater level). The final outcome would be a large grassed area, with five water-filled pits with vegetation around the perimeters.
Employment	The project would directly employ between 10 and 15 people during operation, and would support employment of an additional 10 subcontracted truck drivers.
Capital Value	\$0.5 million.
Construction	Construction of haul roads, levee banks and sediment dams, and surface water diversion banks (if required).
Hours of Operation	<p>Quarrying operations</p> <p>Monday – Friday: 6 am – 6 pm</p> <p>Saturdays: 8 am – 1 pm</p> <p>Sundays and Public Holidays: No Activities</p> <p>Transportation off-site</p> <p>Monday – Friday 6 am – 6 pm</p> <p>Saturdays: 8 am – 1 pm</p> <p>Sundays and Public Holidays: No activities</p>



Figure 2- Project layout

2 Environmental Management Strategy

2.1 Environmental Management and Performance Criteria

The following environmental management/monitoring plans (EMPs) have been prepared in accordance with the requirements of the Project Approval:

- Air Quality Management and Monitoring Plan (March 2017). Attachment A.
- Noise Monitoring Program (March 2017). Attachment B.
- Traffic Management Plan (Insite Planning, March 2017). Attachment C.
- Comprehensive Water Audit (Evans & Peck; June 2012). Attachment D.
- Water Improvement Program (Evans & Peck; June 2012). Attachment D.
- Water Management Plan (Martens and Associates; March 2017). Attachment E, incorporating:
 - Site Water Balance
 - Erosion and Sediment Control Plan
 - Surface Water Management Plan
 - Flood Management Plan
- Water Monitoring Program (Martens and Associates; March 2017). Attachment F.
- Waste Management Plan (Hanson; July 2014). Attachment G.
- Rehabilitation Management Plan (March 2017). Attachment H.
- Biodiversity Management Plan (Hanson, July 2016). Attachment I.
- Corporate Environmental Policy. Attachment J.

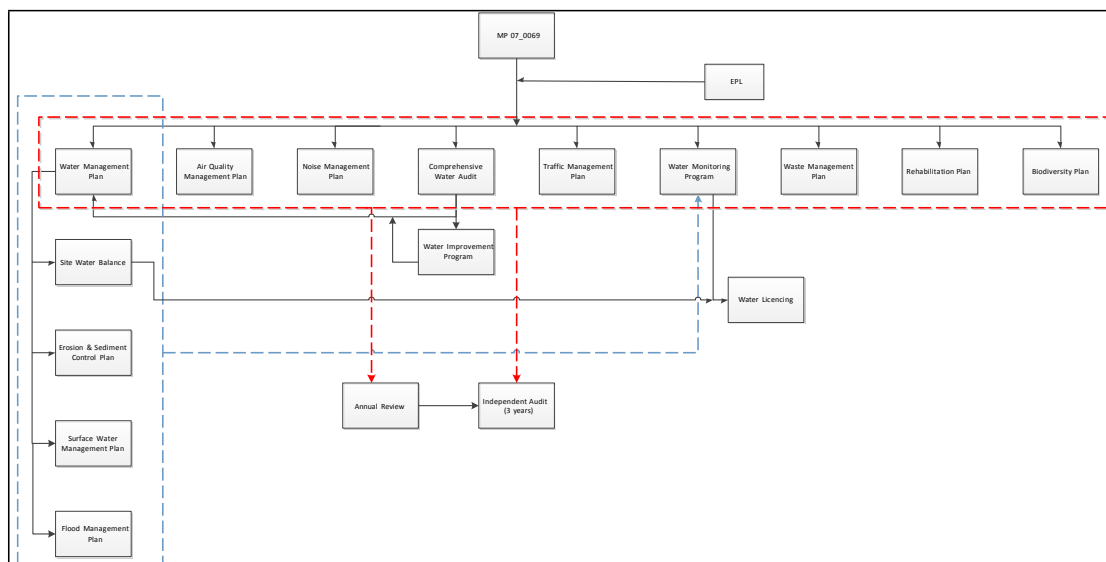


Figure 3: Project EMP strategic framework

Figure 3 shows the overarching strategic framework for the project. The conditions of consent for MP 07_0069 are managed through the set of environmental management plans (EMPs) to ensure the project conforms and meets the expected outcomes of the development consent. The project's Environmental protection Licence plays a key role in prescribing the relevant environmental criteria of emissions and discharges which the EMPs must achieve. The Annual Review (AR) is the reporting mechanism by which the project's performance is reported publically

on a yearly basis. The Independent Audit provides an independent third party review of the entire project, the EMPs, and the AR on a three (3) yearly basis.

The resultant key environmental management and performance outcomes for the site are summarised in Table 2. Reports can be found in Attachments A – J.

Table 2- Key environmental management and performance outcomes

OBJECTIVES	KEY PERFORMANCE OUTCOMES
Noise	
(a) To ensure compliance with all relevant Project approval and Environment Protection Licence criteria and reasonable community expectations.	(i) Compliance is achieved with all relevant criteria nominated in the Project Approval 07_0069 and Environment Protection Licence and reasonable community expectations.
(b) To implement appropriate noise management and mitigation measures during all stages of the Project.	(ii) All identified noise management and mitigation measures are implemented to the extent required.
(c) To implement an appropriate monitoring program to establish compliance or otherwise with relevant criteria during all stages of the Project.	(iii) All identified monitoring is undertaken in accordance with the relevant procedures and at the relevant intervals.
(d) To implement an appropriate complaints handling and response protocol	(iv) Complaints (if any) are handled and responded to in an appropriate and timely manner.
(e) To implement continual improvement for investigating, implementing and reporting on reasonable and feasible measures to reduce noise.	(v) An appropriate continual improvement program has been implemented.
(f) To implement an appropriate incident reporting program, if required.	(vi) Incidents (if any) are reported in an appropriate and timely manner.
Air Quality	
(a) To ensure compliance with all relevant Project approval and Environment Protection Licence criteria and reasonable community expectations.	(i) Compliance is achieved with all relevant criteria nominated in the Project Approval 07_0069 and Environment Protection Licence and reasonable community expectations.
(b) To implement appropriate air quality management and mitigation measures during all stages of the Quarry.	(ii) All identified air quality management and mitigation measures are implemented to the extent required.
(c) To implement an appropriate monitoring program to establish compliance or otherwise with relevant criteria during all stages of the Quarry.	(iii) All identified monitoring is undertaken in accordance with the relevant procedures and at the relevant intervals.
(d) To implement an appropriate complaints handling and response protocol	(iv) Complaints (if any) are handled and responded to in an appropriate and timely manner.
(e) To implement continual improvement for investigating, implementing and reporting on reasonable and feasible measures to reduce air quality emissions.	(v) An appropriate continual improvement program has been implemented.
(f) To implement an appropriate incident reporting program, if required.	vi) Incidents (if any) are reported in an appropriate and timely manner.
Water, Erosion & Sediment Control	

(a) To ensure compliance with all relevant Project approval and Environmental Protection Licence criteria and reasonable community expectations.	(i) Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies.
(b) To ensure sufficient water is available during all phases of the life of the Quarry for environmental and operation purposes	(ii) Sufficient water is available for all Quarry-related purposes, including for environmental and operational purposes.
(c) To ensure that appropriate sediment and erosion control measures are implemented and maintained.	(iii) All water management structures constructed and maintained in accordance with Landcom (2004) and DECC (2008).
(d) To ensure that appropriate chemical and hydrocarbon management is implemented and maintained.	(iv) All chemicals and hydrocarbons stored and used in accordance with manufactures instructions, Material Data Safety Sheet requirements and Australian Standards in a manner that ensure risk of water contamination is reduced to an acceptable level.
(e) To ensure that water within the Site is used in an efficient and environmentally responsible manner.	(v) Water resources are managed in a manner that maximises environmental flows and minimised the potential for adverse impacts to water resources.
(f) To ensure that an appropriate surface water and groundwater monitoring program is implemented throughout the life of the Quarry.	(vi) Water monitoring programs are sufficiently robust to detect any adverse water quality or quantity impacts associated with the Quarry to allow appropriate adaptive management measures to be implemented.
(g) To ensure that appropriate contingency and emergency management plans are in place and regularly reviewed.	(vii) Contingency and emergency management plans are prepared for all relevant contingencies and regularly reviewed and upgraded.
(h) To implement an appropriate incident reporting program, if required.	(viii) Incidents (if any) reported in an appropriate manner.
(i) To ensure that all relevant water-related information is made available in a timely and accessible manner.	(ix) All water-related information is available in a timely manner on the Quarry website.
Rehabilitation Management	
(a) To ensure compliance with all relevant project approval conditions, statements of commitment and reasonable community expectations.	(i) Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies.
(b) To implement appropriate progressive rehabilitation and landscape management and mitigation measures during all stages of the Quarry	(ii) All identified rehabilitation and landscape management and mitigation measures are implemented in a timely manner.
(c) To appropriately manage site preparation works to ensure that suitable rehabilitation material remain for rehabilitation operations during all stages of the Quarry	(iii) Sufficient, viable rehabilitation materials are available for rehabilitation operations throughout all stages of the Quarry
(d) To ensure that the visual amenity of residences and public vantage points is not unacceptably impacted by Quarry- related activities.	(iv) Visual amenity management measures are effective and implemented in a timely manner.
(e) To establish a final landform that is consistent with that identified in the Environmental Assessment.	(v) Final landform is safe, stable, and non-polluting and, with the exception of the Extraction Area, requires land management practices that are equivalent to those required for nearby agricultural land.
(f) To establish an appropriate final soil profile and vegetation community on the final landform	(vi) Final soil cover and vegetation has similar soil viability/microbial activity, litter depth, species composition as nearby agricultural land.
(g) To establish an appropriate beneficial final land use consistent with surrounding land uses.	(vii) Final landform is suitable for an appropriate beneficial land use that is consistent with surrounding land uses at the time of Quarry closure.
(h) To appropriately manage those sections of the Site that would not be used for Quarry- related activities.	(viii) Identified areas are managed in a manner that ensures appropriate beneficial use of that land.

(i) To implement appropriate weed, pest and bushfire management measures	(ix) Weeds, pests and bushfire risks are appropriately managed in consultation with neighbouring landholders.
(j) To implement an appropriate complaints handling and response protocol	(x) Complaints (if any) are handled and responded to in an appropriate manner.
(k) To implement appropriate corrective and preventative actions, if required.	(xi) Corrective and preventative actions are implemented in a timely manner, if required
(l) To implement an appropriate incident reporting program, if required.	(xii) Incidents (if any) are reported in an appropriate manner.
Traffic Management	
(a) Adoption, implementation and enforcement of a Truck Driver Code of Practice to ensure that project-related traffic uses Roach Road and McNickle Road in a safe manner	Compliance and acceptance of the Truck Driver Code of Practice by all heavy vehicle drivers using the quarry.
(b) Traffic management along these roads to minimise potential conflicts between project-related traffic and other road users and pedestrians, including truck driver awareness of the Wiradjuri Walking Track;	Ensure compliance with the conditions included under Schedule 3 Part 19 of the consent conditions.
(c) management of dust generated by project-related traffic on these roads; and	Minimise impacts on the community;
(d) review of the standard of maintenance of these roads and their intersections.	Hanson Construction Materials Pty Ltd will pay \$94 contributions for road maintenance as a result of this development. It will be Wagga Wagga Council's responsibility to ensure McNickle Road and Roach Road are suitably maintained in the future.
Waste Management	
(a) dispose of processing fines in a pit or other location agreed to by the Secretary, and shall not dispose of fines on the flood plain surface after 31 December 2012.	Processing plant waste water to be treated in accordance with the Water Management Plan approved by the Secretary.
(b) minimise the waste generated by the project	Identify the various waste streams of the project, estimate the volumes of waste material that would be generated by the project, and describe and justify the proposed strategy for disposing of this waste material.
(c) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.	Include a program to monitor the effectiveness of these measures
Biodiversity Management (Flora & Fauna)	
(a) Minimise loss of functional role of species	Compliance with the Vegetation Clearance Procedure and the Revegetation Management Plan.
(b) Minimise clearing of native vegetation; and removal of dead wood and dead trees	Compliance with the Vegetation Clearance Procedure.
(c) Control the removal of bush rock from the disturbance area.	Compliance with the Vegetation Clearance Procedure.
(d) Minimise/manage the invasion of exotic perennial grasses	Compliance with the Feral Animal and Weed Management Plan.
(d) Reduce predation risk by European Red Fox , and Feral Cats.	Compliance with the Feral Animal and Weed Management Plan.

2.2 Legislative and External Requirements

Environmental monitoring and management for the site must also meet the requirements of a number of statutory requirements. Key legislation that will guide management of the quarry includes the following.

- Environmental Planning and Assessment Act 1979.
- Local Government Act 1993.

- Mine Health and Safety Act 2004.
- NSW Work Health and Safety Act 2011.
- Protection of the Environment Operations Act 1997.
- Protection of the Environment Administration Act 1999.
- Contaminated Land Management Act 1997.
- Threatened Species Conservation Act 1995.
- National Parks and Wildlife Act 1974.
- Water Act 1912.
- Water Management Act 2000.
- Soil Conservation Act 1938.
- Dangerous Goods Act 1975.
- Roads Act 1993.
- Commonwealth Environment Protection and Biodiversity Conservation Act 1999.
- Commonwealth National Greenhouse and Energy Reporting Act 2007.

2.3 Guidelines

The following guidelines are, or are potentially, of relevance to the Quarry's Environmental Management System.

- Australian Dangerous Goods Code 7th Edition.
- Environment and Health Protection Guidelines – On-site Sewage management for Single Households (1998)
 - Guidelines for Establishing and Operating Community Consultative Committees
 - for Mining Projects published by Department of Planning in 2007.
 - Managing Urban Stormwater: Soils and Construction published by Department of
 - Housing in 2004.
 - Managing Urban Stormwater: Soils and Construction – Volume 2C – Unsealed
 - Roads published by Department of Environment and Climate Change in 2008.
 - Managing Urban Stormwater: Soils and Construction – Volume 2E – Mines and
 - Quarries published by Department of Environment and Climate Change in 2008.
 - National Water Quality Management Strategy: Australian Guidelines for Water
 - Quality Monitoring and Reporting published by ANZECC/ARMCANZ in 2000.
 - NSW EPA Approved Methods for the Sampling and Analysis of Air Pollutants in
 - NSW published by Environment Protection Authority in 2007.
 - NSW EPA Approved Methods and Guidance for Modelling in Assessment of Air
 - Pollutants in NSW published by Environment Protection Authority in 2005.
 - EPA 454/R-99-005 Meteorological monitoring guidance for regulatory modelling
 - applications published by United States Environment Protection Authority in
 - 2000.

- NSW Road Noise Policy published by Environment Protection Authority in 2011.
- NSW Industrial Noise Policy published by Environment Protection Authority in 2000.
- Waste Classification Guidelines published by Department of Environment, Climate Change and Water in 2009.

2.4 Licencing

2.4.1 Environmental Protection Licence (EPL) No. 2433

Applies to all scheduled activities undertaken by Hanson Construction Materials at Lot 2 DP 610795 and part Lot B DP 381991 (north of Roach Road). The license provides the following:

- Performance criteria for environmental management including pollutant concentration load limits, waste limits, noise limits, air quality (odour and dust) limits;
- Monitoring and record keeping requirements;
- Testing methods;
- Pollution complaints handling; and
- Reporting requirements.

2.4.2 Water Licencing

The quarry currently holds water access licenses (WALs) (WAL 3661 & WAL 3788) and their associated Water Supply Works Approvals to pump 100 ML/year from the Murrumbidgee River, and also holds water licenses for groundwater extraction of 360 ML/year (license 40BL190719 and 40BL190720).

2.4.3 Project Approval Consent Conditions

The Project is required to adhere to the conditions stipulated in the Site's Project Approval (07_0069) approved 22 November 2011.

3 Implementation and Operation

Hanson's Environmental Policy is included in **Appendix L** of this EMS. This is a corporate document which applicable to Wagga Wagga Quarry and also applied at a national scale.

3.1 Personnel Structure and Responsibilities

The Hanson structure of environmental personnel and their roles/responsibilities is shown in **Figure 4**. This is a corporate document which details the Company's organisational structure and provides an outline of the environmental responsibility for Wagga Wagga Quarry. It outlines the major responsibilities of Hanson's internal responsibilities for Wagga Wagga Quarry, however, it should be noted that positions (particularly the National Environmental Manager and Regional Environmental Manager)'s roles extend beyond the Wagga Wagga Quarry operations. **Figure 4** only outlines the responsibility of personal in respect to which this EMS applies (i.e. Wagga Wagga Quarry).

Site Structure

Generally Wagga Wagga Quarry directly employs the following;

- 1 X Site Manager;
- 4 X Operators; and
- 1 X Truck Driver.

All staff are responsible for;

- Complying with relevant legislation including EPL's;
- Complying with this EMS and associated documents as they apply;
- Communicating any information they become aware of in relation to environmental management; and
- Taking appropriate action to mitigate environmental impacts.

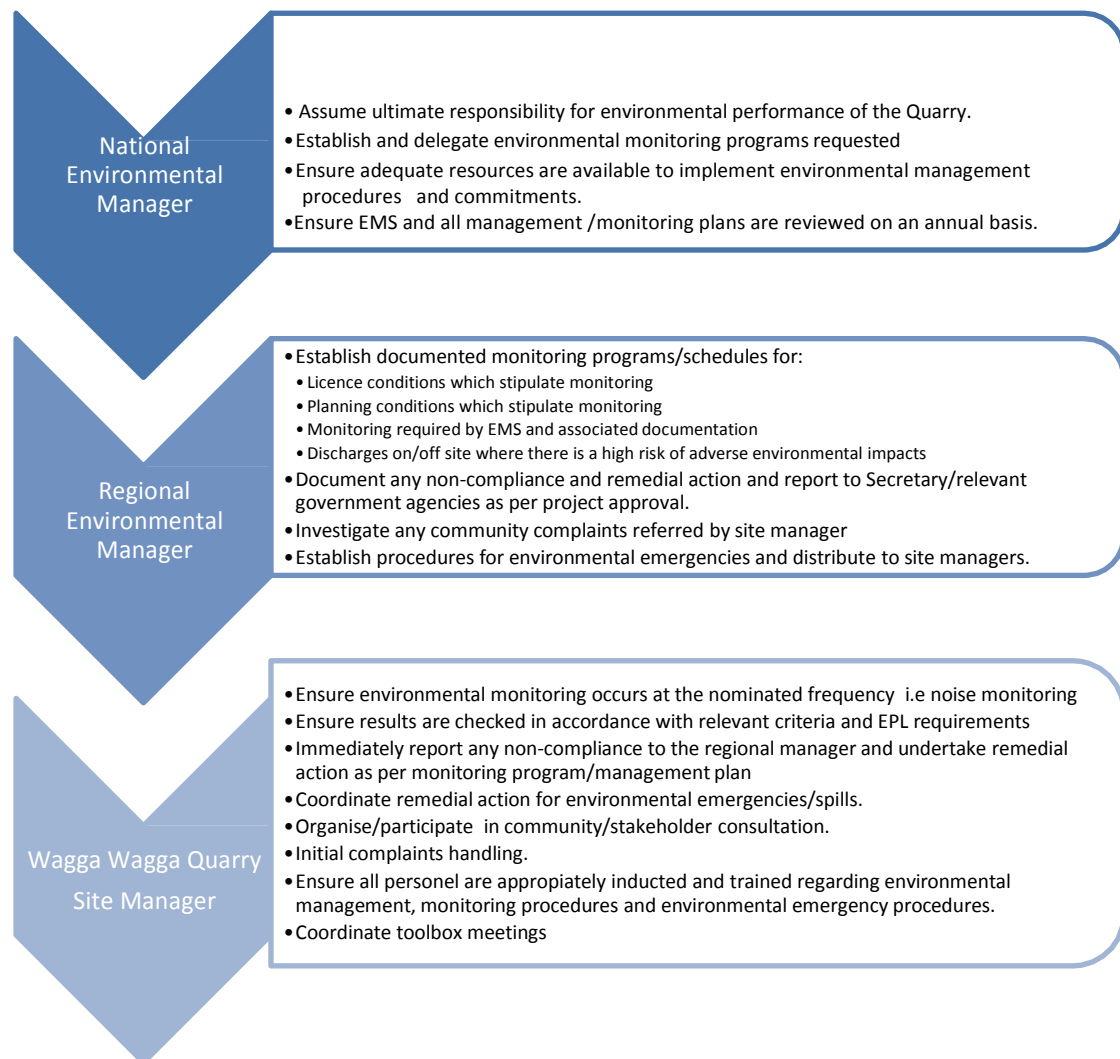


Figure 4- Personnel structure and summary of environmental responsibilities

3.2 Updates to Plans/Procedures/Strategies

Avenues to inform staff of updates to Plans/Procedures/Strategies are as follows;

1. Toolbox talks

Toolbox meetings are formal and documented meetings run by the quarry manager or his/her delegate generally in the morning before operations for the day commence. Such meetings are used as a means to provide regular updates/information regarding quarry operations, complaints, performance and

anything else relevant to the project. Any significant updates to plans will be presented to relevant employees during these toolbox meetings.

2. Direct dialogue

Site Manager will relay key information from Plans/Procedures/Strategies to relevant employees if specific to a particular task.

3.3 Training

The site manager is to ensure that all personnel (including contractors and visitors) have appropriate environmental training and awareness so that they understand their environmental responsibilities and how to appropriately manage impacts on the environment. This shall be undertaken via:

1. Compulsory site induction for all employees, contractors and visitors to provide environmental awareness and procedures training; and
2. Regular 'toolbox' meetings for all environmental personnel to ensure environmental procedures are being effectively implemented, to recognise any environmental hazards associated with their specific work tasks and to develop procedures to alleviate these hazards.

3.4 Communication and Consultation

3.4.1 Internal Communication

All employees and contractors are to be provided with information they need to ensure impacts on the environment are minimised. Environmental communications media includes:

- Environmental Policy, EPL's and any changes;
- EMS and associated plans, procedures and documents which detail objectives, management and monitoring;
- Environmental 'toolbox' training; and
- Information regarding any incidences onsite.

3.4.2 External Communication

Regular communication with government agencies, stakeholders and the local community shall be maintained to promote positive working relationships, build awareness on site processes, procedures and plans, and minimise disruptions to site operations and nearby residents.

3.4.2.1 Community Consultative Committee

The quarry has established a Community Consultative Committee (CCC) which will meet quarterly for the first two years then bi-annually. The purpose of a community consultative committee is to provide a forum on issues directly relating to the quarry operations, environmental performance and community relations. Six meetings have been held over the life of the quarry. Minutes of the CCC meetings are made available on Hanson's website.

3.4.2.2 Additional Community Consultation

Hanson consults with the community on an as needs basis. As needs is considered the following circumstance;

- Complaint: The Company will proceed in accordance with **Section 4.2** of this strategy.
- Significant change to operations: i.e. stripping campaign that is thought to significantly impact particular receptors.

Table 3: The process for external communications

	Method of Communication	Frequency	Objectives
	Community Consultative Committee (CCC)	Quarterly for first 2 years then bi-annually.	The purpose of a community consultative committee is to provide a forum on issues directly relating to the mine's operations, environmental performance and community relations.
	Any contact method	Regularly	1) Site manager or designated representative to regularly inform immediate neighbours on aspects of operations, new proposals to keep them fully informed 2) To provide a mechanism to raise concerns directly with site management.
Community / Stakeholder	Emergency Contact Line	As required	1) To provide quick and effective resolution of community concerns and environmental matters. 1) Enable the community to readily access information on the site and future development/plans.
	Internet Site	As required	2) Provide a means for complaints/concerns. 3) Provide community with appropriate contact information for head and regional offices.
Secretary (DP&E)	Site Annual Environmental Performance Review	Annually	1) Provide details of environmental monitoring and results, complaints recording and results, details of non-compliance and remedial action, long-term environmental trends, recommendations. 2) Compliance with project approval.
Environmental Protection Authority	Annual Return	Annually	1) Comply with requirements of EPL. 2) Provide EPA with monitoring summary. 3) Provide EPA with complaints summary.

	Method of Communication	Frequency	Objectives
			4) Provide EPA with 'Statement of Compliance'
Secretary (DP&E) and relevant government agencies	Verbally & written documentation	As required	1) Notify an incident associated with the project as soon as practically possible. 2) Provide detailed report of incident within 7 days, as per project approval.
Secretary (DP&E), relevant government agencies and community.	Annual Review	Annual	1) Review of the environmental performance of the project in accordance with Schedule 5, condition 3.

3.4.3 Community Complaints

The following complaints handling procedure is currently implemented by employees and shall remain in place as part of this project approval. The procedure includes:

- Members of the community can make a complaint by phoning the number displayed on the street/site sign, the number in the Yellow Pages or the number listed on the website.
- Their call will be connected to a call centre.
- The call centre will direct the complaint to the Regional Risk Manager for NSW.
- If the call is not taken, then this gets elevated to the National Risk manager, then if necessary the National CEO.
- The complaint will be recorded and referred to the site manager.
- The site manager will respond immediately by identifying the area of concern and either respond to the concern or refer the matter to the appropriate person.

Additionally complaints can be raised through the CCC by CCC members.

3.4.4 Conflict Resolution

In the event that the client, stakeholders or government agencies (other than DP&E) cannot agree on the requirements applicable under the project approval, the matter shall be referred to the Secretary of DP&E.

If a dispute occurs with a private landowner and cannot be resolved between the 2 parties, the matter will be referred to the Secretary of DP&E for resolution. Regular communication and consultation with stakeholders, government agencies and nearby local community will help mitigate conflicts arising and assist in their quick resolution.

3.5 Emergency Response

The site has an Emergency Response Team who are trained to coordinate any emergency response required including liaising and assisting emergency services.

An Emergency Response Plan for the site has been developed and documented by the Site Manager and shall remain in place as part of the current project approval. The Response Plan includes:

- Site details and a site map showing muster points, location of first aid, spill kits etc,
- First aid procedures,
- Fire procedures,
- Evacuation procedures,
- Environmental spill procedures, and

Other procedures such as building damage, gas leaks etc.

The Emergency Response Plan must be readily available to all staff and copies are to be kept in all site offices, operator cabins etc.

A drill or mock emergency is to be conducted annually (at least) and involve all personnel onsite at the time.

Any site changes affecting the Response Plan must be communicated to all personnel. The Site's Emergency Response Plan is included as an Appendix in this EMS.

4 Monitoring and Corrective Action

4.1 Monitoring Programs

Environmental monitoring programs have been developed for the site as per the Project Approval and are attached to this EMS. Each monitoring program has been developed in consultation with relevant guidelines/approvals to ensure compliance with relevant criteria is achieved. A summary of monitoring plans is provided in Table 4.

Table 4: Summary of environmental monitoring at the site.

Aspect	Monitoring Frequency	Monitoring	Reporting
Surface Water monitoring	Monthly/when discharging	pH, TSS, EC Water quality sampling of water within Pit 1 is to be undertaken prior to any discharge to the river to ensure EPL compliance.	Annual Review and/or as required.
Groundwater	Event based	Event-based groundwater quality monitoring; i.e. in the event that a pollution event occurs onsite, groundwater quality is to be sampled from each of the seven GMB's and tested for the following analytes: Dissolved oxygen - Conductivity - Salinity - pH - Other analytes as appropriate based on nature of pollution event.	Annual Review and/or as required
Air Quality	Hourly	Depth and temperature.	Annual Review and/or as required
	Monthly	Dust deposition. 5 Dust Deposition Gauges	
	Continuous	PM10 DustTrak monitor.	
	3 Months	HVAS	

			required.
Noise	Commencement of each stage of extraction/development.	Unattended noise monitoring at the nominated sensitive receivers (NMP) for 7 days (site must be operating normally during the monitoring period).	Annual Review and/or as required.
	Commencement of each stage of extraction/development.	Operator attended monitoring at the nominated sensitive receivers for a minimum of two 15 minute periods during hours of operation (site must be operating normally during the monitoring period).	
	In response to complaints	Operator attended monitoring at the receiver where complaint was received for a minimum of two 15 minute periods during hours of operation (site must be operating normally during the monitoring period).	
Transport	Quarterly	Product materials transported from the site, including the date, time and tare weight of each product haulage vehicle dispatched from the site	Annual Review and/or as required.
	Every three months	Incident register is to be audited at three monthly intervals, by Quarry management, and made available, upon request, to an authorised Council officer.	
	Every three months	Review of the Driver code register, the incident register; consult with Council to determine if Council had received any complaints.	
Rehabilitation	Ongoing	Consistent with the rehabilitation stage description as per most recent version of the Rehabilitation Management Plan.	Annual Review and/or as required.
Biodiversity	Reported Annually, activities conducted as required.	Protocols regarding clearance of native vegetation, hollow stumps and fallen timber. Feral animal control and weed management. Revegetation conditions.	Annual Review and/or as required.
Depth of Extraction	Annually	Aerial survey by a registered surveyor to demonstrate compliance with Sh.2, C.7 of the approval.	Annual Review and/or as required.

4.2 Non-Compliance

Non-compliance is defined as an instance where environmental performance fails to meet the statutory limit. Procedures in the event of non-compliance is outlined in the attached monitoring plans, however the general procedure is:

1. Non-compliance is reported by personnel to the site manager.
2. Under the site manager's direction, the source of the non-compliance is to be investigated and identified.
3. Mitigation works/measures if required are to be developed and actioned as soon as possible.
4. Investigate possible amendments/alterations to treatment systems to avoid future non-compliance.

4.3 Incidents

Incidents will be reported in accordance with Schedule 5, Condition 6 of the Project Approval.

The Proponent shall notify the Director-General (now Secretary) and any other relevant agencies of any incident that has caused, or has the potential to cause, significant risk of material harm to the environment, at the earliest opportunity. For any other incident associated with the project, the Proponent shall notify the Director General (now Secretary) and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General (now Secretary) and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

APPENDIX A

AIR QUALITY MANAGEMENT PLAN

APPENDIX B

NOISE MANAGEMENT PLAN

APPENDIX C

TRAFFIC MANAGEMENT PLAN

APPENDIX D

GROUNDWATER REVIEW AND IMPROVEMENT PROGRAM

APPENDIX E

WATER MANAGEMENT PLAN

APPENDIX F

WATER MONITORING PROGRAM

APPENDIX G

WASTE MANAGEMENT PLAN

APPENDIX H

REHABILITATION MANAGEMENT PLAN

APPENDIX I

BIODIVERSITY MANAGEMENT PLAN

APPENDIX J

EMERGENCY RESPONSE PLAN

Site Emergency Plan

Wagga Quarry

FIRE	000 (Mobile: 112)
AMBULANCE	000 (Mobile: 112)
POLICE	000 (Mobile: 112)
POISONS INFO	131 126
LOCALPOLICE	02 6922 2599
SECURITY	0429 124 282

Refer to Site Map for

- ☐ General layout of plant including offices, silos, ground bins, traffic movements, parking areas, wash out areas, etc
- ☐ Muster point
- ☐ Location of First aid kits
- ☐ Location of fire extinguishers
- ☐ Location of fire blankets
- ☐ Location of environmental/oil spill kit
- ☐ Parking areas
- ☐ FEL working area
- ☐ Traffic flow

Date of Issue: August 2012

An Emergency call must be initiated by using the following words over the site UHF/2-Way radio:-

Emergency, Emergency, Emergency

[Detail how the emergency is communicated on site. This may be via two way , a siren , manual walk around of site office and grounds, a combination of the above , etc]

WHO IS IN CHARGE?

The Chief Warden will be appointed in the following manner:-

DAY SHIFT

- 1. Rod Thompson – Manager - 0407 060 169
- 2. Tim Engstrom – Supervisor- 0409 502 967

WHAT INFORMATION DO I NEED?

The Chief Warden will then obtain the following information:

- ☐ Who is calling?
- ☐ What's happened?
- ☐ Is anyone hurt?
 - ☐ How many?
 - ☐ Who? (Obtain full names)
 - ☐ What type of injuries?
 - ☐ First Aid required?
 - ☐ Ambulance required?
 - ☐ Location of Emergency?
- ☐ What services are required?
- ☐ Any dangerous substances involved

Site Emergency Team

A site emergency team is required at each site.
The site emergency team will nominally consist of persons to fill the following roles.

Job Descriptions are attached.

- ☐ CHIEF WARDEN
- ☐ SCENE WARDEN
- ☐ COMMUNICATIONS OFFICER
- ☐ ACCESS WARDEN
- ☐ WARDEN
- ☐ FIRST AID OFFICERS

Notes

- One person can cover more than one role
- Must nominate main person and deputy for each role
- The circumstances of the emergency will determine the makeup of the site emergency team.

JOB DESCRIPTIONS

Chief Warden

Will take overall charge of the emergency by:

- ☐ Ensuring all persons within the mine are advised of the emergency.
- ☐ Making themselves aware as to the extent and nature of the emergency.
- ☐ Advising all persons which areas are safe to proceed to.
- ☐ Ensuring all warning devices are functioning i.e. audible, visual
- ☐ Accounting for the presence of all persons at the quarry.
- ☐ Coordination and assigning tasks to competent people for roles such as, Access Warden to ensure persons do not inadvertently venture into the emergency area and other persons who may be required for such duties as direction of emergency services. These tasks will be assigned on an "as required" basis.

☐ Notify neighbours if appropriate

Scene Warden

Will position themselves at the scene of the emergency when safe to do so and shall:

- ☐ Coordinate rescue efforts where required.
- ☐ Advise the Chief Warden of any requirements at the area. These may include but are not limited to. Fire fighting equipment, First aid supplies, attendance of emergency services, environmental clean up equipment etc.
 - ☐ Ensure, where no further safety hazard exists, the area remains “as is” to enable relevant inspectors to view the scene if required.

Communications officer

Will forward any communications necessary by:

- ☐ Forwarding requirements of the Chief Warden to the relevant emergency services, relevant inspectors, and upper management.
- ☐ Efficiently screening enquires from emergency services, inspectorate, upper management and media as required.

Warden

A warden will be responsible for:

- ☐ Advising of all persons present at the safe assembly area (head count).
- ☐ Co-ordinating directions as requested by the Chief Warden at the safe assembly area
- ☐ Co-ordinating any evacuation that may be required and as directed by the Chief Warden

First Aid Officer

The first aid officer will:

- ☐ Ensure the area is safe prior to administering first aid (Check for danger).
- ☐ Administer First Aid ONLY until qualified emergency personnel arrive

FIRE / POLICE / AMBULANCE

000

If using a mobile dial 112

CALLING 000

- ☐ When calling for help dial 000 and ask the operator for the service you need - e.g. Ambulance, Rescue Squad, Fire Depart, Police etc
- ☐ Wait to be connected
- ☐ Stay calm
- ☐ You will be asked some questions and the information below will assist you.
- ☐ Do not hang up or put the call on hold – you may be asked additional information
- ☐ Do not place yourself in danger to make a telephone call or to stay on the line

SITE DETAILS

Site Address:-

230 Roach Rd Wagga Wagga

DIRECTIONS

TO BE USED FOR COMMUNICATION FOR EMERGENCY SERVICES.

If travelling west from Wagga along the Sturt highway;

- ☐ Turn Right at Roach Rd (opposite the Silvalite service station)
- ☐ Left onto Roach Rd
- ☐ Follow all the way to the end
- ☐ Directly after the cattle grid turn right into the main gates
- ☐ Follow main entrance through to the Site office on the Left hand side

SITE COMMUNICATIONS

Site Phone Number: **02 6931 1608**

Site Fax Number: **02 6931 2337**

Site CB Radio: Channel **UHF CH 29**

PLANT ISOLATION

In the Event off complete Plant Isolation (POWER) – Main switch located in the MCC container north of the sales pad.

SITE ELECTRICAL CONTACT: Greg Lawson, TECS electrical

Office: **02 6925 7055**

Greg Mob: **0418 693 700**

SERVICE FAULTS & EMERGENCIES: Essential Energy **13 20 80**

OTHER EMERGENCY CONTACTS:

POISONS INFORMATION LINE: **131 126**

LOCAL POLICE: **02 6922 2599**

SECURITY: **0429 124 282**

SITE CONTACTS:

HANSON CONTACTS:

If there is no reply, continue down the list.

MANAGER:	Rod Thompson	0407 060 169
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SUPERVISOR:	Tim Engstrom	0409 502 967
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ADMINISTRATION:	Frank McGill	0417 237 644
-----------------	--------------	--------------

AREA MANAGER	Anthony Giannasca	0417 066 273
--------------	-------------------	--------------

HEAD OFFICE:	MAIN NUMBER	02 9354 2600
--------------	-------------	--------------

RISK MANAGER:	Scott Lewis	0417 423 467
---------------	-------------	--------------

OPERATIONS MGR	Noel Collyer	0437 079 371
----------------	--------------	--------------

REGIONAL GEN. MGR:	Phil Schacht	0417 240 141
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The above will carry out the requirements as per Crisis Management Plan – including where applicable contacting Next of Kin, Authorities, Counselling of Employees, etc

The Chief Warden will be required to constantly keep in contact with key personnel to assist with the Emergency Process.

The Chief Warden shall delegate duties by:-

- ☐ If required appoint a First Aid Officer to the Emergency Location and another person to get a Portable First Aid Kit and then go to the Emergency Location
- ☐ Appoint 2 Sentry Persons at the Main Gate – to direct/escort emergency vehicles to emergency scene
- ☐ Appoint Coordinator at the Weighbridge who will also act as Sentry Person at the other gate and delegate persons at Muster Point to assist where necessary
- ☐ All other persons to muster at Weighbridge and wait for further instructions
- ☐ Advise persons to avoid the Emergency area if possible (use another route)
- ☐ Sales Loader to notify Road Trucks to muster at Weighbridge
- ☐ Where possible secure or shut down any plant or equipment to control potentially dangerous situations and isolate any gas or electricity.
- ☐ The accident / incident Scene should be preserved as it was immediately after the Accident. Unless it Continues to be a Danger to Persons

The Chief Warden will advise all personnel on site when mustering is required by stating “**all other site personnel to Muster at the Front Gates in an orderly manner and remain calm**”

If the **Front Gates** is seen as an unsafe Muster Point – the next point shall be the **Site Office**

CHIEF WARDEN SHALL:

- ☐ Appoint Sentry Person(s) at Weighbridge Gate
- ☐ Check all persons on shift accounted for including employees, contractors & visitors
- ☐ Check the Sign In/Sign Out – Contractor Management Record Book found in main office
- ☐ Check visitors sign in book in main office
- ☐ Ensure Gates are able to be opened
- ☐ Keep in contact with other Chief Warden by using 2-way or phone line
- ☐ Utilise mustered personnel

FIRST AID PROCEDURES

When there is an incident that requires First Aid, that person giving first aid must be trained and their ticket current. The basics of First Aid are **DR ABCD**.

Remove **D**anger from yourself & others

Check the casualty for some form of **R**esponse – talking or squeezing your hand

Check for **A**irway, **B**reathing, and **C**irculation & **D**efibrillation – details on next page

Remember:-

- ☐ If the incident involves Chemicals, check the Material Safety Data Sheet (MSDS)
- ☐ If the incident involves Electricity, remove the power source before attempting to perform first aid on the individual.
- ☐ Do not move the injured person unless a life threatening situation occurs or unless you are sure it's a minor injury
- ☐ Always reassure the injured person to make them comfortable

WHOSE FIRST AID TRAINED ON THIS SITE?

Most personnel are first aid trained at Wagga Quarry

WHERE ARE THE FIRST AID KITS ARE LOCATED?

There is one first aid kit on site located in the Main office
Another is in the Weighbridge office at the front gates

CPR REFRESHER INFORMATION

Check For Danger

- ☐ Take time to look for dangers to yourself, the patient and the public. Look around for obvious causes of the persons collapse. i.e. electricity or gas
- ☐ In the event that someone is electrocuted, turn off the power source
- ☐ Ensure you cannot become another victim. For example, can you be hit by a passing vehicle or be crushed by falling or collapsing power poles or power lines.
- ☐ If you are clear of danger it is safe to commence your assessment and treatment of the patient.

Resuscitation

FOR ALL AGE GROUPS

- ☐ Maintaining the ratio of 30:2 (compressions to breaths) at a rate of 100 per Minute, the rescuer should complete 5 cycles of 30:2 in 2 Minutes.
- ☐ Should there be more than 1 capable rescuer, a change over of rescuers every 2 Minutes is recommended to ensure adequate depth and speed of Compressions is Maintained.

Check Progress







If effective: carotid pulse felt and skin will become pinker

Get Help

- ☐ In all cases dial 000 and ask for ambulance service. Wait on the line for instructions.
- ☐ If you're mobile telephone has no signal try 112. This overrides your current service provider and links you to the nearest base station.
- ☐ Most of our truck fleet also has an emergency button on the 2 way. This will link you to 000.
- ☐ Clearly give your location and details of the patient. They will want your contact number in case you are cut off or they have difficulty finding your location.
- ☐ The ambulance service will also give first aid directions over the telephone to assist you to keep the person safe and stable.

CPR chart

Cardio Pulmonary Resuscitation

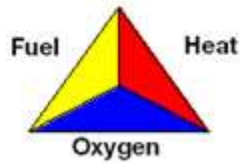
D Check for danger	Check for danger eg electrical cords, petrol or other hazards
R Responsive	<p>Check for responsiveness If no signs of life:</p> <ul style="list-style-type: none"> > Unconscious > Unresponsive > Not breathing normally 
SHOUT FOR HELP! I	<ul style="list-style-type: none"> > Get someone to dial Triple Zero (000) immediately > Ask for AMBULANCE 
A Clear airway	<ul style="list-style-type: none"> > Place person on their back > Tilt head back (not for infants or injured) > Remove foreign matter from mouth (and nose of baby) > Place on side if there is a lot of foreign matter 
B Check breathing	<ul style="list-style-type: none"> > Look, listen and feel for breathing > If normal breathing is present leave or place patient on their side > If normal breathing is absent commence CPR 2 breaths to 30 compressions at 100 compressions/min <ul style="list-style-type: none"> - Place patient on their back - Tilt head back (not for infants or injured) - Lift jaw and pinch nostrils 
C Circulation (at 100 compressions/min)	<p>CHILD & ADULT:</p> <ul style="list-style-type: none"> > Place hands over the centre of the chest (sternum) > Compress sternum one third the depth of the chest 30 times > Continue with 2 breaths to 30 compressions > Do not interrupt compressions for more than 10 seconds  <p>INFANT:</p> <ul style="list-style-type: none"> > Position 2 fingers on lower half of the sternum > Depress sternum approximately one third the depth of the chest > Continue with 2 breaths to 30 compressions 
D Defibrillation	<p>If Automated External Defibrillator (AED) is available</p>

CONTINUE CPR UNTIL PARAMEDICS ARRIVE OR SIGNS OF LIFE RETURN

Beware of rescuer fatigue, if help is available swap rescuers every few minutes

WHAT'S A FIRE MADE UP OF?

The three components required for a fire to exist are:-



The fire may cease by:-

- ☐ removing the fuel, it will starve the fire – examples of fuel include wood, petrol, diesel, paper, tyres etc
- ☐ removing the heat source it will cool the fire – example of heat are flames, sun etc
- ☐ removing the oxygen it will prevent the fire from progressing

IF YOU DISCOVER FIRE OR SMOKE IN YOUR AREA

- ☐ Do not walk into the smoke
- ☐ Warn others in your area
- ☐ Call Emergency, Emergency, Emergency
- ☐ Give details to the Chief Warden such as Location, Size & Type of Fire
- ☐ Only try to fight a fire if your trained and confident to do so and ensure you are not putting yourself or others at risk

WHICH EXTINGUISHER DO I USE?

- ☐ **Class 'A'** Ordinary combustible materials, eg. dry grass, wood, paper, plastics
- ☐ **Class 'B'** Flammable liquids, eg. petrol's, solvents, paint, cooking oils and fats
- ☐ **Class 'C'** Flammable Gases, eg. LPG, Butane, etc.
- ☐ **Class 'D'** Combustible metal, eg. Magnesium, aluminium. These fires should be fought with special purpose extinguishers only
- ☐ **Class 'E'** Electrical Equipment - remove power source and fight as one of the above

HOW DO I USE AN EXTINGUISHER?

Remember the **PASS** word for using portable fire extinguishers

Pull the pin

Aim low, pointing the extinguisher at the base of the fire

Squeeze the handle – this will release the extinguishing agent

Sweep from side to side, at the base of the fire until it appears to be out

Also remember

- ☐ extinguishers should only be used on small fires
- ☐ test an extinguisher before approaching any fire

- ☐ check that you have the right type of extinguisher for the fire
- ☐ use the extinguisher to help you escape from a fire
- ☐ always stay on the exit side of the fire

Location of Fire Extinguishers

- | | |
|---|---|
| <ul style="list-style-type: none"> ● Weighbridge ● Main Office ● Oil store ● Plant operators hut ● G35 Lube pack | <ul style="list-style-type: none"> ● Workshop ● MCCx2 <h3 style="text-align: center;">Fire Blanket Location</h3> <ul style="list-style-type: none"> ● Weighbridge ● Main Office |
|---|---|

CLASS OF FIRE	A	B	C	(E)	B	
TYPE OF FIRE	Flammable and Combustible Liquids	Flammable Gases	Flammable Liquids	Flammable Gases	Flammable Liquids	Flammable Gases
COLOURS	TYPE OF	EXTINGUISHER SUITABILITY				CAUTION
	WATER	YES	NO	NO	NO	Electrically Conductive
	WET CHEMICAL	NO	NO	NO	YES	(Most... Suitable) Conductive
	ALCOHOL RESISTANT FOAM	YES	YES (Suitable for alcohol fires)	NO	NO	Electrically Conductive
	AFF TYPE FOAM	YES	YES (Not suitable for alcohol fires)	NO	NO	Electrically Conductive
	POWDER	YES	YES	YES	YES	NO
	B(E) DRY CHEMICAL POWDER	NO	YES	YES	YES	YES
	CARBON DIOXIDE (CO2)	YES	YES	NO	YES	YES
						Depletes in confined spaces

·a:0No

VAPOUR!SING
LIQUID TYPE

YES

YES

NO

YES

YES

[illegible]

FIRE PROTECTION

33kva
Powerlines
on site, min
5m
clearance at
all times

Non-specified
Stockpile

Non-specified
Stockpile

Grit

Sediment
pits

Coarse Sand

Work
Shop

Diesel
Bowser

Parking

Feed
Boot

Oil
store

Office

Raw
Feed

20/14

Con
Mix

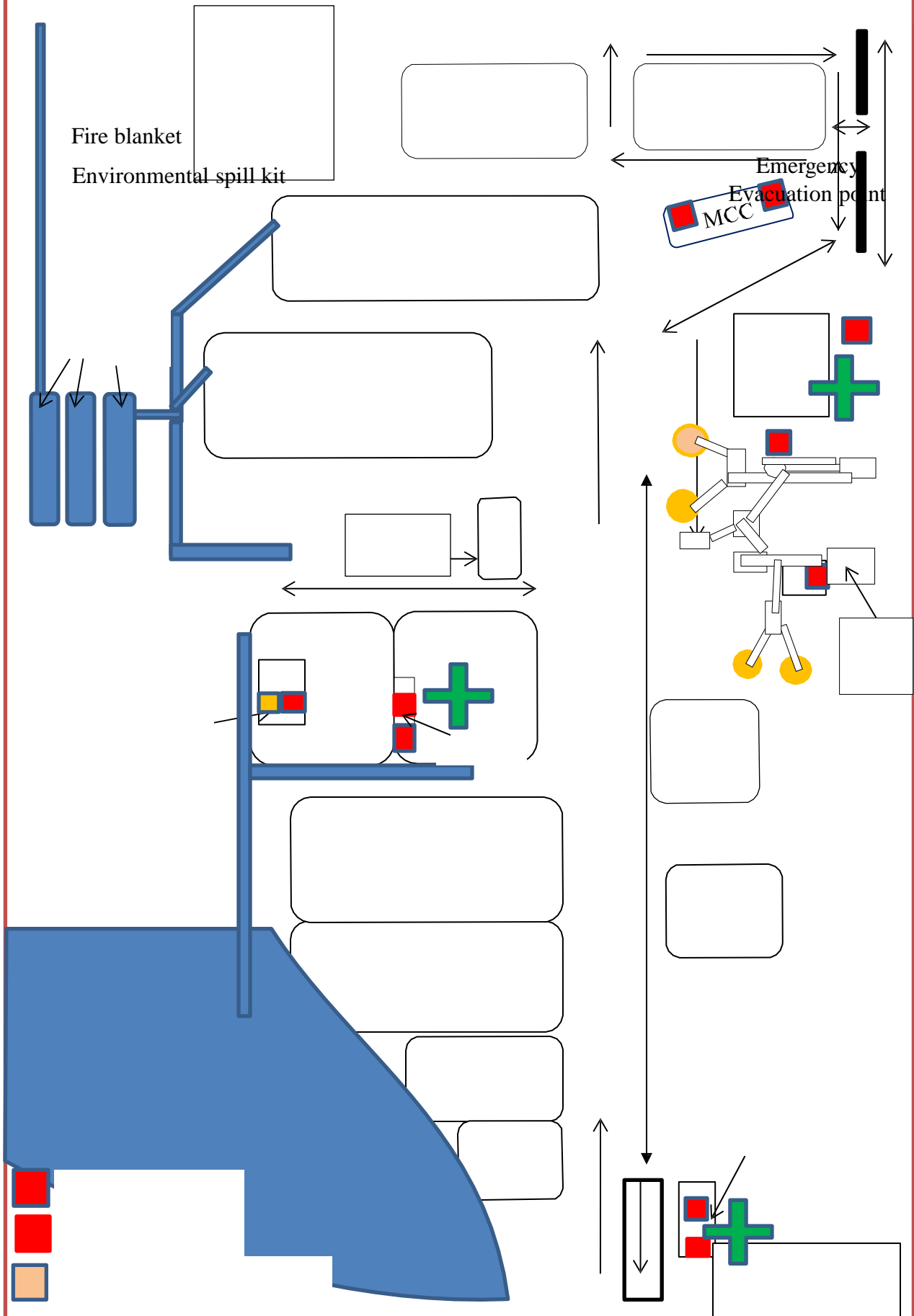
10/7

10mm
Round

5mm
Round

Weigh
Bridge

Fire Extinguisher



Other Emergencies

BOMB THREAT	1
BUILDING / STRUCTURAL DAMAGE	2
BURNS	3
ELECTRIC SHOCK / BURNS	4
ENVIRONMENTAL INCIDENT / SPILL	5
EXPLOSIONS	6
EXPLOSION – PRESSURE VESSELS	7
FIXED PLANT FIRE	8
FLUID INJECTION INJURY / PNEUMATIC INJECTION INJURY	9
GAS LEAK	10
HAZARDOUS MATERIAL SPILL	11
HYDRAULIC HOSE RUPTURE	12
ILLEGAL OCCUPANCY – TRESPASSING	13
LIGHTNING	14
MAJOR TRAUMA	15
MOBILE PLANT COLLISION	16
MOBILE PLANT FIRE	17
OVERHEAD POWERLINES – LINES DOWN	18
OVERHEAD POWERLINES – MOBILE PLANT COLLISION WITH POLES/ CONTACT WITH OVERHEAD LINES	19
RESCUE FROM DAMS	20
SCRUB / BUSH FIRE	21
SNAKE / SPIDER BITE	22
THEFT AND DAMAGE	23
TYRE FIRE	24
FLOOD EVENT	25

1. Bomb Threat

Personnel	Action
Persons Receiving Threat	<ol style="list-style-type: none">1. Remain calm2. Do not hang up the phone, even after the call has ended3. Attempt to find out as much information as possible including:<ol style="list-style-type: none">a. Where is the bomb situated?b. How long before it detonatesc. What type of bomb is it?d. Why has the bomb been planted?3. Contact Chief Warden / Supervisor immediately and inform them of the details. If contacting by phone, use a different phone from that which the threat was received on.
Chief Warden / Supervisor	<p>Immediately upon receiving a bomb threat:</p> <ol style="list-style-type: none">1. Police are to be called immediately on 000 or 112 for a mobile and assistance requested2. The Chief Warden shall follow the site evacuation procedure by repeating the following announcement over the site radio frequency twice then at intervals of 4 minutes:<ol style="list-style-type: none">a. "Emergency, emergency, emergency. All persons on site please proceed in an orderly manner to the site muster point located at the weighbridge and remain calm."3. Perform a drive through inspection in the quarry to ensure all persons are evacuating if safe to do so4. Chief Warden shall then check all personnel are present using time cards, contractor and visitor sign in books. All persons must be accounted for
Personnel	<ol style="list-style-type: none">1. Remain calm and act with due diligence at all times2. Shut down all powered equipment and the plant3. Notify anyone in your team if they have not heard the announcement4. Follow Chief Warden's / Supervisors instructions
All Persons	<p>Under no circumstances must the following occur:</p> <ol style="list-style-type: none">1. Delaying police and site notification.2. Hanson employees investigating the threat themselves

Resources Available on Site for Emergency

Bomb Threat Report (see Appendix E, Emergency and Crisis Management Plan/ECM Plan)

2. Building / Structural Damage

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none">1. Contact emergency services on 000 or 112 if calling from a mobile phone and request assistance if deemed necessary2. Evacuate the area as required and ensure all site personnel in the area are safe3. Isolate and barricade areas if it is safe to do so4. Organise for electricity, water and gas to be isolated if required5. Notify senior management6. Organise for structural inspection to be conducted if required
Personnel	<ol style="list-style-type: none">1. Remain calm. Assess the situation first for hazards and risks to oneself and others.2. Proceed to handle the situation that does not endanger yourself or others3. Contact Chief Warden / Supervisor immediately and inform them of the situation. If deemed serious, call on the two-way radio and say 'Emergency Emergency Emergency', then state:<ol style="list-style-type: none">a. Your name or unit numberb. The emergency that has occurred and its locationc. Any further useful information4. If necessary stop the plant as soon as possible5. All personnel not involved in the emergency shall remain in their respective work areas unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate6. Observe and follow all risk assessments, JSA's, the MSMP and safe work procedures.
Resources Available on Site for Emergency	

3. Burns

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none">1. Immediately advise all personnel of the emergency and the course of action2. Call emergency services on 000 or 112 if on a mobile and coordinate first aid response3. Secure the emergency site and act to prevent further injury or harm to personnel
Personnel	<ol style="list-style-type: none">1. Remain calm. Assess the situation first for hazards and risks to oneself and others.2. Proceed to handle the situation that does not endanger yourself or others3. Contact Chief Warden / Supervisor immediately and inform them of the situation using 'Emergency Emergency Emergency' over the site radio frequency. Then state your name, the emergency, location and any other useful information4. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate
First Aid Officer	<ol style="list-style-type: none">1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation<ol style="list-style-type: none">1. Report the details of the situation to the Chief Warden / Supervisor immediately2. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted3. Reassure the victim and assist them until help arrives4. If a burn is larger than the palm of the victims hand follow the "extensive burns first aid procedure" below. If not follow general burns procedureUnder no circumstances must the following occur:<ol style="list-style-type: none">1. Breaking blisters or removing peeled skin2. Applying ointments, gels, lotions, butter or creams to the burn injury as infection may occur and substance may have to be removed later3. Using adhesive tape on the skin around the burn or fluffy material on the burn. This may cause damage to tissue or irritation of the skin
Extensive Burns First Aid Procedure: <ol style="list-style-type: none">1. Cool the injured area immediately with cold running water for a short period of time. Do not cool excessively or hypothermia may occur2. Remove any clothing quickly and carefully which is wet with hot liquid or a chemical splash3. Remove any tight clothing, watch, rings or jewellery from the injured area in case of swelling occurring4. Cover the burn area with a sterile non-adherent dressing if available or a non-adherent fabric.5. Treat the victim for shock by lying them down flat and raising their legs and covering their body with a blanket.	
General Burns First Aid Procedure: <ol style="list-style-type: none">1. Cool the burn by holding the injured area close to running water for up to 20 minutes.2. While cooling, remove any clothing quickly and carefully which is wet with hot liquid or a chemical splash as well as tight clothing, watches, rings or jewellery from the injured area in case of swelling3. Treat the victim for shock if they are looking faint or asking to lie down. Assist them in lying down and raising their legs and cover the victim to keep them warm.4. Apply a sterile non-adherent dressing to the area and cover with a light bandage to hold the dressing in place5. Check bandage regularly to ensure swelling of the injury is not causing the bandage to constrict victim	
Resources Available on Site for Emergency	

3. Burns

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

4. Electric Shock / Burns

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> Immediately advise all personnel: <ol style="list-style-type: none"> That an electrical shock has been received Course of action Organise to have the power shut off and isolated to the area Request assistance from emergency services by calling 000 or 112 if on a mobile immediately and coordinate first aid response. Secure the emergency site and act to prevent further injury or harm to personnel Upon arrival back at work, the victim must report to the Supervisor and advise them of the results of their medical investigation
Personnel	<ol style="list-style-type: none"> Remain calm. Assess the situation first for hazards and risks to oneself and others. Proceed to handle the situation that does not endanger yourself or others Do not stand closer than 10 metres to the live source of electricity if it is high voltage Shut off and isolate power before entering the area or making any contact with victim. Contact Chief Warden / Supervisor immediately and inform them of the situation using ‘Emergency Emergency Emergency’ over the site radio frequency. Then state: <ol style="list-style-type: none"> Your name or unit number The emergency that has occurred and its location Any further useful information All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate If attempting to rescue the victim follow the First Aid Officer procedures for electric shock (below)
First Aid Officer	<ol style="list-style-type: none"> Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Do not stand closer than 10 metres to the live source of electricity if it is high voltage Shut off and isolate power before entering the area or making any contact with victim. If it is not possible to shut the power off and victim is still in contact with the live source, remove the victim from the source using a non-conducting object whilst standing on a non-conducting object. Only do this if you are confident that you will not endanger yourself or others. <p>Remember Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> Report the details of the situation to the Chief Warden / Supervisor immediately and arrange for medical assistance Provide first aid as required Check for any burns as a result of electrical shock and follow emergency procedures for burns if required. Treat any burns as an extensive burn as damage may have occurred deep in the tissue and not be visible Reassure the victim and assist them until help arrives Treat victim for shock and be ready to administer CPR
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide	

5. Environmental Incident / Spill

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The Environmental Incident and its location b. Course of action 2. Secure the site and act to prevent further injury or harm to personnel or the environment. Establish the type of spill and the risk to human health 3. If medical assistance is required call 000 or 112 on a mobile for an ambulance and coordinate first aid response 4. Organise the prevention of further spread of the spill if safe to do so 5. Call the local fire station / police / S.E.S / E.P.A if required 6. Provide Materials Safety Data Sheet for material to the emergency services 7. Refer to Materials Safety Data Sheet for material and organise the clean up if not being handled by emergency services.
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation. If deemed serious, call on the two-way radio 'Emergency Emergency Emergency', state your name or unit number location and type of emergency. 4. If necessary stop the plant as soon as possible 5. All personnel not involved in the emergency shall remain in their respective work areas unless instructed to render assistance or assemble at the emergency muster point located at the weighbridge 6. Do not leave the quarry without the permission of the Chief Warden / Supervisor 7. If applicable, take all reasonable means to prevent the hazardous materials leaving the premises: <ul style="list-style-type: none"> * Sweep up * Vacuum or use absorbent material * Do not hose down * Cover all drains in the vicinity of spill
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the 'First Aid' (green tab) of this guide Spill Kit – Located in the workshop MSDS Register – Located in the Site Office	

6. Explosions

Personnel	Action
Chief Warden / Supervisor	<div><div>1. Immediately advise all personnel of:<div><div>a. The occurrence of the incident and its location</div><div>b. Course of action</div></div></div><div>2. Coordinate first aid response and rescue. Prohibit access, by all personnel, to the area unless rendering assistance.</div><div>3. Initiate site evacuation procedure if deemed necessary and account for all personnel</div><div>4. Contact emergency services if:<div><div>a. Medical assistance or a rescue is required</div><div>b. A fire has started as a result of the explosion. Do not allow any personnel to fight a fire fuelled by explosive materials. Water acts only as a cooling agent. Ammonium nitrate, an oxidizing material, does not need atmospheric oxygen for reaction. Consequently, fires cannot be smothered and chemical extinguishing agents are ineffective.</div></div></div><div>5. Ensure all explosives are removed from vicinity of any fire if it is safe to do so</div><div>6. Ensure the area within a four metre radius of the incident is not disturbed for a period of 36 hours after notice of the incident is given to the DPI unless:<div><div>a. To help or remove a trapped or injured person or to remove a body</div><div>b. To avoid injury to a person or damage to property</div><div>c. For the purposes of any police investigation</div><div>d. In accordance with a direction or permission of an inspector</div></div></div><div>7. Notify senior management immediately:<div><div>a. Any misfire or explosives incident must be reported to the director general of the DPI as soon as practical</div></div></div></div>
Personnel	<div><div>1. Remain calm. Assess the situation first for hazards & risks to oneself and others.</div><div>2. Notify the Chief Warden / Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state:<div><div>a. Your name or unit number</div><div>b. The location of the explosion and any other useful information</div></div></div><div>3. Do not under any circumstances attempt to fight any fire that is fuelled by explosive materials</div><div>4. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate</div><div>5. Personnel are not to leave the site unless given permission from the Chief Warden / Supervisor</div></div>
First Aid Officer / Rescuers	<div><div>1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to anyone.</div><div>2. Assess stability of the ground, potential exposure to toxic fumes, fires and other hazards before establishing a safe access to any casualty.</div></div> <div>Remember: Danger Response Airway Breathing Circulation Defibrillation.<div><div>1. Provide first aid if required</div><div>2. If burns are received by the victim, follow the burns emergency procedure</div><div>3. If inhalation of smoke/fumes has occurred, seek medical assistance for victim</div><div>4. If the injury is severe or you are unable to provide the necessary treatment required, external medical services must be contacted</div><div>5. Reassure the victim and assist them until help arrives</div></div></div>

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

Water Cart – To fight any fires not fuelled by explosive materials if deemed safe to do so
Fire Extinguishers – Locations of extinguishers are listed in the 'Fire Procedures' (red tab) of this guide

7. Explosion – Pressure Vessel

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of <ol style="list-style-type: none"> a. The explosion and its location b. The course of action 2. Secure the emergency site and act to prevent further injury or harm to personnel 3. Call emergency services on 000 or 112 if on a mobile and coordinate first aid response if required. 4. Initiate site evacuation procedures if required 5. Account for all personnel using sign in cards, contractor and visitor sign in books.
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation by calling on the site radio frequency 'Emergency Emergency Emergency'. Then state: <ol style="list-style-type: none"> a. Your name or unit number b. The location of the explosion c. Any other useful information 4. If necessary stop the plant as soon as possible 5. If a fire results from the explosion do not fight fire unless you are trained and confident to do so without putting yourself or others at risk 6. Always ensure you have an available path of escape when fighting a fire 7. All personnel not involved in the emergency shall remain in their respective work areas unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate 8. Do not leave the quarry without the permission of the Chief Warden / Supervisor
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the 'First Aid' (green tab) of this guide
 Fire Extinguishers – Locations of extinguishers are listed in the 'Fire Procedures' (red tab) of this guide

8. Fixed plant fire

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The location of the fixed plant fire b. Course of action 2. Contact the fire brigade and emergency services immediately by calling 000 or 112 if on a mobile immediately and request assistance if fire is assessed to be too dangerous to fight or medical assistance is required. 3. Coordinate first aid response if required 4. Ensure fixed plant is shut down and isolate power and gas 5. Ensure all fire hazards are removed from the vicinity of the fixed plant 6. Initiate site evacuation procedure if required and account for all personnel
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> a. Your name or unit number b. Location and size of the fire c. Any other useful information 4. Stop the plant as soon as possible and isolate the power and gas 5. Do not fight fire unless you are trained and confident to do so without putting yourself or others at risk 6. Always ensure you have an available path of escape when fighting a fire 7. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate 8. Personnel are not to leave the site unless given permission from the Chief Warden / Supervisor 9. Report all empty or partially used fire extinguishers to a responsible person for replacement
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. <p>Remember Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required. 3. If burns are received by any victims follow the burns emergency procedure 4. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 5. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

Water Cart – To fight fires if deemed safe to do so

Fire Extinguishers – Locations of extinguishers are listed in the ‘Fire Procedures’ (red tab) of this guide

9. Fluid injection injury / pneumatic injection injury

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none">1. Immediately advise all personnel:<ol style="list-style-type: none">a. A fluid injection injury has occurred and its locationb. The course of action2. Secure the emergency site and act to prevent further injury or harm to personnel3. Ensure equipment is shut off and isolated if possible and safe to do so4. Request medical assistance from the emergency services immediately by calling 000 or 112 if on a mobile.5. All fluid injection injuries require immediate medical examination. Do not allow the victim to drive to the hospital6. Coordinate first aid response7. Provide the Materials Safety Data Sheet for the fluid to ambulance officers8. Upon arrival back at work, the victim must report to the Supervisor and advise them of the results of the medical investigation
First Aid Officer	<ol style="list-style-type: none">1. Assess the area for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers <p>Remember: Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none">1. Report the details of the situation to the Chief Warden / Supervisor immediately. Emergency services must be contacted for this type of injury, as medical attention is required.2. Gently cleanse the injured area with water3. Immobilise the injured area and elevate the limb to a comfortable position4. Do not give the victim food or drink as surgery may be required5. Provide the Materials Safety Data Sheet for the fluid to ambulance officers6. Give the ambulance officers details of injury type, time of occurrence, affected area and other observations
All Persons	<p>Under no circumstances must the following occur:</p> <ol style="list-style-type: none">1. The victim be left alone2. Giving the victim food or drink3. Allowing the victim to drive to the hospital
Personnel	<ol style="list-style-type: none">1. Remain calm. Assess the situation first for hazards and risks to oneself and others.2. Proceed to handle the situation that does not endanger yourself or others3. Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state:<ol style="list-style-type: none">a. Your name or unit numberb. Location of the emergency and injured personsc. Any other useful information4. Shut down and isolate the machinery which is the cause if safe to do so5. Prevent access to area where fluid injection injury has occurred if in the vicinity6. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the [Insert Location]

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide
MSDS Register – Located in the Site Office

10. Gas Leak

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The emergency b. Its location c. Course of action 2. Secure the emergency site and act to prevent further injury or harm to personnel 3. Organise for the gas and electricity in the area to be isolated and ensure no open flames are present 4. Contact the emergency services immediately by calling 000 or 112 if on a mobile and request assistance 5. Initiate site evacuation procedure if necessary
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Isolate the gas and electricity to the area and ensure no open flames are present 4. Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> a. Your name or unit number b. Location of the emergency and injured persons c. Any other useful information 5. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required. 3. If burns are received by any victims follow the burns emergency procedure 4. If inhalation of gas occurs seek medical attention for the victim 5. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 6. Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide Water Cart – To fight fires if deemed safe to do so Fire Extinguishers – Locations of extinguishers are listed in the ‘Fire Procedures’ (red tab) of this guide	

11. Hazardous Material Spill

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The hazardous material spill and its location b. Course of action 2. Secure the emergency site and act to prevent further injury or harm to personnel or the environment. Establish the type of spill and the risk to human health 3. Contact the emergency services immediately by calling 000 or 112 if on a mobile and request assistance 4. Coordinate first aid response if required 5. Organise the prevention of further spread of the spill if safe to do so 6. Call S.E.S / E.P.A if required 7. Provide Materials Safety Data Sheet for material to the emergency services 8. Refer to Materials Safety Data Sheet for material and organise the clean up if not being handled by emergency services.
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> a. Your name or unit number b. Location of the hazardous material spill and injured persons c. Any other useful information 4. All personnel not involved in the emergency shall remain in their respective work areas unless instructed to render assistance or assemble at the emergency muster point located at the weighbridge 5. Do not leave the quarry without the permission of the Chief Warden / Supervisor 6. If applicable, take all reasonable means to prevent the hazardous materials leaving the premises: <ul style="list-style-type: none"> * Sweep up, Vacuum or use absorbent material * Do not hose down * Cover all drains in the vicinity of spill
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. <p>Remember Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required. 3. If burns are received by any victims follow the burns emergency procedure 4. If inhalation of fumes occurs seek medical attention for the victim 5. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 6. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

- First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide
- Spill Kit – Located in the workshop
- MSDS Register – Located in the Site Office

12. Hydraulic hose rupture

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> Immediately advise all personnel: <ol style="list-style-type: none"> Of the hydraulic hose rupture and its location The course of action Secure the emergency site and act to prevent further injury or harm to personnel Ensure equipment is shut off and isolated if possible and safe to do so Request medical assistance from the emergency services immediately by calling 000 or 112 if on a mobile if required If fluid injection injury has occurred, follow the fluid injection injury emergency procedure. All fluid injection injuries as a result of high-pressure fluids require immediate medical examination. Do not allow the victim to drive to the hospital Coordinate first aid response if required Provide the Materials Safety Data Sheet for the fluid to ambulance officers of hydraulic fluid if required
Personnel	<ol style="list-style-type: none"> Remain calm. Assess the situation first for hazards and risks to oneself and others. Proceed to handle the situation that does not endanger yourself or others Notify the Chief Warden or Supervisor immediately via the site radio frequency. If deemed serious say “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> Your name or unit number Location of the emergency and injured persons Any other useful information <p>Beware high pressure fluids may penetrate gloves</p> <ol style="list-style-type: none"> Shut down and isolate the machinery if safe to do so All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate
First Aid Officer	<ol style="list-style-type: none"> Assess the area for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers <p>Remember: Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> Report the details of the situation to the Chief Warden / Supervisor immediately. If fluid injection injury has occurred emergency services must be contacted for this type of injury, as medical attention is required. Injury may feel like a pinprick. Follow fluid injection injury emergency procedure if this type of injury has occurred Provide first aid if required. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide	
MSDS Register – Located in the Site Office	

13. Illegal occupancy - trespassing

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none">1. Remain Calm2. Initiate action to notify all persons on site that a trespasser is present and not to approach this person/people.3. Attempt to find out what the intruder is doing on site4. Try to persuade the intruder to leave the site5. Remember your safety and the safety of others is the priority6. If there is a threat to personnel advise them accordingly7. If deemed necessary and is possible, secure site to stop entry of personnel and the public (other than emergency response personnel)8. Call police for assistance if required
Personnel	<ol style="list-style-type: none">1. If site personnel hear of or observe a trespasser/s they must notify the Chief Warden or Supervisor immediately via the site radio frequency.2. Do not attempt to make contact with the trespasser3. Follow directions of the Chief Warden / Supervisor4. Remain Calm
All persons involved	<p>Under no circumstances must the following occur:</p> <ol style="list-style-type: none">1. Chasing or pursuing the illegal occupant2. Attempting to hold or detain illegal occupants

Resources Available on Site for Emergency

14. Lightning

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> Immediately advise all personnel of: <ol style="list-style-type: none"> The emergency Its location Course of action Secure the emergency site and act to prevent further injury or harm to personnel If a fire has started as a result of the lightning strike (if safe to do so): <ol style="list-style-type: none"> Organise for the gas and electricity in the area to be isolated Ensure no open flames are present Ensure fire hazards are removed from the area Contact the emergency services immediately by calling 000 or 112 if on a mobile and request assistance if deemed necessary Coordinate first aid response if necessary If mobile plant with tyres fitted has been struck by lightning, ensure the mobile plant is isolated in a vicinity prohibiting access to personnel for a period of 24 hours After period of 24 hours, remove all tyres from vehicle and deflate Initiate site evacuation procedure if deemed necessary
Personnel	<ol style="list-style-type: none"> Remain calm. Assess the situation first for hazards and risks to oneself and others. Proceed to handle the situation that does not endanger yourself or others Notify the Chief Warden or Supervisor immediately via the site radio frequency with “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> Your name or unit number Location of the emergency Any other useful information If a fire has occurred as a result of a lightning strike <ol style="list-style-type: none"> Isolate the power and gas in the area Do not fight fire unless you are trained and confident to do so without putting yourself or others at risk Always ensure you have an available path of escape when fighting a fire If lightning has struck mobile plant fitted with tyres, park and isolate the mobile plant for a period of 24 hours All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate
First Aid Officer	<ol style="list-style-type: none"> Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> Report the details of the situation to the Chief Warden / Supervisor immediately Provide first aid if required If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

Water Cart – To fight fires if deemed safe to do so

Fire Extinguishers – Locations of extinguishers are listed in the ‘Fire Procedures’ (red tab) of this guide

15. Major trauma

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> Respond to trauma in a controlled manner, always considering the safety of personnel and the public first Only attempt to control a major trauma if it is safe to do so Call emergency services on 000 or 112 if on a mobile immediately and request assistance Coordinate first aid response Call S.E.S if deemed necessary
Personnel	<ol style="list-style-type: none"> Contact Chief Warden / Supervisor immediately and inform them of the situation. If deemed serious, call on the two-way radio ‘Emergency Emergency Emergency’, state your name or unit number location and details of the major trauma All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate
First Aid Officer	<ol style="list-style-type: none"> Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> The major trauma must be reported to the Chief Warden / Supervisor immediately Provide first aid as required If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide	

16. Mobile plant collision

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The occurrence of the collision b. Its location c. Course of action 2. Contact the emergency services immediately by calling 000 or 112 if on a mobile immediately and request assistance if deemed necessary or medical assistance is required 3. Create an exclusion zone and prevent access to the area by personnel except emergency services unless they are to render assistance 4. Coordinate the first aid response if necessary 5. Ensure that the scene of the collision is disturbed as little as possible
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation. Call on the two-way radio and say 'Emergency Emergency Emergency', then state: <ol style="list-style-type: none"> a. Your name or unit number b. The emergency that has occurred c. The location of the emergency d. Any further useful information 4. Shut down all mobile plant and exit the vehicle if safe to do so 5. All personnel not involved in the emergency shall remain in their respective work areas or the crib room unless instructed to render assistance or proceed to the site muster area located at the Front Gate 6. Ensure that the scene of the collision is disturbed as little as possible
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the 'First Aid' (green tab) of this guide	
Water Cart – To fight fires if deemed safe to do so	
Fire Extinguishers – Locations of extinguishers are listed in the 'Fire Procedures' (red tab) of this guide	

17. Mobile plant fire

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of: <ol style="list-style-type: none"> a. The occurrence of the mobile plant fire b. Its location c. Course of action 2. Secure the emergency site and act to prevent further injury or harm to personnel 3. If tyre fire occurs, follow the tyre fire emergency procedure and do not attempt to fight a tyre fire under any circumstances 4. Contact the emergency services immediately by calling 000 or 112 if on a mobile and request assistance if fire is assessed to be too dangerous to fight or medical assistance is required. 5. Coordinate the first aid response if required 6. Ensure all fire hazards are removed from the vicinity of the mobile plant 7. Initiate site evacuation procedure and account for all personnel if required
Plant operator	<ol style="list-style-type: none"> 1. If you are operating mobile plant at the time the fire starts, stop the mobile plant as soon as possible and activate the mobile plants fire suppression system 2. Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> a. You name or unit number b. A mobile plant fire has occurred and your location c. Any other useful information 3. Park and isolate mobile plant 4. Evacuate the mobile plant and proceed to the site muster area 5. If fighting fire with an extinguisher do not fight fire unless you are trained and confident to do so without putting yourself or others at risk 6. Always ensure you have an available path of escape when fighting a fire 7. All personnel not involved in the emergency shall remain in their respective work areas or the crib room unless instructed to render assistance or proceed to the site muster area located at the weighbridge 8. If tyre fire occurs, follow the tyre fire emergency response procedure and do not attempt to fight the fire under any circumstances
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If victim has received burns, follow the burns emergency procedure 4. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 5. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

Water Cart – To fight fires if deemed safe to do so

Fire Extinguishers – Locations of extinguishers are listed in the ‘Fire Procedures’ (red tab) of this guide

18. Overhead power lines – lines down

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of location of lines on the ground. 2. Isolate and restrict access to the area where the lines are down 3. Contact Essential Energy Faults and Emergencies on 13 20 80 4. Contact emergency services on 000 or 112 if calling on a mobile if deemed necessary 5. Ensure that there is a plan of electrical isolation points and they are clearly identified.
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation using ‘Emergency Emergency Emergency’ over the site radio frequency. Then state: <ol style="list-style-type: none"> a. Your name or unit number b. The emergency that has occurred and its location c. Any further useful information. 4. Stay well clear of all lines 5. Act as a sentry to eliminate the risk of other personnel contacting the lines until otherwise advised by the Chief Warden / Supervisor 6. All personnel not involved in the emergency shall remain in their respective work areas unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate 7. If driving mobile plant that has become entangled in power lines, remain in plant until you have confirmation that lines are de-energised and it is safe to exit. 8. Mobile plant that has contacted energised lines must be parked and isolated for 24 hours (if fitted with tyres)
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. Remember Danger Response Airway Breathing Circulation Defibrillation <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives
Resources Available on Site for Emergency	
First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide	

19. Overhead power lines – mobile plant collision with poles / contact with overhead lines

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of the mobile plant collision with power pole/s or overhead lines 2. Contact Essential Energy Faults and Emergencies on 13 20 80 3. Contact emergency services if necessary. 4. Isolate and restrict access to the area where the collision has occurred 5. Ensure that there is a plan of electrical isolation points and they are clearly identified.
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation using ‘Emergency Emergency Emergency’ over the site radio frequency. Then state: <ol style="list-style-type: none"> a. Your name or unit number b. The emergency that has occurred and its location c. Any further useful information 4. If mobile plant has become entangled in power lines, remain in plant until you have confirmation that lines are de-energised and it is safe to exit. 5. If mobile plant is not entangled in the power lines, move plant away and stay well clear of all lines and poles 6. Act as a sentry to eliminate the risk of other personnel being harmed by unstable power pole or overhead lines that may come down. 7. All personnel not involved in the emergency shall remain in their respective work areas or quarry crib room unless instructed to render assistance or assemble at the emergency muster point located at the Front Gate 8. Mobile plant that has contacted energised lines must be parked and isolated for 24 hours (if fitted with tyres)
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. <p>Remember Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

20. Rescue from dams

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Immediately advise all personnel of the emergency 2. Secure the emergency site and act to prevent further injury or harm to personnel 3. Coordinate first aid response 4. Contact the emergency services immediately by calling 000 or 112 if on a mobile and request assistance if medical assistance is required. <p>To help prevent drowning in dams and aid in rescue:</p> <ol style="list-style-type: none"> 1. Ensure all personnel are familiar with the site (inducted) and know the location of all dams 2. Restrict access to all dams where practical 3. Ensure signs are posted around the dam informing personnel of the hazard 4. Ensure there is a rescue rope available with a floatation ring
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others. 2. Proceed to handle the situation that does not endanger yourself or others 3. Contact Chief Warden / Supervisor immediately and inform them of the situation. If deemed serious, call on the two-way radio 'Emergency Emergency Emergency', state your name or unit number, location and describe the emergency. 4. Notify Chief Warden / Supervisor immediately if there is someone that requires rescuing from a dam before attempting any rescue. Do not attempt to rescue if it is unsafe to do so 5. Use a rope or floatation device as a preference to rescue the victim 6. All personnel not involved in the emergency shall remain in their respective work areas or the crib room unless instructed to render assistance or proceed to the site muster area at located at the Front Gate
First Aid Officer	<ol style="list-style-type: none"> 1. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to rescuers. <p>Remember: Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> 1. Report the details of the situation to the Chief Warden / Supervisor immediately 2. Provide first aid if required 3. If the injury is severe or you are unable to provide the necessary treatment required external medical and/or rescue services must be contacted 4. Reassure the victim and assist them until help arrives

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the 'First Aid' (green tab) of this guide

21. Scrub / bush fires

Personnel	Action
Chief Warden / Supervisor	<div>1. Immediately advise all personnel of:<div>a. The occurrence of the scrub fire and its location</div>b. Course of action</div> <div>2. Create an exclusion zone and prevent access, if possible, by personnel to the area of the scrub fire</div> <div>3. Contact the fire brigade immediately by calling 000 or 112 if calling from a mobile and request assistance if the fire is assessed to be too dangerous to fight</div> <div>4. Contact emergency services if medical assistance is required and coordinate first aid response</div> <div>5. Arrange to have site air conditioners turned off to prevent smoke contamination within building and machines</div> <div>6. Ensure all fire hazards are removed from the vicinity of the scrub fire</div> <div>7. If fighting the fire, organise the personnel who are trained and confident to do so to render assistance</div>
Personnel	<div>8. Initiate site evacuation procedure if deemed necessary and account for all personnel</div> <div>1. Remain calm. Assess the situation first for hazards and risks to oneself and others.</div> <div>2. Proceed to handle the situation that does not endanger yourself or others</div> <div>3. If site personnel hear of or observe a scrub fire they must notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state:<div>a. Your name or unit number</div>b. The location and size of the fire</div> c. Any other useful information

4. Do not fight the fire unless you are trained and confident to do so without putting yourself or others at risk

5. Always ensure you have an available path of escape when fighting a fire

6. Personnel are not to leave the site unless given permission from the Chief Warden / Supervisor

7. All personnel not involved in the emergency shall remain in their respective or the crib room unless instructed to render assistance or assemble at the emergency muster point located at the **Front Gate**

8. Report all empty or partially used fire extinguishers to a responsible person for replacement

Resources Available on Site for Emergency

- First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide
- Water Cart – To fight fires if deemed safe to do so

21. Scrub / bush fires

Fire Extinguishers – Locations of extinguishers are listed in the 'Fire Procedures' (red tab) of this guide

22. Snake / spider bite

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> 1. Contact the emergency services immediately on 000 or 112 if calling from a mobile and request medical assistance 2. Immediately advise all personnel: <ol style="list-style-type: none"> a. Of the occurrence of the bite b. Not to attempt to capture or kill the snake / spider 3. Coordinate the first aid response and ensure First Aid Officer has adequate access to appropriate first aid supplies/kit 4. Ensure all details of the event are recorded and provided to the emergency services
Personnel	<ol style="list-style-type: none"> 1. Remain calm. Assess the situation first for hazards and risks to oneself and others 2. Proceed to handle the situation that does not endanger yourself or others 3. Do not attempt to capture or kill the snake / spider 4. Notify the Chief Warden / Supervisor immediately via the site radio frequency using "Emergency, emergency, emergency..." and state: <ol style="list-style-type: none"> a. Your name or unit number b. The emergency and location of the victim c. Any other useful information 5. All personnel not involved in the emergency shall remain in their respective or the crib room unless instructed to render assistance
First Aid Officer	<ol style="list-style-type: none"> 1. All snake and spider bites must be treated as and assumed to be venomous to ensure that no venomous bite is overlooked endangering the victim. 2. Do not attempt to catch the spider or snake 3. Do not wash bite or attempt to suck out the venom 4. Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to anyone. Remember: Danger Response Airway Breathing Circulation Defibrillation 1. Provide first aid as required 2. The victim must be placed at rest, lying down to reduce the effects of shock and slow venom absorption. 3. Frequent assurance must be given to the victim during and after treatment 4. Bandage the bite firmly as if bandaging for a sprained ankle with crepe bandage. Do not cut off circulation 5. Apply a firm pressure immobilisation over previous bandage around the bite by starting at the base of the limb and working upwards. This bandage must be applied firmly but not cut off circulation 6. Keep bitten limb level with the rest of the body 7. Immobilise the limb with a sling or by tying the limb to another stationary part of the body 8. Check regularly that bandages are not too tight because movement by the victim to get comfortable will encourage more venom to enter the system 9. Keep victim quiet, still and comfortable providing reassurance until help arrives 10. Monitor victim and be ready to administer CPR if needed

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the 'First Aid' (green tab) of this guide

23. Theft and damage

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none">1. Assess the need to contact police internally with management and request assistance if required2. Initiate action to notify all persons on site3. Do not allow personnel to touch anything in the area4. If possible, do not disturb the area where theft or damage has occurred until police give the all clear.5. Prepare a list of what is damaged or missing6. If required contact insurance company
Personnel	<ol style="list-style-type: none">1. Remain calm. Assess the situation first for hazards and risks to oneself and others.2. Proceed to handle the situation that does not endanger yourself or others3. Immediately upon hearing of or observing any act of theft, vandalism or damage, the Chief Warden / Supervisor must be notified.4. Do not disturb the area5. Follow directions of the Chief Warden / Supervisor / police
Resources Available on Site for Emergency	

24. Tyre fire

Personnel	Action
Chief Warden / Supervisor	<ol style="list-style-type: none"> Immediately advise all personnel of: <ol style="list-style-type: none"> The occurrence of the tyre fire Its location Course of action Isolate the vehicle, secure the area and create a large exclusion zone to prevent access, by personnel to the area of the tyre fire. Do not under any circumstances attempt to fight the fire. If tyre bursts, the surrounding area may be showered with molten rubber and steel in addition to an air blast many times above the pressure of the tyre. Coordinate first aid response if required Initiate site evacuation emergency procedure and account for all personnel Immediately contact the emergency services immediately on 000 or 112 if on a mobile and request assistance Monitor the tyre for a period of 24 hours after the fire is extinguished Arrange to have tyre deflated after 24hr monitoring period and remove the tyre Arrange for the fire damaged tyre to be inspected by the manufacturers representative
Personnel	<ol style="list-style-type: none"> Remain calm. Assess the situation first for hazards and risks to oneself and others. Proceed to handle the situation that does not endanger yourself or others Notify the Chief Warden or Supervisor immediately via the site radio frequency using “Emergency, emergency, emergency...” and state: <ol style="list-style-type: none"> Your name or unit number The location of the tyre fire Any other useful information Do not under any circumstances attempt to fight the fire Shut down and isolate the mobile plant equipment Follow Chief Warden’s / Supervisors instructions and evacuate the site to the muster area at the Front gate Personnel are not to leave the site unless given permission from the Chief Warden / Supervisor
First Aid Officer	<ol style="list-style-type: none"> Assess the area first for hazards and risks to oneself and others. Prohibit access to situations that may result in further injuries to anyone. <p>Remember: Danger Response Airway Breathing Circulation Defibrillation</p> <ol style="list-style-type: none"> Provide first aid if required If burns are received by the victim, follow the burns first aid procedure If smoke inhalation has occurred seek medical assistance for the victim/s If the injury is severe or you are unable to provide the necessary treatment required, contact external medical and/or rescue services Reassure the victim and assist them until help arrives
All Persons	<p>Under no circumstances should any persons except the fire brigade attempt to extinguish the tyre fire</p>

Resources Available on Site for Emergency

First Aid Kit – Locations of kits are listed in the ‘First Aid’ (green tab) of this guide

25. Flood Event

Personnel	Action
Chief Warden / Supervisor	Notify staff of flood event Arrange removal of machines and transportable equipment to higher ground Remove all tools from the work shop Remove all oil stored in oil store Arrange stockpile of material at concrete plant Arrange for excess fuel to be pumped from fuel tanks Remove any low lying equipment, pumps. Prepare fuse plug. Remove any rubbish that maybe lying around. Secure river pump. Turn power off to site.
Personnel	Make sure site is evacuated in plenty of time.
First Aid Officers	As above




Resources Available on Site for Emergency

APPENDIX K

ENVIRONMENTAL MONITORING LOCATIONS



Legend

-  Dust Deposition Gauge/PM₁₀
-  Groundwater Loggers
-  Noise Monitoring Locations



Wagga Wagga Quarry Environmental Monitoring

Image Source: Google Maps (Base Layer)



Appendix L

Hanson Environmental Management Policy

Environmental Policy

Hanson accepts the responsibility for environmental protection which is integral to the conduct of its commercial operations.

Hanson is committed to:

- Operating practices which seek to minimise impacts, prevent pollution and minimise the likelihood of environmental harm through work and management practices, continual improvement, training and the use of new technology;
- Compliance with all applicable environmental laws and regulations and Codes of Practice in existing operations, new developments and upgrades;
- Management review of environmental objectives and targets;
- Waste management to minimise wastes, develop viable recycling opportunities, and ensure proper handling and disposal methods;
- Product development which seeks to combine commercial viability and efficient use and conservation of resources;
- Environmental assessment of new projects, asset purchases, sales and existing operations;
- Environmental Incident Response – contingency plans to minimise health, safety and environmental risks;
- Rehabilitation of areas affected by business operations;
- Communication of the Hanson environmental policy;
- Striving to meet Community Expectations through consultation within Hanson and with other relevant bodies, community groups and neighbours about environmental matters of common concern;
- Water Management which is integral to achieving sustainability, balancing today's needs with those of the future (refer to Water Policy for more information); and
- Energy management which is integral to managing greenhouse gas emissions from our operations and thus abating the impact of our business on the climate (refer to Energy Management Policy for more information).

Hanson will encourage concern and respect for the environment and will emphasise every employee's responsibility for environmental performance.



Kevin Gluskie
Chief Executive

1 January 2014

Replaces version 1/4/2009