





Appendix 11

Mine Closure and Rehabilitation Plan

Figure – 1 Proposed Overburden rehabilitation

Figure – 2 Visualisation 1 from Perry Barr Rd

Figure – 3 Visualisation 2 from Perry Barr Rd

Figure – 4 Visualisation 3 from Perry Barr Rd

Figure – 5 Progressive Rehabilitation Areas

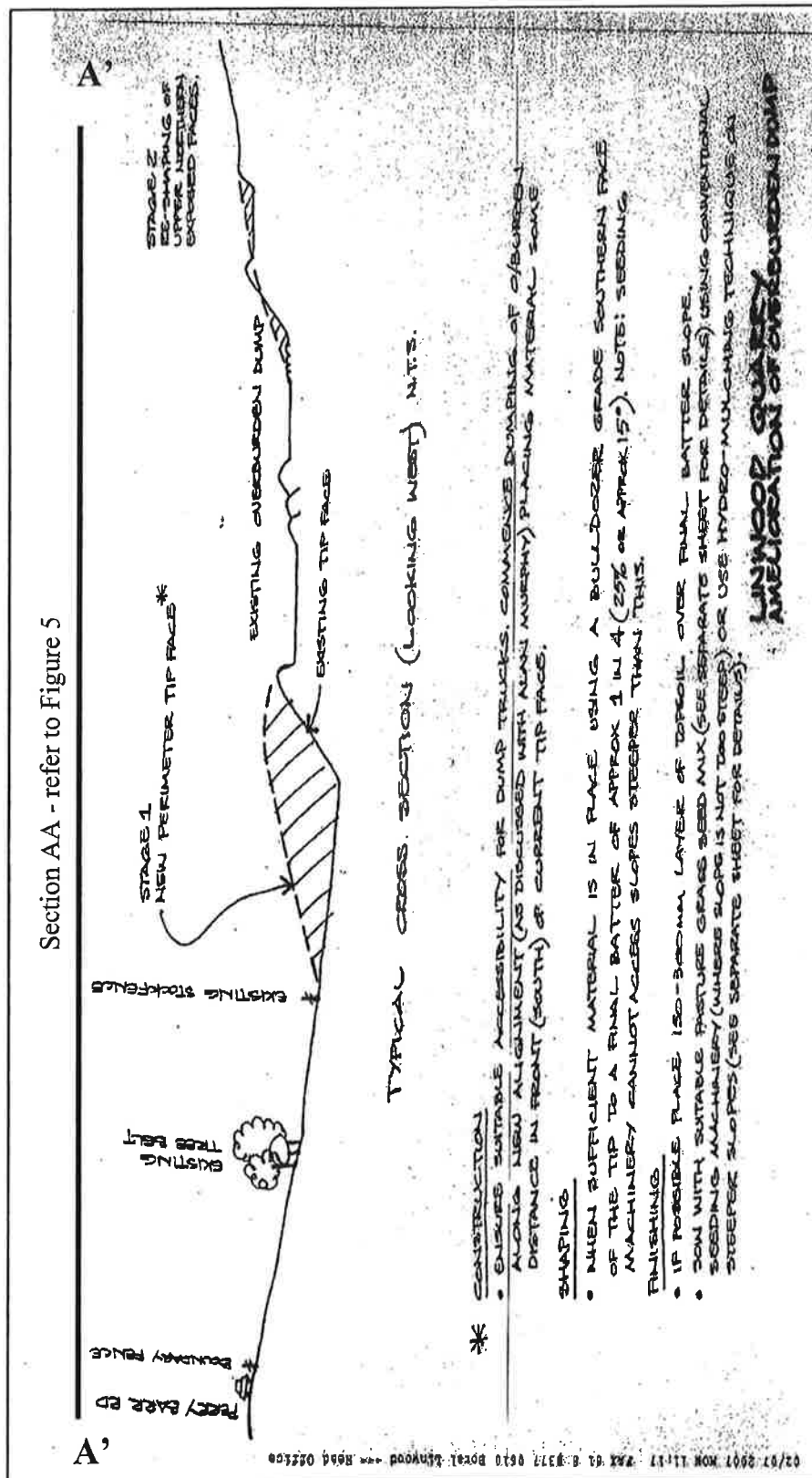
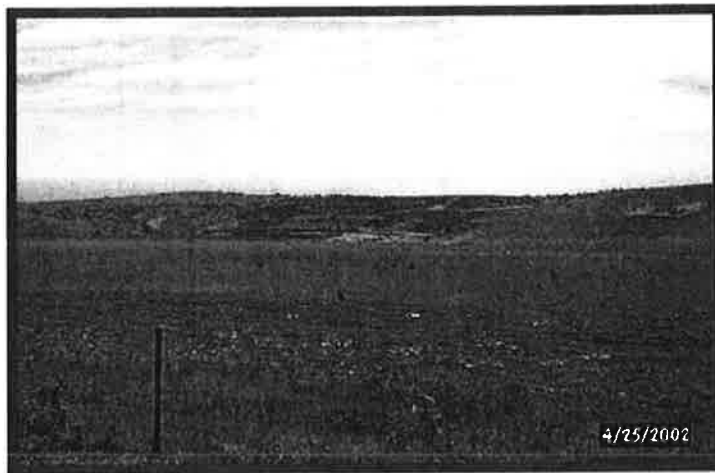


Figure 1 – Proposed Overburden Rehabilitation



TODAY...



**FUTURE
SCREENING...**



Figure 2 - Visualisation 1 from Perry Barr Road



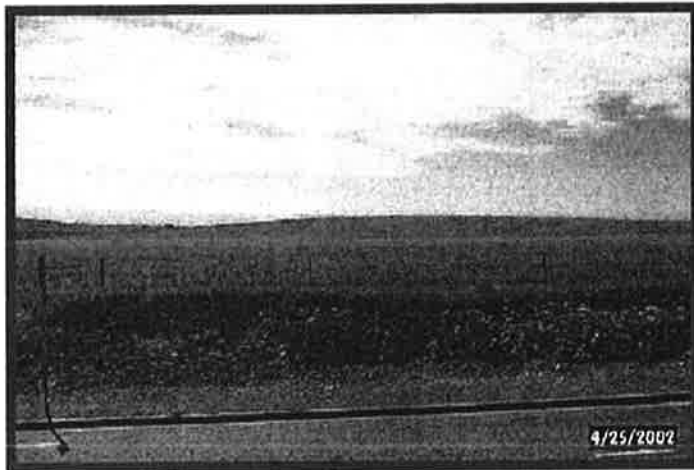
TODAY...



**FUTURE
SCREENING
MOUND...**



Figure 3 - Visualisation 2 from Perry Barr Road



TODAY...



**FUTURE
SCREENING ...**

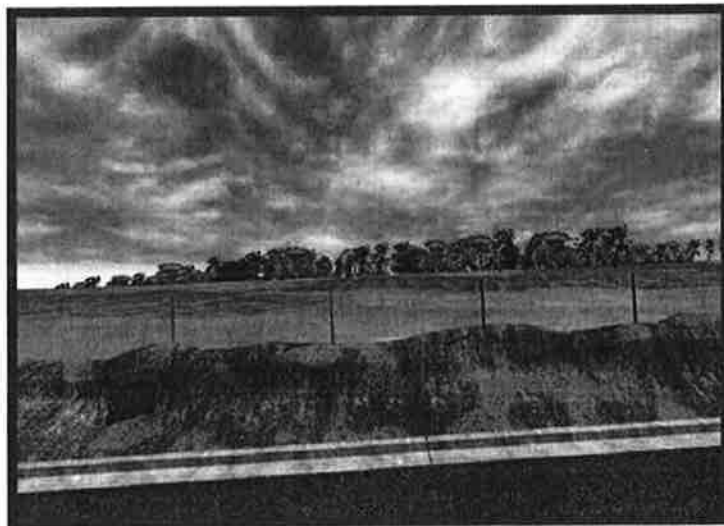


Figure 4 - Visualisation 3 from Perry Barr Road



Figure 5 – Progressive Rehabilitation Areas



Appendix 12

Blast Design and Evaluation Record

And

Photograph of Set Blast Monitoring Points

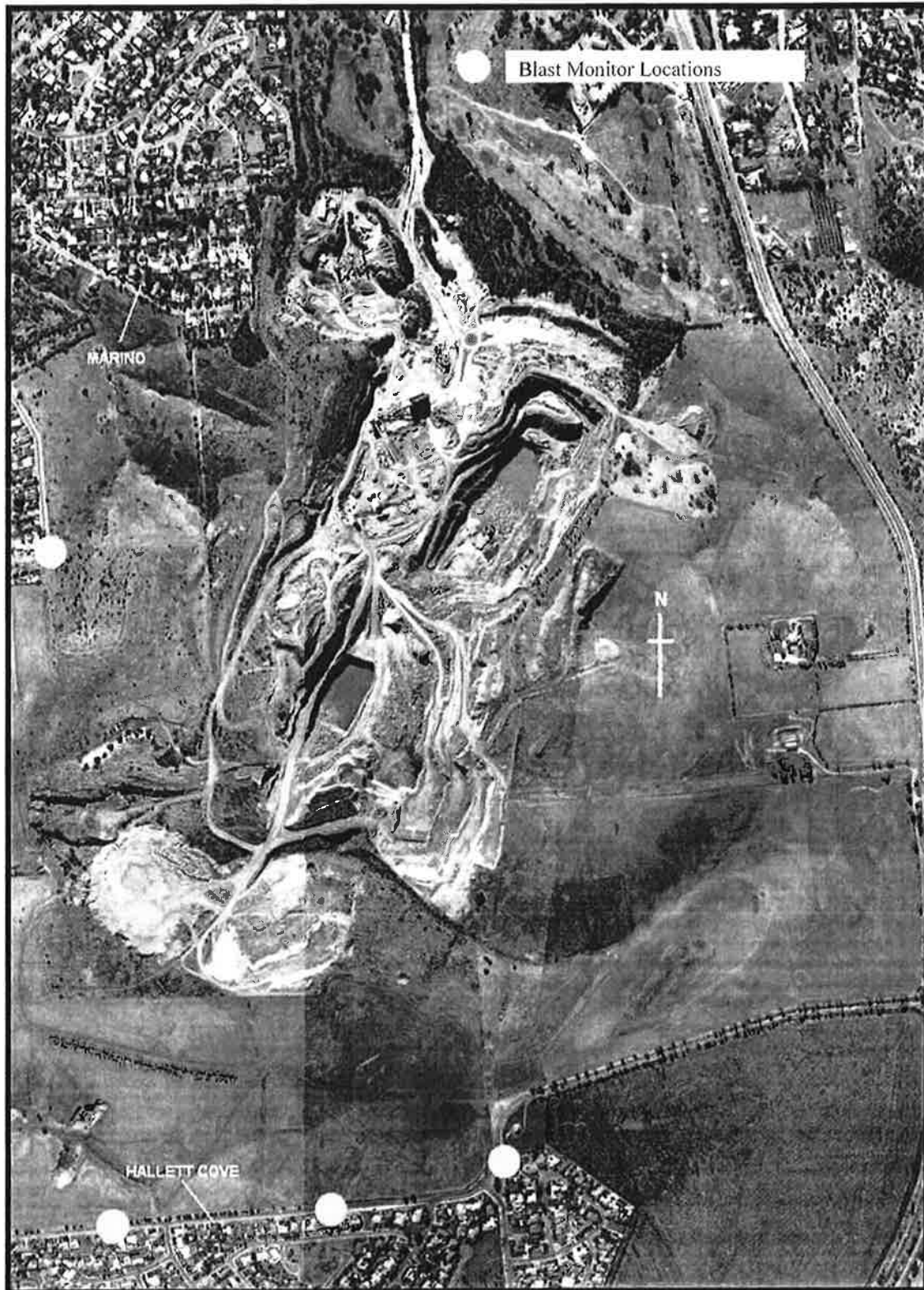


Blast Design and Evaluation Record

Date:

Location:

Blast Geometry		Environmental Readings			
Number of Blast Holes:		Cloud Cover (%) :			
Number of Wet Holes :		Wind Velocity			
Blast Hole Dia (mm) :		Wind Direction			
Number of rows :		MIC			
Designed drill angle :					
Bench Height (m) :		Monitor Location	PPV (mm/sec)	AB (dBL)	Dist (m)
Burden (m) :					
Spacing (m)					
Subdrill (m) :					
Stemming (m) :					
Blast Tonnes (tnes) :					
Powder Factor (kg/m ³) :					
Blast Design Process		Blast Assessment			
Laser Profiled		Throw distance (m) :			
Boretracked		Power trough depth (m) :			
Simulator fired delays		Face to Crest distance (m) :			
Delay Design		% Oversize (%) :			
Hole depths checked		% Overburden (%) :			
Productivity		Distribution List			
Total Tonnes From Shot		1. Shotfirers Folder			
Total Hours To Move		2. Operations Manager			
Total Oversize		3. Environmental Manager			
		4. Quarry Manager			
L&H Productivity		Shotfirers Sign-off			
		Name			
Complaints					
Name	Address			Number	



Linwood Quarry
Location of Set Blast Monitoring Stations



Appendix 13

Location of Photographic Points and Area for Stockpiling of Topsoil



Construction
Materials

Linwood Quarry







Appendix 14

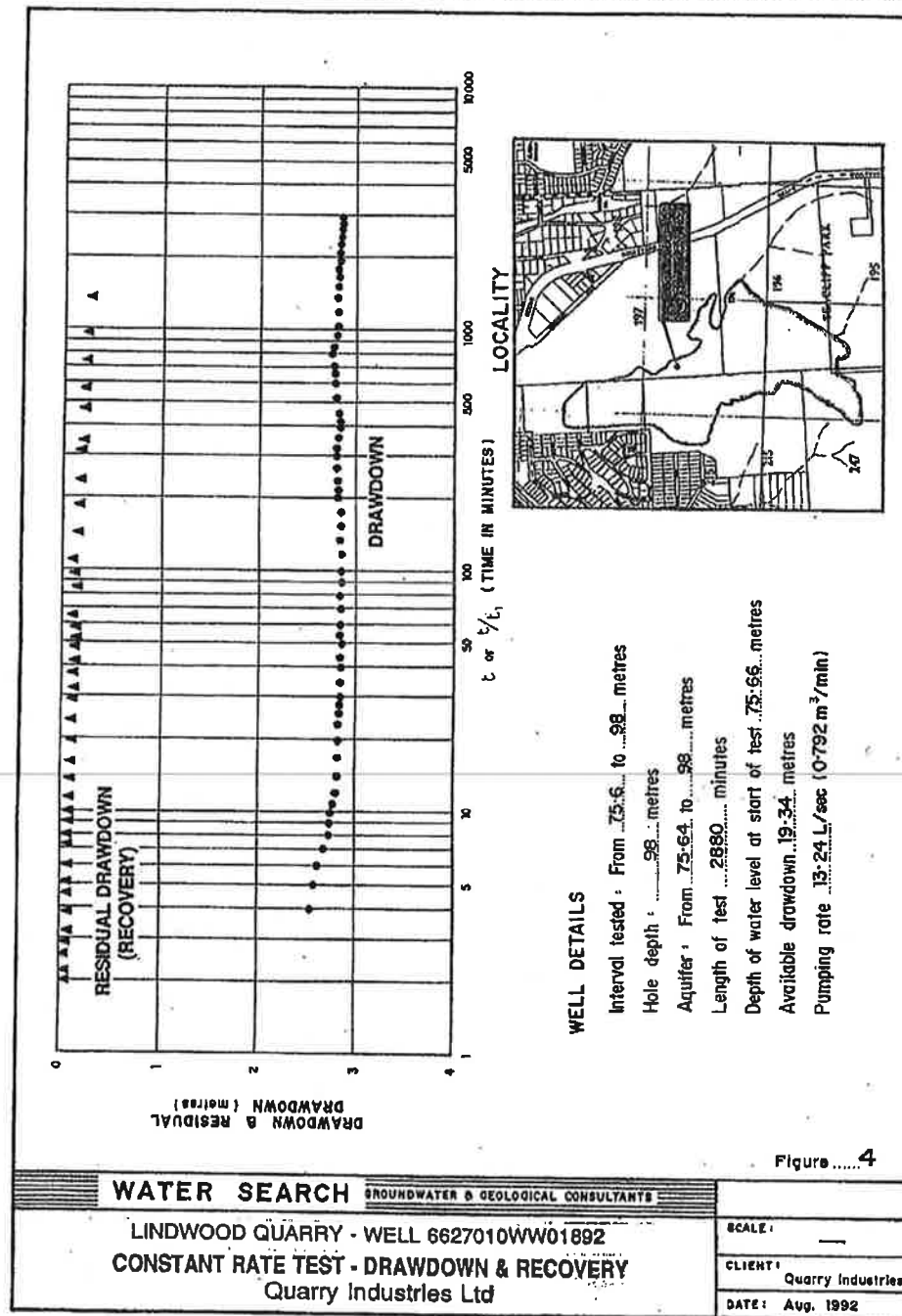
Linwood Bore Details

Figure – 1 Bore Location

Figure – 2 Drawdown and Recovery Details

Figure – 3 Well Construction Details

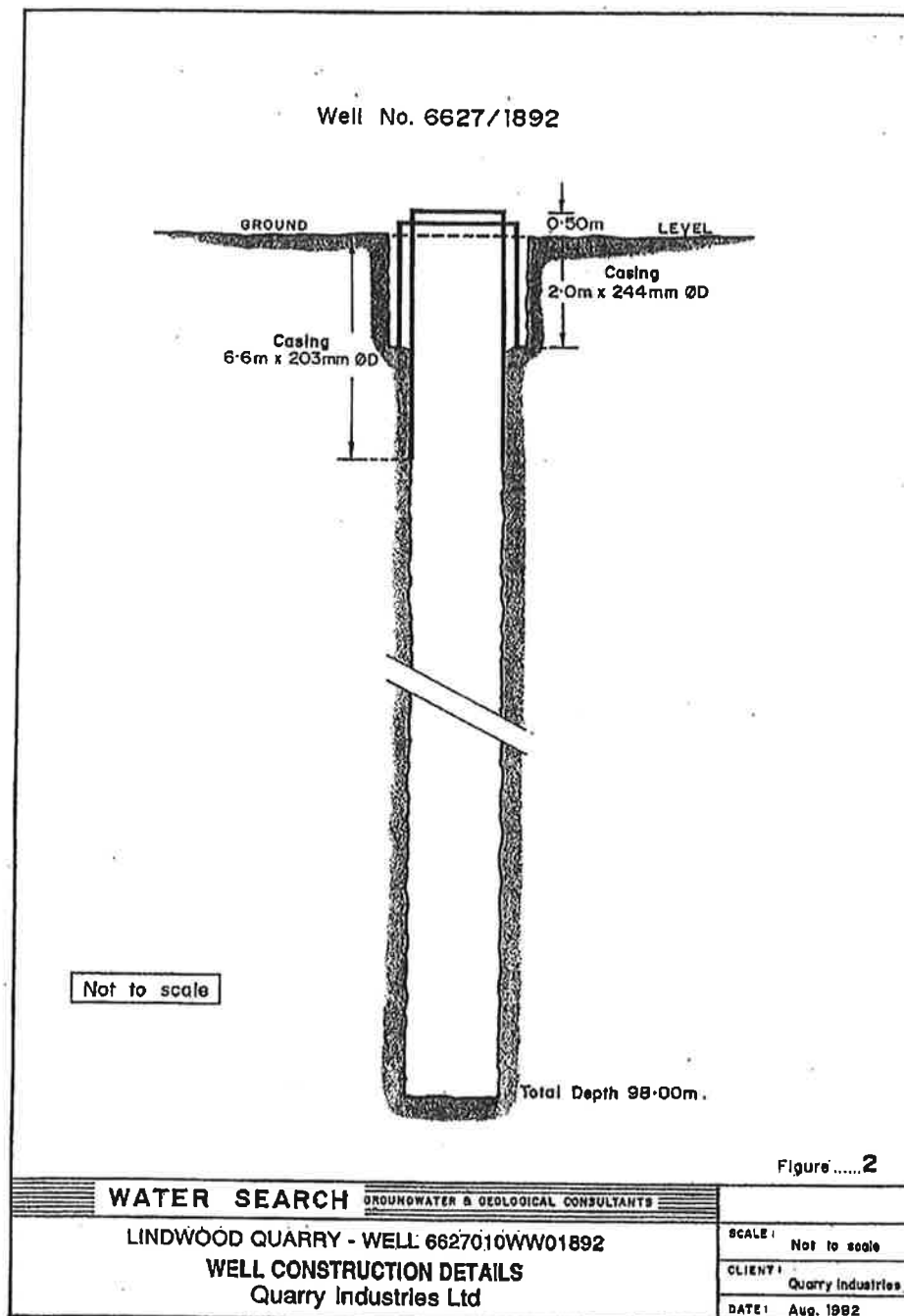






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Appendix 15

Linwood Quarry

Emergency Procedures



Construction
Materials

Linwood Quarry



LINWOOD QUARRY

EMERGENCY PROCEDURES

Including:

**Fire, Flood, Medical, Explosion, Structural
Evacuation, Bomb Threat, Environmental**





Construction
Materials

Linwood Quarry

Site Personnel

QUARRY MANAGER	alan murphy
EMERGENCY WARDEN (EW) Assumes overall command until Emergency Services arrive	Alan Murphy In their absence next senior person on site
DEPUTY WARDEN (DW)	Carm Nicolo In their absence next senior person on site
COMMUNICATIONS OFFICER (CO)	Weighbridge Operator: John Berryman (Deputy warden and Communications Officer roles may be combined)
FIRST AIDER/S	Refer Notice Board

FIRST AID KIT LOCATIONS	<ul style="list-style-type: none">• Quarry weighbridge• Quarry lunchroom• Concrete plant
ASSEMBLY AREAS	<ul style="list-style-type: none">• Main entrance to quarry• Western viewing hill



Emergency Contacts - Internal

In the case of an emergency at the site the following people should be notified **IN THE FIRST INSTANCE**:

Refer to Emergency Phone Contact Numbers displayed on Notice Boards for Individual Phone numbers	
QUARRY MANAGER	Manager - 08 8298 8810 Weighbridge - 08 8296 1058
GENERAL MANAGER STATE MANAGER QUARRIES OH&S MANAGER OH&S ADVISOR TO QUARRIES ENVIRONMENT MANAGER	General Phone - Hindmarsh 08 8425 0400

NOTE

Contact with Safe Work SA for OHS related issues or the EPA for Environmental related issues should only be made after consultation with Senior Management

Emergency Contacts - External

Emergency Services (General No.)	000
Police (for attendance Metro.)	131 444
Gas (Origin Energy)	8217 5211
Electricity (ETSA)	131 366



Water (SA Water)

8207 1300

EMERGENCY EVACUATION PROCEDURE

On being advised by radio of **"EMERGENCY EMERGENCY EMERGENCY"** or hearing the 'Alert' siren (whoop-whoop sound)

Stand by. Maintain radio silence.

Get prepared to evacuate to the nearest Assembly Area on instructions from the Emergency Warden or Communications Officer,

On hearing the instruction to evacuate the area -

Secure equipment, collect small personal effects only if they are next to you (unless this is a bomb threat) and proceed to evacuate in an orderly manner.

If you have a nominated role, commence required tasks.

If you are away from your normal work area, do not return to your work area.

Proceed immediately to the Assembly Area. (See site plan) and Report to the Deputy Warden.

Do not leave the Assembly Area or re-enter buildings until instructed by the Emergency Warden or Emergency Services if in attendance – they will control the situation

A SITE PLAN showing SAFE ASSEMBLY AREA is located at the Weighbridge and on the notice board

**PLEASE ENSURE YOU KNOW WHERE THE CLOSEST ASSEMBLY AREA
IS TO WHERE YOU ARE WORKING AT ALL TIMES**

RESPONSIBILITIES TABLE

EMERGENCY WARDEN (EW) RESPONSIBILITIES

Phase 1 (Before Emergency) (Preparation)	<ul style="list-style-type: none"> • Notify DW if planning to be absent • Ensure Emergency Procedures are up to date • Ensure site plans are up to date • Ensure First Aid staff are trained • Ensure emergency drills are conducted (twice yearly) • Ensure visitors sign the visitors book
Phase 2 (During Emergency)	<ul style="list-style-type: none"> • Upon hearing of emergency, proceed to site of emergency • Assess situation and liaise with Deputy Warden (DW) • Instruct CO to notify Emergency Services as needed • Confirm all personnel are notified of emergency • Confirm all persons in danger are moved to safety if possible • Arrange evacuation (if required) • Arrange for Emergency Services to be met at weigh-bridge – hand over responsibility to them • Isolate electrical services • Advise management • Advise other relevant company personnel
Phase 3 (After Emergency)	<ul style="list-style-type: none"> • Pass All-Clear instruction • Conduct debrief • Refurbish equipment • Evaluate Emergency Procedures • Prepare incident report

DEPUTY WARDEN (DW) RESPONSIBILITIES

Phase 1 (Before Emergency) (Preparation)	<ul style="list-style-type: none"> • Notify EW if planning to be absent • Be aware of visitors on site and ready to account for their location
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Phase 2 (During Emergency)	<ul style="list-style-type: none">• Liaise with EW• Evacuate to Assembly area and account for personnel• Notify EW that area is cleared• Verify with EW that all persons are accounted or not• Follow instructions
Phase 3 (After Emergency)	<ul style="list-style-type: none">• Attend debrief• Review Emergency Procedures

RESPONSIBILITIES TABLE

COMMUNICATIONS OFFICER (CO) RESPONSIBILITIES

Phase 1 (Before Emergency) (Preparation)	<ul style="list-style-type: none">• Arrange stand-in when absent• Ensure emergency phone lists are updated• Ensure bomb threat list is available
Phase 2 (During Emergency)	<ul style="list-style-type: none">• Proceed to main Control Point• Inform personnel of emergency by radio if instructed to do so by EW• Call emergency services if instructed to do so by EW• Advise BEAMS of emergency situation• Ensure all visitors are accounted for (via DW)• Stop / Control inward traffic flow
Phase 3 (After Emergency)	<ul style="list-style-type: none">• Attend debrief• Refurbish equipment



FIRST AID PERSONNEL RESPONSIBILITIES

Phase 1 (Before Emergency) (Preparation)	<ul style="list-style-type: none">• Ensure Maintenance of First Aid kit in complete state
Phase 2 (During Emergency)	<ul style="list-style-type: none">• Collect First Aid kit where instructed• Act under instructions from EW• Render assistance as required
Phase 3 (After Emergency)	<ul style="list-style-type: none">• Attend debrief• Ensure first aid supplies are restocked

RESPONSIBILITIES TABLE

SITE PERSONNEL RESPONSIBILITIES

<ul style="list-style-type: none">• Raise the alarm (if appropriate)
<ul style="list-style-type: none">• Advise the Emergency Warden of emergency
<ul style="list-style-type: none">• Call emergency services (if needed or directed to do so)
<ul style="list-style-type: none">• Assist the Emergency Warden as required to:<ul style="list-style-type: none">• protect the safety of site personnel• on evacuation, guide other personnel to safe assembly area if required• account for all personnel if asked to do so



- provide first aid / emergency treatment for any injured personnel (if trained)
 - protect the integrity of site plant and equipment (if safe and appropriate)
 - contain the situation where possible if safe to do so
 - arrange for appropriate assistance
 - advise management and relevant company personnel of the occurrence and situation if requested to do so
-
- If requested, take part in any de-brief of the incident with all involved personnel to ascertain the cause and investigate ways to prevent future occurrences

IMMEDIATE ACTIONS in the event of an emergency

MEDICAL EMERGENCY

Call or send another person to advise the Quarry Manager / Emergency Warden and First Aider who will decide on the appropriate action, eg. site first aid / doctor / ambulance

If you have had First Aid training the following applies:

REMEMBER -

D ANGER
R ESPONSE
A IRWAY
B REATHING
C IRCULATION



- If applicable and if trained: commence **CPR**
- Treat the casualty appropriately and keep them comfortable
- Stay with the casualty until assistance arrives

FIRE / SMOKE

- Raise the alarm

If safe to do so:

- Try to extinguish fire
- If in a building, close doors and windows
- Try to limit contaminated emissions
- If toxic emission - move away from wind direction of emission
- Shut down / switch off machines, plant and appliances, and isolate (**if safe or permissible**)
- Act under the instructions of the Emergency Warden
- Do not re-enter area until authorised

FOR BUSHFIRE: Follow established procedures unless advised differently by the person in charge

IMMEDIATE ACTIONS in the event of an emergency

THREATS TO BUSINESS OR PERSONNEL

- If answering a telephone call where threats are made:
- Be courteous and listen to complaints, advise that the complaint will be addressed by Management. Gather what information you can without antagonising the caller
- Advise Quarry Manager immediately



- Ensure all personnel are safe and accounted for
- Advise Police promptly

BOMB THREAT

- If answering a telephone call advising of a bomb, obtain as much information as possible, use the checklist below.
- Contact your Emergency Warden – but do not create panic by telling other personnel.
- If Emergency Warden is unavailable contact Deputy immediately.
- Await instructions from authorised persons.
- While waiting, look for any suspicious items or packages in your immediate area.
- If found, advise Emergency Warden immediately, but do not touch the item.
- If asked to evacuate – Leave immediately, do not take personal effects with you.
- Proceed to your Assembly Area.
- Do not leave the Assembly Area unless authorised to do so.



BOMB THREAT CHECKLIST

Try and ask these questions:			
When is the bomb going to explode?			
Where is the bomb located?			
What does it look like?			
When was the bomb placed there?			
What kind of bomb is it?			
What will make the bomb explode?			
Did you place the bomb?			
Why did you place the bomb?			
What is your name?			
Where are you now?			
Don't hang up, even if the caller terminates the call. Call the Chief Warden immediately, who will advise the next step.			
Callers Identity (Circle the response where possible)			
Male	Female	Juvenile	Age
Origin of Call (circle where possible)			
Local	Long Distance	Booth	Internal STD
Voice Characteristics		Speech	
Loud	Soft	Fast	Slow
High pitched	Deep	Distinct	Distorted
Raspy	Pleasant	Stutter	Nasal
Intoxicated		Slurred	Lisp
Language		Accent	
Excellent	Good	Local	Not local
Fair	Poor	Foreign	
Manner		Background Noises	
Calm	Angry	Factory Noises	Trains
Rational	Irrational	Bedlam	Animals
Coherent	Incoherent	Music	Quiet
Deliberate	Emotional	Office machines	Voices
Righteous	Laughing	Mixed	Airplanes