RISK ASSESSMENT OF
EXTENSION CRACKS IN QUARRY
ACCESS ROAD ALONG EASTERN HIGH WALL.

Persons involved in risk assessment

ALASDAIL WEBB.
TONY LUKE.
PETER HEWSON.

Promt sheet: Risk assessment should indicate in the case of the tasks below which prompt sheet was used.

Further action required: All hazards that are identified that are not adequately controlled and require further controls should be transferred to the hazard register for further action and marked below.

Are there any relevant Australian Standards or other legislative requirements for this plant? (List)  NO

Are there any relevant manufacturers operating manuals, tests, inspections required for this plant? (List) NO

Are there any competencies, licenses or other requirements to operate plant or equipment? (List) SLOPE STABILITY TRAINING GEOLOGICAL QUALIFICATIONS

RISK ASSESSMENT WORKSHEET

Risk Assessment No: LANDSLIDE 1
Date conducted: 23/10/18
Site: DUBBO QUARRY

Task/item assessed

Hierarchy of Controls
- Elimination
- Substitution
- Engineering
- Administrative
- Personal Protective Equipment (PPE)

Risk Score Matrix

<table>
<thead>
<tr>
<th>RISK RATING</th>
<th>CONSEQUENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH</td>
<td>HIGH</td>
</tr>
<tr>
<td>MODERATE</td>
<td>MODERATE</td>
</tr>
<tr>
<td>LOW</td>
<td>LOW</td>
</tr>
</tbody>
</table>

Personal Consequence Categories
- Death
- Severe injury resulting in permanent disability
- Hospitalization
- Minor injury requiring first aid and treatment

Hazard Prompt Sheet used (and attached)
- Confined Space (3.13C)
- Working at Heights (3.8A)
- Manual Handling (3.7A)
- Fixed Plant, Mobile Equipment & Vehicles (3.2E)
- Traffic Management (3.14A)

What potential emergency situations exist for this plant? (List)

Note: Procedures for potential emergency situations should be included in your site emergency plan.

Have there been any previous incidents or illness data that should be considered for this plant? (List)

YES, MINE LANDSLIDE INCIDENTS.
<table>
<thead>
<tr>
<th>Hazards / Issues</th>
<th>Current controls</th>
<th>Risk Score</th>
<th>Selected control (consider the Hierarchy of Controls)</th>
<th>WHO</th>
<th>WHEN</th>
<th>RRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension cracks noted in quality access road</td>
<td>NIL.</td>
<td>H</td>
<td>Construct an alternative access road to the east of the existing access road + close existing section of sealed access road adjacent the eastern high wall.</td>
<td>AW</td>
<td>23/01/18</td>
<td>L</td>
</tr>
<tr>
<td>Cracks noticed by quality supervisor</td>
<td>Only have a bund wall along edge of road at top of eastern quarry high wall.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tony Luke during daily inspection of quarry site</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential for landslide of access road</td>
<td>NIL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whilst traffic is on the road.</td>
<td></td>
<td>H</td>
<td>Stop production immediately. Hold a JSA meeting with road construction crew (Production team) + build a new road by passing problematic area.</td>
<td>AW</td>
<td>23/01/18</td>
<td>L</td>
</tr>
</tbody>
</table>

Note: If current controls are adequate and no further controls are required to reduce the risk, record "No further controls (NFC)" under selected control column.

Is a Permit to Work required? YES / NO
Hot Work
Live Access
- Working at Heights
- Confined Space entry
- Excavation & trenching
- Agitator barrel dedagging
- Risk of drowning
- Asbestos work

Selected controls reduce risk to an acceptable level? YES / NO

Authorised by (name & signature): Alan J. Webb

Reference added to hazard register (Date): 23/01/18
**Risk Assessment Worksheet**

- **Risk Assessment No:** LANDSLIDE 2
- **Date conducted:** 24/10/2018
- **Site:** DUBBO QUARRY

**Task/item assessed:**

- **EXTENSION CRACKS IN ACCESS ROAD & GROUND TO THE NORTH OF CONMIX STOCKPILES**

**Persons involved in risk assessment:**

- **ALASDAIR WEBB**

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**Risk Score Matrix**

<table>
<thead>
<tr>
<th>Hierarchy of Controls</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Elimination</td>
<td></td>
</tr>
<tr>
<td>Substitution</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>Administrative</td>
<td></td>
</tr>
<tr>
<td>Personal Protective Equipment (PPE)</td>
<td></td>
</tr>
</tbody>
</table>

**Personal Consequence Categories ZENOHarm**

- **1. Death:** Injuries that result in a fatality or multiple fatalities.
- **2. Serious:** Serious injury resulting in hospitalization.

**Prompt sheet:** Risk assessment should indicate in the case of the tasks below which prompt sheet was used.

**Further action required:** All hazards that are identified that are not adequately controlled and require further controls should be transferred to the hazard register for further action and marked below.

**Hazard Prompt Sheet used (and attached):** **NIL**

- Confinement Space (3.13C)
- Hazardous Substances / Dangerous Goods (3.20D)
- Prevention of Drowning (3.27J)
- Working at Heights (3.8A)
- Manual Handling (3.7A)
- Excavate/Trench (3.31A)
- Fixed Plant, Mobile Equipment & Vehicles (3.2E)
- Traffic Management (3.14A)
- Critical Lifts (3.12B)

**Are there any relevant Australian Standards or other legislative requirements for this plant?**

- **List:** NO

**What potential emergency situations exist for this plant?**

- **List:** UNCONTROLLED LANDSLIDE

**Are there any relevant manufacturers operating manuals, tests, inspections required for this plant?**

- **List:** NO

**Have there been any previous incident or illness data that should be considered for this plant?**

- **List:** YES, MINE LANDSLIDE INCIDENTS

**Are there any competencies, licenses or other requirements to operate plant or equipment?**

- **List:** SLOPE STABILITY TRAINING
- **List:** GEOLOGICAL QUALIFICATIONS
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<th>RRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTENSION CRACKS IDENTIFIED IN SEALED ACCESS ROAD.</td>
<td>TRAFFIC DIVERTED ON TO A NEW ROAD EAST OF THE AREA IDENTIFIED TO THE NORTH OF TO CONTAIN EXTENSION BOND WALL &amp; CON MIX STOCKPILE.</td>
<td>L</td>
<td>NFC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POTENTIAL LANDSLIDE AFFECT ON MOBILE EQUIPMENT WORKING BELOW.</td>
<td>NIL</td>
<td>H</td>
<td>INITIATE SURVEY AN ASAP</td>
<td>H</td>
<td>C/S</td>
<td>Q</td>
</tr>
</tbody>
</table>

Note: If current controls are adequate and no further controls are required to reduce the risk, record "No further controls (NFC)" under selected control column.

Selected controls reduce risk to an acceptable level? YES / NO
Authorised by (name & signature): AUSAR WEBB

Reference added to hazard register (Date): 23/10/18
Date: 23/10/18

Attachment 3.1P Issue Date: June 2011 © Holcim (Australia) Pty Ltd 2/2