# BROADMEADOW MINE

## ISAAC RIVER SUBSIDENCE MANAGEMENT

### TRIGGER ACTION RESPONSE PLAN

**CONTROLLED DOCUMENT NO.**
BRM-TAR-00043

**Version:** 1.0

**Status:** Approved

<table>
<thead>
<tr>
<th>Level</th>
<th>Green Normal</th>
<th>Yellow: Level 1 Response</th>
<th>Orange: Level 2 Response</th>
<th>Red: Level 3 Response</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Monitoring &amp; preventative works</td>
<td>Isolated significant works required</td>
<td>Large scale remediation activities required</td>
<td></td>
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</tbody>
</table>

### TRIGGER CONDITION

- No observed impact from watercourse subsidence.
- Low level impacts including:
  - Minor bank erosion caused by subsidence
  - Vegetation dieback
  - Identified risk of erosion to pillar zones

- Isolated high level impact including:
  - Isolated severe erosion of banks and drainage lines
  - Damage to pile field zone
  - Damage to drop structure

- Significant impact to river including:
  - Mass bank failure
  - Stream migration
  - Complete failure of pile field/s
  - Complete failure of drop structure

### ACTIONS

#### Monitoring

- Annual Subsidence Monitoring
- Piezometer monitoring
- Pre wet season inspections
- Post flow event inspections
- Targeted RPEQ inspection
- Full RPEQ inspection and review

#### Pre Subsidence Management

- General land management activities including:
  - Weed control
  - Pest animal management
  - Grazing management
  - Fire management
- Pillar zone pile field installation
- Targeted bank vegetation establishment

#### Post Subsidence Remediation (indicative dependent on issue)

None required

- Minor drainage works including rock chutes
- Minor bank remediation works including ripping
- Targeted vegetation establishment
- Installation of additional piles and rock armouring at pillar zones
- Review and implement (where appropriate) RPEQ recommendations
- Targeted river bed reshaping works and rock armouring of lower banks
- Repair of drop structure
- Large scale vegetation establishment campaign
- Major remediation works including:
  - Review design/redesign and construction of grade control structures and pile field installations
  - Large scale whole of panel bank battering works, subsoil treatment, topsoiling and vegetation establishment

#### Management Strategy Review

None required

- Annual review and improvement of remediation designs and strategy
- Update of adaptive management strategy and review of SMP Risk Assessment
- Full review of Subsidence Management Plan