Austar Coal Mine
Mining Operations Plan
2019 –2026
## Austar Coal Mine
### Mining Operations Plan

<table>
<thead>
<tr>
<th>Name of Mine:</th>
<th>Austar Coal Mine</th>
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<tbody>
<tr>
<td>MOP Commencement Date:</td>
<td>June 2019</td>
</tr>
<tr>
<td>MOP Completion Date:</td>
<td>May 2026</td>
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<tr>
<td>Mining Authorisations:</td>
<td>Refer to Table 1.3</td>
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<td>Name of Authorisation Holders:</td>
<td>Austar Coal Mine Pty Ltd</td>
</tr>
<tr>
<td>Name of Mine Operator:</td>
<td>Yancoal Mining Services Pty Ltd</td>
</tr>
</tbody>
</table>
| Name and Contact Details of the Mine Manager or equivalent: | Brian Wesley – Mine Operations Manager  
(02) 4993 7356  
brian.wesley@yancoal.com.au |
| Name and Contact Details of the Environmental Representative: | Carly McCormack – Environment and Community Superintendent  
(02) 4993 7334  
Carly.McCormack@yancoal.com.au |
| Name of the representative of the authorisation holders: | Brian Wesley |
| Title of representative of the authorisation holders: | Mine Operations Manager |
| Signature of representative or authorisation holder: | [Signature] |
| Signature Date:                   | 26/6/2019        |
# DOCUMENT CONTROL

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<th>Date</th>
<th>Prepared</th>
<th>Approved</th>
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</thead>
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<tr>
<td></td>
<td>0</td>
<td>24 June 2019</td>
<td>Carly McCormack</td>
<td>Brian Wesley</td>
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<tr>
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<tr>
<td></td>
<td>DPE-RR</td>
<td>Neil McElhinney</td>
<td>1</td>
<td>1</td>
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1 INTRODUCTION

This Mining Operations Plan (MOP) for the Austar Coal Mine has been developed in accordance with ESG3 – Mining Operations Plan Guidelines (DRE, 2013) (the MOP Guidelines).

1.1 History of Operations

Austar Coal Mine Pty Limited (Austar), a subsidiary of Yancoal Australia Limited (Yancoal) owns the Austar Coal Mine, an underground coal mine located approximately 10 kilometres south of Cessnock in the Lower Hunter Valley in NSW. Austar Coal Mine incorporates the former Ellalong, Pelton, Bellbird, Cessnock No.1 and Bellbird South Collieries. Operations include coal extraction, handling, processing and rail and road transport facilities. An overview of the operation is shown in Plan 1A. A significant part of the mine’s operational areas are listed under the Heritage provisions of the Cessnock Local Environmental Plan 2011.

Mining is approved under two major project approvals: Bellbird South (DA 29/95) and Stage 3 (PA 08_0111), along with numerous development approvals from Cessnock City Council (as listed in Table 1-1 Development Consents held by AustarTable 1-1. Within the Bellbird South Area, mining has been completed in Stage 1 (Longwalls A1 and A2) and Stage 2 (Longwalls A3-A5a). Within the approved Stage 3 area, mining has been completed in Longwalls A7 and A8 only.

Mining is currently being undertaken in the Bellbird South Mining area (Longwalls B1 to B7). Within the Stage 3 area, Longwalls A9 to A19 are yet to be mined.

Underground mining activities are proposed to continue within Bellbird South and Stage 3 areas during this MOP period (refer to Section 2).

1.2 Consents, Leases & Licences

The operation at Austar is regulated by a range of leases, licences and approvals from both State and Local authorities. The Austar Coal Mine is classified as a State Significant Development and therefore is classified as a Level 1 Mine in accordance with the MOP guidelines.

The following sections provide details of the status and requirements of each statutory approval.
1.2.1 Development Consents and Statutory Approvals

A summary of development approvals and consents held by Austar is outlined in Table 1-1 below.

Table 1-1 Development Consents held by Austar

<table>
<thead>
<tr>
<th>Consent Description</th>
<th>Date</th>
<th>Expiry</th>
<th>Approval Authority</th>
<th>Summary of Approved Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA 29/95</td>
<td>14 Feb 1996</td>
<td>14 Feb 2022</td>
<td>Minister for Urban Affairs and Planning</td>
<td>Ellalong Colliery Extension into Bellbird South.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Extension of underground mining activities into Bellbird South area (CML 2).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mine life of 21 years with a production of 3 Million tonnes per annum (Mtpa).</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reject emplacement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Construction and operation of a new infrastructure site including new</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ventilation shaft and fan(s) (No. 2 Shaft) adjacent to Sandy Creek Road.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Use of Pelton CHPP for washing and handling of coal.</td>
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<td></td>
<td>Provision of a maximum raw coal stockpile of 100,000 t.</td>
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<tr>
<td></td>
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<td></td>
<td>Reopening of disused Cessnock No. 1 Colliery shafts for ventilation and</td>
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<td></td>
<td></td>
<td></td>
<td>access, or the sinking of new shafts, as required.</td>
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<td></td>
<td>Construction of various water management devices including sedimentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>and clean water dams and drainage systems.</td>
</tr>
<tr>
<td>DA 29/95</td>
<td>27 September 2006</td>
<td>14 Feb 2022</td>
<td>Minister for Planning</td>
<td>Extension of Underground Mining Activities into Bellbird South (Ellalong</td>
</tr>
<tr>
<td></td>
<td>8 Jun 2008 (MOD 2)</td>
<td></td>
<td></td>
<td>Colliery) – Modification.</td>
</tr>
<tr>
<td></td>
<td>28 May 2009 (MOD 3)</td>
<td></td>
<td></td>
<td>Use of long wall top coal caving (LTCC) mining methods in two longwall</td>
</tr>
<tr>
<td></td>
<td>7 Dec 2010 (MOD 4)</td>
<td></td>
<td></td>
<td>panels.</td>
</tr>
<tr>
<td></td>
<td>27 April 2012</td>
<td></td>
<td></td>
<td>Installation of a larger capacity fan at the site approved for DA 8/1999/1658.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation of a new downcast ventilation shaft.</td>
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<td></td>
<td>Installation of a new 10 MVA substation.</td>
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<td></td>
<td>Installation of a nitrogen inertisation plant with a 2,000 cubic metre</td>
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<td></td>
<td></td>
<td></td>
<td>capacity.</td>
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<td></td>
<td></td>
<td>Provision of a diesel and emulsion fluid storage area and dispatch system.</td>
</tr>
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<td></td>
<td>Installation of a tube bundle shed to house electronic monitoring equipment.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Upgrade of the existing water treatment plant.</td>
</tr>
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## Consent Description

<table>
<thead>
<tr>
<th>Consent Description</th>
<th>Date</th>
<th>Expiry</th>
<th>Approval Authority</th>
<th>Summary of Approved Development</th>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>(MOD 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>29 January 2016</td>
<td></td>
<td></td>
<td>Upgrade of water reticulation and pumps.</td>
</tr>
<tr>
<td></td>
<td>(MOD 6)</td>
<td></td>
<td></td>
<td>Minor embankment stabilisation works at Kalingo Dam.</td>
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<tr>
<td></td>
<td>25 August 2017</td>
<td></td>
<td></td>
<td>Longer and wider panels A4 and A5.</td>
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<tr>
<td></td>
<td>(MOD 7)</td>
<td></td>
<td></td>
<td>Extract one additional Longwall Panel A5a (LW A5a)</td>
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<td></td>
<td></td>
<td></td>
<td>Extension of Longwall Panel A5a</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Extension to Bellbird South development consent area to include Longwall panels LWB1 to LWB 7</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>Extension of consent to 14 February 2022</td>
</tr>
<tr>
<td>Project Approval 08_0111</td>
<td>6 Sep 2009</td>
<td>31 Dec 2030</td>
<td>Minister for Planning</td>
<td>Stage 3 Expansion Project - extension to longwall mining area to east of existing operations. Key features:</td>
</tr>
<tr>
<td>(Modifications)</td>
<td></td>
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<td></td>
<td>Longwall production from the Greta coal seam from panels A6 to A17 using LTCC.</td>
</tr>
<tr>
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<td>Construction of a new surface infrastructure site south west of Kitchener including ventilation</td>
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<td>shafts and fans, winders, bath house facilities, a workshop, electricity substation, store and</td>
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<td></td>
<td></td>
<td>offices. Construction of a new road and intersection at Quorrobolong Road.</td>
</tr>
<tr>
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<td></td>
<td>Coal will continue to be brought to the surface at Auster's existing surface facilities at Paxton.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>These facilities will continue to be used to take large mining equipment into and out of the mine.</td>
</tr>
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<td></td>
<td></td>
<td>Continued use of Auster's existing water management, coal transport systems, coal preparation</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>plant and rejects emplacement areas.</td>
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### Project Approval 08_0111

<table>
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<tr>
<td></td>
<td>(MOD 1)</td>
<td></td>
<td></td>
<td>Minor change to subsidence impact performance measures to built features in Table 1 of Project Approval. The key performance indicator which was amended in the Project Approval requires the project does not cause built features to go beyond safe, serviceable and repairable criteria, unless the landowner agrees in writing.</td>
</tr>
<tr>
<td></td>
<td>4 May 2010</td>
<td>31 Dec 2030</td>
<td>Delegate for Minister for Planning</td>
<td>Reorientation of the Stage 3 longwalls. Removal of longwall A6, and extraction of coal in longwalls A7 to A19, which are a reorientation of previously approved longwalls A7 to A17 to more closely</td>
</tr>
<tr>
<td></td>
<td>(MOD 2)</td>
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<td></td>
<td>13 March 2012</td>
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<tr>
<td>Consent Description</td>
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<td>Expiry</td>
<td>Approval Authority</td>
<td>Summary of Approved Development</td>
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<td></td>
<td>17 Dec 2013</td>
<td></td>
<td></td>
<td>align with the direction of principal stress. In addition, the chain pillar widths are increased from 45m to 55m to reduce roadway failure risks which in turn further minimises subsidence. The modification will enable more efficient and safer extraction of coal from the Stage 3 area. Extension of Stage 3 longwalls A7 to A10.</td>
</tr>
<tr>
<td>DA 74/75/79</td>
<td>4 Dec 1975</td>
<td>Nil expiry</td>
<td>Cessnock City Council (CCC)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Development Consent for a coal mine at Ellalong including: Approval for underground coal mining. Construction of a new access drift, upcast shaft and ventilation shaft. Expansion of the Pelton CHPP. Conveyance of coal from the Ellalong pit top to the Pelton CHPP Operation for the washing and handling of coal. Water management systems. Upgrade of the Pelton rail loading facility and railway spur. reject emplacement underground, open cut areas adjoining Pelton and other abandoned mine sites.</td>
</tr>
<tr>
<td>DA 118/691/181</td>
<td>26 Nov 1992</td>
<td>Nil expiry</td>
<td>CCC</td>
<td>Pelton Open Cut Coal Mine. Approval of an open cut coal mine adjoining Pelton Colliery up to 300,000 tonnes of coal and underground mining of approximately 27,000 tonnes of coal from a section of prior workings south of the proposed open cut.</td>
</tr>
<tr>
<td>Consent Description</td>
<td>Date</td>
<td>Expiry</td>
<td>Approval Authority</td>
<td>Summary of Approved Development</td>
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</tr>
<tr>
<td>DA 118/693/42</td>
<td>26 Nov 1993</td>
<td>Nil expiry</td>
<td>CCC</td>
<td>Extension of Pelton Open Cut Mine. Extension of open cut mining area including emplacement of overburden in previously mined blocks and extension of the mine’s water management system.</td>
</tr>
<tr>
<td>DA 118/694/120</td>
<td>27 Jun 1994</td>
<td>Nil expiry</td>
<td>CCC</td>
<td>Approves the extraction of longwall panels LW13 and LW14 as a minor extension to the Ellalong Colliery within CML2.</td>
</tr>
<tr>
<td>DA 118/694/152</td>
<td>7 Jul 1994</td>
<td>Nil expiry</td>
<td>CCC</td>
<td>Relocatable Office and Temporary Bathhouse at Pelton Colliery.</td>
</tr>
</tbody>
</table>
Details of the relevant Extraction Plan Approvals for Austar Coal Mine are summarised in Table 1-2.

Table 1-2 - Subsidence Management Plan / Extraction Plan Approvals held by Austar

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
<th>Expiry Date</th>
<th>Approval Authority</th>
<th>Approval Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction Plan Approval</td>
<td>30 May 2013</td>
<td>31 Dec 2030</td>
<td>DP&amp;E</td>
<td>Extraction Plan approval for Austar Longwalls A7 to A10</td>
</tr>
<tr>
<td>SMP Approval 13/1876</td>
<td>3 June 2013</td>
<td>31 May 2020</td>
<td>DRE</td>
<td>Subsidence Management Plan approval for Austar Longwalls A7 to A10.</td>
</tr>
<tr>
<td>Extraction Plan Approval</td>
<td>6 Jan 2014</td>
<td>31 Dec 2030</td>
<td>DP&amp;E</td>
<td>Extraction Plan approval for Austar Longwalls A7 to A10 to correspond to PA08_0111 MOD3 and retraction to LWA8 start position.</td>
</tr>
<tr>
<td>SMP Variation Approval 13/1876</td>
<td>7 Jan 2014</td>
<td>31 May 2020</td>
<td>DRE</td>
<td>Subsidence Management Plan approval for Austar Longwalls A7 to A10 to correspond to PA08_0111 MOD and retraction to LWA8 start position.</td>
</tr>
<tr>
<td>SMP Variation Approval 13/1876</td>
<td>19 Feb 2014</td>
<td>31 May 2020</td>
<td>DRE</td>
<td>Subsidence Management Plan approval for retraction to LWA9 commencing end</td>
</tr>
<tr>
<td>Extraction Plan LWB1 to LWB3</td>
<td>16 May 2016</td>
<td>Not specified</td>
<td>DP&amp;E</td>
<td>Extraction Plan for Bellbird South Longwalls B1 to B3 was approved by DP&amp;E on 4 July 2016</td>
</tr>
<tr>
<td>Extraction Plan LWB4 to LWB7</td>
<td>1 February 2019</td>
<td>Not specified</td>
<td>DP&amp;E</td>
<td>Extraction Plan for Bellbird South Longwalls B4 to B7 updated to include the shortening of LWB4 was approved by DP&amp;E on 12 February 2019</td>
</tr>
</tbody>
</table>

Details of the relevant mining authorisations for Austar Coal Mine are summarised in Table 1-3.

Table 1-3 Mining Leases held by Austar
<table>
<thead>
<tr>
<th>Mining Title (Act)</th>
<th>Date Granted</th>
<th>Expiry Date</th>
<th>Area</th>
<th>Surface</th>
<th>Depth Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 6598 (1992)</td>
<td>13/07/2006</td>
<td>16/06/2021</td>
<td>7,370</td>
<td>Yes</td>
<td>Various</td>
</tr>
<tr>
<td>Dam Site Lease 89 (1901)</td>
<td>04/04/1908</td>
<td>04/04/2030</td>
<td>3.961</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Mineral Lease No. 1157 (1906)</td>
<td>8/07/1949</td>
<td>08/07/2028</td>
<td>10.24</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Mineral Lease No. 1283 (1906)</td>
<td>13/07/1961</td>
<td>13/07/2022</td>
<td>1.973</td>
<td>No (sub-surface)</td>
<td>7.62 to 15.24 metres</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 23 (1906)</td>
<td>17/05/1909</td>
<td>17/05/2030</td>
<td>2.421</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 204 (1906)</td>
<td>03/02/1916</td>
<td>03/02/2039</td>
<td>1.2</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 217 (1906)</td>
<td>12/04/1916</td>
<td>03/02/2039</td>
<td>0.6298</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 233 (1906)</td>
<td>01/08/1916</td>
<td>01/08/2036</td>
<td>1.973</td>
<td>Yes</td>
<td>Surface to 7.62 metres</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 269 (1906)</td>
<td>07/12/1917</td>
<td>07/12/2018</td>
<td>2.79</td>
<td>Yes</td>
<td>Surface to 6.1 metres below the level of the rails when laid</td>
</tr>
<tr>
<td>Mining Purposes Lease No. 1364 (1906)</td>
<td>28/10/1968</td>
<td>28/10/2029</td>
<td>0.4527</td>
<td>Yes</td>
<td>Surface to 15.24 metres</td>
</tr>
<tr>
<td>Consolidated Coal Lease No. 728 (1973)</td>
<td>10/10/1989</td>
<td>30/12/2023</td>
<td>3296.8</td>
<td>Various</td>
<td>Various</td>
</tr>
<tr>
<td>Consolidated Coal Lease No. 752 (1973)</td>
<td>23/05/1990</td>
<td>30/12/2023</td>
<td>3802</td>
<td>No (Sub-surface)</td>
<td>Various</td>
</tr>
<tr>
<td>Consolidated Mining Lease No. 2 (1992)</td>
<td>24/03/1993</td>
<td>06/07/2025</td>
<td>3388</td>
<td>Various</td>
<td>Various</td>
</tr>
<tr>
<td>Mining Lease No. 1345 (1992)</td>
<td>23/03/1995</td>
<td>30/12/2023</td>
<td>41.895</td>
<td>Yes</td>
<td>Surface to 900 metres depth</td>
</tr>
<tr>
<td>Mining Lease No. 1388 (1992)</td>
<td>02/04/1996</td>
<td>02/04/2038</td>
<td>15.12</td>
<td>No (sub-surface)</td>
<td>30.48 to unlimited depth</td>
</tr>
<tr>
<td>Mining Lease No. 1550 (1992)</td>
<td>24/06/2004</td>
<td>23/06/2025</td>
<td>14.11</td>
<td>Yes</td>
<td>Surface to 20 metres</td>
</tr>
<tr>
<td>Mining Lease No. 1661 (1992)</td>
<td>22/11/2011</td>
<td>22/11/2032</td>
<td>469.32</td>
<td>No (sub-surface)</td>
<td>20 to 900 metres</td>
</tr>
</tbody>
</table>
1.2.1.1 Environment Protection Licence

Austar operates in accordance with Environment Protection Licence 416 (EPL 416), issued on 5 April 2000 by the NSW Environment Protection Authority (EPA), under the authority of the Protection of the Environment Operations Act 1997.

1.2.1.2 Water Licences

Austar holds water licences for monitoring and dewatering bores across the operation. Austar’s current water licences issued under Part 5 of the Water Act 1912 are provided in Table 1-4.

<table>
<thead>
<tr>
<th>Licence Held</th>
<th>Licence Number</th>
<th>Validity of Licence</th>
<th>Purpose of Licence</th>
<th>Extraction Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL171361</td>
<td>17 May 2007 - Perpetuity</td>
<td>Monitoring Bore (AQLD1077)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL172524</td>
<td>20 July 2010 - Perpetuity</td>
<td>Monitoring Bore (NER1010)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL172852</td>
<td>7 June 2011 - Perpetuity</td>
<td>Monitoring Bore (WBH1, WBH2, WBH3)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL173843</td>
<td>1 Oct 2014 - Perpetuity</td>
<td>Monitoring Bore (BB1, BB2, BB3)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL173878</td>
<td>8 Dec 2014 - Perpetuity</td>
<td>Monitoring Bore (MB01)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bore Licence Certificate</td>
<td>20BL173891</td>
<td>19 Mar 2015 - Perpetuity</td>
<td>Monitoring Bore (MB02)</td>
<td>N/A</td>
</tr>
<tr>
<td>Water Access Licence / Associated Works</td>
<td>WAL19181 / 20AL210298</td>
<td>Continuing</td>
<td>Unregulated River Water Licence</td>
<td>Hunter Unregulated and Alluvial Water Sources - Upper Wollombi Water Source - Congewai Creek Management Zone. 10 shares</td>
</tr>
</tbody>
</table>
**1.3 Land Ownership and Land Use**

The final landform for the site has been developed in consideration of the current surrounding land uses and ownership of the site as outlined below.

### 1.3.1 Land Ownership

Most land on which Austar operates surface facilities is privately owned by Austar. The Stage 3 underground mining area is primarily located beneath private rural land holdings. The northern portion of the Stage 3 extraction area extends underneath the Werakata State Conservation Area (SCA) and sections of Crown land, as well as an area of Austar-owned land to the west of the approved Surface Infrastructure Site. Land ownership above the Bellbird South / Ellalong longwall panels LWB1 to LWB7 is a mix of privately owned and Austar owned land.

Land ownership is shown in Plan 1C and Appendix 1. Stakeholder consultation undertaken during the preparation of this MOP is detailed in Section 1.4.

### 1.3.2 Land Use

Surrounding land uses include grazing, poultry production, state conservation area, residential and mining. Most of the underground mining area that is the subject of this MOP is located within mining authorisations CML2, ML1661, and CCL728.

The villages of Kitchener, Abernethy, Bellbird, Paxton, Pelton and Ellalong (refer to Plan 1A) are also located in proximity to the mining activities undertaken by Austar.

### 1.4 Stakeholder Consultation

Discussions with the Department of Planning - Resources Regulator (DPE-RR) are held annually during the Annual Review (AR) process and as required. Austar personnel maintain ongoing discussions with the Department of Planning – Resources and Geoscience (DRG) regarding Extraction Plan, MOP and AR processes. In addition, the Annual Review is distributed to all relevant agencies.

Consultation on Austar’s mining operations and environmental performance is undertaken on a regular basis with the Austar Community Consultative Committee (Austar CCC). The minutes of the Austar CCC meetings are distributed to main government agencies, the Cessnock City Council and placed on the Austar Coal Mine website. Stakeholders directly over the underground longwall mining

---

**Licence Held** | **Licence Number** | **Validity of Licence** | **Purpose of Licence** | **Extraction Limit**
---|---|---|---|---
area (landowners, infrastructure owners), and government agencies are engaged when preparing management plans through the Extraction Plan process, and are also provided with direct updates on mining operations progress and subsidence monitoring.

Consultation with DPE-RR Inspector Environment in regards to the MOP identified a concern regarding the ability of the reject emplacement capping to maintain a barrier between the atmosphere and reject material (that is potentially acid forming and subject to spontaneous combustion) in the event of bushfire. This is discussed in Section 3.

2 PROPOSED MINING ACTIVITIES

2.1 Project Description

A summary of the key features of the operations at Austar are summarised in Table 2-1.

<table>
<thead>
<tr>
<th>Table 2-1 Approved Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aspect</strong></td>
</tr>
<tr>
<td>Extraction Limit</td>
</tr>
<tr>
<td>Project Approval Term</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Operating Hours</td>
</tr>
<tr>
<td>Number of operational employees</td>
</tr>
<tr>
<td>Mining Methods</td>
</tr>
<tr>
<td>Mining Area</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>External Coal Transport</td>
</tr>
<tr>
<td>Coal Processing</td>
</tr>
<tr>
<td>Infrastructure</td>
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<td></td>
</tr>
</tbody>
</table>
Asset Register

Table 2-2 provides a summary of the assets in each Domain for Austar. The domains for the MOP are shown on Plans 2A to 2I.

Table 2-2 Austar Assets for Each Primary Domain

<table>
<thead>
<tr>
<th>Domain</th>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Infrastructure (41 ha)</td>
<td>CHPP and associated infrastructure; Pit Top Facilities; Reject haul road; Underground mining infrastructure; Kitchener Surface Infrastructure Site; Kalingo Shaft Site; Shaft Sites 1 to 6; Boreholes and associated access tracks; Overland conveyor system; Rail infrastructure (may remain at closure); Administration and employee facilities; Electrical power reticulation; Telecommunications cables; Water supply and sewage systems; Workshop and refuelling facilities; Lighting; Explosives storage; and Water treatment plants.</td>
</tr>
<tr>
<td>2 - Tailings Storage Facilities and Reject Emplacement Area (98 ha)</td>
<td>No. 9 Tailings Dam and North West Emplacement Area; Associated facilities for pumping and placement of tailings materials to underground workings; Reject emplacement areas will generally be progressively filled in association with mining progression (refer to Plan 3B and 3C); Aberdare Emplacement Area;</td>
</tr>
</tbody>
</table>
## Domain and Assets

<table>
<thead>
<tr>
<th>Domain</th>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3 - Water Management Area (22 ha)</strong></td>
<td>Water management infrastructure including Dirty Water Management System and associated pipeline infrastructure; Dirty Water Dams; Clean Water Dams; and Creek Realignment (CHPP area).</td>
</tr>
<tr>
<td><strong>5 - Stockpiled Material (15 ha)</strong></td>
<td>ROM Stockpile; Coal Product Stockpile; Tailings Drying Area.</td>
</tr>
<tr>
<td><strong>7 - Rehabilitation Area (19 ha)</strong></td>
<td>Includes buffer lands surrounding the CHPP which require rehabilitation but are currently not utilised for operational purposes. Refer to Plan 2B.</td>
</tr>
<tr>
<td><strong>8 - Underground Mining Area (1,663 ha)</strong></td>
<td>Approved and proposed underground mining areas in Stage 3 and Bellbird South (within 20mm subsidence contour estimate).</td>
</tr>
</tbody>
</table>

Relevant approvals will be sought to demolish infrastructure and remove any items of heritage significance as part of rehabilitation activities undertaken at Austar Coal Mine as required. Works involved to demolish infrastructure listed above will be detailed in demolition and final land use assessments to be undertaken in future MOP terms as the operation approaches closure.

### 2.3 Proposed Activities during the MOP Term

#### 2.3.1 Exploration / Coal Quality Drilling

Austar will continue to undertake exploration activities within the approved mining and exploration areas to increase the accuracy of the geological model and to assist with resource infill and mine planning. Works may include continued structural and coal quality drilling, as well as seismic and other non-intrusive survey as required. Reporting for these exploration programs will be conducted as per mining authorisation and exploration licence EL6598 requirements. During the MOP term, exploration activities may be undertaken within the existing MLs and ELs for the site. These works will be undertaken in accordance with the conditions of the MLs and ELs as required.

Austar will apply site Environmental Management Procedures to manage all drilling campaigns proposed during the MOP term. An application to conduct a Common Exploration Activity (CEA) will be submitted to DRG where required prior to the commencement of any drilling works.

#### 2.3.2 Construction

The Kitchener Surface Infrastructure Site (SIS) is located on a 16 hectare parcel of land to the southwest of Kitchener. This land is owned by Austar. The SIS is approved to include upcast and downcast.
shafts, access to the mine for personnel, bathhouse, offices, car parking and services such as an electricity sub-station. Associated with the SIS will be the construction and installation of site services. Such services may include the installation of a powerline, sewerage facilities, pollution control dams, pipelines and access roads.

The construction of the Kitchener SIS progressed substantially during the previous MOP term to include ventilation shafts, ventilation fans, water management infrastructure and associated electrical and communications services. Approved construction activities at the Kitchener SIS may continue during the duration of the MOP term. Approved infrastructure at the SIS includes Pit Top infrastructure buildings, offices, workshop, bathhouse, sewage management systems, and shafts for men and materials, car parking and associated services.

Construction of tailings disposal boreholes to the Pelton underground workings will continue to occur during the MOP period. Tailings borehole construction will occur within and adjacent to areas also approved for coarse reject emplacement. These works are approved under DA 29/95 and DA 74/75/79. Construction activities will involve access track construction, borehole drilling, associated vegetation clearing, and pipeline installation. The planned progression of tailings borehole construction is illustrated in Plan 3D.

2.3.3 Mining Operations

During the MOP term, mining will be undertaken within the Bellbird South mining area (longwalls LWB5 to LWB7) using conventional longwall mining methods, and within remaining approved Longwall panels in the Stage 3 mining area (Longwalls A7 to A19) using the Longwall Top Coal Caving (LTCC) mining method.

The LTCC mining method is approved for secondary extraction in the Stage 3 mining area. LTCC mining combines a conventional retreat longwall face with a second armoured face conveyor (AFC) towed behind the shield to recover coal that falls into the goaf. The roof supports are of a modified design incorporating a system of hydraulically operated tail canopies at the rear of the support. The tail canopies can be moved up and down to allow the broken coal in the goaf area to spill onto a second AFC. This process continues until the coal is recovered and waste rock appears. Once waste rock appears, the tail canopies are lowered and the AFC pulled forward to stop rock from being loaded onto the conveyor.

Development consents for the mine allow production of up to 3.6 Mtpa of ROM coal until 31 December 2030.

Secondary extraction of longwall panels is only undertaken after approval of an Extraction Plan. An Extraction Plan for LWB4 to LWB7 was prepared and approved by DP&E on 20 September 2017. The Extraction Plan was modified to reflect the shortening of longwalls and the modification approved by DPE on 18 September 2018. Secondary extraction from within the Stage 3 area will be undertaken in accordance with existing or future approved Extraction Plans for the relevant area. A list of current approved Extraction Plans held by Austar is available in Table 1–2.

Extraction Plans describe relevant management strategies to address potential subsidence impacts from the extraction of the coal resource.
The planned progression of mining is illustrated in Plan 3A.

### 2.3.4 Reject Emplacement

In accordance with Austar’s development consents, Austar has several approved areas which may be utilised for reject emplacement. These areas are shown on Figure 2-1 and include both active and proposed (approved) reject emplacement areas. These areas include:

- Aberdare Reject Emplacement Area (currently active);
- Area 12 and Area 13 (rehabilitated);
- East Open Cut Void (currently active);
- West Open Cut Emplacement Area (currently active);
- Reject Emplacement Area 1;
- Reject Emplacement Area 3;
- Reject Emplacement Area 4; and
- Other Reject Emplacement Areas of DA74/75/79.

During the MOP term, Austar propose to emplace rejects within the Aberdare Emplacement Area as well as the East Pit and West Pit Emplacement Areas.

Modelling works completed based on production schedules for the purposes of this MOP, suggest that the capacity within the Aberdare emplacement area will be exhausted by approximately 2025. Following this time, Austar will utilise additional approved reject emplacement areas identified on Figure 2.1.

**Aberdare Extended Open Cut Void (Aberdare Extended)**

The Aberdare Extended Open Cut emplacement area will be utilised by Austar (Plan 2C) during the MOP term. Rejects are hauled by truck along a private haul road from the CHPP to the emplacement area.

Rehabilitation of the Aberdare Extended Reject Emplacement Area involves filling the open cut pit progressively with coarse reject from each end to allow for effective surface water management. Staging is shown on Plan 3B. The reject emplacement and rehabilitation schedules are highly dependent upon mining progression and timing, with reject being used to fill the void prior to capping material and vegetation establishment processes. There is an agreement in place with the private landowner to rehabilitate the Aberdare emplacement area to the final landform shown in Plan 4C and establish a grassland ecosystem. When the Aberdare emplacement area reaches final height, the voids on the CHPP site (East Pit and West Pit) will become the primary coal reject emplacement areas.

**East Open Cut Void (East Open Cut)**

The East Open Cut is a void on the CHPP site covering an area of approximately 15 hectares (refer to Plan 2B). It is intended that during the MOP term, the East Open Cut reject emplacement area will be
used when production rates of coarse reject from development mining are low, or during periods of poor weather. Once the Aberdare Extended emplacement has reached its maximum capacity, the East Open Cut will become the primary emplacement area for Austar.

**West Open Cut Emplacement Area (West Open Cut)**

Parts of West Open Cut (see Plan 2B) has been utilised as a clean material overburden emplacement area during previous open cut operations at the site. This area provides a source of inert capping material, which will be utilised to cap reject emplacement areas. After removal of the clean overburden to be used for capping site rehabilitation works, it is planned to use the resulting void at the West Open Cut for ongoing reject emplacement.

Suitable capping material may be used for works in Aberdare Extended, East Open Cut, West Open Cut emplacement areas and for future capping requirements of the West Pit and CHPP areas.
Legend

- Approved Reject Emplacement Area

FIGURE 2.1
Approved Reject Emplacement Areas
Aberdare Emplacement Areas 12 and 13

Former reject emplacement areas 12 and 13 have been substantially rehabilitated and rehabilitation maintenance works will continue as required during the MOP term. Further details on the rehabilitation works to be undertaken in these areas during the MOP term is provided in Section 7.

2.3.5 Tailings Management

The tailings from the CHPP are discharged into underground mine workings. The return water from these tailings gravitates through the mine workings and is recovered into the Austar Coal Mine via a dewatering borehole. A pump station has been constructed to return the decanted water to the mine water treatment system for treatment and it is then either used in the underground operations and CHPP or discharged off-site.

Additional tailings disposal boreholes to the Pelton underground workings may to be installed during the MOP term, depending on the performance of the current tailings boreholes. Future tailings borehole sites are shown in Plan 3D.

2.3.6 Water Management

Austar Coal Mine pump underground mine water to the surface from Ellalong Goaf at 2 Shaft to prevent flooding of the underground workings in-bye of Bellbird Mains. The mine water is pumped to the CHPP, through a series of pipelines via Kalingo Dam and Austar Dam, for processing in the RO Plant prior to reuse on-site or discharge from site under EPL 416.

During the MOP term, Austar Coal may install replacement pipelines for both the #2 shaft and borehole pump systems from #2 shaft site to the Kalingo Dam. Austar propose to excavate and replace the existing pipelines in sections of the route that contain high ecological values minimising the disturbance footprint, and install the replacement pipelines in a new trench in other sections with the view of minimising environmental impacts.

2.3.7 Re-Processing of Coarse Reject and Tailings Material

No. 9 Tailings Dam

The No.9 tailings dam (refer to Plan 2B) is a facility that contains between 80,000 to 120,000 tonnes of good quality fine coal that may be suitable for market. The facility is no longer used as a tailings dam and water is drained from the dam such that it remains relatively dry. It is the intention of Austar to reclaim this material to blend with the product coal or for direct sale, thus recovering the facility ready for rehabilitation. The ability to sell this product will be dependent upon market availability and as such the timing for this activity cannot be confirmed, however this activity may be undertaken during the MOP term.

North West Emplacement Area

Material stored within the North-West Emplacement Area has been identified as being suitable for either re-processing or direct sale. It is envisaged that material from this area will be periodically reclaimed during the MOP term, which will provide an opportunity to undertake progressive rehabilitation of this area. The rate of reclamation will be dependent upon factors including:

- market demand;
• production rates from the current operation as well as coal quality, which will determine the rate at which the material from the North-West Emplacement Area can be blended through the CHPP; and

• road haulage limits for coal transported off site in accordance with Project Approval requirements (e.g. for sale to a power station).

2.3.8 Waste Management

Waste management streams at Austar are detailed below. All waste management is undertaken by a waste management contractor who provides information to Austar regarding wastes removed each month. In addition, the waste management contractor also undertakes waste tracking in accordance with Protection of the Environment Operations (Waste) Regulation 2005.

2.3.8.1 Putrescible Waste

Putrescible waste is segregated into the following for disposal from site:

• General waste;

• Recyclable waste;

• Waste water (septic system); and

• Hazardous wastes.

2.3.8.2 Hydrocarbon Waste Management

Hydrocarbon wastes include:

• Used oil filters;

• Waste oil; and

• Recovered oil (from oil-water separators).

The hydrocarbon wastes are managed by a licensed waste contractor, with hydrocarbon wastes recycled where possible.

2.3.8.3 Contaminated Soil Management

Hydrocarbon contaminated soils are stockpiled in a hydrocarbon remediation area at the CHPP which contains three bunded cells. Any contaminated material held within this area is either managed using bioremediation techniques or removed from site by a licensed waste contractor to an appropriate regulated waste management facility.

2.3.9 Decommissioning and Demolition Activities

Demolition works may be conducted on structures within Austar’s surface lease areas during the MOP term to progress Austar’s rehabilitation objectives and to mitigate safety risks associated with some structures. For structures listed as heritage items, approvals from the appropriate heritage authority will be sought prior to demolition.
Structures associated with the former Pelton, Bellbird, and Kalingo Colliery areas which are not required for current operations may be demolished during this MOP period. Derelict structures will be made safe with fencing where required. Austar will complete heritage assessments on selected structures and apply for the necessary heritage approvals prior to any demolition works being undertaken. Demolition of selected structures may occur during the MOP period.

Detailed contamination assessments will be undertaken by a suitably qualified person during the closure phase of works.

2.3.10 Temporary Stabilisation

Temporary stabilisation works may be undertaken if required during the MOP term. Stabilisation works will comply with the Erosion Control Plan in the surface water management plan and may include:

- shaping of disturbed areas; and
- seeding and ongoing maintenance of areas of the site not required for ongoing operations.

2.3.11 Progressive Rehabilitation and Completion

The primary objective of post-mining rehabilitation works will be to create a stable final landform that is free draining with acceptable post-mining land use capability. Rehabilitation of the reject emplacement areas will be conducted progressively over the life of the mine, as an integral component of mining operations. All rehabilitation works will be scheduled to occur progressively as soon as practicable after mining disturbance and decommissioning of infrastructure.

This approach will minimise the disturbed area at any time and reduces the environmental impact of mining. Progressive rehabilitation will also minimise the visual impacts as a result of the project. Austar’s approach to rehabilitation includes the re-establishment of a range of vegetation types (i.e. grassland or forest). Subsidence remediation works may also be undertaken above the mining areas at Austar during the MOP term. Further detail is provided in Section 3.2.4.

During the period of this MOP there will be no areas that will be in the relinquished land phase, however if rehabilitation progresses such that completion criteria are met, consultation will be undertaken with DRG regarding the relinquishment of these areas. Areas that will be rehabilitated during the term of this MOP are detailed in Section 7.

2.3.11.1 Conservation and Biodiversity Offset Areas

The Biodiversity Offset Area was established as part of the approved Stage 3 project to offset impacts from clearing of approximately 10 hectares of bushland to establish the Kitchener SIS. Following Stage 3 project approval, Austar transferred ownership of the Offset Area to the National Parks Estate as part of the Werakata State Conservation Area. As such, the Offset Area is managed in perpetuity by the NSW National Parks and Wildlife Service.
2.3.12 Material Production Schedule during MOP Term

Material production for the term of the MOP is summarised in Table 2-3.

**Table 2-3 Indicative Material Production Schedule During the MOP Term**

<table>
<thead>
<tr>
<th>Material</th>
<th>Unit</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7</th>
<th>Year 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stripped Topsoil</td>
<td>m³</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rock/Overburden</td>
<td>m³</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ROM Coal#</td>
<td>Mt</td>
<td>1.458</td>
<td>0.148</td>
<td>0.176</td>
<td>1.886</td>
<td>2.406</td>
<td>2.258</td>
<td>2.280</td>
<td>2.615</td>
</tr>
<tr>
<td>Reject Material#</td>
<td>Mt</td>
<td>0.218</td>
<td>0.026</td>
<td>0.031</td>
<td>0.330</td>
<td>0.421</td>
<td>0.395</td>
<td>0.399</td>
<td>0.457</td>
</tr>
<tr>
<td>Product#</td>
<td>Mt</td>
<td>1.240</td>
<td>0.122</td>
<td>0.145</td>
<td>1.556</td>
<td>1.985</td>
<td>1.862</td>
<td>1.882</td>
<td>2.158</td>
</tr>
</tbody>
</table>

*Notes to Table – # Production data is based on conceptual mining information, and may vary throughout the MOP term. Reject data is also based on a proposed yield at the CHPP and may vary subject to coal quality.*

3 ENVIRONMENTAL ISSUES MANAGEMENT

3.1 Environmental Risk Assessment

Austar Coal Mine has undertaken an Environmental Risk Assessment (2017) which addresses Section 3.0 of the ESG3: Mining Operations Plan (MOP) Guidelines (DRE, 2013). The Risk Assessment was undertaken in accordance with ISO 31000:2990 - Risk Management.

The risk assessment identifies environmental issues associated with activities conducted under the mining lease in accordance with Section 3.2 of the MOP Guidelines (DRE, 2013). The relevant environmental management controls identified during the risk assessment are outlined in the following sections. The environmental elements associated with the risk assessment are summarised in Table 3-1.

**Table 3-1 Summary of Risk Assessment Outcomes for Mining Operations During the MOP Term**

<table>
<thead>
<tr>
<th>Risk Aspect</th>
<th>Risk Description</th>
<th>Risk Ranking</th>
</tr>
</thead>
</table>
| Geology and Geochemistry | - Coarse reject generates acidic surface runoff which impacts local surface water systems;  
                      | - Revegetation failure due to geochemical nature of capping or reject material; and  
                      | - Acid water leachate impacting surface or groundwater systems/users.               | Medium       |
| Spontaneous Combustion | - Spontaneous combustion of material in emplacement areas onsite; and  
                      | - Spontaneous combustion of rehabilitated areas resulting in habitat loss.         | Low          |
| Acid Mine Drainage | - Acid water leachate impacting surface or groundwater systems/users.            | Medium       |
| Mine Subsidence     | - Surface impacts to land surface require remediation to rectify cracking or surface drainage;  
                      | - Surface impacts to built features require remediation to rectify drainage; and    | Low          |
## Risk Aspect

<table>
<thead>
<tr>
<th>Risk Aspect</th>
<th>Risk Description</th>
<th>Risk Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion and Sediment Control</td>
<td>• Impacts to surface water flows or aquifers due to subsidence.</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>• Erosion of landform design resulting in the inability to achieve mining lease requirements; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Erosion resulting in sediment leaving the site.</td>
<td>Medium</td>
</tr>
<tr>
<td>Soil Type(s) and Suitability</td>
<td>• Revegetation failure due to geochemical nature of capping material.</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>• Insufficient topsoil for end rehabilitation of site.</td>
<td>Low</td>
</tr>
<tr>
<td>Flora</td>
<td>• Failure to achieve revegetation/ rehabilitation goals; and</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>• Excessive weed growth affects success of rehabilitation</td>
<td></td>
</tr>
<tr>
<td>Fauna</td>
<td>• Excessive pest fauna species affects success of rehabilitation.</td>
<td>Medium</td>
</tr>
<tr>
<td>Slopes and Slope Management</td>
<td>• Erosion of landform design resulting in the inability to achieve mining lease requirements.</td>
<td>Low</td>
</tr>
<tr>
<td>Air Quality</td>
<td>• Erosion of landform or activity in rehabilitation areas results in community impact.</td>
<td>Low</td>
</tr>
<tr>
<td>Surface Water Quality</td>
<td>• Pipeline leak of mine water impacting on surface water systems / users.</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>• Contaminated surface water from mine operations impacts on surface water systems / users.</td>
<td></td>
</tr>
<tr>
<td>Contaminated Land</td>
<td>• Contaminated land due to inappropriate material used for capping.</td>
<td>Low</td>
</tr>
<tr>
<td>Hazardous Material</td>
<td>• Demolition of heritage structures potentially containing asbestos causes human health risk.</td>
<td>Medium</td>
</tr>
<tr>
<td>Noise</td>
<td>• Noise complaints from residents adjacent to Aberdare Emplacement Area causes delay to rehabilitation program.</td>
<td>Low</td>
</tr>
<tr>
<td>Visual and Lighting</td>
<td>• Insufficient management of visual and lighting aspects of mine operations resulting in community complaints.</td>
<td>Low</td>
</tr>
<tr>
<td>Aboriginal and European Heritage</td>
<td>• Unauthorised disturbance of Aboriginal sites; and</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td>• Unauthorised demolition or alteration of European heritage sites.</td>
<td></td>
</tr>
<tr>
<td>Bushfire</td>
<td>• Bushfire on rehabilitation area affects success of revegetation towards completion criteria.</td>
<td>Medium</td>
</tr>
</tbody>
</table>

The methodology used for internal risk assessments follows the Austar risk ranking table, Austar risk matrix and Austar consequence table.

Further details of the existing and proposed environmental management controls to mitigate the risks identified in **Table 3-1** are provided in **Section 3.2**.
## Table 3.2 Yancoal Risk Matrix

<table>
<thead>
<tr>
<th>Yancoal Risk Matrix</th>
<th>Effect / Consequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Loss Type</strong></td>
<td><strong>1 - Insignificant</strong></td>
</tr>
<tr>
<td>(P) Harm to People</td>
<td>Slight injury or health effects – first aid / minor or no medical treatment required</td>
</tr>
<tr>
<td>(C) Environmental Impact</td>
<td>Environmental nuisance – trivial or negligible, short term impact to area of low significance, minimal or no physical remediation required – No regulation, Cost &lt; $1,000</td>
</tr>
<tr>
<td>(O) Asset Damage and Other Consequential Losses</td>
<td>Slight damage &lt; $0.1M or &lt; 1 shift disruption to operation</td>
</tr>
<tr>
<td>(R) Impact on Reputation</td>
<td>Slight impact – Public awareness may exist but no public concern</td>
</tr>
</tbody>
</table>

### Likelihood Examples (Guide)

<table>
<thead>
<tr>
<th>Likelihood</th>
<th>Level of Risk – (Likelihood X Effect/Consequence)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (Almost Certain)</td>
<td>11 (M) 16 (H) 20 (H) 23 (H) 25 (H)</td>
</tr>
<tr>
<td>B (Likely)</td>
<td>7 (M) 12 (M) 17 (H) 21 (H) 24 (H)</td>
</tr>
<tr>
<td>C (Possible)</td>
<td>4 (L) 8 (M) 13 (H) 18 (H) 22 (H)</td>
</tr>
<tr>
<td>D (Unlikely)</td>
<td>2 (L) 5 (L) 9 (M) 14 (H) 10 (H)</td>
</tr>
<tr>
<td>E (Rare)</td>
<td>1 (L) 3 (L) 6 (M) 10 (M) 15 (H)</td>
</tr>
</tbody>
</table>
3.2 Environmental Risk Management

Management of environmental risks typically utilise existing controls within approved environmental management plans that have been prepared in response to development consent or Project Approval condition requirements. A comprehensive Environmental Management Strategy (EMS) has been prepared for the Austar Coal Mine which includes specific management plans to address environmental risks. Approved environmental management documentation is included on the Austar website. Relevant environmental risk management processes from the EMS in relation to the Risk Assessment outlined in Section 3.1 are described below.

This section includes information on general environmental risk management and information on specific risks relating to rehabilitation and how they are managed at Austar.

3.2.1 Geology and Geochemistry

Coarse reject material produced by Austar is potentially acid forming. This is managed through the addition of lime at the surface prior to capping. Sufficient capping thickness is also utilised to reduce the potential for acid leachate at the surface of the emplacement areas. More detail can be found in Section 7.2.2.

3.2.2 Spontaneous Combustion

A Spontaneous Combustion Management Plan (SCMP) has been developed and implemented at Austar to manage spontaneous combustion risks. The SCMP utilises enhanced gas monitoring and management using a range of systems and data analysis methods to constantly monitor spontaneous combustion risks.

Austar intends to further control the spontaneous combustion risk in Longwall goaf areas through use of improved ventilation seals to prevent ventilation leakage and the continuous use of nitrogen injection to reduce oxygen concentrations in the longwall goaf atmospheres.

Spontaneous combustion risk from coal reject material is considered to be low. Spontaneous combustion risk is managed through the reject emplacement area compaction and capping techniques as identified in Section 7.

An additional geotechnical study is proposed to be finalised during the MOP term to further understand combustion risk associated with the coarse reject emplacement areas (refer to Section 8.2.1) to inform the capping process to ensure a long term safe and stable landform.

3.2.3 Acid Mine Drainage

Analysis of the waste materials undertaken at Austar indicates that it contains sulphur in the organic or pyritic form, and therefore has the potential for Acid Mine Drainage (AMD). The approved Austar Site Water Management Plan (SWMP) identifies the ongoing monitoring of surface water to identify any potential risk of AMD during active operation.

In addition, rehabilitation strategies have been developed to reduce the potential for acid mine drainage and include:
• approved emplacement of reject material in available former open cut pits;

• direct connection of emplacement areas to underground workings with emplacement areas staged to drain to these areas;

• monitoring of historic underground workings;

• rehabilitated areas designed to direct surface water runoff away from emplaced material; and

• An additional geotechnical study is proposed to be finalised during the MOP term to better understand acid leachate risk associated with the coarse reject emplacement areas (refer to Section 8.2.1).

3.2.4 Mine Subsidence

Mining areas under the current MOP period are covered by approved extraction plans: Extraction Plan – Stage 3 Longwall Panels A7–A10 and Extraction Plan – Bellbird South Longwall Panels LWB4-LWB7. Extraction plans include subsidence predictions and management strategies. Secondary extraction using LTCC or conventional longwall mining techniques may only occur after Extraction Plan approval is granted.

Subsidence predictions have been prepared for the Stage 3 mining area (as modified). Subsidence predictions indicate that:

• subsidence impacts to services and public infrastructure are likely to be low;

• impacts to flora and fauna are also likely to be negligible;

• in relation to surface hydrology, it is likely that:
  o there will be no significant change to catchment boundaries;
  o there will be no significant change to channel alignment or bank stability;
  o there will be no significant change to in channel or out of channel ponding; and
  o groundwater availability to riparian vegetation is not likely to substantially change due to mining impact.

Subsidence predictions have also been prepared for the Bellbird South mining area (as modified). Subsidence predictions are generally consistent with the predictions associated with the Stage 3 mining area. However, potential minor changes to the extent of remnant surface ponding at the southern end of LWB6 and LWB7 along an overflow channel south of Quorrobolong Creek are predicted. The potential impacts are generally confined to existing flow paths and is situated on mine owned land. Monitoring of this area will form part of the existing mine subsidence and landscape management monitoring programs.

A Built Features Management Plan (BFMP) is prepared as part of the relevant Extraction Plan. In consultation with the landholder, the BFMP outlines potential impacts of mining on the property and the management and remediation measures to be implemented.
A Land Management Plan is prepared as part of each Extraction Plan. The Land Management Plan identifies measures for the management of subsidence remediation including:

- regular inspections of the subsidence zone to identify surface cracking, erosion, compression ridges on steep slopes, surface ponding or any areas of instability;
- subsidence impact will be repaired commensurate with size and scale of impact e.g. major landform impact by filling or ripping the soil and re-compacting. Minor surface cracking may be remediated through the infilling with soil or suitable material; and
- revegetation comparable to pre-mining environment will be established. For pasture areas, revegetation will occur based on the existing landuse and surrounding vegetation. For forested areas (e.g. the Werakata SCA), remediated areas will be revegetated with native species selected based on the surrounding vegetation. All works within the Werakata SCA will be undertaken with the consent of the NSW National Parks and Wildlife Service.

Should subsidence remediation works be necessary for services and public infrastructure, Austar will seek the relevant approvals for any such works prior to the commencement of remediation works.

Future extraction plans are required to be developed and approved for Stage 3 longwall panels LWA11 to LWA19 prior to secondary extraction commencing in those panels.

### 3.2.5 Erosion and Sediment Control

Erosion and sedimentation in areas disturbed by mining activities is managed through:

- Site Water Management Plan, which includes the details of the water management structures on site and the erosion and sediment control plan;
- Ground Disturbance Permit process utilised at Austar prior to any clearance or ground disturbance activities identifies appropriate erosion and sediment controls to be established prior to the commencement of any works; and

The erosion and sediment control requirements for the surface area above the underground mining areas are managed in accordance with a Land Management Plan included as part of an Extraction Plan for the specific mining area. All control devices, if required will be constructed generally in accordance with the ‘Blue Book’ (DECCW, 2008).

As part of periodic maintenance activities, sediment is removed from site water management structures to maintain their capacity. For dirty water management dams, the sediment is disposed at approved emplacement areas in accordance with Mining Lease conditions. For clean water sediment basins (e.g. Kitchener SIS), the sediment is dried within the area that the sediment basin treats, prior to being used in landscaping at that site.

### 3.2.6 Soil Types and Suitability

Soil types over the underground mining areas were identified in:

- the Stage 3 Modification 2 Environmental Assessment (Umwelt, 2011);
- LW81-B3 Modification 6 Environmental Assessment (Umwelt, 2015); and
- LWB4-B7 Modification 7 Environmental Assessment (Umwelt, 2017).

This information is used to assist in the management of any topsoil reserves onsite and the management of any ground disturbance works (with respect to the erosion potential of exposed soils).

3.2.7 Capping Materials

There is limited capping and topsoil material available to cap reject emplacement areas.

Stockpiled overburden from old open cut operations is planned to be used as capping material and utilised as a growth medium where appropriate. Chemical characterisation testing may be undertaken on capping material and any available growth substrate to confirm any ameliorants required to facilitate rehabilitation and revegetation growth. Where there is an insufficient volume of topsoil for rehabilitation works, Austar shall utilise organic ameliorants (e.g. compost) sourced from an external provider.

Austar will utilise overburden material for capping of reject emplacement areas, where available. Prior to the utilisation of capping material, geochemical analysis may be undertaken to determine the materials suitability for use as capping material and growth substrate. Ameliorants will be applied to the capping material surface as required to reduce risk to vegetation establishment success. The emplacement of capping material will be undertaken in accordance with site specific processes with all capping emplacement works being supervised by appropriately trained site personnel.

Further details on the capping process and rehabilitation of emplacement areas is included in Section 7.2.2.3.

3.2.8 Flora and Fauna

The key revegetation goal for Austar is to establish a final landform that is free draining and includes locally occurring vegetation communities (e.g. open grassland and bushland) that are consistent with the surrounding landscape of the area.

Austar undertakes monthly environmental inspections and seasonal monitoring programs in parts of the operation and employs various tools to manage flora and fauna including:

- Stage 3 and Bellbird South LWB1-LWB7 Mining Area Ecological Monitoring Programs;
- Ground disturbance permits;
- Pre-clearance surveys;
- Extraction plans – Biodiversity Management Plans (including monitoring programs as required) over Extraction Plan areas.

Ongoing weed management is undertaken on an as needs basis by a licensed contractor to control weed species of concern.

In accordance with the Local Land Services Act 2013, Austar are required to control all declared pest species on their land. Species currently declared pests in NSW that are potentially relevant to Austar include wild rabbits; wild dogs; feral pigs; and foxes.
Austar will implement control actions to assist in the management of these species as necessary. Control actions may include a combination of baiting or trapping, and will be conducted in accordance with consultation with the Local Land Services Offices where required.

3.2.9 Slopes and Slope Management

Management of slopes in active mining areas will be undertaken in accordance with the Extraction Plan for the relevant underground mining area. The Extraction Plans commit to management strategies to rehabilitate land affected by the underground mining area to reflect pre-mining conditions and maintain consistency with the surrounding landform.

The slopes within the reject emplacement areas will be developed to reflect the existing undulating land surfaces in the surrounding area. All slope management works will be undertaken to achieve the rehabilitation goals and completion criteria for the site. Rehabilitation completion criteria are detailed further in Table 6.1.

The following factors will also be considered to maintain or achieve stable slopes with sustainable vegetation cover:

- general reshaping and vegetating to promote slope stability;
- topsoil stabilisation to support vegetation growth;
- linear slope profiles are preferred over concave slope profiles;
- batters on the landform are of a gentle gradient; and
- slopes may be ripped on the contour to create furrows and rilling activities applied to reduce the risk of erosion.

3.2.10 Air Quality

Air quality at Austar is managed in accordance with the Austar Air Quality and Greenhouse Gas Management Plan developed for its operations. This plan includes the following controls which relate to rehabilitation:

- Optimise load capacity when hauling reject to limit number of return trips and travel distance of haul trucks;
- Speed limit on haul road 50km/hour and 30km/hour at CHPP site;
- Haul roads and other unsealed roads are watered when in use;
- Visual dust monitoring is undertaken by supervisory staff to ensure effective dust control; and
- Regular maintenance of haul roads including grading, and where appropriate gravelling, of heavy trafficked areas. Grader speed is maintained below 8km/hour.

Austar implement the following controls to reduce dust emissions from rehabilitation area projects:

- Reject emplacement area is regularly compacted to stabilise the surface;
• Completed areas are progressively vegetated to reduce area of exposed soils at any one time;
• Minimise double handling of materials;
• Avoid dozer operations at wind exposed areas during dry, windy conditions; and
• Visual monitoring of rehabilitation projects by supervisors, with operations modified or ceased when elevated dust levels are observed to occur.

3.2.11 Surface Water Quality

Austar has developed a detailed Site Water Management Plan (SWMP), which addresses the management of water for the site. The SWMP includes:

• underground mine water management system;
• CHPP water management system including licenced discharge from water treatment plant;
• water balance including the pumping of water from current workings, and the return of mine water from historic underground workings;
• surface water storage and pumping system;
• reporting procedures;
• water management initiatives; and
• surface and ground water monitoring program.

Rehabilitation works are commenced as soon as practicable when areas become available to reduce the volume of dirty water to be managed by Austar. In addition, reject emplacement areas are designed to assist with the management of runoff into the dirty water system.

Site specific Erosion and Sediment Control Plans (ESCP) are developed as required for the reject emplacement areas, to minimise risks associated with dirty water run-off from these areas into surrounding environments. There is an existing ESCP for the Aberdare Extended Emplacement Area.

3.2.12 Groundwater Management

Austar manages groundwater in accordance with an approved Groundwater Monitoring Program. The Groundwater Monitoring Program has been developed as part of the Site Water Management Plan and discusses the monitoring and management of groundwater inflows and the relevant extraction requirements for Austar. The results of groundwater monitoring undertaken at Austar are reported in the Annual Review.

3.2.13 Contaminated Land

To date, no significant areas of contaminated land have been identified at Austar. A phase 1 and 2 contamination assessment will be undertaken during the decommissioning phase of operations. During the operational phase of the site, contamination resulting from environmental incidents (e.g. spills) and areas of high risk associated with hydrocarbon storage infrastructure will be maintained and
appropriately managed (e.g. remediated or disposed off-site by an authorised waste contractor) as soon as possible after they occur. Monthly environmental inspections will continue to be undertaken by site personnel throughout the MOP term to identify and manage any potential contamination prior to mine closure works.

### 3.2.14 Noise

Austar manages noise impacts in accordance with the approved Noise and Vibration Management Plan. Whilst reject emplacement activities occur on a 24-hour basis, rehabilitation works will be conducted during day hours only. All equipment utilised in planned rehabilitation works will be maintained to ensure noise levels are appropriately managed.

### 3.2.15 Visual and Lighting

During the MOP term, Austar will implement the following strategies to manage visual impacts from operations:

- any lighting required is located and orientated in a manner which minimises the potential impact upon surrounding properties, in accordance with Australian Standards for lighting;
- advantage is taken of any existing buffers or screening to minimise the potential for light/visual related impacts; and
- utilisation and maintenance of landscaped areas and visual screens.

### 3.2.16 Cultural Heritage

An Aboriginal Cultural Heritage Management Plan (ACHMP) and Historic Heritage Management Plan (HHMP) have been developed and implemented at Austar. Both documents provide the process for the management of unknown sites. Sites may be identified through rehabilitation activities such as topsoil stripping and are to be appropriately managed according to the ACHMP and HHMP.

### 3.2.17 Bushfire

Land surrounding Austar’s operations consist predominantly of native woodland and forests, with occasional grassland paddocks. These areas are considered valuable in providing a buffer zone to reduce the impact of operations on nearby private residences, however, do require active management to minimise the risk of bushfires originating, or spreading through Austar property.

A Bushfire Management Plan (BFMP) was developed in consultation with the Rural Fire Service (RFS) to ensure the land owned by Austar is managed in a way that minimises the risk of bushfire and to reduce the risk of fire originating on Austar owned land and spreading to adjacent properties. Bushfire reduction activities such as vegetation slashing and maintenance within asset protection zones is undertaken at Austar. These areas will continue to be maintained during the MOP term to reduce fuel loads and maintain firebreaks across the site.
4 POST MINING LAND USE

4.1 Regulatory Requirements

Table 4.1 provides a summary of the regulatory requirements relevant to the post mining land use at Austar. Due to the age and specific nature of some of the regulatory requirements in Table 4-1, some of the timeframes associated with specific lease conditions have passed, or alternatively, the relevant agency has changed from that specified in development consent conditions. Each of the disturbance areas referred to in the regulatory requirements and final land use commitments for these areas are included in this MOP.
### Table 4-1 SUMMARY OF REGULATORY REQUIREMENTS RELATING TO POST MINING LAND USE

<table>
<thead>
<tr>
<th>Source</th>
<th>Detail of Regulatory Requirement</th>
<th>Area of Relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Approval (PA 08_0111) Schedule 6, Condition 1</td>
<td>The Proponent shall achieve the rehabilitation objectives in Table 6 to the satisfaction of the Executive Director, Mineral Resources. Table 6: Rehabilitation Objectives</td>
<td>Stage 3 Mining Area, Kitchener SIS (Included in this MOP)</td>
</tr>
<tr>
<td></td>
<td><strong>Domain</strong></td>
<td><strong>Rehabilitation Objective</strong></td>
</tr>
<tr>
<td></td>
<td>Surface Infrastructure Site</td>
<td>• Revegetate the cleared portion of the site with a structured native vegetation community similar to that existing pre-mining, or other landuse approved by the Director-General</td>
</tr>
<tr>
<td></td>
<td>Biodiversity offset area</td>
<td>• Implement the offset strategy described in the EA and shown conceptually in Appendix 5</td>
</tr>
<tr>
<td></td>
<td>Land affected by the project (including watercourses and steep slopes)</td>
<td>• Rehabilitate landform, landuse and ecosystem function to that existing pre-mining and consistent with the surrounding landform&lt;br&gt;• Reduce safety hazards to no more than those existing pre-mining&lt;br&gt;• Minimise erosion risk</td>
</tr>
<tr>
<td></td>
<td>Built features</td>
<td>• Repair/restore/replace to pre-mining condition or better, unless a claim under the Mine Subsidence Compensation Act 1961 is made for the repairs, restoration or replacement</td>
</tr>
<tr>
<td></td>
<td>Community</td>
<td>• Minimise the adverse socio-economic effects associated with mine closure</td>
</tr>
<tr>
<td>Project Approval (PA 08_0111) Schedule 6, Condition 2</td>
<td>To the extent that mining operations permit, the Proponent shall carry out rehabilitation progressively, that is, as soon as reasonably practicable following the disturbance.</td>
<td>Stage 3 Mining Area, Kitchener SIS (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Project Approval (PA 08_0111) Schedule 6, Condition 4 | The Proponent shall prepare and implement a Landscape Management Plan for the project to the satisfaction of the Director-General and the Executive Director, Mineral Resources. This plan must:  
(a) be prepared in consultation with the relevant stakeholders by suitably qualified expert/s whose appointment/s have been endorsed by the Director-General, and be submitted to the Director-General for approval prior to the commencement of second workings in Stage 3 and construction of the Surface Infrastructure Site (other than shaft construction referred to in condition 1 of schedule 4);  
(b) in addition to the standard requirements for management plans (see condition 2 of schedule 7), include:  
(i) the rehabilitation objectives for the site and offset area;  
(ii) a description of the short, medium, and long term measures that would be implemented to:  
• rehabilitate the site;  
• implement the offset strategy; and  
• manage the remnant vegetation and habitat on the site and in the offset area;  
(i) performance and completion criteria for the rehabilitation of the site and implementation of the offset strategy;  
(ii) a detailed description of the measures would be implemented over the next 3 years, including the procedures to be implemented for:  
• minimising and rehabilitating disturbed areas;  
• implementing the offset strategy;  
• protecting vegetation and soil outside the disturbance areas;  
• undertaking pre-clearance surveys;  
• managing impacts on fauna;  
• landscaping the site to minimise visual impacts;  
• conserving and reusing topsoil;  
• collecting and propagating seed for rehabilitation works;  
• salvaging and reusing material from the site for habitat enhancement;  
• controlling weeds and feral pests; | Stage 3 Kitchener SIS (Included in this MOP). This Land Management Plan details rehabilitation criteria to achieve a forest post-mining land use.  
This criteria is included in the completion criteria in this MOP as detailed in Section 6 |
<table>
<thead>
<tr>
<th>Source</th>
<th>Detail of Regulatory Requirement</th>
<th>Area of Relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Approval (PA 08_0111) Commitment 1.14.1</td>
<td>• controlling access; and • bushfire management.</td>
<td>Stage 3 Kitchener SIS (Included in this MOP).</td>
</tr>
<tr>
<td>DA 29/95 Environmental Impact Statement Ellalong Colliery Extension into Bellbird South HLA- Envirosciences, July 1995) Section 7.6, Section 8.9, Section 8.19, Section 9.2.4</td>
<td>A decommissioning plan will be prepared for the Surface Infrastructure Site as part of the MOP process and submitted to the DRE for approval approximately five years prior to the commencement of decommissioning works.</td>
<td>DA29/95 Reject Emplacement Areas, Pelton Colliery, Austar Pit Top</td>
</tr>
<tr>
<td>DA 29/95 Schedule 3 Condition 28</td>
<td>The result of the rehabilitation of the emplacements will be an undulating landscape supporting native vegetation similar to surrounding areas and capable of supporting a variety of compatible land uses. It is proposed to return all coarse reject emplacement areas to native bushland. When the mining operation ceases at Pelton/Ellalong, a Management Plan for discontinuance or abandonment will be implemented. This is a condition of the issuing of a Coal Lease under the Mining Act 1992 and the Coal Mines Regulation Act 1982. It is anticipated that the long term rehabilitated land surface will be suitable for small rural acreage land use zoning.</td>
<td>Bellbird South Mining Area, DA29/95 Reject Emplacement Areas and DA29/95 Infrastructure Areas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>All areas affected by the development</td>
<td>• Safe • Hydraulically and geotechnically stable • Non-polluting • Fit for the intended post-mining land use(s)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
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</tr>
<tr>
<td>Areas proposed for native ecosystem re-establishment</td>
<td>• Establish self-sustaining ecosystems comprising flora species selected to re-establish and complement local and regional biodiversity</td>
</tr>
<tr>
<td>Areas proposed for agricultural or pastoral use</td>
<td>• Nominated land capability classification is achieved and is self-sustaining</td>
</tr>
<tr>
<td>Other areas affected by the development</td>
<td>• Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprised of local native plant species appropriate for the intended post mining land use(s) (unless DRG agrees otherwise)</td>
</tr>
<tr>
<td>Surface Infrastructure of the development</td>
<td>• To be decommissioned and removed, unless DRG agree otherwise or development consent is obtained from the relevant consent authority for their retention and post-mining use</td>
</tr>
<tr>
<td>Portals and vent shafts of the development</td>
<td>• To be decommissioned and made safe and stable</td>
</tr>
<tr>
<td>Built features damaged by mining operations</td>
<td>• Repair/restore/replace to pre-mining condition or equivalent unless the: owner agrees otherwise; or damage is fully restored, repaired or compensated for under the Mine Subsidence Compensation Act 1961</td>
</tr>
<tr>
<td>Final Landforms</td>
<td>• Consistent with surrounding topography to minimise visual impacts</td>
</tr>
<tr>
<td></td>
<td>• Incorporate relief patterns and design principles consistent with natural drainage</td>
</tr>
<tr>
<td>All watercourses subject to mine-water discharges and/or subsidence impacts from the development</td>
<td>• Hydraulically and geomorphologically stable</td>
</tr>
<tr>
<td></td>
<td>• Aquatic ecology and riparian vegetation that is the same or better than prior to mining</td>
</tr>
<tr>
<td>Water Quality</td>
<td>• Surface water retained onsite is fit for the intended post mining land use(s)</td>
</tr>
<tr>
<td>Cliffs, minor cliffs and steep slopes</td>
<td>• No additional risk to public safety compared to prior to mining</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
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<tr>
<td></td>
<td><strong>Community</strong></td>
</tr>
<tr>
<td></td>
<td>• Ensure public safety</td>
</tr>
<tr>
<td></td>
<td>• Minimise adverse socio-economic effects associated with mine closure</td>
</tr>
</tbody>
</table>

*Note: These rehabilitation objectives apply to all subsidence impacts and environmental consequences caused by the development and to all surface infrastructure components of the development. Where remediation of watercourses is likely to cause environmental consequences greater than those that require rehabilitation, alternative equivalent works may be undertaken within the affected watercourse.*

| DA 29/95 Schedule 3 Condition 29 | The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance, to the satisfaction of DRG. All reasonable steps must be taken to minimise the total area exposed at any time. Interim stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation, soil erosion and weed incursion cannot be permanently rehabilitated. | Bellbird South Mining Area, DA29/95 Reject Emplacement Areas and DA29/95 Infrastructure Areas |

*Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to further disturbance at some later stage of the development.*

<p>| DA 74/75/79 Report on the Environmental Impact Investigation for the Aellalong Project (James B. Croft &amp; Associates, October 1975) Section 2.4.8, Section 4.3.7 | The disposal of washery wastes on the Company’s freehold to the north and south of the Wollombi Road will be determined by a Rehabilitation Management Plan which will have the future use of the areas as the long-term objective. Future uses not determined. General establishment of grass cover. Tree planting will be undertaken according to the Company’s plans for the development of the sites. | DA74/75/79 Reject Emplacement Areas |</p>
<table>
<thead>
<tr>
<th>Source</th>
<th>Detail of Regulatory Requirement</th>
<th>Area of Relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development Consent (DA 118/691/181) Condition 8</td>
<td>The preparation of a Site Rehabilitation and Management Plan to the satisfaction of the Soil Conservation Service and Council prior to commencement of any works. Specific issues to be addressed include: (i) Design of contour banks and benches (ii) A comprehensive revegetation strategy addressing soil stability concerns (iii) Topsoil management including topsoil testing (iv) Soil erosion sedimentation control (v) Plan of final rehabilitated landform (vi) Clearing and stripping of topsoil (vii) Use of native seeds obtained from surrounding vegetation to enhance the genetic integrity of the site (viii) Drainage</td>
<td>Pelton Colliery (area included within this MOP)</td>
</tr>
<tr>
<td>Development Consent (DA 118/691/181) Condition 9</td>
<td>All rehabilitated areas will be maintained until such time as the surface has developed a density of vegetative cover that minimises surface erosion to the satisfaction of Council. In this regard a report from the Soil Conservation Service shall be lodged.</td>
<td>Pelton Colliery (area included within this MOP)</td>
</tr>
<tr>
<td>DA 118/691/181 – Statement of Environmental Effects for Proposed Open Cut at Pelton Colliery (Wayne Perry &amp; Associates, October 1991) Section 2.4</td>
<td>Rehabilitation of disturbed areas will include earthworks to create a stable landform and revegetation to establish a similar Eucalypt vegetative cover as exists at present. Two ephemeral watercourses which flow through the area to be mined will be reinstated.</td>
<td>Pelton Colliery Open Cut (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>Development Consent (DA 118/691/229) Condition 8</td>
<td>The preparation of a Site Rehabilitation and Management Plan to the satisfaction of the Soil Conservation Service and Council within three (3) months of the issue of consent. Specific issues to be addressed include: - (i) Design of batters (ii) A comprehensive revegetation strategy addressing soil stability (iii) Topsoil management (iv) Soil erosion and sedimentation control. (v) Water management structures including spillways and channels (vi) Use of native seeds obtained from surrounding vegetation to enhance the genetic integrity of the site (vii) Rehabilitation of the man made channel (viii) Drainage</td>
<td>Pelton Colliery (area included within this MOP)</td>
</tr>
<tr>
<td>Development Consent (DA 118/691/229) Condition 9</td>
<td>All rehabilitated areas will be maintained until such time as the surface has developed a density of vegetative cover that minimises surface erosion to the satisfaction of Council. In this regard a report from the Soil Conservation service shall be lodged.</td>
<td>Pelton Colliery (area included within this MOP)</td>
</tr>
<tr>
<td>DA 118/691/229 - SEE for Extension and Modification of the Raw Coal and Washed Coal Handling Systems and Upgrading of the Water Management System at Pelton Colliery (Wayne Perry &amp; Associates, May</td>
<td>The objectives of the rehabilitation program associated with the proposed development works are: to repair disturbed areas; to stabilise steep batter slopes and water management structures; and to reduce the extent of bare areas which are potentially dust-generating.</td>
<td>Pelton CHPP (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>1992) Section 2.4.8, Section 4.3.7</td>
<td>The preparation of a Site Rehabilitation and Management Plan to the satisfaction of the Soil Conservation Service and Council prior to commencement of any works. Specific issues to be addressed include: (i) Design of contour banks and benches (ii) A comprehensive revegetation strategy addressing soil stability concerns (iii) Topsoil management including topsoil testing (iv) Soil erosion sedimentation control (v) Plan of final rehabilitated landform (vi) Clearing and stripping of topsoil (vii) Use of native seeds obtained from surrounding vegetation to enhance the genetic integrity of the site (viii) Drainage</td>
<td>Pelton Colliery – Maitland Main Open Cut (area included within this MOP)</td>
</tr>
<tr>
<td>Development Consent (DA 118/693/42) Condition 6</td>
<td>All rehabilitated areas will be maintained until such time as the surface has developed a density of vegetative cover that minimises surface erosion to the satisfaction of Council. In this regard a report from the Soil Conservation Service shall be lodged.</td>
<td>Pelton Colliery – Maitland Main Open Cut (area included within this MOP)</td>
</tr>
<tr>
<td>Development Consent (DA 118/693/42) Condition 7</td>
<td>The objective of the rehabilitation program is to rehabilitate the backfilled open cut to a self-sustainable Eucalypt woodland, similar to that which exists at present. At the request of the landowner, reinstated land within the Maitland Main area with satisfactory slopes (less than 1V:6H or 10°) will be rehabilitated to a standard suitable for grazing. Post-mining land capability, as shown in Figure 5 will comprise a combination of Classes IV, VI and VII, similar to the pre-mine land capability as shown in Figure 8.</td>
<td>Pelton Colliery Open Cut (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>Associates, January 1993) Section 2.4</td>
<td>Once the stockpile is removed its area will be rehabilitated in accordance with the requirements of the Department of Mineral Resources and the provisions of the Statement of Environmental Effects approved for the Pelton Open Cut Mine.</td>
<td>Pelton Colliery Open Cut – Overburden Stockpile (Included in this MOP)</td>
</tr>
<tr>
<td>DA 118/695/22 Consent Condition for Establishment of Overburden Stockpile on Part Lot 1 DP 69968 Main Road 218, Pelton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 2 (1992)) Condition 7</td>
<td>Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.</td>
<td>CML2 (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 728 (1973)) Condition A-2-3</td>
<td>The precipitate dam (area 9d) is to be mucked out and desilted. The desilted material is to be disposed of within open cut void areas.</td>
<td>CHPP precipitate dam</td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 728 (1973)) Condition A-2-4</td>
<td>All pollution control dams (areas 9a, 9b, 9g, 9l) are to be desilted and stabilised to maintain storage capacity.</td>
<td>CHPP pollution control dams</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 728 (1973)) Condition A-2-5</td>
<td>The Aberdare Extended area (6ha) is to be rehabilitated with capping material and maintained, with work to be carried out as scheduled (or earlier) in the Rehabilitation Plan. Earthworks are to commence by the end of the first quarter 1999 and are to be completed by 1 July 2000.</td>
<td>Aberdare Extended Emplacement Area (Timing has passed) Aberdare Emplacement Area included within this MOP</td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 728 (1973)) Condition 22</td>
<td>Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.</td>
<td>CCL728 (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 728 (1973)) Condition A-2-2</td>
<td>The tailings ponds areas (1a, 1b, 1c) are to be cleaned out and kept for emergency use only until final rehabilitation is carried out according to final completion criteria satisfactory to the Department of Mineral Resources. The areas are not to be used to store acid water or acid forming materials except in the case of such emergency. In such event the water/material shall be treated as rapidly as is practical within sound treatment plant and mine site operational practice and the area dewatered.</td>
<td>Pelton Colliery (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Consolidated Coal Lease No. 752 (1973)) Condition 22</td>
<td>Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.</td>
<td>CCL752 (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>Mining Lease (Dam Site Lease 89 (1901)) Condition 5</td>
<td>Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this lease or any renewal thereof, the registered holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.</td>
<td>DSL89 - Portion of rail line (Included in this MOP)</td>
</tr>
</tbody>
</table>
| Mining Lease (Mineral Lease No. 1157 (1906)) Condition 13 | (a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that:-
• there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion.
• the state of the land is compatible with the surrounding land and land use requirements.
• the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land.
• in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be re-established with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density.
• the land does not pose a threat to public safety.
(b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General. | Aberdare Extended Emplacement Area (Included in this MOP) |
<p>| Mining Lease (Mineral Lease No. 1283 (1906)) Condition 22 | Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister. | Aberdare Extended Emplacement Area (Included in this MOP) |
| Mining Lease (Mineral Lease No. 1283 (1906)) Special Condition Annexure 1: Condition 1 | a) The leaseholder shall proceed with rehabilitation works at the Pelton Site (Coal Preparation Plant and Open Cut Mining Areas) and Aberdare Extended Site (Coal Washery Rejects Emplacement) in general accordance with those works documented in: ELLALONG/PELTON COLLIERY REHABILITATION PLAN | Aberdare Extended Emplacement Area (Rehabilitation strategy for) |</p>
<table>
<thead>
<tr>
<th>Source</th>
<th>Detail of Regulatory Requirement</th>
<th>Area of Relevance</th>
</tr>
</thead>
</table>
| SOUTHLAND COAL JUNE 1998 | b) Rehabilitation works documented in 1(a) above are to be varied in accordance with the variations specified in Annexure A-2.  
c) Rehabilitation works as documented in 1(a) above and as may be varied in 1(b) above are to be integrated and documented in the Mining Operations Plan referred to in 2 under. | Aberdare included in this MOP |
| Mining Lease (Mineral Lease No. 1283 (1906)) Special Condition Annexure 2: Condition 5 | The Aberdare Extended area (6ha) is to be rehabilitated with capping material and maintained, with work to be carried out as scheduled (or earlier) in the Rehabilitation Plan. Earthworks are to commence by the end of the first quarter 1999 and are to be completed by 1 July 2000. | Aberdare Extended Emplacement Area (Rehabilitation strategy for Aberdare included in this MOP) |
| Mining Lease (Mining Lease 1345 (1992)) Condition 9 | Subject to any specific condition of this authority providing for rehabilitation of any particular part of the subject area affected by mining or activities associated therewith, the lease holder shall;  
(a) shape and revegetate to the satisfaction of the Minister, any part of the subject area that may, in the opinion of the Minister have been damaged or deleteriously affected by mining operations and ensure such areas are permanently stabilised, and,  
(b) reinstate and make safe, including sealing and/ or fencing, any excavation within the subject area. | Aberdare Extended Emplacement Area (Included in this MOP) |
<p>| Mining Lease (Mining Lease 1345 (1992)) Condition 13 | Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and - works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister. | Aberdare Extended Emplacement Area (Included in this MOP) |</p>
<table>
<thead>
<tr>
<th>Source</th>
<th>Detail of Regulatory Requirement</th>
<th>Area of Relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining Lease (Mining Lease 1550 (1992)) Condition 22</td>
<td>Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.</td>
<td>Kalingo Infrastructure Area (No. 3 Shaft area) (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Mining Lease 1661 (1992)) Condition 7</td>
<td>Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.</td>
<td>Stage 3 Mining Area (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Mining Lease 1666 (1992)) Condition 7</td>
<td>Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.</td>
<td>Stage 3 Mining Area (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Mining Lease 1677 (1992)) Condition 7</td>
<td>Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.</td>
<td>Stage 3 Kitchener SIS (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Mining Purposes Lease No. 1364 (1906)) Condition 7</td>
<td>Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.</td>
<td>Austar rail line (Included in this MOP)</td>
</tr>
<tr>
<td>Mining Lease (Mining Purposes Lease No. 204 (1906)) Condition 22</td>
<td>Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination at this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.</td>
<td>Aberdare Extended Emplacement Area (Included in this MOP)</td>
</tr>
<tr>
<td>Source</td>
<td>Detail of Regulatory Requirement</td>
<td>Area of Relevance</td>
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</tr>
<tr>
<td>Mining Lease (Mining Purposes Lease No. 23 (1906)) Condition 7</td>
<td>Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.</td>
<td>Austar rail line (Included in this MOP)</td>
</tr>
</tbody>
</table>
| Mining Lease (Mining Purposes Lease No. 233 (1906)) Schedule 2, Condition 2 | Rehabilitation  
Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.                                                                                       | Aberdare Extended Emplacement Area (Included in this MOP)                                             |
| Mining Lease (Mining Purposes Lease No. 269(1906)) Condition 15       | Upon the completion of operations on the surface of the subject area or upon the expiry or sooner determination of this lease or any renewal thereof the registered holder shall remove from such surface such works and other constructions as may be required by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister. | Austar rail line (Included in this MOP)                                                              |
4.2 Post Mining Land Use Goal

The final land uses described throughout this document are indicative only and will be refined as the operation undertakes detailed mine closure planning and land use analysis closer to the end of mine life. Closure is not anticipated within this MOP term.

During the MOP term, a preliminary final land use options and opportunities assessment will be undertaken to determine potential land uses for the various surface sites post closure, and will involve consultation with the relevant government agencies including Cessnock City Council, DRG, RFS and landowners (where not Austar owned land). The final land use options assessments will be undertaken for all Domains as identified on Plans 2A - 2I. The final land use options assessment will take into consideration:

- a high-level review of land use zoning;
- current land use, and
- results of any contamination assessments for Austar’s surface mining lease areas, conducted during the MOP term.

The results of these studies will identify constraints to the potential final land use options for each of the surface sites. The Aberdare Extended Emplacement Area is mainly privately owned land which is zoned for rural land use, and is proposed to be rehabilitated during the MOP term. Austar has committed to returning an open grassland area to the landholder. The final land use for that area will be at the landowner’s discretion within that land zoning.

The conceptual final landform design and rehabilitation plans are provided in Plans 4A to 4J. The rehabilitated final landforms are designed to produce a stable landform and vegetation that is consistent with surrounding landscapes and Project Approval requirements.

Infrastructure areas including pit top, CHPP and reject emplacement areas, will be rehabilitated to a range of grassland and forest communities. For the Stage 3 mining area, the Bellbird South mining area, and the Kitchener Surface Infrastructure Site, the final landuse domains have been developed through commitments made during the Environmental Assessment (EA) process. Rehabilitation objectives for the Kitchener Surface Infrastructure Site are set out in Project Approval 08_0111 which states that Austar shall rehabilitate the Kitchener Surface Infrastructure Site to a structured native vegetation community similar to that existing pre-mining, or other landuse approved by the Director-General of DP&E, and to the satisfaction of the Executive Director Mineral Resources. In accordance with this condition, Austar proposes to establish native bushland (forest) at the Kitchener SIS.

4.3 Rehabilitation Objectives

The primary objective of post-mining rehabilitation works on lands managed by Austar is to create a stable final landform that is consistent with the surrounding natural landscape with acceptable post-mining land use capability. The conceptual final land use plans are provided as Plans 4A to 4J. Rehabilitation of the reject emplacement areas will be conducted progressively over the life of the mine, as an integral component of mining operations. All rehabilitation works will be scheduled to
occur progressively as soon as practicable following disturbance. Rehabilitation of infrastructure areas including the Auster Pit Top, Kitchener SIS and the Pelton CHPP will occur as soon as practical following decommissioning of infrastructure. This approach will also minimise the total disturbed area at any one time while reducing the potential environmental and visual impact of mining operations.

The proposed conceptual final land use for the various surface sites will enable the re-establishment of a variety of vegetation types. Final land use assessments in future MOP terms will further refine the proposed final land use for the operations.

In accordance with Condition 1 of Schedule 6 of PA 08_0111 and Condition 29 of Schedule 3 of DA 29/95, **TABLE 4-2** provides a summary of the objectives for the various post mining land uses specific to the relevant development areas. Preliminary completion criteria for the site are provided in **Section 6**.

**TABLE 4-2 OBJECTIVES OF FINAL LAND USE**

<table>
<thead>
<tr>
<th>Project Approval Area</th>
<th>Rehabilitation Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchener SIS (PA08_0111)</td>
<td>• Revegetate the cleared portion of the site with a structured native vegetation community similar to that existing pre-mining environment, or other landuse approved by the Director-General of the Department of Planning and Environment</td>
</tr>
<tr>
<td>Biodiversity Offset Area (PA08_0111)</td>
<td>• Implement the offset strategy described in the Stage 3 Modification EA (complete).</td>
</tr>
</tbody>
</table>
| Land affected by the project (including watercourses and steep slopes) (PA08_0111) | • Rehabilitate landform, landuse and ecosystem function to the existing pre-mining environment and consistent with surrounding landform;  
  • Reduce safety hazards to no more than those existing pre-mining; and  
  • Minimise erosion risk. |
| Land affected by the development (including watercourses and steep slopes) (DA29/95) | • Rehabilitate the site so that landuse and ecosystem function is the same as pre-mining and consistent with the surrounding landform  
  • Reduce safety hazards to no more than those existing pre-mining  
  • Minimise erosion risk |
| PA08_0111 & DA29/95 - Built features | • Repair / restore / replace to pre-mining condition or better, unless a claim under the *Mine Subsidence Compensation Act 1961* is made for the repairs, restoration or replacement. |
| Community | • Minimise the adverse socio-economic effects associated with mine closure. |

5 **REHABILITATION PLANNING AND MANAGEMENT**

Rehabilitation objectives are outlined in regulatory approvals and detailed in **Section 4.3**. The mine is split into Primary domains and Secondary domains as defined by the MOP Guideline.

Primary Domains, or Operational Domains are defined based on land management within the mine site – they generally have similar geophysical characteristics due to their operational and functional purpose while mining.
Secondary Domains, or Post Mining Land Use Domains are defined as land management units characterised by a similar post mining land use objective.

5.1 Domain Selection

The primary domains at Austar are provided in Plans 2A to 2I and are detailed in Table 5-1 below. The primary domains are based on Table 4 of the MOP Guidelines (DRE, 2013).

Table 5-1 PRIMARY AND SECONDARY DOMAINS FOR AUSTAR

<table>
<thead>
<tr>
<th>Primary (or operational) Domain</th>
<th>Code</th>
<th>Proposed Final Landuse (secondary Domain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructure (all surface infrastructure sites except for Kitchener SIS and CHPP)</td>
<td>1C</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Infrastructure (Kitchener SIS and CHPP)</td>
<td>1F</td>
<td>Rehabilitation Area - Forest</td>
</tr>
<tr>
<td>Tailings Storage Facilities / Reject Emplacement Areas</td>
<td>2C</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Water Management</td>
<td>3C</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Water Management</td>
<td>3B</td>
<td>Water Management (remain at closure)</td>
</tr>
<tr>
<td>Stockpiled Material</td>
<td>5F</td>
<td>Rehabilitation Area - Forest</td>
</tr>
<tr>
<td>Rehabilitation Area</td>
<td>7C</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Underground Mining Areas</td>
<td>8F, 8D</td>
<td>Rehabilitation Area – Forest, Rehabilitation Area - Pasture</td>
</tr>
</tbody>
</table>

5.1.1 Infrastructure

The various Austar infrastructure sites and their proposed conceptual final landuse are provided in Table 5.2 below.

Table 5-2 PRELIMINARY FINAL LANDUSES FOR AUSTAR SURFACE INFRASTRUCTURE FACILITIES

<table>
<thead>
<tr>
<th>Infrastructure Site</th>
<th>Conceptual Final Landuse</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHPP Infrastructure Area</td>
<td>Rehabilitation Area – Grassland &amp; Forest</td>
</tr>
<tr>
<td>Austar Pit Top Facilities</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Kitchener SIS</td>
<td>Rehabilitation Area - Forest</td>
</tr>
<tr>
<td>Rail Line Infrastructure</td>
<td>Rehabilitation Area – Grassland</td>
</tr>
<tr>
<td>Shaft Sites No.1 to No.3</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
<tr>
<td>Kalingo Pit Top Site</td>
<td>Rehabilitation Area - Grassland</td>
</tr>
</tbody>
</table>

These conceptual final landuses have been developed for the purposes of this MOP based on a review of the approvals information for the various surface facilities. Further detailed assessments for final landuse for each surface site will be undertaken as the operation approaches closure.
All infrastructure sites will be in operation during the term of this MOP.

5.1.2 Tailings Storage Facilities and Reject Emplacement Areas

5.1.2.1 Tailings

During the MOP period, Austar will continue to return tailings to former underground workings. This will be undertaken utilising a series of boreholes. Section 2.3.5 provides information on the tailings management strategy for the period of the MOP. It is proposed that tailings disposal facilities will continue to be used during the term of this MOP. The indicative final landuse for tailings borehole locations are shown on Plan 4J.

Previously tailings were stored in the Northwest and No.9 tailings storage areas. As discussed within Section 2.3.6, these areas may potentially be excavated and the material blended with Austar product coal during the MOP term, pending market conditions.

5.1.2.2 Reject Emplacement

Several active reject emplacement areas are utilised at Austar with emplacement following the progression of mining activities. The following areas are included in the Reject Emplacement Area domain and are annotated on Plans 2B and 2C:

- Aberdare Extended Reject Emplacement Area;
- North-West Emplacement Area (including noise bund);
- East Pit Emplacement Area; and
- West Pit Emplacement Area

Austar have approval for additional reject emplacement areas, if required. These reject emplacement areas are shown on Figure 2-1. Storage calculations completed for this MOP indicate that additional approved reject emplacement areas may need to be utilised beyond this MOP term.

Further rehabilitation works may be undertaken in the MOP term in capping and rehabilitating emplacement areas. Rehabilitation processes are discussed in Section 7. Proposed rehabilitation schedules for the reject emplacement areas are shown on Plans 3B and 3C.

5.1.3 Water Management Areas

The Water Management Domain includes:

- The water management infrastructure including Dirty Water Management system and associated pipeline infrastructure at the CHPP;
- Dirty water and clean water dams at the remaining infrastructure sites, including the Austar Pit Top Dam and the Kalingo Dam; and
- Creek Realignment (CHPP area).
The indicative final landuse for dams are shown on the various plans for the infrastructure sites on Plans 4A to 4J. The final landuse for the dams have been designated as either clean water dams to remain at closure, or dirty water dams to be rehabilitated and grassed. Further detailed information on the closure requirements and final landuse of the various dams will be completed as part of a detailed closure phase of works which will include detailed drainage design.

### 5.1.4 Stockpiled Material

The stockpiled material domain includes ROM and product stockpiles, tailings drying area and other areas as shown on Plan 2B. The product stockpile area is adjacent to the overland conveyor extending from the CHPP area to the Rail Line (refer to Plan 2B). Rehabilitation works at closure would involve ripping of hardstand areas and rehabilitation with forest species.

### 5.1.5 Rehabilitation

This domain includes buffer lands and previously disturbed areas of the CHPP which require rehabilitation but are currently not utilised for operational purposes. The final land use for the purposes of this MOP includes grassland and wooded landforms.

### 5.1.6 Underground Mining Area

For the purposes of this MOP, the underground mining area includes the Stage 3 Mining Area and the Bellbird South Mining Area as detailed on Plan 3A. These are anticipated to be the only active underground mining areas during the term of this MOP.

### 5.2 Domain Rehabilitation Objectives

Domain rehabilitation objectives have been developed for Austar and are based on regulatory requirements and are subject to detailed further final landuse options assessments which will be completed as closure approaches. The domain rehabilitation objectives are detailed in Table 5-3. Management of potential environmental risks will be controlled as described in Section 3.2.
<table>
<thead>
<tr>
<th>Primary Domain</th>
<th>Code</th>
<th>Rehabilitation Objective</th>
</tr>
</thead>
</table>
| Infrastructure (42.65 ha)                                    | 1C, 1F | • Removal of infrastructure to ensure the site is safe and free of hazardous materials.  
• Provide soil chemical and physical properties or alternate growth medium that is suitable for the establishment and maintenance of the selected vegetation species.  
• Selected vegetation established  
• Runoff water quality from the rehabilitated area is within the range of water quality data recorded from analogue sites. |
| Tailings Storage Facilities and Reject Emplacement Area (84.6 ha) | 2C     | • Provide a self-sustaining land form post mine closure.  
• Design of capping to prevent soil erosion and exposure of tailings and reject material.  
• Where appropriate, incorporate ameliorants prior to capping.  
• Provide growth medium that is suitable for the establishment and maintenance of the selected vegetation species.  
• Selected vegetation established.  
• Runoff water quality from the rehabilitated area is within the range of water quality data recorded from analogue sites. |
| Water Management Area (21.8 ha)                              | 3B, 3C | • Provide a self-sustaining landform post mine closure.  
• Selected vegetation established.                                                                                                                                                                                                                                                                                                                   |
| Stockpiled Material (15 ha)                                  | 5C     | • Provide a self-sustaining land form post mine closure.  
• Remove or cap carbonaceous material.  
• Provide growth medium that is suitable for the establishment and maintenance of the selected vegetation species.  
• Selected vegetation established.  
• Runoff water quality from the rehabilitated area is within the range of water quality data recorded from analogue sites.                                                                                                                                                                                                             |
| Rehabilitation Area (18.9 ha)                                | 7C     | • Provide a self-sustaining land form post mine closure.  
• Remove or cap carbonaceous material.  
• Provide soil chemical and physical properties or alternate growth medium that is suitable for the establishment and maintenance of the selected vegetation species.  
• Selected vegetation established.                                                                                                                                                                                                                                                                 |

**Table 5-3 Summary of Rehabilitation Objectives of the Primary Domains for Austrar**
Primary Domain | Code | Rehabilitation Objective
---|---|---
Underground Mining Areas - 20mm subsidence contour estimate (1,607 ha) | 8F, 8D | • Runoff water quality from the rehabilitated area is within the range of water quality data recorded from analogue sites.
• The above area is safe and does not present a hazard to people or the environment.
• Groundcover comparable to pre-mining environment is established following any required subsidence remediation activities.

Note: Table 5.3 was developed in accordance with requirements of Table 4 of the MOP Guidelines.

### 5.3 Rehabilitation Phases

Successful rehabilitation can be described in logical steps or phases, with different completion criteria defined and achieved in each phase before moving to the next. Some final land uses require a progression through more phases than others (such as the establishment of native flora and fauna on overburden compared to subsidence repair in an agricultural setting). Rehabilitation will be conducted at Austar as soon as practicable following the completion of mining activities. Most areas remain active during the MOP term, except for areas of rehabilitation (eg. Parts of Aberdare Emplacement Area). Table 5-4 outlines the phase of rehabilitation for each Domain at the end of the MOP term. Rehabilitation activities to be undertaken during the MOP term are detailed in Section 7.2.

**Table 5-4 Primary and Secondary Domains for Austar as at 2026**

<table>
<thead>
<tr>
<th>Rehabilitation Phase</th>
<th>Infrastructure</th>
<th>Tailings Storage Facility &amp; Reject Emplacement Area</th>
<th>Water Management Area</th>
<th>Stockpiled Material</th>
<th>Underground Mining Area (Extraction Plan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Mining Area</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Decommissioning</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Landform establishment</td>
<td>No</td>
<td>Yes*</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Growing Medium Development</td>
<td>No</td>
<td>Yes*</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ecosystem and Land Use Establishment</td>
<td>No</td>
<td>Yes*</td>
<td>No</td>
<td>No</td>
<td>Yes*</td>
</tr>
<tr>
<td>Ecosystem and Land Use Sustainability</td>
<td>No</td>
<td>Yes*</td>
<td>No</td>
<td>No</td>
<td>Yes*</td>
</tr>
<tr>
<td>Relinquished Lands</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

* Rehabilitation phases undertaken at the Aberdare Emplacement Area, and East Pit Emplacement Area

Subsidence remediation works undertaken as required including remediation of subsidence cracks. As these works are minor in nature and the location of these works is not defined, the Underground Mining Area is all classified in the Ecosystem and Landuse sustainability phase.
6 COMPLETION / RELINQUISHMENT CRITERIA

6.1 Completion Criteria

The preliminary performance indicators and completion criteria represented in Table 6-1 of this MOP are representative of the current knowledge (including from monitoring data and operational experience) relating to the proposed final landform at Austar. Given the current phase of operations and anticipated life of mine for Austar, the criteria provided in Table 6-1 are preliminary and are expected to be amended as mining progresses. A preliminary options assessment for final land use will be undertaken during the MOP term (refer to Section 4.2), however, final land use assessments for the operation will be undertaken during the detailed closure phase and are not anticipated to occur during the term of this MOP. Therefore, the final land use domains provided in Table 6-1 are indicative and will be amended or further developed in future MOPs and during detailed closure.

Indicators and criteria specific to the Kitchener SIS have been drawn from the Kitchener SIS Landscape Management Plan, while indicators and criteria for the active Mining Areas have been drawn from the Land Management Plan for the Stage 3 Mining Area and the LWB4-LWB7 Land Management Plan as part of the relevant Extraction Plans.

Data from existing Austar ecological monitoring programs have been utilised in the development of draft ecological performance indicators.
<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase - Decommissioning</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Domain 1 - Infrastructure</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All non-heritage infrastructure removed to ensure the site is safe and</td>
<td>Services: removal of all services (power, water, communications, roads)</td>
<td>Services not required for post mining land use has been removed.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>free of hazardous materials</td>
<td></td>
<td>Any services remaining are documented on the final landform plan in the closure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MOP.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rehabilitation of open boreholes used in the operations.</td>
<td>Boreholes used for operational purposes / monitoring that are no longer required for</td>
<td>Boreholes used for operational purposes / monitoring that are no longer required for</td>
<td>Mining Lease</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>operations / monitoring that are no longer required for operations / monitoring</td>
<td>operations / monitoring purposes are rehabilitated in accordance with ‘EDG 01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>purposes are rehabilitated in accordance with ‘EDG 01 Borehole Sealing</td>
<td>Borehole Sealing Requirements on Land’.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventilation Shafts and mine openings.</td>
<td>Shafts filled and capped in accordance with DRE Guideline MDG 6001 ‘Guideline for</td>
<td>Shafts filled and capped in accordance with DRE Guideline MDG 6001 ‘Guideline for</td>
<td>Mining Lease</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>the Permanent Filling and Capping of Surface Entries to Coal Seams (Feb, 2012)’.</td>
<td>the Permanent Filling and Capping of Surface Entries to Coal Seams (Feb, 2012)’.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchener SIS: removal of the SIS and all associated structures.</td>
<td>Infrastructure not required for post mining land use has been removed. Hazardous</td>
<td>Infrastructure not required for post mining land use has been removed. Hazardous</td>
<td>PA 08_0111</td>
<td>No</td>
<td>Kitchener SIS</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>materials removed to appropriate</td>
<td>materials removed to appropriate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Objective: Phase - Decommissioning

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHPP and associated infrastructure: removal of the CHPP and all associated conveyors and structures</td>
<td>Infrastructure not required for post mining land use has been removed. Hazardous materials removed to appropriate standards (where applicable). Any infrastructure remaining are documented on the final landform plan in the closure MOP.</td>
<td>Mining Lease</td>
<td>No</td>
<td>CHPP</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Office and Workshop: demolition and removal of all office and workshop related facilities including refuelling facilities. Explosives and storage area removed.</td>
<td>Infrastructure not required for post mining land use has been removed. Any infrastructure remaining are documented on the final landform plan in the closure MOP.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Austar Pit Top</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Pumps, pipes and power: removal of water management infrastructure.</td>
<td>Infrastructure not required for post mining land use has been removed. Any infrastructure remaining are documented on the final landform plan in the closure MOP.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Dismantle CHPP rail facilities &amp; load out.</td>
<td>Rail facilities and load out removed.</td>
<td>Mining Lease</td>
<td>No</td>
<td>CHPP Rail spur and loadout</td>
<td>Rail spur in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------</td>
<td>---------------------</td>
<td>------------------------</td>
<td>-------------------</td>
<td>----------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Phase - Decommissioning</td>
<td>Removal of rail line</td>
<td>Infrastructure not required for post mining land use has been removed. Any infrastructure remaining are documented on the final landform plan in the closure MOP.</td>
<td>Cessnock City Council LEP / Heritage Listing</td>
<td>No</td>
<td>Austar Rail Line</td>
<td>Rail spurs in use throughout MOP period.</td>
</tr>
<tr>
<td></td>
<td>Contaminated Site Assessment report completed by suitably qualified person</td>
<td>Contaminated Site Assessment report indicates site is suitable for proposed final land use in accordance with relevant contaminated land guidelines.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
</tr>
<tr>
<td></td>
<td>Heritage infrastructure to be removed where appropriate.</td>
<td>Heritage listed infrastructure is only removed after receipt of required heritage approvals.</td>
<td>Cessnock City Council LEP / Heritage Listing</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure may be removed during MOP term, refer to Section 7.</td>
</tr>
<tr>
<td></td>
<td>Heritage Infrastructure to remain identified as safe for future use. For Heritage listed buildings at Austar.</td>
<td>Hazardous Materials survey to be completed for any buildings to remain on site post closure – to identify any potential risks or safety concerns. No hazardous materials remain on site.</td>
<td>Cessnock City Council LEP / Heritage Listing</td>
<td>No</td>
<td>Infrastructure</td>
<td>Infrastructure in use throughout MOP period.</td>
</tr>
</tbody>
</table>
### Domain 2 – Tailings Storage Facilities and Reject Emplacement Areas

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final level of reject in emplacement areas or tailings facilities allows landform establishment process to commence and meet proposed final landform</td>
<td>Final reject level is correct to allow landform establishment process to commence</td>
<td>Survey confirms coarse reject / tailings level is suitable to commence capping</td>
<td>MOP Plans</td>
<td>No</td>
<td>Tailings Storage Facilities &amp; Reject Emplacement Areas</td>
<td>Aberdare Emplacement Area has achieved decommissioning levels at either end of the emplacement shown in MOP plans prior to capping.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td>Aberdare Emplacement Area has undergone lime application on coarse reject surface in areas that are capped at start of MOP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No spontaneous combustion present in emplacement areas</td>
<td>Presence of spontaneous combustion</td>
<td>No areas of spontaneous combustion detected</td>
<td>Spontaneous Combustion Management Plan/ Capping methodology</td>
<td>No</td>
<td>Tailings Storage Facilities &amp; Reject Emplacement Areas</td>
<td>Active operation in period of the MOP</td>
<td></td>
</tr>
<tr>
<td>Tailings Storage Facilities and Reject Emplacement Areas to be safe and all infrastructure removed</td>
<td>Pumps, pipes and power: removal of water management infrastructure.</td>
<td>Complete removal of all infrastructure</td>
<td>Mining Lease</td>
<td>No</td>
<td>Tailings Storage Facilities &amp; Reject Emplacement Areas</td>
<td>Active operation in period of the MOP</td>
<td></td>
</tr>
</tbody>
</table>

### Domain 3 – Water Management Areas

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure the site is safe and levels of hazardous materials are appropriate for final land use</td>
<td>Desilting of dirty water management structures</td>
<td>All dirty water management structures have been desilted and material buried and capped onsite or material transferred to a</td>
<td>Mining Lease</td>
<td>No</td>
<td>Water Management Areas</td>
<td>Active operation in period of the MOP</td>
<td></td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
</tr>
<tr>
<td>-----------</td>
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<td>---------------------</td>
<td>------------------------</td>
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<td>--------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Phase - Decommissioning</td>
<td></td>
<td>licensed waste disposal facility.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimise risk of injury to people and animals from any remaining infrastructure.</td>
<td>Safety risks identified and appropriately mitigated.</td>
<td>Risk assessment conducted to document security controls to minimise risk of unauthorised access to mining area by personnel or animals. Assessment at mine closure to provide report on Dam safety (Kalingo) and confirm slopes are stable for post mining land use.</td>
<td>WHS Act 2011 Dam Safety Committee (Kalingo Dam)</td>
<td>No</td>
<td>Water Management Areas</td>
<td>Active operation in period of the MOP</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Pumps, pipes and power: removal of water management infrastructure.</td>
<td>Infrastructure not required for post mining land use has been removed. Any services remaining are documented on the final landform plan in the closure MOP.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Water Management Areas</td>
<td>Active operation in period of the MOP</td>
<td>N/A</td>
</tr>
<tr>
<td>Domain 5 – Stockpiled Areas</td>
<td>Ensure the site is safe and levels of hazardous materials are appropriate for final land use</td>
<td>Carbonaceous Material</td>
<td>Carbonaceous material has been emplaced or capped in accordance with the final land use plan or removed from the site.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>Stockpiled Areas</td>
<td>Stockpiled Areas in use throughout MOP period</td>
</tr>
</tbody>
</table>
## Phase – Landform Establishment

### Domain 1 - Infrastructure

<table>
<thead>
<tr>
<th>Landform is suitable for final land use and compatible with surrounding landscape.</th>
<th>Visual assessment conducted to verify that landforms developed are compatible with surrounding landscape.</th>
<th>Inspection confirms landform is compatible with surrounding landscape. Photographic record.</th>
<th>Mining Lease</th>
<th>No</th>
<th>Kitchener Surface Infrastructure Area CHPP</th>
<th>Mining Infrastructure and associated facilities in use throughout MOP period.</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final landform shaped</td>
<td>Survey complete to confirm landform is generally in accordance with final landform.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Kitchener Surface Infrastructure Area CHPP</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
<td></td>
</tr>
<tr>
<td>Erosion</td>
<td>Minor rilling only (less than 30 cm by 30 cm) within areas that landform works have been undertaken.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Infrastructure Areas</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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</tbody>
</table>

### Domain 2 – Tailings Storage and Reject Emplacement Areas

<table>
<thead>
<tr>
<th>Landform suitable for final land use and compatible with surrounding landscape.</th>
<th>Suitable capping thickness is applied to meet the MOP final landform</th>
<th>Minimum of 1m of capping is applied to decommissioned sections of Reject Emplacement Areas capped in this MOP period</th>
<th>Mining Lease</th>
<th>No</th>
<th>Tailings Storage Facilities and Reject Emplacement Areas.</th>
<th>Minimum of 1m capping thickness has been applied to finished sections of Aberdare Emplacement Area during previous MOP term.</th>
<th>Table 9-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual assessment conducted to verify that landforms developed are compatible with surrounding landscape.</td>
<td>Inspection confirms landform is compatible with surrounding landscape. Photographic record.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Tailings Storage Facilities and Reject</td>
<td>Mining Infrastructure and associated Facilities in use</td>
<td>Table 9-2</td>
<td></td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
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<tr>
<td>Phase – Landform Establishment</td>
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<tr>
<td></td>
<td>Final landform shaped and rehabilitated</td>
<td>Survey complete to confirm landform is generally in accordance with the MOP final landform.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Tailings Storage Facilities and Reject Emplacement Areas.</td>
<td>Aberdare Emplacement Area has achieved final landform capping level at either end of the emplacement shown in MOP plans. Area 12 and 13 have achieved final landform during previous MOP terms.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td></td>
<td>Erosion</td>
<td>Minor rilling only (less than 30 cm by 30 cm, whilst also maintaining the minimum compacted capping material depth) within areas that landform works have been undertaken.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Tailings Storage Facilities and Reject Emplacement Areas.</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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<tr>
<td>Domain 3 – Water Management Areas</td>
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<tr>
<td></td>
<td>Landform suitable for final land use and compatible with surrounding landscape.</td>
<td>Visual assessment conducted to verify that landforms developed are compatible with surrounding landscape.</td>
<td>Inspection confirms landform is compatible with surrounding landscape and MOP final landform. Photographic record.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Water Management Areas</td>
<td>Facilities in use throughout MOP period</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
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<tr>
<td></td>
<td>Erosion</td>
<td>Minor rilling only (less than 30 cm by 30 cm) within areas that landform works have been undertaken.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Water Management Areas</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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<tr>
<td><strong>Domain 5 – Stockpile Areas</strong></td>
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</tr>
<tr>
<td></td>
<td>Landform suitable for final land use and compatible with surrounding landscape.</td>
<td>Visual assessment conducted to verify that landforms developed are compatible with surrounding landscape.</td>
<td>Inspection confirms landform is compatible with surrounding landscape. Photographic record.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Stockpile Areas</td>
<td>Facilities in use throughout MOP period.</td>
</tr>
<tr>
<td></td>
<td>Final landform shaped and rehabilitated</td>
<td>Survey complete to confirm landform is generally in accordance with the MOP final landform.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Stockpile Areas</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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<tr>
<td></td>
<td>Erosion</td>
<td>Minor rilling only (less than 30 cm by 30 cm) within areas that landform works have been undertaken.</td>
<td>Mining Lease</td>
<td>No</td>
<td>Stockpile Areas</td>
<td>Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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<tr>
<td><strong>Domain 7 – Rehabilitation Area</strong></td>
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<tr>
<td></td>
<td>Reinstatement of the sections of creek that are currently piped underground through the CHPP area is suitable for final land use and compatible with surrounding landscape.</td>
<td>The final landform contains existing creek and realigned sections through the CHPP area as identified on the final landform plan for the CHPP.</td>
<td>Inspection conducted by a suitably qualified person to verify that the final creek alignment is effective and generally in accordance with final landform design.</td>
<td>Mining Lease</td>
<td>No</td>
<td>CHPP Rehabilitation Area</td>
<td>Not commenced</td>
</tr>
</tbody>
</table>
### Objective Performance Indicator Completion Criteria Justification / Source Complete (yes/no) Applicable Site Area Progress at start of MOP Link to TARP

#### Phase – Landform Establishment

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion</td>
<td>Erosion rills of less than 30 cm by 30 cm for the creek line</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>CHPP Rehabilitation Area</td>
<td>Not commenced</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Surface layer is free of any hazardous materials.</td>
<td>Inspection conducted to verify that the surface layer is free of any hazardous materials.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>CHPP Rehabilitation Area</td>
<td>Not commenced</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Creek realignment designed to prevent interaction with potentially hostile sediments</td>
<td>Creek realignment to be designed such that a minimum 1m capping depth is installed over any remaining hostile sediments (where present) to minimise interaction with underlying ground conditions.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>CHPP Rehabilitation Area</td>
<td>Not commenced</td>
<td>N/A</td>
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</tbody>
</table>

#### Domain 8 – Underground Mining Area

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<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
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</thead>
<tbody>
<tr>
<td>Rehabilitate the underground mining area for subsidence remediation as required</td>
<td>Results of monitoring undertaken in accordance with Subsidence Monitoring (SM) Program</td>
<td>SM Program implemented. Any surface cracks, erosion points, compression ridges, surface ponding areas, or steep slope instability, are identified by the SM Program to allow assessment or remediation options.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
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</tr>
<tr>
<td><strong>Phase – Landform Establishment</strong></td>
<td>Landform remediated and prepared for vegetation establishment.</td>
<td>Erosion and sediment controls are implemented for any required remedial works. Topsoil is conserved during remedial works and reused in vegetation establishment. Landform subsidence impact repaired commensurate with size and scale of impact (e.g. Major landform impact by filling or ripping the soil and re-compacting. Minor surface cracking may be remediated through infilling with soil or other suitable material).</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Public Safety hazards above LW extraction area are managed and reduced to no more than those existing pre-mining</strong></td>
<td>General landform public safety impacts are remediated. Identified slope instability issues are managed.</td>
<td>Subsidence Monitoring Program inspection results indicate no public safety hazards post mining.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Surface lands above the underground mining area safe and stable</strong></td>
<td>Built Features</td>
<td>No increased risk of flooding on Built features, unless the landowner agrees otherwise in writing. Built features are safe, serviceable and repairable, unless the owner agrees otherwise in writing.</td>
<td>PA 08_0111 Condition 1 of Schedule 3 DA 29/95 Condition 2 of Schedule 3</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
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<td>Applicable Site Area</td>
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</tr>
<tr>
<td>Surface lands above the underground mining area safe and stable</td>
<td></td>
<td>All identified impacts are assessed and specific remedial measures developed. Management measures of the Extraction Plan are followed: - Public Safety Management Plan - Aboriginal Cultural Heritage Plan (ACHMP) - Biodiversity Management Plan (BMP) – including management of any clearing activities required. Consultation with landholder regarding proposed remedial measures undertaken. Assessment at mine closure to provide report on slope stability and confirm slopes are stable for post mining land use.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td>Provide soil chemical and physical properties or alternate growth medium that is suitable for the establishment and maintenance of the selected vegetation species if required.</td>
<td>Topsoil or suitable alternative has been applied to the final landform surface.</td>
<td>Rehabilitation monitoring reports provide evidence that topsoil or suitable alternatives (e.g. compost) have been spread uniformly over the rehabilitation surface.</td>
<td>Previous Austar MOPs</td>
<td>No</td>
<td>Underground Mining Area</td>
<td>In use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
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<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
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</tr>
<tr>
<td><strong>Phase – Landform Establishment</strong></td>
<td><strong>Soil Chemistry</strong></td>
<td>Soil testing for pH and Cation Exchange Capacity is completed at a recognised soils laboratory. Ameliorants are applied to the soils at target rates recommended by the soils laboratory to enable plant growth.</td>
<td>Laboratory Reports for capping material (pH and CEC).</td>
<td>No</td>
<td>Tailings Storage Facilities and Reject Emplacement Areas</td>
<td>Infrastructure and Tailings Storage Facilities in use and being rehabilitated throughout the MOP term.</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Growth medium incorporation</strong></td>
<td><strong>Soil Chemistry</strong></td>
<td>The applied topsoil/alternative and ameliorants are keyed in to the upper part of the final landform surface by light mechanical ripping to develop the depth of growth medium (approx. 200mm depth)</td>
<td>Developed for this MOP.</td>
<td>No</td>
<td>Tailings Storage Facilities and Reject Emplacement Areas</td>
<td>Infrastructure and Tailings Storage Facilities in use and being rehabilitated throughout the MOP term.</td>
<td>N/A</td>
</tr>
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<td>Performance Indicator</td>
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<tr>
<td>Phase – Landform Establishment</td>
<td>Secondary Domain – Rehabilitation Area (Forest)</td>
<td>Provide soil chemical and physical properties comparable with the reference monitoring sites, or alternate growth medium that is suitable for the establishment and maintenance of the selected vegetation species</td>
<td>Topsoil or suitable alternative has been spread over the rehabilitation surface.</td>
<td>Rehabilitation monitoring reports provide evidence that topsoil or suitable alternatives (e.g. compost) have been spread uniformly over the rehabilitation surface.</td>
<td>Previous Austar MOPs</td>
<td>No</td>
<td>Infrastructure, Water Management Area, Stockpile Areas, Rehabilitation Area, Kitchener SIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil Chemistry</td>
<td>Targets for soil chemistry for Rehabilitation - Forest areas are investigated and developed during the MOP term to enable future implementation (refer to Section 8.2.1).</td>
<td></td>
<td>No</td>
<td>Infrastructure, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>In use throughout MOP period.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth medium incorporation</td>
<td>The applied topsoil/alternative and ameliorants are keyed in to the final landform surface by light mechanical ripping to develop the depth of growth medium (approx. 200mm depth)</td>
<td>Developed for this MOP.</td>
<td>No</td>
<td>Infrastructure, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>In use throughout MOP period.</td>
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</tbody>
</table>

Secondary Domain – Rehabilitation Area (Pasture)
<table>
<thead>
<tr>
<th>Objective</th>
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<th>Justification / Source</th>
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<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Phase – Landform Establishment</td>
<td>Topsoil or suitable alternative has been spread over the rehabilitation surface.</td>
<td>Topsoil conserved from the subsidence remediation repair area is used as growth medium for revegetation works.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Areas</td>
<td>Mining undertaken throughout MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td>Establishment of vegetation that will achieve final land use</td>
<td>Areas are seeded with target species (Appendix 2) immediately following growth medium establishment</td>
<td>Mining Lease conditions</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation area.</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Success of initial strike after seeding</td>
<td>For Grassland areas, groundcover targets are: 0-20% canopy 60-100% groundcover within 12 months of sowing during ecosystem establishment phase.</td>
<td>Based on Austar’s ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation area.</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
<td></td>
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<tr>
<td>Weed growth does not dominate during vegetation establishment phase</td>
<td>Weeds comprise no more than 20% of ground cover vegetation.</td>
<td>Developed for this MOP. Based on Austar's ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
<td></td>
</tr>
<tr>
<td>Fauna diversity is progressing towards the ecosystems planned in the final land use.</td>
<td>Fauna pest species are managed and controlled (where possible)</td>
<td>Pest control activities will be undertaken in accordance with the Local Land Services Act 2013. Austar will control declared species on their land, where identified through rehabilitation monitoring.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td>The area does not present a significant risk commensurate with NSW RFS requirements.</td>
<td>NSW Fire Service to provide comments on Bushfire Management Plan or the bushfire management plan has been developed using relevant NSW Fire Service guidelines.</td>
<td>Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
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<tr>
<td><strong>Secondary Domain – Rehabilitation Area (Forest)</strong></td>
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<tr>
<td>Revegetation of the Kitchener SIS</td>
<td>Native plant species compatible with the surrounding environment are used in revegetation</td>
<td>Areas of exposed soils are revegetated to achieve cohesive ground cover using a native plant species mix compatible with the surrounding environment (see species list in Appendix 2). This information will be further developed as part of future MOPs as the site approaches closure and will utilise monitoring data from analogue sites and nearby monitoring plots. Indicative Vegetation Composition Criteria (i.e. groundcover targets): -10-60% canopy. - 5-60% understorey. - 20-80% groundcover Within 24 months of sowing during ecosystem establishment phase.</td>
<td>Kitchener SIS Landscape Management Plan, PA 08_0111 Based on Austar’s ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Weeds and pest species are actively</td>
<td>Monthly inspections conducted.</td>
<td>No increase in weed population and monitoring indicates the</td>
<td>Kitchener SIS Landscape</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
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</tr>
<tr>
<td>Phase – Landform Establishment</td>
<td>managed and controlled at the Kitchener SIS site.</td>
<td>Weeds identified on site are actively controlled and/or removed using appropriate weed control techniques.</td>
<td>absence of or decline in weed species</td>
<td>Management Plan</td>
<td>associated Facilities in use throughout MOP period.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floristic diversity is progressing towards the ecosystems planned in the final land use.</td>
<td>Development of vegetative ecosystems as per the final land use.</td>
<td>Areas are seeded with target species <em>(Appendix 2)</em> immediately following growth medium establishment works (if required)</td>
<td>Mining Lease conditions</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Table 9-2</strong></td>
</tr>
<tr>
<td>Floristic diversity is progressing towards the ecosystems planned in the final land use.</td>
<td>For Forest Areas, groundcover targets: -10-60% canopy. -5-60% understory. -20-80% groundcover Within 24 months of sowing during ecosystem establishment phase.</td>
<td>Based on Austar’s ecological monitoring programs undertaken across its operations for forest areas.</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td><strong>Table 9-2</strong></td>
<td></td>
</tr>
<tr>
<td>Fauna diversity is progressing towards the ecosystems</td>
<td>Rehabilitation areas provide a range of structural habitats similar</td>
<td>Monitoring data provides evidence of a range of structural habitats and habitats</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
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</tr>
<tr>
<td>Phase – Landform Establishment</td>
<td>to pre-mining fauna communities.</td>
<td>similar to pre-mining fauna communities are evident in rehabilitation areas.</td>
<td></td>
<td></td>
<td>(Forest Areas shown on Plan 2B)</td>
<td>Facilities in use throughout MOP period.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fauna pest species are managed and controlled (where possible)</td>
<td>Pest control activities will be undertaken in accordance with the Local Land Services Act 2013. Austar will control declared species on their land, where identified through rehabilitation monitoring.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td>The area does not present a significant risk commensurate with NSW RFS requirements.</td>
<td>NSW Fire Service to provide comments on Bushfire Management Plan or the bushfire management plan has been developed using relevant NSW Fire Service guidelines.</td>
<td>Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
</tbody>
</table>
## Phase – Landform Establishment

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetation Establishment in subsidence remediation areas</td>
<td>Ground cover comparable to pre-mining environment is re-established following remediation activities. Remediated areas revegetated with native species selected based on the surrounding vegetation and biodiversity planting list. All works within National Parks Estate are undertaken with the consent of the NSW National Parks and Wildlife Service. Ecosystem function is rehabilitated to that existing pre-mining and consistent with the surrounding landform.</td>
<td>Ecosystem function is rehabilitated to that existing pre-mining and consistent with the surrounding landform. For Forest Areas, groundcover targets: -10-60% canopy. -5-60% understorey. -20-80% groundcover Within 24 months of sowing.</td>
<td>Extraction Plan for relevant mining area Based on Austar’s ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>Underground Mining Area (including within Werakata SCA)</td>
<td>Underground mining continuing during the MOP term</td>
<td>Table 9-2</td>
</tr>
</tbody>
</table>

## Secondary Domain Rehabilitation Area – Pasture

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetation Establishment in subsidence remediation areas</td>
<td>Ground cover comparable to pre-mining environment is re-established following remediation activities. Remediated areas revegetated with species selected based on the existing land use (i.e.</td>
<td>Ecosystem function is rehabilitated to that existing pre-mining and consistent with the surrounding landform.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area within private land or Austar land</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
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</tr>
<tr>
<td>Phase – Landform Establishment</td>
<td>pasture) and surrounding vegetation.</td>
<td></td>
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<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
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</tr>
<tr>
<td><strong>Phase – Ecosystem and Land Use Sustainability</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Secondary Domain Rehabilitation Area – Grassland</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Establishment of revegetation that is to achieve the final land use.</td>
<td>Revegetation is progressing towards a sustainable ecosystem and only requires maintenance that is consistent with the intended final land use.</td>
<td>For Grassland areas, groundcover targets: - 0-20% canopy - 70-100% Groundcover</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td></td>
<td>Weeds and pest species are actively managed and controlled</td>
<td>Weeds identified on site are actively controlled and/or removed using appropriate weed control techniques to meet the final land use criteria.</td>
<td>Weeds are absent from canopy and understorey, and comprise no more than 20% of ground cover vegetation.</td>
<td>Developed for this MOP Based on Austar’s ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>Infrastructure, Reject Emplacement Areas, Tailings Storage Facilities, Water Management Area, Stockpile Areas, Rehabilitation Area</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
</tr>
<tr>
<td><strong>Secondary Domain Rehabilitation Area – Forest</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Revegetation of the Kitchener SIS</td>
<td>Native plant species compatible with the surrounding environment are used in revegetation</td>
<td>Indicative Vegetation Composition Criteria (i.e. groundcover targets): -15-50% canopy. - 5-60% understorey. - 20-90% groundcover</td>
<td>Kitchener SIS Landscape Management Plan, PA 08_0111 Based on Austar’s ecological monitoring</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
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</tr>
<tr>
<td>Phase – Ecosystem and Land Use Sustainability</td>
<td>Rehabilitation monitoring indicates sustainability</td>
<td>Rehabilitation Monitoring is comparable or trending towards analogue sites (%)</td>
<td>Kitchener SIS Landscape Management Plan</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and associated facilities in use throughout MOP period.</td>
<td>N/A</td>
</tr>
<tr>
<td>Weeds and pest species are actively managed and controlled at the Kitchener SIS site.</td>
<td>Weeds identified on site are actively controlled and/or removed using appropriate weed control techniques.</td>
<td>No increase in weed population and monitoring indicates the absence of or decline in weed species</td>
<td>Kitchener SIS Landscape Management Plan</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td>A range of appropriate pest control measures (e.g. the destruction of habitat, trapping, targeted shooting programmes and baiting) are employed as determined in consultation with the Livestock Health and Pest Authority and adjoining landholders.</td>
<td>Follow-up inspections to assess the effectiveness of control measures implemented and the requirement for any additional control measures. No increase in feral animal population and monitoring indicates the absence of or decline in feral animal species numbers.</td>
<td>Kitchener SIS Landscape Management Plan</td>
<td>No</td>
<td>Kitchener SIS facility</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
<td></td>
</tr>
<tr>
<td>Establishment of revegetation that is to achieve the final land use.</td>
<td>Revegetation is progressing towards a sustainable ecosystem and only requires maintenance that is</td>
<td>For Forest Areas, groundcover composition targets: -15-50% canopy. - 5-60% understorey. - 20-90% groundcover</td>
<td>Developed for this MOP Based on Austar’s ecological monitoring</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
</tr>
<tr>
<td>Objective</td>
<td>Performance Indicator</td>
<td>Completion Criteria</td>
<td>Justification / Source</td>
<td>Complete (yes/no)</td>
<td>Applicable Site Area</td>
<td>Progress at start of MOP</td>
<td>Link to TARP</td>
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<td>--------------</td>
</tr>
<tr>
<td>Phase – Ecosystem and Land Use Sustainability</td>
<td></td>
<td></td>
<td>programs undertaken across its operations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment of revegetation that is to achieve the final land use.</td>
<td>Evidence indicating reproduction (seeding, flowering or second generation plants) present.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Signs of recruitment in all stratum. Or evidence to demonstrate that the ecosystem will progress towards recruitment.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For forest areas, more than 75% of trees are healthy and growing.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weeds are absent from canopy and understorey, and comprise no more than 20% of ground cover vegetation.</td>
<td>Developed for this MOP Based on Austar’s ecological monitoring programs undertaken across its operations.</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use throughout MOP period.</td>
<td>Table 9-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pest control activities will be undertaken in accordance with the Local Land Services Act 2013. Austar will control</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>Mining Infrastructure and associated Facilities in use</td>
<td>Table 9-2</td>
<td></td>
</tr>
</tbody>
</table>
## Phase – Ecosystem and Land Use Sustainability

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>The area does not present a bushfire hazard to surrounding areas.</td>
<td>NSW Fire Service to provide comments on Bushfire Management Plan or the bushfire management plan has been developed using relevant NSW Fire Service guidelines.</td>
<td>declared species on their land, where identified through rehabilitation monitoring.</td>
<td>Developed for this MOP</td>
<td>No</td>
<td>All remaining Rehabilitation (Forest) Areas (Forest Areas shown on Plan 2B)</td>
<td>throughout MOP period.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Secondary Domain Rehabilitation Area – Pasture

<table>
<thead>
<tr>
<th>Objective</th>
<th>Performance Indicator</th>
<th>Completion Criteria</th>
<th>Justification / Source</th>
<th>Complete (yes/no)</th>
<th>Applicable Site Area</th>
<th>Progress at start of MOP</th>
<th>Link to TARP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remediated subsidence impacted area in existing pasture is suitable for grazing</td>
<td>Ground cover comparable to pre-mining environment is re-established following remediation activities.</td>
<td>Monitoring program indicates pasture species and density is comparable to that existing pre-subsidence remediation activities.</td>
<td>Extraction Plan for relevant mining area</td>
<td>No</td>
<td>Underground Mining Area within private land</td>
<td>Underground mining continuing during the MOP term</td>
<td>N/A</td>
</tr>
</tbody>
</table>
6.2 Criteria Refinement

Austar will continue to refine criteria during mining. The closure criteria for the site will be refined during future MOP terms in consideration of the following:

- outcomes of further rehabilitation monitoring, detailed mine closure studies and final landuse assessments to be undertaken;
- government stakeholder expectations following any further consultation with government agencies;
- results of ongoing monitoring programs including ecological monitoring;
- research and development from relevant industry trials or site experiences; and
- long term sustainability in relation to both landform stability and ecosystem functionality.

7 REHABILITATION IMPLEMENTATION

7.1 Status at MOP Commencement

Austar rehabilitation activities have been progressively undertaken as opportunities became available during previous MOP terms. At the commencement of this MOP, there has been limited rehabilitation undertaken, as there has been limited land available to rehabilitate. Additional information regarding the rehabilitation to be undertaken will be included within future MOP documents for the site and are also briefly discussed in Section 7.2. The status of rehabilitation for each domain at the commencement of this MOP period is provided in Table 7-1.
Table 7-1 Rehabilitation Status at Commencement of MOP

<table>
<thead>
<tr>
<th>Domain</th>
<th>Rehabilitation Phase</th>
<th>Description of Rehabilitation Activities to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – Infrastructure</td>
<td>Active</td>
<td>Demolition of derelict site buildings has been undertaken at various former colliery sites. Several extant buildings and structures remain at former colliery sites which require heritage assessment and approvals prior to demolition.</td>
</tr>
<tr>
<td>2 – Tailings Storage Facilities &amp; Reject Emplacement Area</td>
<td>Active</td>
<td>East Open Cut, West Open Cut, and North-West Emplacement Area are active emplacements. Most of Aberdare Emplacement Area remain active.</td>
</tr>
<tr>
<td></td>
<td>Landform Establishment</td>
<td>Aberdare Extended Area: rehabilitation has involved the capping and revegetation of areas at the eastern and western ends of the emplacement and stabilising with open grassland.</td>
</tr>
<tr>
<td></td>
<td>Ecosystem Development</td>
<td>Area 12 emplacement area: has been mostly capped and sown to pasture and woodland, except for dirty water borehole infrastructure areas. Area 13 emplacement area has been capped and sown to pasture. Rehabilitation monitoring in both areas indicates there are areas in this phase that are self-sustaining, and weed management is required to progress this ecosystem further.</td>
</tr>
<tr>
<td>3 – Water Management Area</td>
<td>Active</td>
<td>N/A – operational areas to remain active during the MOP term.</td>
</tr>
<tr>
<td>5 – Stockpiled Material</td>
<td>Active</td>
<td>N/A – operational areas to remain active during the MOP term.</td>
</tr>
<tr>
<td>7 - Rehabilitation Area</td>
<td>Active</td>
<td>N/A – buffer land will not be rehabilitated during this MOP term.</td>
</tr>
<tr>
<td>8 - Underground Mining Area</td>
<td>Active</td>
<td>Subsidence remediation works undertaken as required. Only very minor road/dam outlet works undertaken in previous MOP terms.</td>
</tr>
</tbody>
</table>

7.2 Proposed Rehabilitation Activities during the MOP term

The following sections provide further information on the rehabilitation methodology for the MOP term at Austar. Disturbance and rehabilitation progression at Austar during the term of the MOP is provided in Table 7-2 in accordance with the MOP Guidelines (DRE, 2013).
### Table 7.2 Disturbance and Rehabilitation Progression during the Term of the MOP

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Disturbance Area (ha)</th>
<th>Total Rehabilitation Area (ha) (per MOP Year)</th>
<th>Cumulative Rehabilitation Area</th>
<th>Comments/Explanation (provide list of key changes)</th>
</tr>
</thead>
</table>
| Year 0 – 2019 (Start of MOP) | 137.94                      | 3.04                                        | 44.07                          | Total Disturbance area includes area of all domains shown on Plans 2A to 2I except for rehabilitated areas. Cumulative rehabilitation at Year 0 includes:  
  - Rehabilitated areas of Aberdare Extended Emplacement Area;  
  - Rehabilitated Reject Emplacement Areas 12 and 13; and  
  - Rehabilitated areas at the CHPP (Domain 7 on Pelton CHPP Plan 2B) |
| Year 1 – 2020  | 134.9                       | 3.43                                        | 47.5                           | Rehabilitation for 2020 includes staged rehabilitation of Aberdare Emplacement Area |
| Year 2 – 2021  | 130.7                       | 3.4                                         | 50.9                           | Rehabilitation for 2021 includes staged rehabilitation of Aberdare Emplacement Area |
| Year 3 – 2022  | 124.6                       | 6.5                                         | 57.4                           | Rehabilitation for 2022 includes staged rehabilitation of Aberdare Emplacement Area |
| Year 4 – 2023  | 118.7                       | 6.0                                         | 63.4                           | Rehabilitation for 2023 includes staged rehabilitation of Aberdare Emplacement Area |
| Year 5 – 2024  | 119.2                       | 0.0                                         | 63.4                           | No rehabilitation proposed for 2024. Increase to disturbance area due to tailings boreholes/access tracks |
| Year 6 – 2025  | 115.0                       | 4.2                                         | 67.6                           | Rehabilitation for 2025 includes staged rehabilitation of East Pit Emplacement Area |
| Year 7 – 2026  | 110.8                       | 4.55                                        | 72.15                          | Rehabilitation for 2026 includes staged rehabilitation of East Pit Emplacement Area |

* Total Disturbance Area includes areas of land which are within the following phases: Active and Decommissioning. Temporary rehabilitation is to be considered as an active mining area for the purposes of this table.

** Total Rehabilitation Area includes areas of land which are within the following phases: Landform Establishment and Growth Medium Development, Ecosystem and Land Use Establishment, and Ecosystem and Land Use Sustainability.

^ Landform establishment works include subsidence remediation however it is difficult to quantify this area noting that the remediation is minor and related to the filling of subsidence cracks.
The rehabilitation strategy during the MOP term has been designed to provide for progressive rehabilitation of the site. The strategy includes the following areas:

- **Infrastructure Area Domain:**
  - Kalingo Site;
  - Austar CHPP; and
  - Bellbird Colliery remains.

- **Tailings Storage Facilities and Reject Emplacement Area Domain:**
  - Aberdare Emplacement Area 12;
  - Aberdare Emplacement Area 13;
  - Reject emplacement, capping and vegetation establishment of Aberdare Extended Emplacement Area / West Pit Emplacement Area and East Pit Emplacement Area; and
  - North West Emplacement Area and No.9 Tailings Dam.

Details regarding the rehabilitation strategy within each of these areas are discussed below.

### 7.2.1 Infrastructure Area Domain

#### 7.2.1.1 Kalingo Site

Heritage items at the Kalingo site are in different states of disrepair. During the term, Austar Coal will continue consultation with Cessnock City Council heritage advisors and or the NSW Heritage Office (if required) regarding the future management or demolition of these buildings.

Operational features at the Kalingo Site include the Kalingo Dam, shafts and Nitrogen Plant, which will continue to be utilised during the MOP period.

#### 7.2.1.2 Pelton Colliery (CHPP Site)

Rehabilitation for existing heritage listed structures (such as the Pony Stables & Store) will depend on outcomes of consultation with CCC heritage advisors and or the NSW Heritage Office (if required) regarding the future management of these buildings (e.g. demolition).

Dependent upon the outcomes of the above, if the buildings are to be demolished, the area would be temporarily revegetated using a grass species mix. Ultimately, the area will be incorporated into the overall rehabilitation of the site at the time of mine closure.

#### 7.2.1.3 Bellbird Colliery

Situated within the vicinity of the Aberdare Emplacement Area 12 are some remnants of buildings associated with the former Bellbird Colliery. Austar’s intention is to demolish these buildings, remove rubbish and dumped vehicles from the surrounding area and rehabilitate the site. However, prior to any disturbance works further discussion with CCC and or the NSW Heritage Office (if required) must
occur to confirm Austar’s approach regarding the future management of these buildings (e.g. demolition).

7.2.2 Tailings Storage Facilities and Reject Emplacement Area Domain

7.2.2.1 Aberdare Emplacement Area 12

Aberdare emplacement Area 12 was rehabilitated by capping and revegetating with pasture and grasses, apart from a stockpile of capping material which may be used for other rehabilitation works. Maintenance of the rehabilitation area will occur as required during the MOP period.

7.2.2.2 Aberdare Emplacement Area 13

The Aberdare Area 13 emplacement area has been mostly rehabilitated. Austar has identified a significant sinkhole in this area which captures a 340 Ha catchment, sending runoff to underground workings. This is a legacy of previous operations. Austar is investigating sinkhole remediation methods, and will continue working with relevant authorities to manage this area during the MOP term. Rehabilitation maintenance, such as weed management, will be undertaken as required during the MOP period.

7.2.2.3 Aberdare, East Pit and West Pit Emplacement Areas

Rehabilitation activities during the MOP term for the Aberdare Extended Emplacement Area and East Pit Emplacement Area are shown in Plans 3B and 3C. As a guide, the Aberdare Emplacement will be filled with coarse reject, capped and rehabilitated first, followed by the East Pit Emplacement. West Pit Emplacement will be utilised further in future MOP terms.

The overall rehabilitation strategy for the Aberdare Emplacement Area is provided below. The strategy for West Pit and East Pit Emplacement Areas will broadly be undertaken in accordance with the Aberdare Emplacement Area Strategy and will be refined to suit the East Pit and West Pit Emplacement Areas, as required. The strategy includes the following:

- continued emplacement of coarse reject material, compacted in layers in accordance with the final landform design height;
- confirmation of sub-surface drainage mechanism to convey acid-leachate to the former underground workings;
- application of lime to the coarse reject surface at a rate of 20t/ha prior to capping;
- capping the area with inert material. The inert material is primarily sourced from old open cut overburden stockpiles and will be compacted in layers. The thickness of capping will be a minimum of 1m. The thickness may be refined based on updated estimates for overall reject emplacement, capping requirements for all emplacement areas and additional research into acid leachate and combustion potential to be completed early in the MOP term, as described in Section 8.2.1. The cap thickness includes both the compacted capping layer and the growth media (ripped ameliorated material) in the upper cap layer;
- reshaping the surface to be free draining and establishing appropriate final drainage network to convey surface water runoff and prevent water ponding over the area. Light ripping will be undertaken to promote plant growth in the top layer of the cap; and
- progressively revegetating the areas to open grassland.

For the Aberdare Emplacement Area, there is an agreement in place with the private landowner to return this area to grassland.

As part of the rehabilitation process, representative soil samples are taken to characterise the nature of the capping material (e.g. pH, Cation Exchange Capacity, acid-generating potential) to determine the potential limitations to rehabilitation and sustainable plant growth. Soil testing results indicate that soil ameliorants (e.g. lime and gypsum) are required, they will be applied to the surface of the cap material. Where no topsoil is available, an organic ameliorant (e.g. compost) will be added to the cap surface to establish a suitable growth medium if required. Calculations have been undertaken to confirm that sufficient capping material is available in the West Pit to cap the Aberdare Emplacement Area, East Pit Emplacement Area and West Pit Emplacement Area. Should any additional approved reject emplacement areas be utilised during the MOP term, material will be stripped and stockpiled from these areas prior to emplacement, for later reuse as capping material.

Reject emplacement areas will be progressively rehabilitated in accordance with regulatory requirements. A site-specific Erosion and Sediment Control Plan has been developed for the Aberdare Emplacement Area. Erosion and Sediment will be managed under the approved site water management plan for East and West Pits. A conceptual cross-section of the rehabilitation of the Aberdare Extended Emplacement Area is provided as Plan 5.

### 7.2.2.4 North-West Emplacement Area

The North-West Emplacement Area is an approved emplacement area comprised predominantly of dry tailings and coarse reject material from older mining operations. It also includes a noise bund installed as part of a noise pollution program as directed by the Environment Protection Authority. It has been identified that dependent upon market availability, the reject material contains a sufficient energy value that could warrant either re-processing on site for blending with product coal or direct sale as an energy coal. During previous MOP terms, some material has been blended with product coal. Austar will continue this process where possible. Alternatively, the material may be removed and emplaced in old underground workings or in approved emplacement areas.

Utilisation of this material may involve the transport of material off site by trucks (e.g. direct to thermal power station or as a blending product to other collieries). Austar has approval to transport up to 60,000 tonnes per year of coal product by road.

There will be no rehabilitation activities undertaken at the North-West Emplacement Area other than potential material removal during the MOP term.

### 7.2.2.5 No.9 Tailings Dam

The No. 9 tailings dam (see Plan 2B) has been identified as another area on site that contains suitable material that could be re-processed on site and blended with the product coal or transported offsite. Reuse of this material will be dependent upon market availability. The material will be capped in-situ and rehabilitated or removed and emplaced in old underground workings or emplacement areas. Parts of this area may be rehabilitated during the MOP term.
7.3 Summary of Rehabilitation Areas during the MOP Term

Table 7-3 provides data on the rehabilitation area (ha) at the commencement and the end of the MOP for each of the site domains based on the rehabilitation phase status.
### Table 7-3 Rehabilitation Data for Primary and Secondary Domain at the Commencement and End of the MOP Period

<table>
<thead>
<tr>
<th>Primary Domain</th>
<th>Secondary Domain</th>
<th>Rehabilitation Phase</th>
<th>Area at Start of the MOP (ha)</th>
<th>Area at End of the MOP (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – Infrastructure</td>
<td>Grassland / Forest</td>
<td>Active</td>
<td>40.9</td>
<td>42.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
<td>0</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>40.9</strong></td>
<td><strong>42.65</strong></td>
<td></td>
</tr>
<tr>
<td>2 – Tailings Storage Facilities &amp; Reject Emplacement Area</td>
<td>Grassland</td>
<td>Active</td>
<td>59.4</td>
<td>31.94</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
<td>25.2</td>
<td>52.7</td>
</tr>
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<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>84.6</strong></td>
<td><strong>84.65</strong></td>
<td></td>
</tr>
<tr>
<td>3 – Water Management Area</td>
<td>Water Management Area</td>
<td>Active</td>
<td>21.8</td>
<td>21.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
<td>0</td>
<td>0</td>
</tr>
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<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>21.8</strong></td>
<td><strong>21.8</strong></td>
<td></td>
</tr>
<tr>
<td>Primary Domain</td>
<td>Secondary Domain</td>
<td>Rehabilitation Phase</td>
<td>Area at Start of the MOP (ha)</td>
<td>Area at End of the MOP (ha)</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>5 – Stockpiled Material</td>
<td>Forest</td>
<td>Active</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>7 Rehabilitation Area</td>
<td>Grassland</td>
<td>Active</td>
<td>18.9</td>
<td>18.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
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<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>18.9</strong></td>
<td><strong>18.9</strong></td>
</tr>
<tr>
<td>8 Underground Mining Areas</td>
<td>Pasture / Forest</td>
<td>Active</td>
<td>1,663</td>
<td>1,663</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decommissioning</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landform Establishment</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Medium Development</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Establishment</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem and Land Use Sustainability</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relinquished Lands</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total Area</strong></td>
<td><strong>1,663</strong></td>
<td><strong>1,663</strong></td>
</tr>
</tbody>
</table>

Note 1: The data in this table corresponds to the information provided in the Rehabilitation Plans 3B and 3C.

Note 2: The area included within this table for Domain 8 represents the approximate mining area for the MOP term, i.e. Stage 3 mining area and Bellbird South Mining Area, based on an estimate of the 20 mm subsidence extent (refer to Plan 3A). Not all of Stage 3 or Bellbird South is proposed to be mined during the MOP term and therefore the ‘Active’ mining area is overstated.
Note 3: For the purposes of this rehabilitation table, the entirety of Emplacement Areas 12 and 13 and the rehabilitated sections of Aberdare Emplacement Area are within the Ecosystem and Land Use Establishment Phase at MOP commencement. Refer to Section 7.2.2 for details.

Note 4: Active reject emplacement areas at the end of the MOP term (2026) are the East Pit, North west Emplacement Area, the No.9 tailings dam and the West Pit (refer to Plan 2B).

Note 5: Following the completion of emplacement within the Aberdare Extended, East Pit and West Pit Emplacement Areas, a further approved reject emplacement area will be utilised (refer to Figure 2.1).
7.4 Relinquishment Phase Achieved During the MOP Period

During the MOP period, there will be no domains that will be in the relinquishment rehabilitation phase as per the MOP Guidelines (DRE, 2013).

8 REHABILITATION MONITORING AND RESEARCH

8.1 Rehabilitation Monitoring

Rehabilitation monitoring will be undertaken during the MOP term. Any subsidence remediation works completed over the underground mining area will require monitoring in accordance with the relevant Extraction Plan requirements. The reject emplacement areas, where rehabilitation is grassland, will be monitored on an annual basis until it is deemed self-sustaining and no longer requires management.

Monitoring of completed rehabilitation at the reject emplacement areas will include visual inspections and photo monitoring and will focus on the following:

- soil conditions and erosion;
- drainage and sediment control structures;
- germination rates/ ground cover rates (5m x 5m monitoring area);
- weed and feral pest infestation; and
- general condition.

Monitoring events will identify any maintenance actions required, whether assistance is required to achieve target native vegetation communities, and will target issues such as progression of revegetation/regeneration and the need for targeted management strategies such as weed control or pest fauna management.

For forest rehabilitation areas, to monitor new criteria such as percentage canopy, understorey and groundcover, it is proposed that plot and transect surveys are undertaken in general accordance with current BioBanking survey methodology (BBAM) (OEH 2014) and photo point monitoring to confirm progression towards the revegetation criteria described in Table 6.1.

Forest area rehabilitation monitoring locations will involve the establishment of a 20 x 20 metre plot and a 50 metre transect.

It is envisaged that the refinement of the monitoring program will occur as part of subsequent reviews of the MOP that are submitted to DRG. The gradual achievement (or otherwise) of the completion criteria will be assessed and discussed in the Annual Review, which will include the identification of instances where criteria is not met, and measures taken to address any such issue. Where necessary, rehabilitation procedures will be amended accordingly with the aim of continually improving rehabilitation standards.
Monitoring within rehabilitation areas will be undertaken until it can be demonstrated that rehabilitation has satisfied the completion criteria.

8.2 Research and Rehabilitation Trials and Use of Analogue Sites

8.2.1 Rehabilitation Trials

The Aberdare Extended Reject Emplacement Area will be the first coarse reject emplacement area to be rehabilitated and will be used to refine emplacement and rehabilitation requirements at the East Pit and West Pit reject emplacement areas, as part of rehabilitation works. These areas have been selected as they directly drain to former underground workings providing a suitable long term control for leachate from the emplaced reject.

Aberdare Extended Reject Emplacement Area is to be rehabilitated as future open space (grassland) under agreement with the private landholder. This process is described in Section 7.2.2.3.

Two geotechnical studies have commenced on the Aberdare emplacement area to better understand the effectiveness of the capping to minimise risks posed by acid mine drainage and combustion of rejects.

The first study looked at compaction of coarse rejects to manage the risk of spontaneous combustion and minimise runoff through the reject emplacement area. This study was incorporated into the reject emplacement area operations procedure to ensure adequate reject compaction is achieved.

Another study is currently assessing current capping material to reduce the risks posed by water seepage and potential combustion. This study indicates that the risk of combustion in the rehabilitated reject emplacement area may be low. Upon completion of this work, further studies on future capping material will assess permeability and compaction effectiveness. These studies will be undertaken in the next MOP term, and will further inform the depth and compaction rate of future capping.

8.2.2 Use of Analogue Sites

Existing ecological monitoring information from the Austar Biodiversity Monitoring Program has been utilised to develop the vegetation composition criteria provided in Section 6 relating to the Stage 3 mining area and Kitchener Surface Infrastructure Site. The criteria for other areas will be refined over time as more data becomes available and as final land uses for the various sites are confirmed, during the detailed closure planning phase for the site.

9 INTERVENTION AND ADAPTIVE MANAGEMENT

9.1 Threats to Rehabilitation

All rehabilitation activities will be undertaken as soon as practicable following the progressive completion of rehabilitation phases identified for the site. The issues and risks that may impact upon the ability of Austar to achieve their rehabilitation goals successfully, and where they are addressed within this document, are outlined in Table 9-2.
The management techniques utilised to avoid these potential threats to the success of rehabilitation from occurring are detailed in Table 9-2. Actions to be undertaken should these threats occur are detailed in Section 9.2.

**Table 9-1 Threats to Rehabilitation**

<table>
<thead>
<tr>
<th>Issue/Risk</th>
<th>Section of this MOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion / poor water quality from rehabilitation areas.</td>
<td>3.2.1.5</td>
</tr>
<tr>
<td>Failure to meet criteria for each rehabilitation phase.</td>
<td>9.2, 3.2.1</td>
</tr>
<tr>
<td>Weed infestation threatening rehabilitation success.</td>
<td>3.2.1.7</td>
</tr>
<tr>
<td>Damage to rehabilitation by animals.</td>
<td>3.2.1.7</td>
</tr>
<tr>
<td>Growth medium not acceptable for rehabilitation requirements.</td>
<td>7.2.2</td>
</tr>
<tr>
<td>Final landform instability resulting in poor water quality, exposed materials such as carbonaceous or Potentially Acid Forming Materials.</td>
<td>3.2.1.3</td>
</tr>
<tr>
<td>Capping material not suitable for rehabilitation.</td>
<td>7.2.2</td>
</tr>
<tr>
<td>Rehabilitation not completed in accordance with rehabilitation goals and objectives</td>
<td>9.2</td>
</tr>
<tr>
<td>Spontaneous combustion of rehabilitation area</td>
<td>3.2.1.2</td>
</tr>
</tbody>
</table>

**9.2 Trigger Action Response Plan**

The rehabilitation monitoring program as outlined in Section 8 will be used to identify any maintenance actions required and whether further works are required to achieve the specific closure criteria (refer to Table 6-1). The rehabilitation care and maintenance program will be undertaken following the completion of rehabilitation activities at the site, and will be utilised to manage the rehabilitation undertaken on the site and facilitate its progression towards relinquishment.

Table 9-2 details the proposed containment and remediation actions based on the medium or high level risks relating to rehabilitation identified through the environmental risk assessment process described in Section 3.2. Further details on the proposed environmental management measures utilised by Austar are provided in Section 3.2.
**Table 9-2 Trigger Action Response Plan**

<table>
<thead>
<tr>
<th>Trigger</th>
<th>Containment Action</th>
<th>Remediation Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Materials (asbestos) inappropriately removed during demolition of heritage structures, leading to soil contamination and/or health impact</td>
<td>Undertake monitoring / engage specialist to understand extent of the impact. Install public safety management measures as required to minimise risk of harm.</td>
<td>Implement corrective actions as necessary based on outcomes of specialist reports. RemEDIATE soils and validate to minimise potential for harm.</td>
</tr>
<tr>
<td>Landform not in accordance with DRG requirements (i.e. not within criteria identified in Table 6-1 including capping material depth)</td>
<td>Undertake survey of areas of concern to determine areas that do not meet requirements.</td>
<td>Monitor areas to assess performance. If rehabilitation performance is inadequate, undertake reshaping works and reseeding of the amended landform, utilising target species for the proposed final land use.</td>
</tr>
<tr>
<td>Erosion / poor water quality from rehabilitation areas (in excess of target criteria identified in Table 6-1).</td>
<td>Install appropriate erosion and sedimentation controls such as sediment fences or similar</td>
<td>Regrade and stabilise with target species for proposed final land use. Check (and repair if required) adequate drainage to underground workings to minimise runoff</td>
</tr>
<tr>
<td>Lack of vegetation establishment or dieback of rehabilitated areas resulting in inability to meet vegetation criteria targets specified in Table 6-1.</td>
<td>Undertake soil chemistry monitoring of target area to determine if growth medium is appropriate for vegetation establishment.</td>
<td>Apply ameliorants as required based on results of laboratory testing and re-seed utilising appropriate species as per target final land use</td>
</tr>
<tr>
<td>Weed infestation threatening rehabilitation success (weeds in excess of identified criteria level (refer to Table 6-1).</td>
<td>Undertake monitoring to understand weed location and abundance.</td>
<td>Implement weed management actions as required. Re-seed utilising appropriate species as per target final land use where necessary.</td>
</tr>
<tr>
<td>Significant damage to rehabilitation areas by feral animals, resulting in inability to meet vegetation criteria targets specified in Table 6-1</td>
<td>Undertake monitoring to understand potential feral animal habitat location and abundance</td>
<td>Implement feral management actions as required. Re-seed utilising appropriate species as per target final land use where necessary.</td>
</tr>
<tr>
<td>Acid leachate identified from rehabilitated reject emplacement areas, potentially resulting in offsite water impact and/or dieback of revegetation, resulting in inability to meet vegetation criteria targets specified in Table 6-1</td>
<td>Undertake soil / water chemistry monitoring and landform / drainage investigation of target area to determine the source of the issue. Install containment measures to minimise risk</td>
<td>Amend landform to remediate issue, as informed by containment investigations. Undertake water / soil testing post completion of corrective actions to confirm adequacy of remediation.</td>
</tr>
<tr>
<td>Trigger</td>
<td>Containment Action</td>
<td>Remediation Action</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td></td>
<td>associated with potential offsite impact.</td>
<td>Re-seed utilising appropriate species as per target final land use (where required).</td>
</tr>
<tr>
<td>Spontaneous combustion of rehabilitation area</td>
<td>Undertake monitoring to understand nature and extent of the event</td>
<td>Amend landform to remediate issue, as informed by containment investigations. Implement corrective actions as necessary in accordance with Spontaneous Combustion Management Plan</td>
</tr>
</tbody>
</table>

The rehabilitation monitoring / inspection program will be continued as required until it can be demonstrated that the rehabilitation has satisfied the closure criteria.

In addition to the annual monitoring program, routine site inspections are also conducted monthly by Austar environmental personnel. Mining personnel also conduct inspections of the site which also include rehabilitation areas and inspections of subsidence repairs undertaken. If issues are identified during this inspection process, the Environment and Community Superintendent is advised and corrective actions are implemented as required.

10 REPORTING

During the MOP period, an Annual Review will be completed in accordance with Project Approval 08_0111, Development Consent DA29/95 and relevant mining authorisation conditions. The Annual Review will be completed to satisfy DP&E and DRG requirements and will detail activities undertaken during the report period that support progression towards the final land use. The AR will include:

- summary of operations and rehabilitation undertaken during the report period;
- monitoring results against key performance indicators,
- summary of complaints and incidents during the report period;
- analysis of all monitoring results;
- key trends in monitoring results;
- non-compliances; and
- any other environmental aspects required by DRG.

Austar also maintains a website which provides updates on the operations status and environmental monitoring program results.
11 REVIEW AND IMPLEMENTATION OF THE MOP

11.1 Review of the MOP

Ongoing monitoring and review on the performance and implementation of this MOP will be undertaken in accordance with the Austar Environmental Management Strategy.

The Environment and Community Superintendent (or delegate) will review and if necessary, revise the MOP and resubmit to DRG at the conclusion of the specified MOP term or following any changes to the current operational conditions on site. Any changes made to the MOP as a result of the review will be made in accordance with the current MOP guidelines.

11.2 MOP Implementation

Those responsible for the implementation and ongoing management of this MOP are identified in Table 11-1.

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Operations Manager</td>
<td>Mine operations and the environmental performance of the Austar Coal Mine in accordance with mining lease conditions, including the outcomes of the MOP.</td>
</tr>
<tr>
<td>CHPP Manager</td>
<td>CHPP operations including coal handling and processing, reject emplacement, tailings management, water treatment plant.</td>
</tr>
<tr>
<td>Environment &amp; Community Superintendent</td>
<td>Prepare, review and revise the MOP document where necessary. Rehabilitation activities on reject emplacement areas. Monitoring and reporting of progress against MOP in Annual Review.</td>
</tr>
</tbody>
</table>
12 REFERENCES


Umwelt (Australia) Pty Limited, (2017) LWB4-B7 Modification Environmental Assessment Austar Coal Mine.


Office of Environment and Heritage (OEH) (2014) BioBanking Assessment Methodology, September 2014


Austar Coal Mine (June 2018). Aboriginal Cultural Heritage Management Plan.


Austar Coal Mine Spontaneous Combustion Management Plan

AECOM Australia Pty Ltd June 2013. Landscape Management Plan – Kitchener SIS.
Appendix 1:
Schedule of Lands
<table>
<thead>
<tr>
<th>Lot/Section/DP</th>
<th>Ownership</th>
</tr>
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Appendix 1_Schedule of Lands
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Appendix 2:
Species List
## Appendix 2 – Species List

### Species List for Grassland / Pasture Rehabilitation Areas

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<th>Species</th>
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<td>Japanese Millet (summer cover crop)</td>
<td>Haifa Clover</td>
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<tr>
<td>Coolabah Oats (winter cover crop)</td>
<td>Wimmera Rye</td>
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<tr>
<td>Couch</td>
<td>Perennial Rye</td>
</tr>
<tr>
<td>Kikuyu</td>
<td>Green Panic</td>
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<tr>
<td>Lucerne</td>
<td>Phalaris</td>
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### Species List for Forest Areas

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<td>Cabbage gum</td>
<td><em>Eucalyptus amplifolia subsp. amplifolia</em></td>
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<td>Large-fruited grey gum</td>
<td><em>Eucalyptus canaliculata</em></td>
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<tr>
<td>Narrow-leaved ironbark</td>
<td><em>Eucalyptus crebra</em></td>
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<tr>
<td>Thin-leaved stringybark</td>
<td><em>Eucalyptus eugenioides</em></td>
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<td>Broad-leaved ironbark</td>
<td><em>Eucalyptus fibrosa</em></td>
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<td>Grey box</td>
<td><em>Eucalyptus moluccana</em></td>
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<td>Forest red gum</td>
<td><em>Eucalyptus tereticornis</em></td>
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<td>Turpentine</td>
<td><em>Syncarpia glomulifera subsp. glomulifera</em></td>
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<td><strong>Shrub Stratum</strong></td>
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<td>Silver-stemmed wattle</td>
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<td>Blackthorn</td>
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<td>Broom bitter pea</td>
<td><em>Daviesia genistifolia</em></td>
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<td>Gorse Bitter Pea</td>
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<td><em>Hardenbergia violacea</em></td>
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<td><em>Themeda australis</em></td>
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### Species List for Temporary Stabilisation (Construction Areas at Kitchener SIS)

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MOP Plans