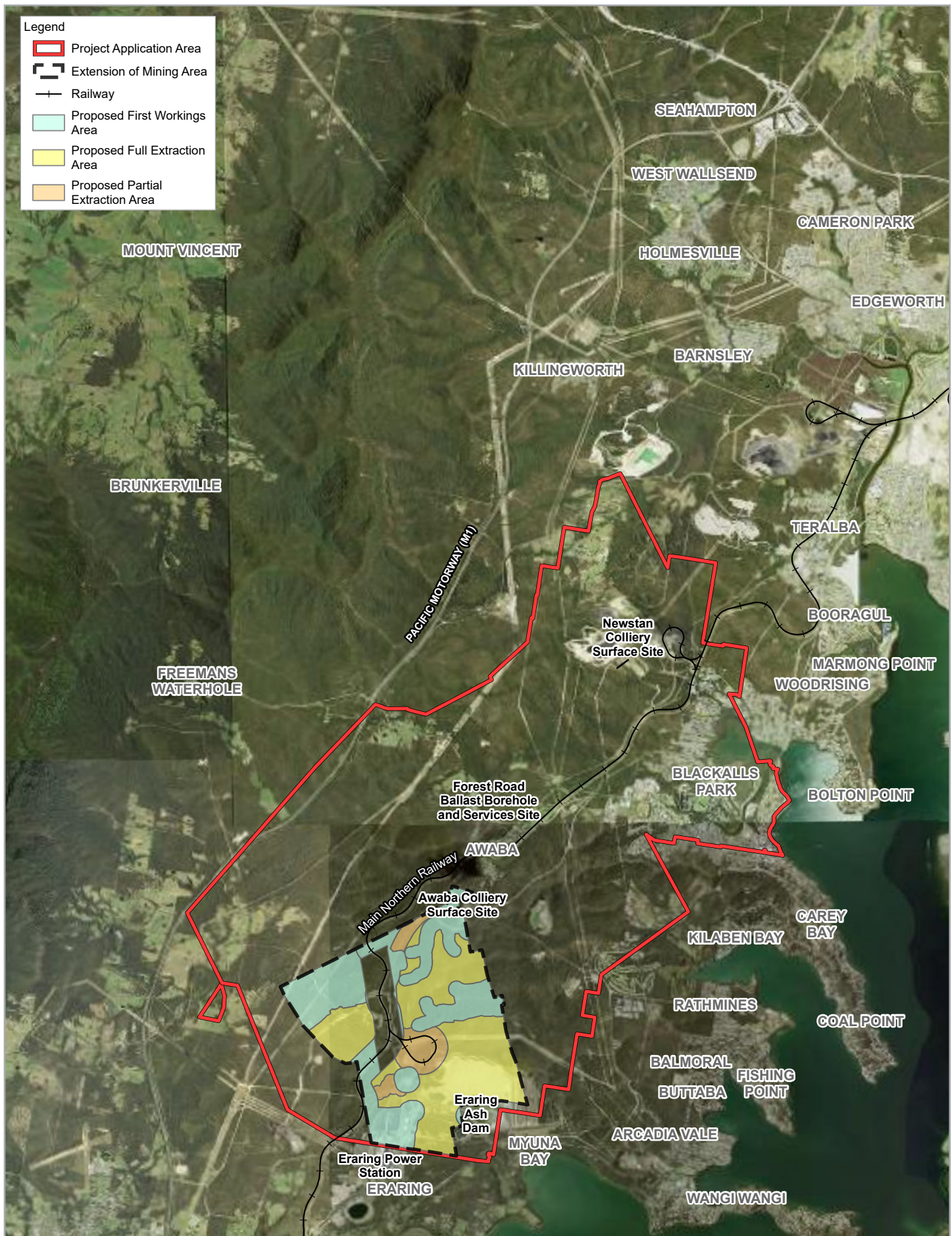


Appendix C – Detailed maps and plans



Legend

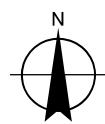
- Project Application Area
- Extension of Mining Area
- Railway
- Proposed First Workings Area
- Proposed Full Extraction Area
- Proposed Partial Extraction Area

Paper Size ISO A4

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Kilometres

Map Projection: Transverse Mercator
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Grid: GDA 1994 MGA Zone 56

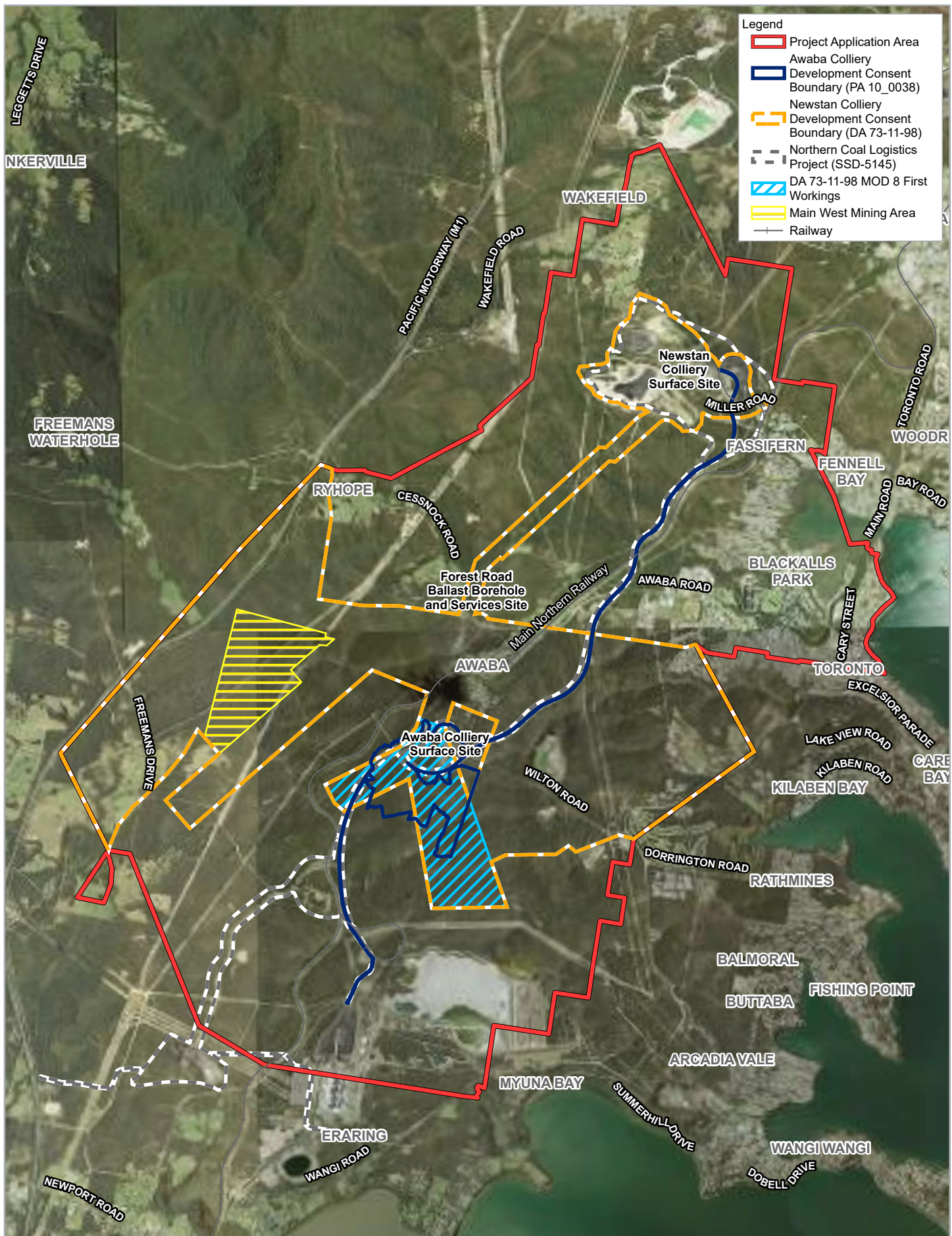


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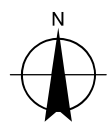
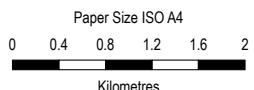
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Conceptual project layout

Figure 1-1



- Legend**
- Project Application Area
 - Awaba Colliery
 - Development Consent Boundary (PA 10_0038)
 - Newstan Colliery
 - Development Consent Boundary (DA 73-11-98)
 - Northern Coal Logistics Project (SSD-5145)
 - DA 73-11-98 MOD 8 First Workings
 - Main West Mining Area
 - Railway



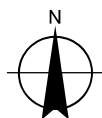
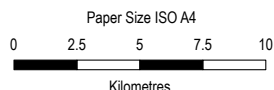
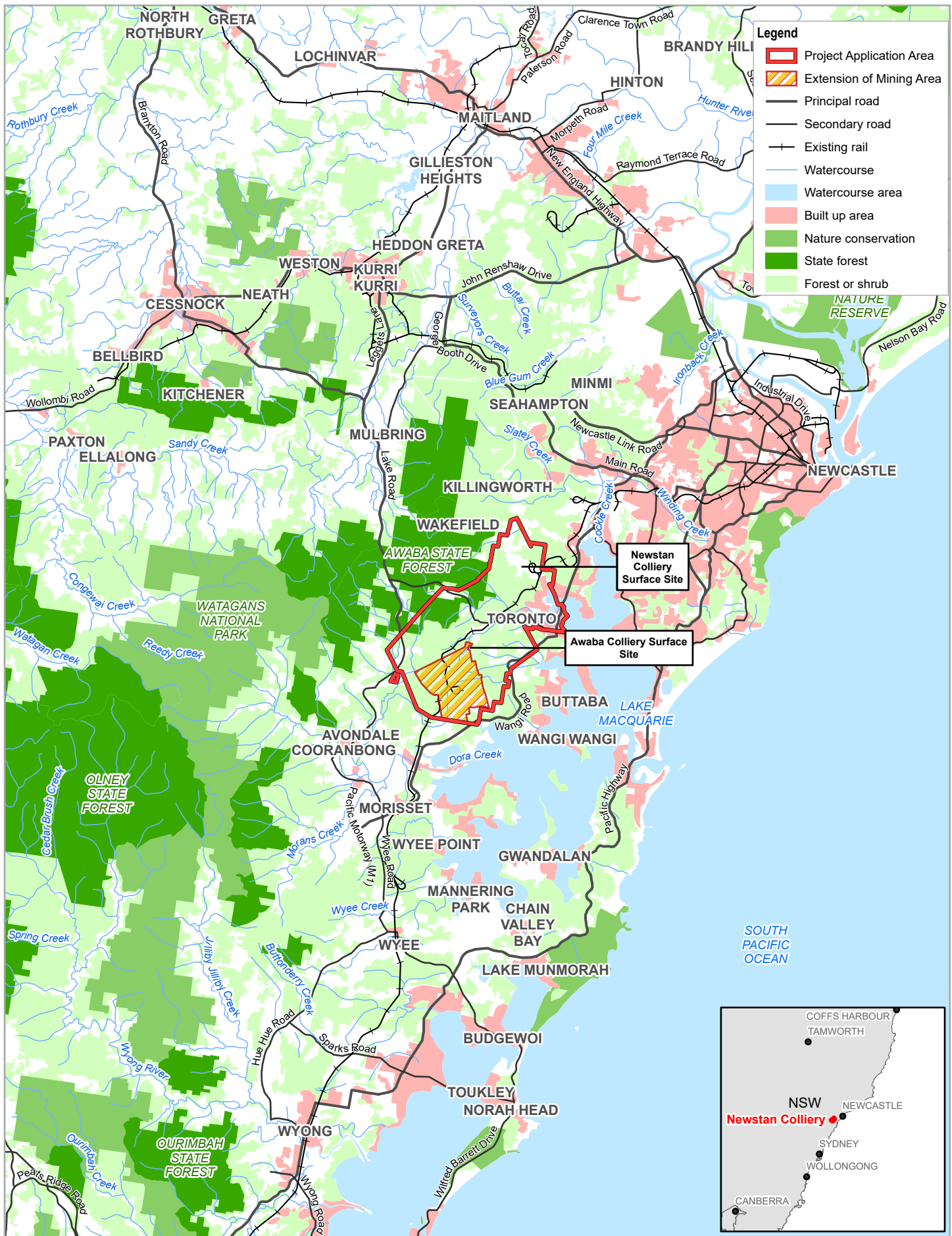
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Approved operations

Figure 1-2



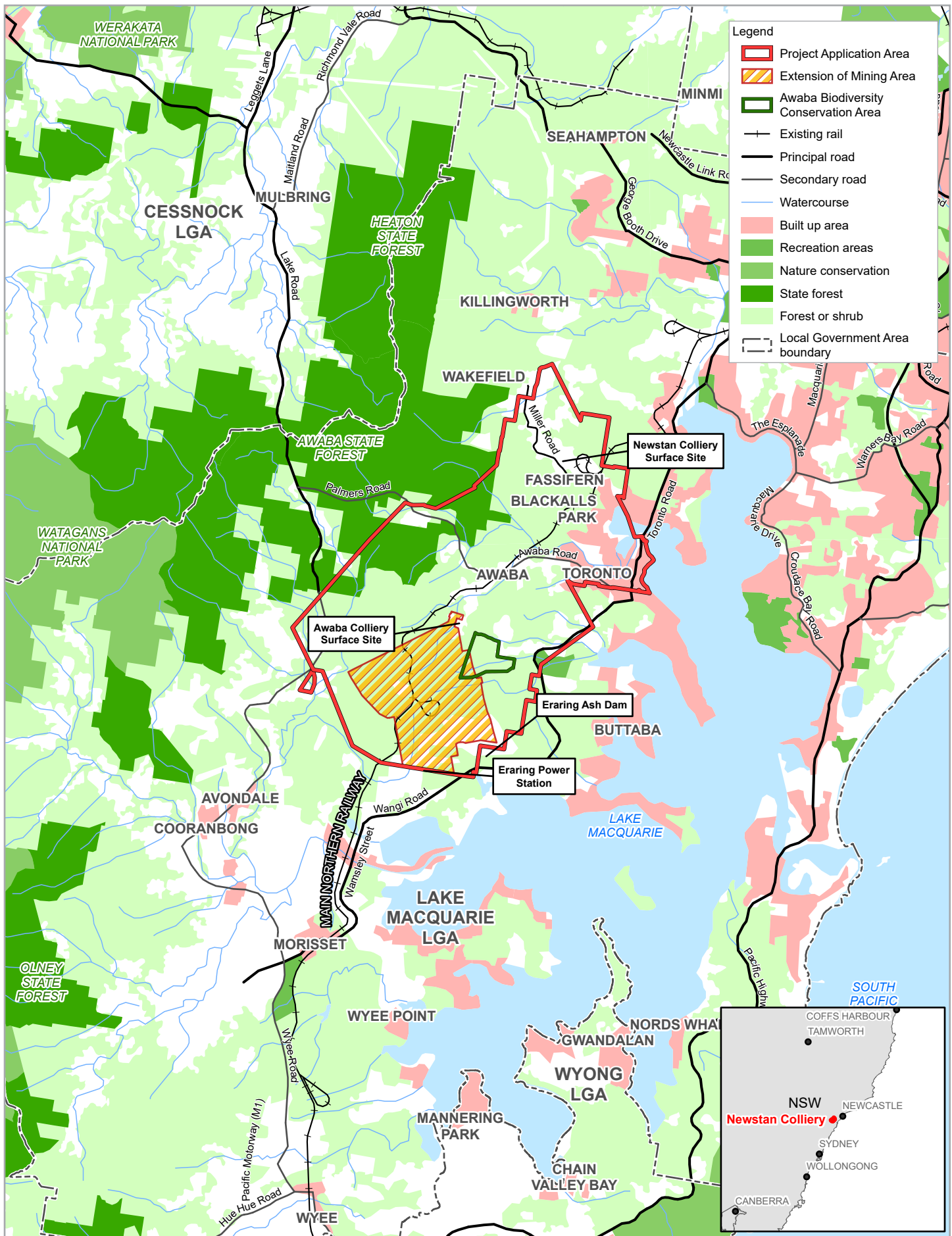
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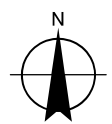
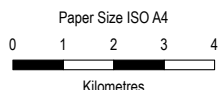
Local setting

Figure 2-1



Legend

- Project Application Area
- Extension of Mining Area
- Awaba Biodiversity Conservation Area
- Existing rail
- Principal road
- Secondary road
- Watercourse
- Built up area
- Recreation areas
- Nature conservation
- State forest
- Forest or shrub
- Local Government Area boundary



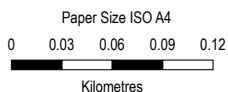
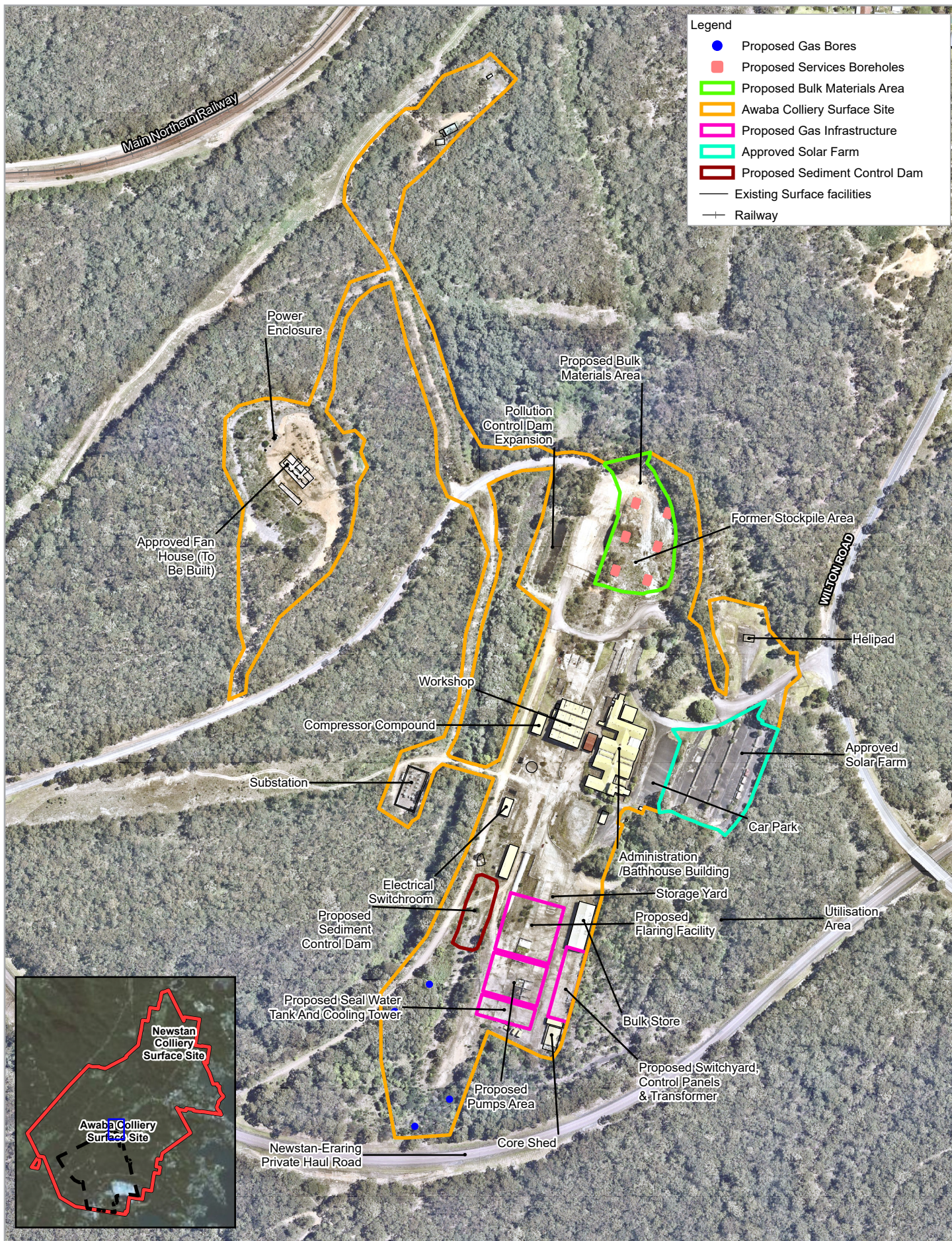
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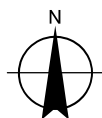
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Regional setting

Figure 2-2



Map Projection: Transverse Mercator
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
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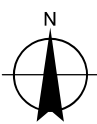
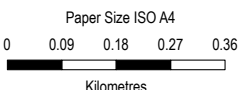
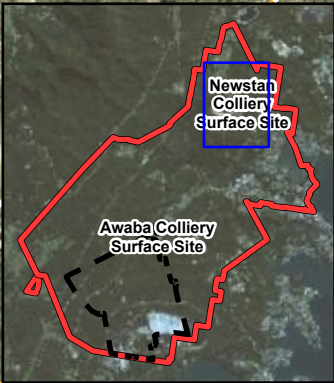
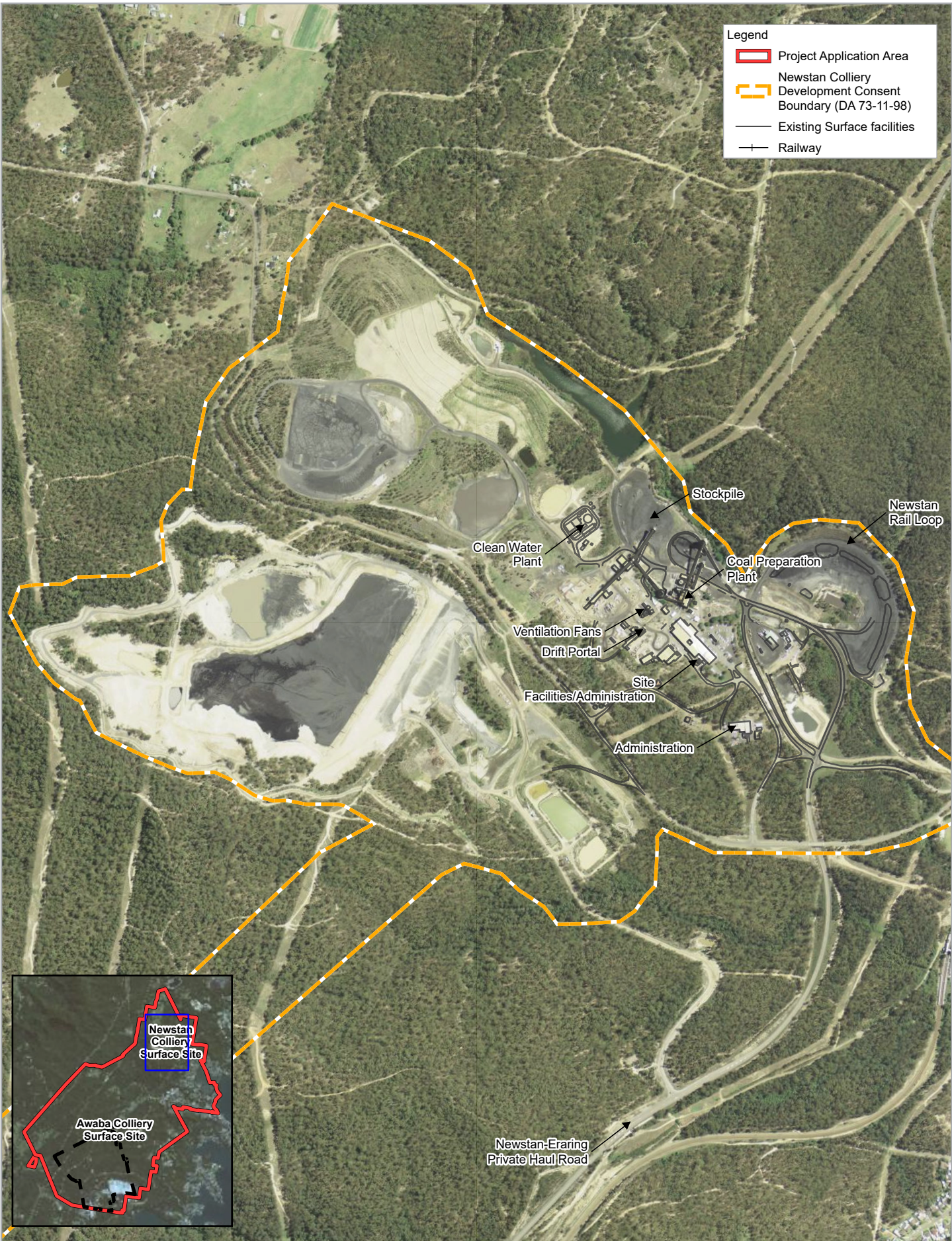
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**Conceptual surface facilities layout
 Awaba Colliery Surface Site**

Figure 2-3

Legend

-  Project Application Area
-  Newstan Colliery Development Consent Boundary (DA 73-11-98)
-  Existing Surface facilities
-  Railway



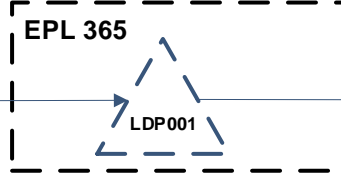
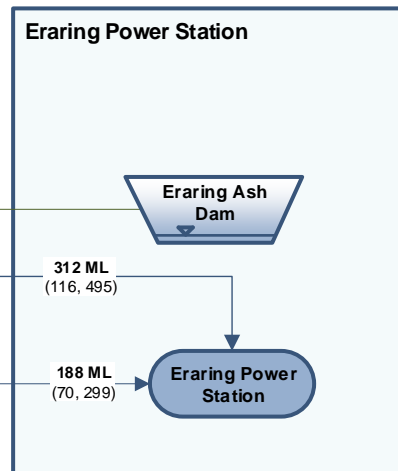
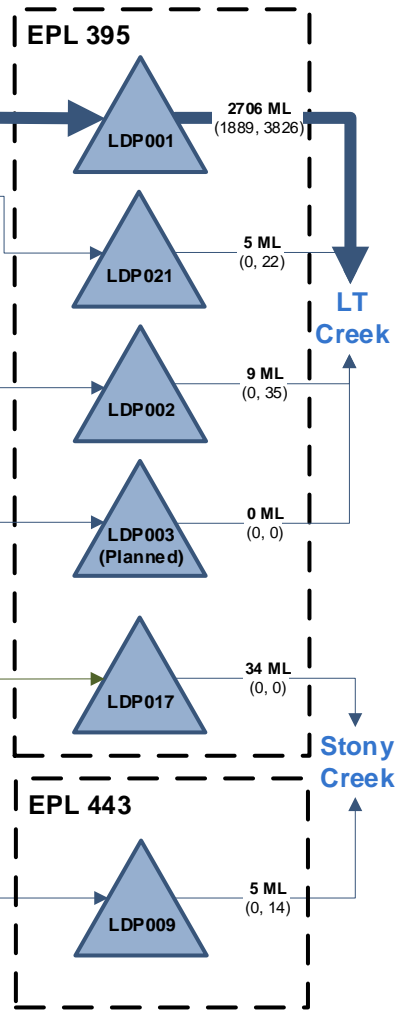
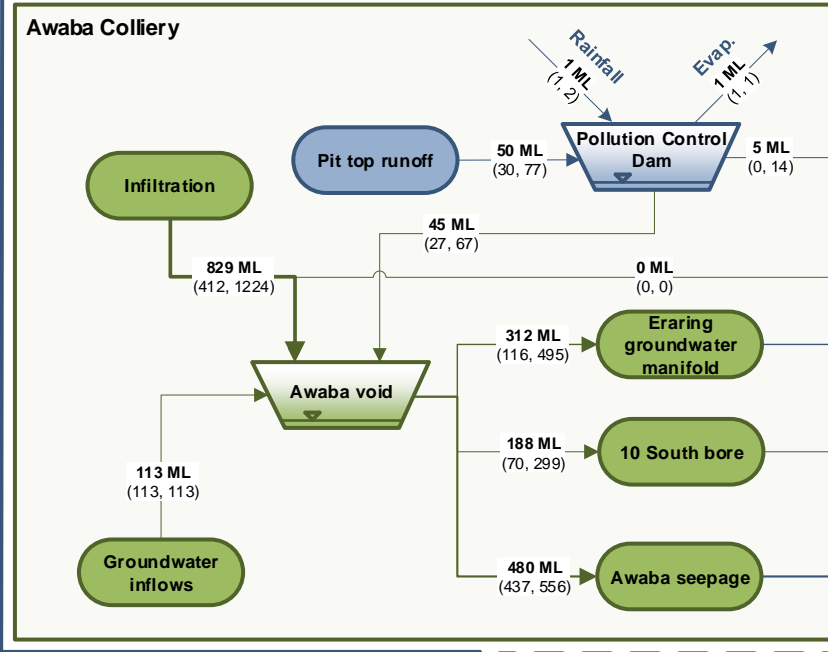
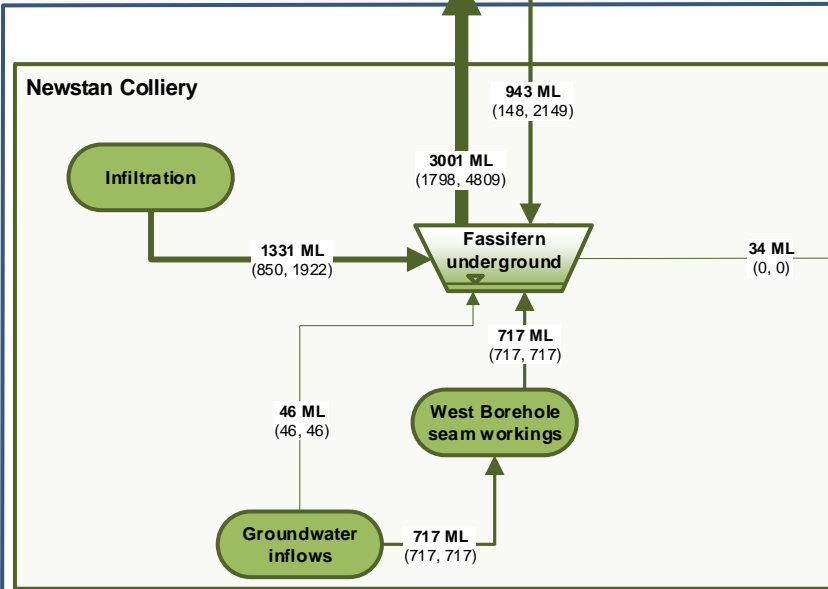
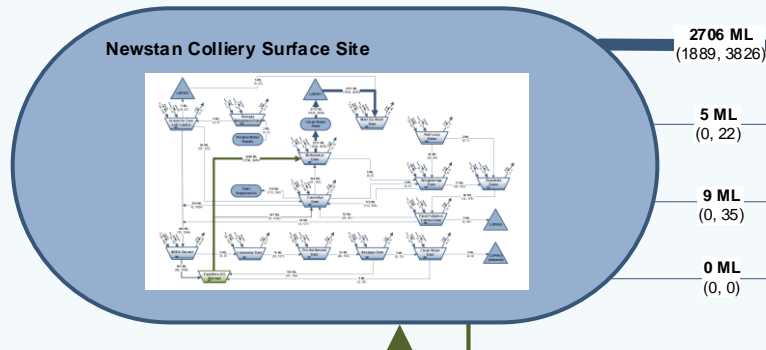
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Conceptual surface facilities layout
Newstan Colliery Surface Site

Figure 2-4

Northern Coal Logistics Project



Hawkmount Quarry

Cooranbong Entry site

Muddy Lake

Legend

- Underground storage
- Underground process
- Surface storage
- Surface process
- Licensed discharge point
- Groundwater flow
- Surface water flow



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Conceptual water management system
 Annual water transfers

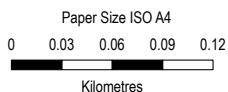
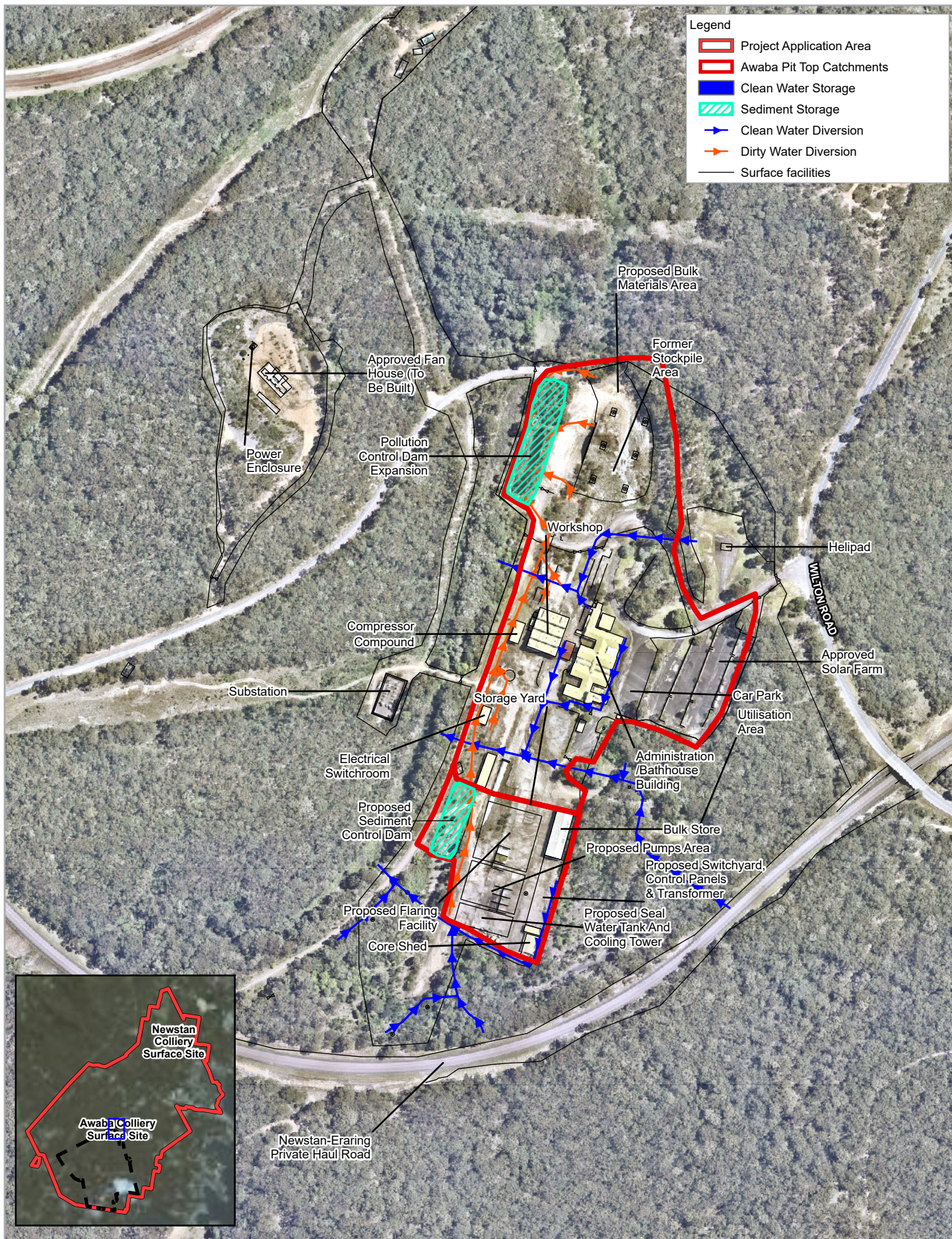
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FIGURE 2-5

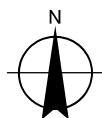
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Created by: Tyler Tinkler



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 56

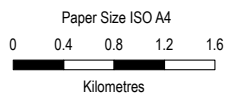
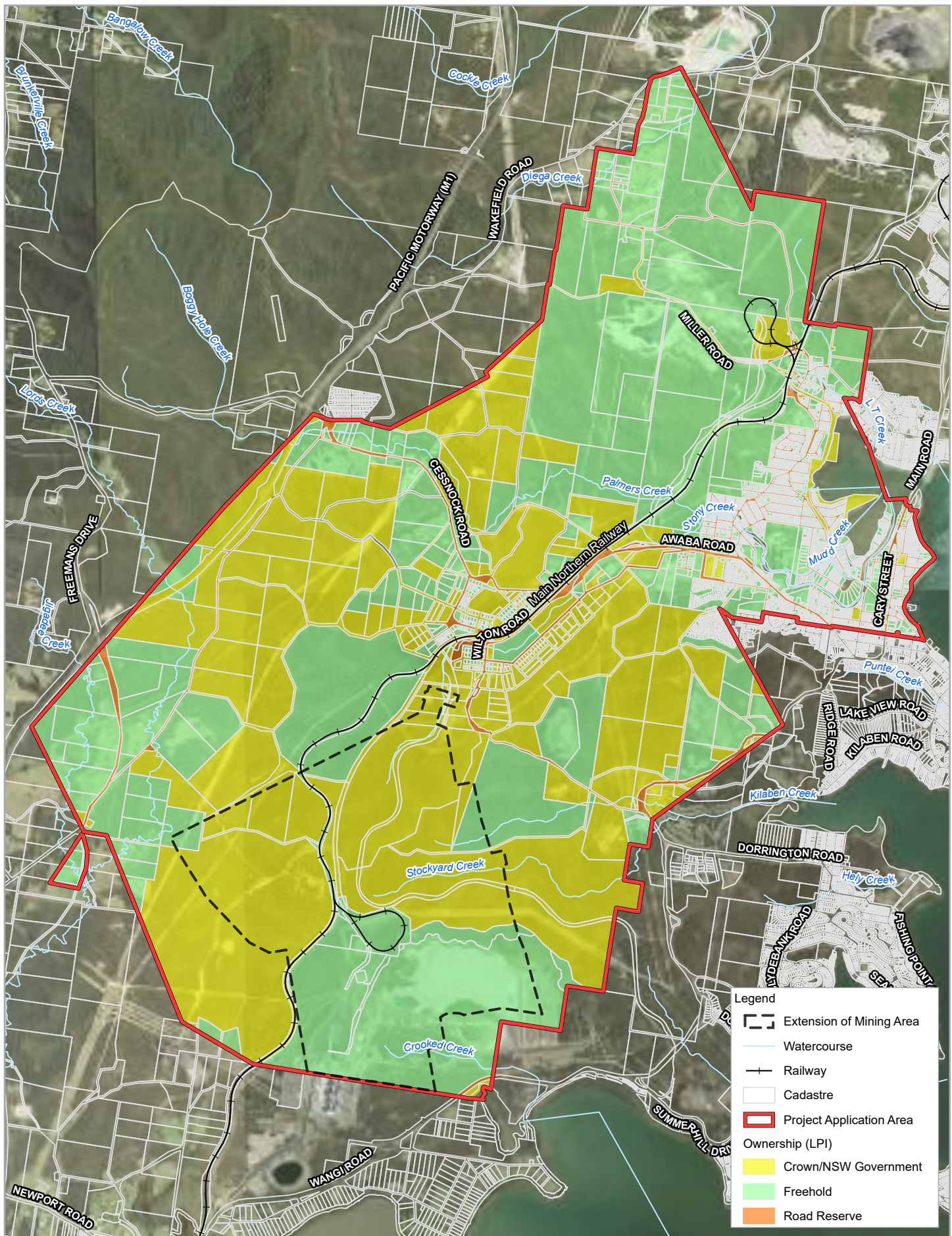


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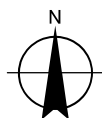
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**Proposed water management at
 Awaba Colliery Surface Site**

Figure 2-6



Map Projection: Transverse Mercator
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 Grid: GDA 1994 MGA Zone 56

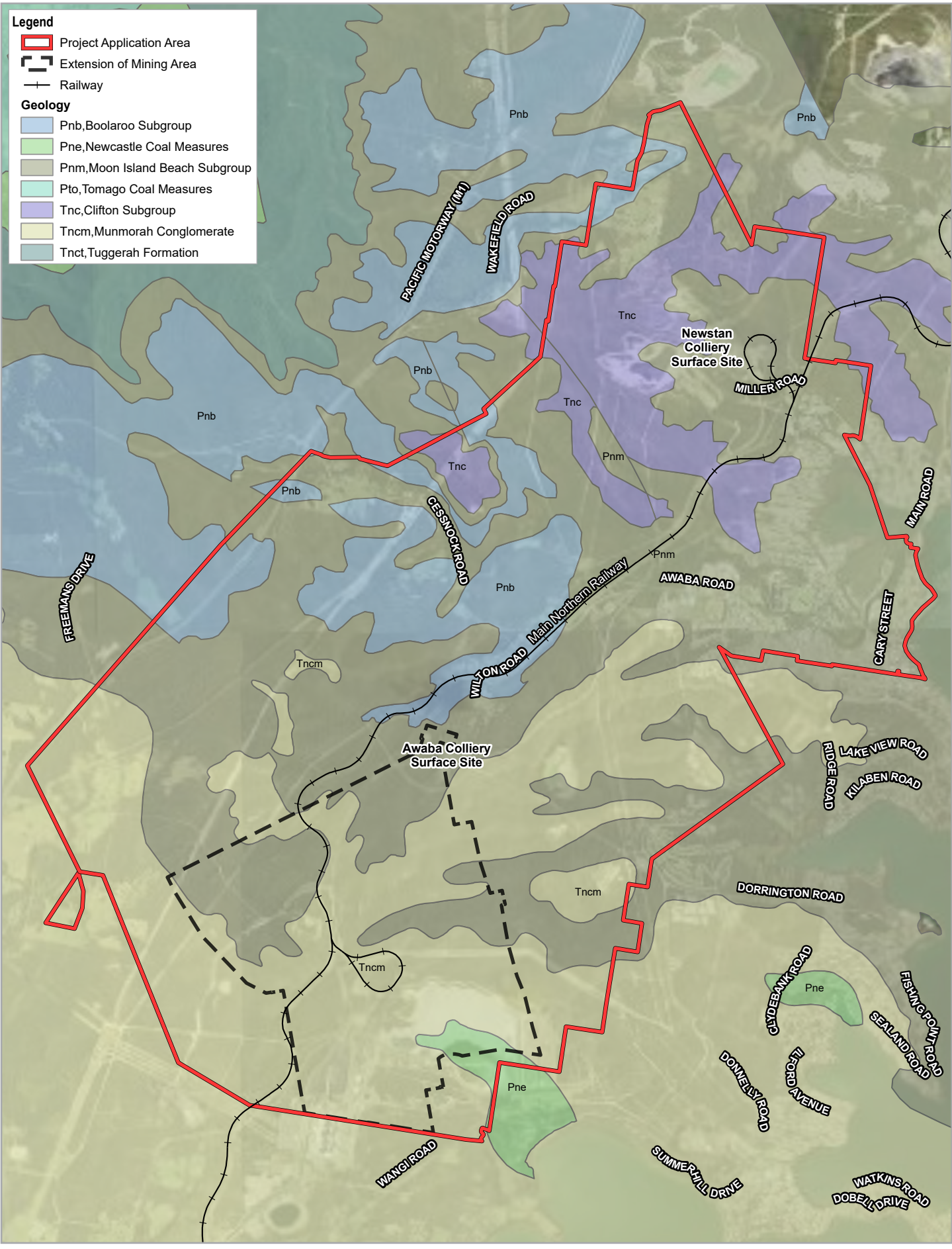


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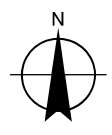
Land tenure

Figure 3-2



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Map Projection: Transverse Mercator
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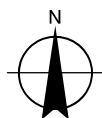
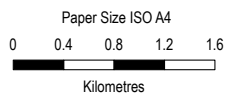
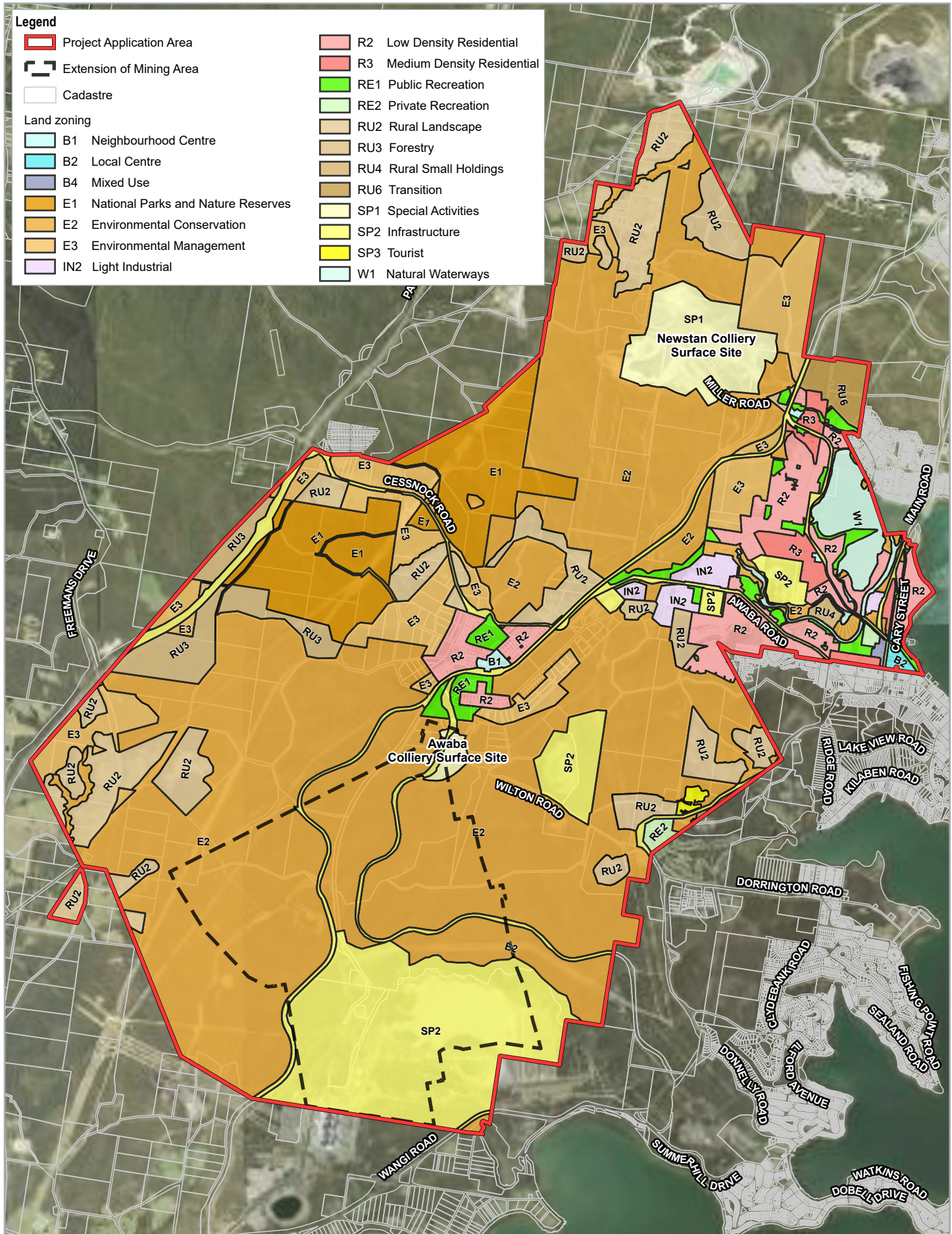
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Key geological features

Figure 3-3

Legend

- Project Application Area
 - Extension of Mining Area
 - Cadastre
- Land zoning**
- B1 Neighbourhood Centre
 - B2 Local Centre
 - B4 Mixed Use
 - E1 National Parks and Nature Reserves
 - E2 Environmental Conservation
 - E3 Environmental Management
 - IN2 Light Industrial
 - R2 Low Density Residential
 - R3 Medium Density Residential
 - RE1 Public Recreation
 - RE2 Private Recreation
 - RU2 Rural Landscape
 - RU3 Forestry
 - RU4 Rural Small Holdings
 - RU6 Transition
 - SP1 Special Activities
 - SP2 Infrastructure
 - SP3 Tourist
 - W1 Natural Waterways



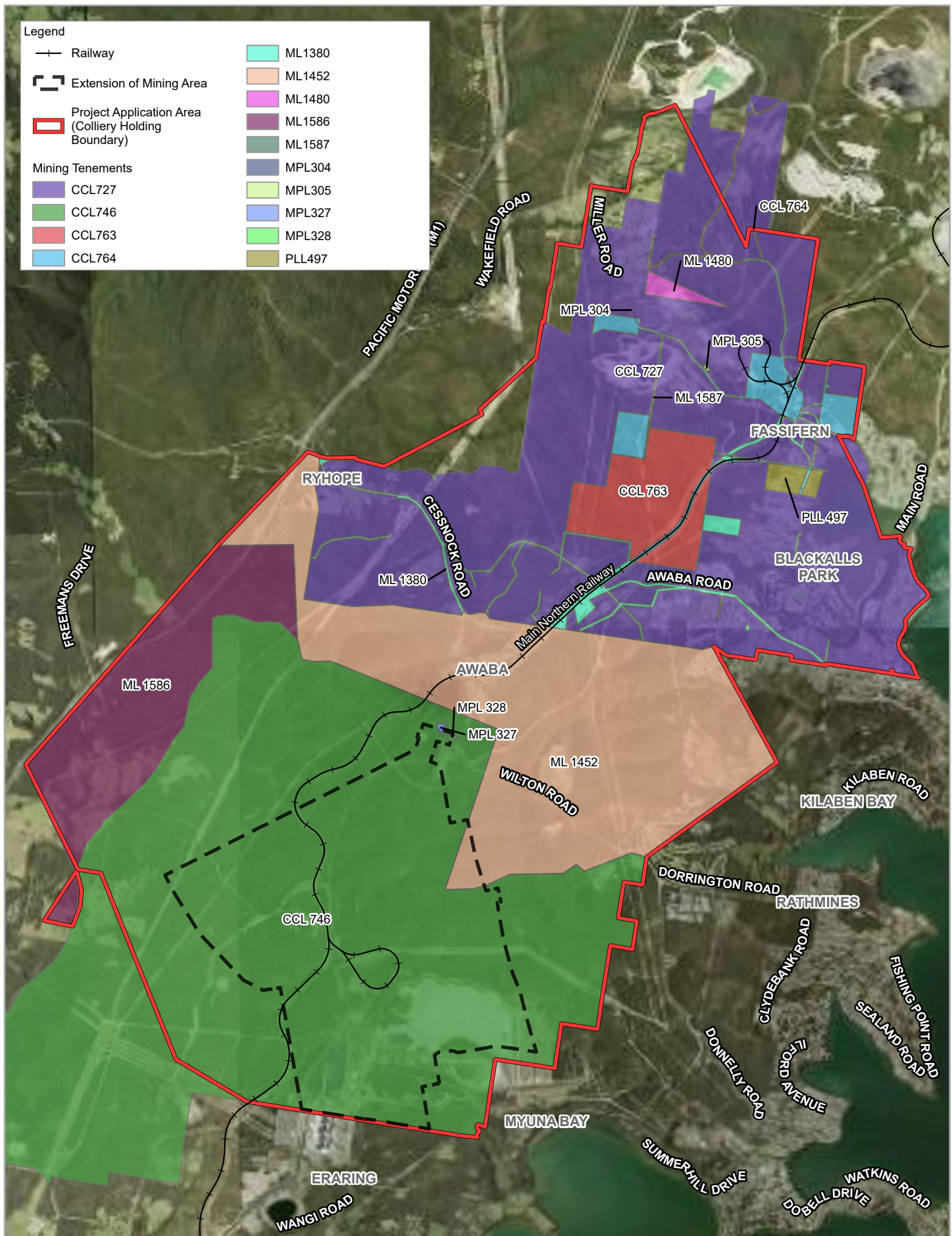
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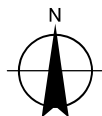
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Land zoning

Figure 4-1



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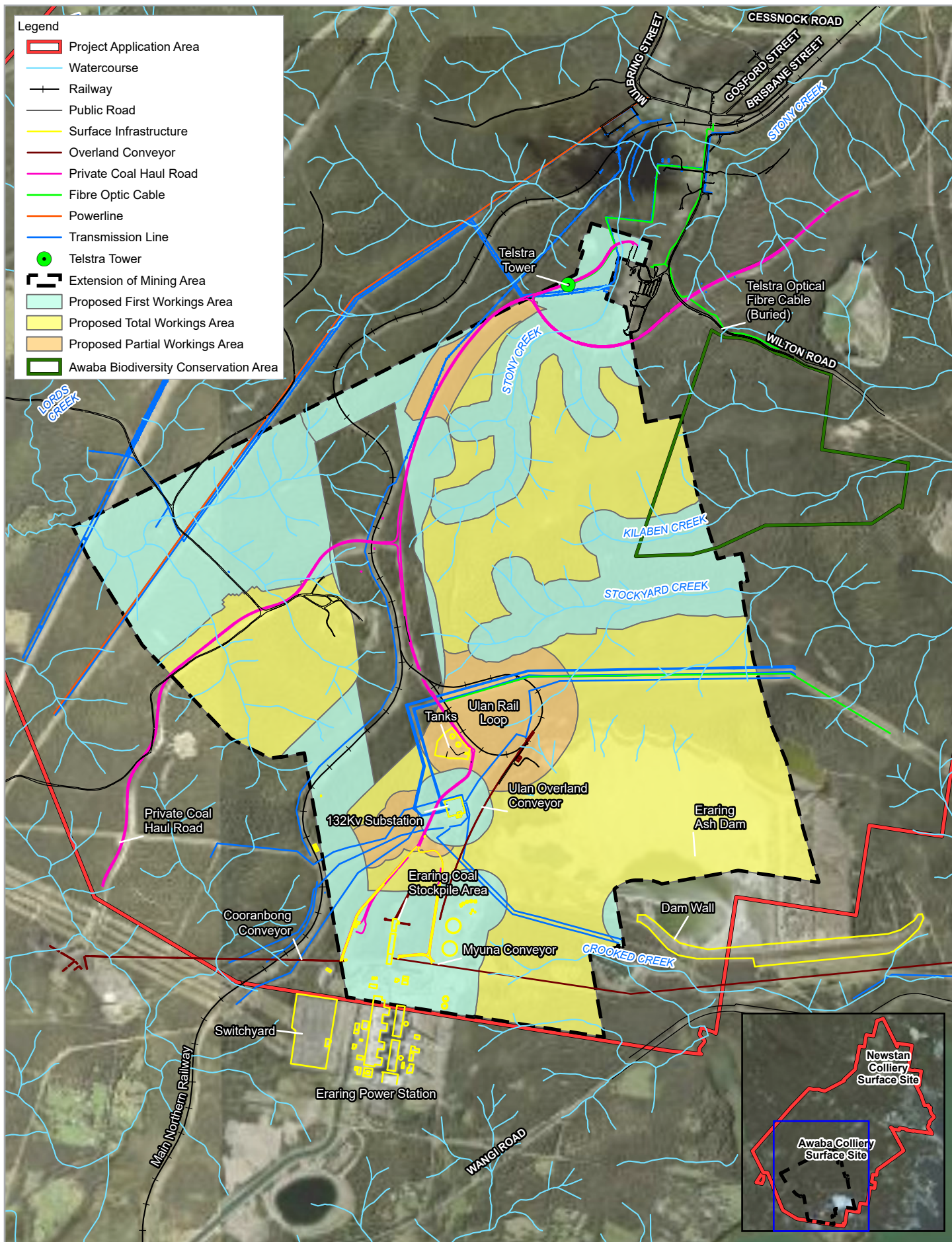


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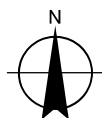
Mining tenements

Figure 4-2



- Legend**
- Project Application Area
 - Watercourse
 - Railway
 - Public Road
 - Surface Infrastructure
 - Overland Conveyor
 - Private Coal Haul Road
 - Fibre Optic Cable
 - Powerline
 - Transmission Line
 - Telstra Tower
 - Extension of Mining Area
 - Proposed First Workings Area
 - Proposed Total Workings Area
 - Proposed Partial Workings Area
 - Awaba Biodiversity Conservation Area

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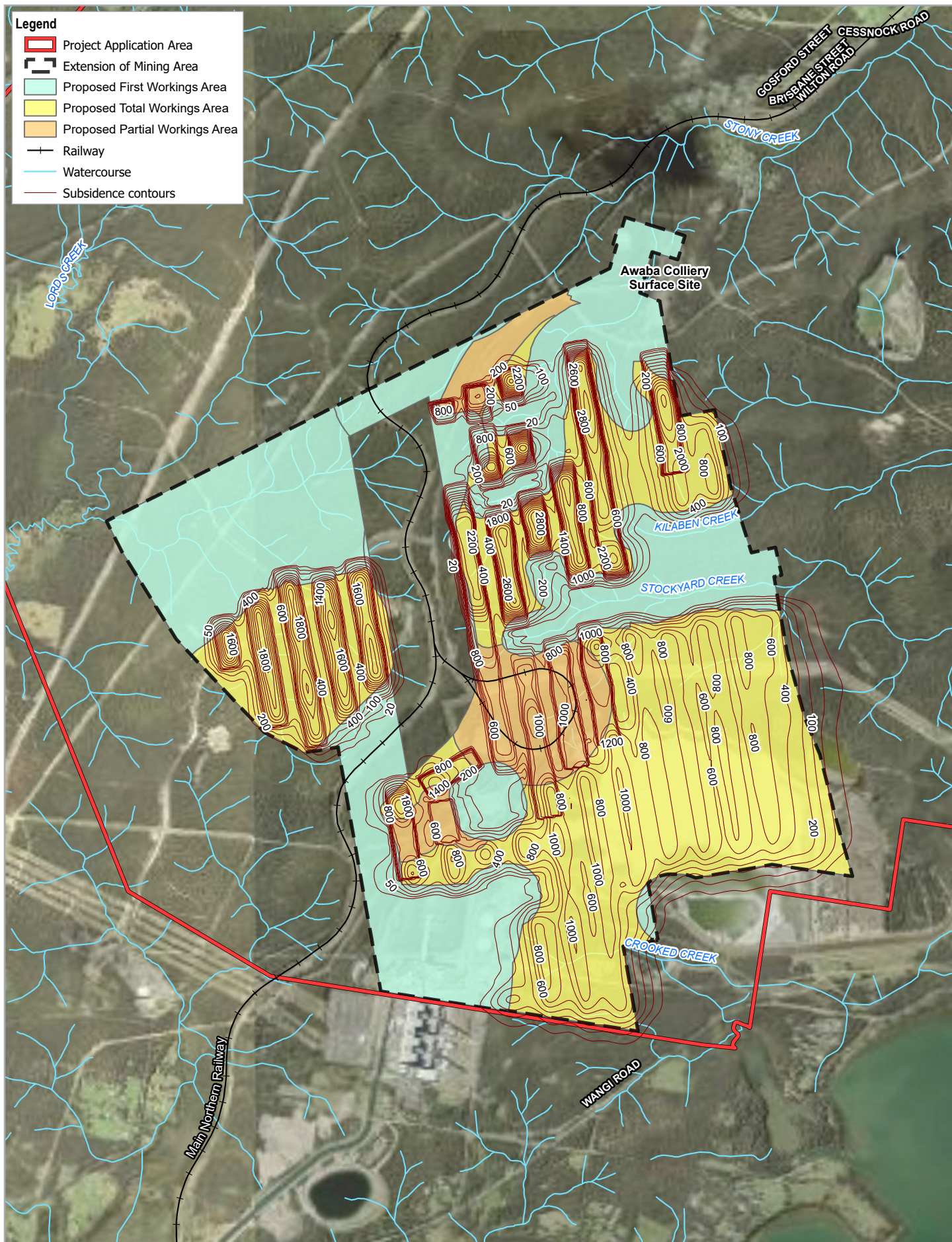
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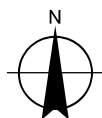
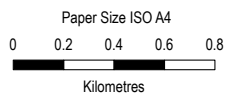
**Indicative natural features
 and surface infrastructure**

Figure 6-1



Legend

- Project Application Area
- Extension of Mining Area
- Proposed First Workings Area
- Proposed Total Workings Area
- Proposed Partial Workings Area
- Railway
- Watercourse
- Subsidence contours



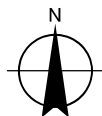
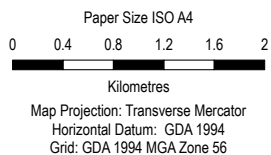
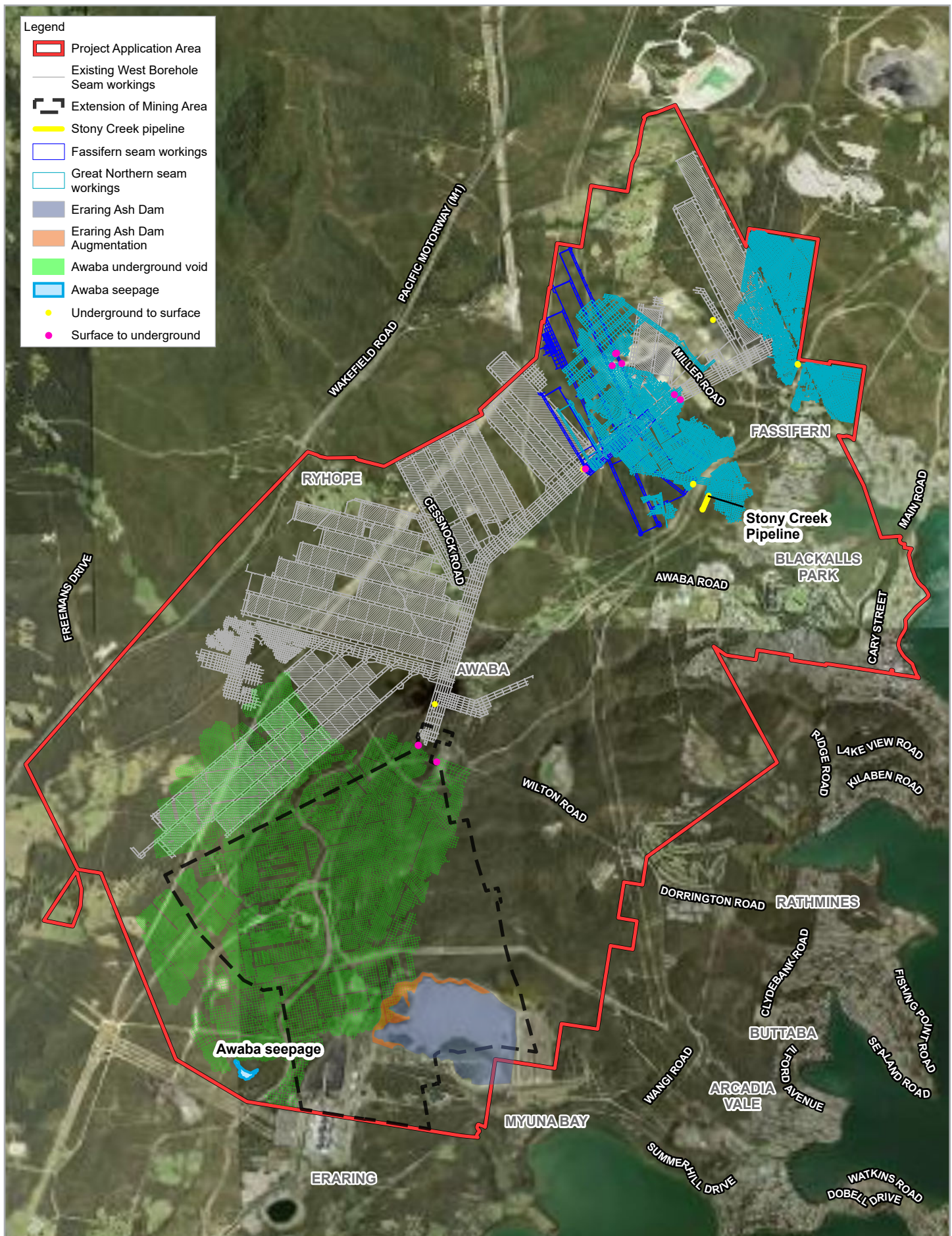
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Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 56

Predicted subsidence contours

Figure 6-2

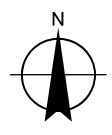
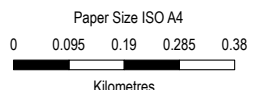
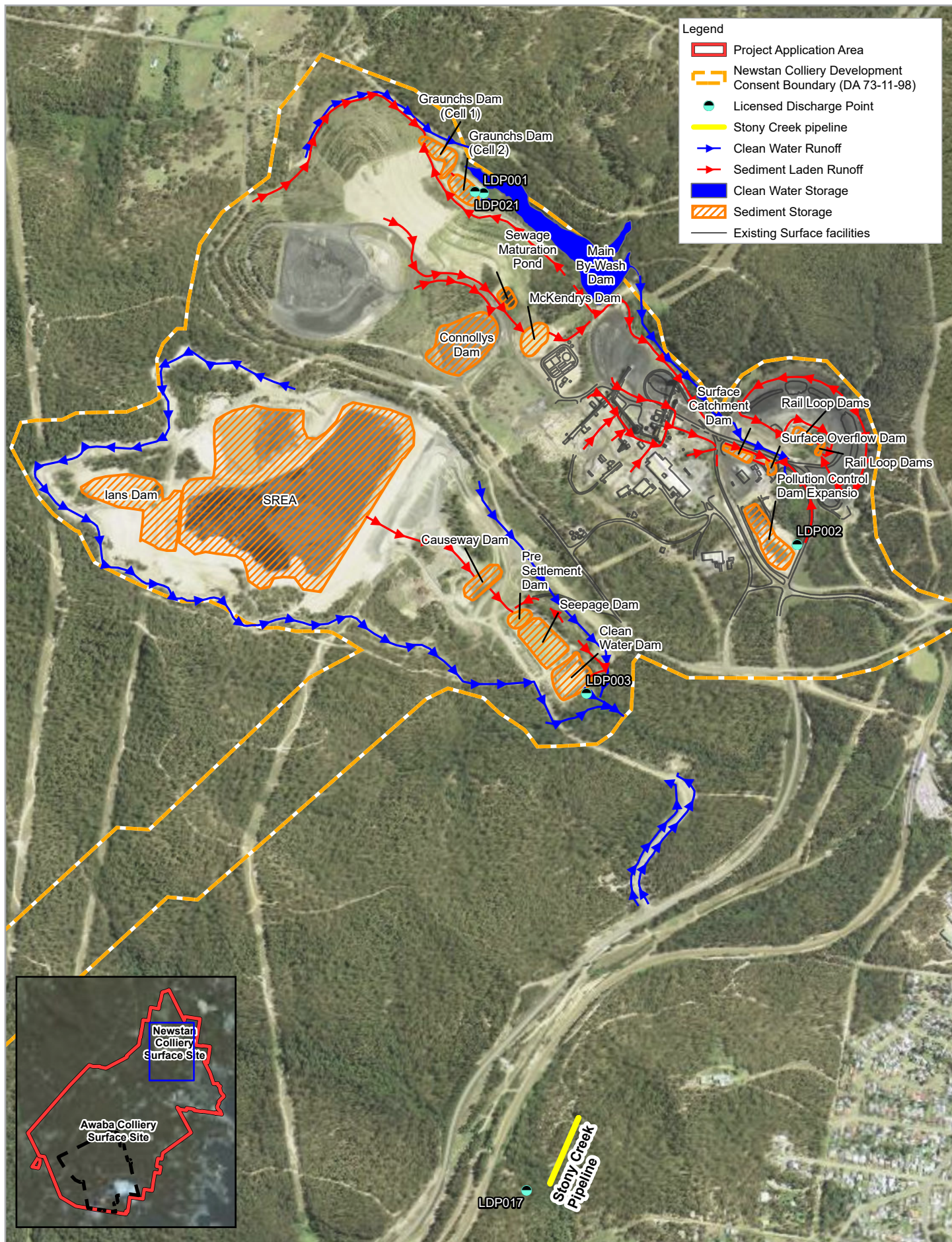


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**Existing underground
water management**

Figure 6-5



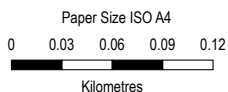
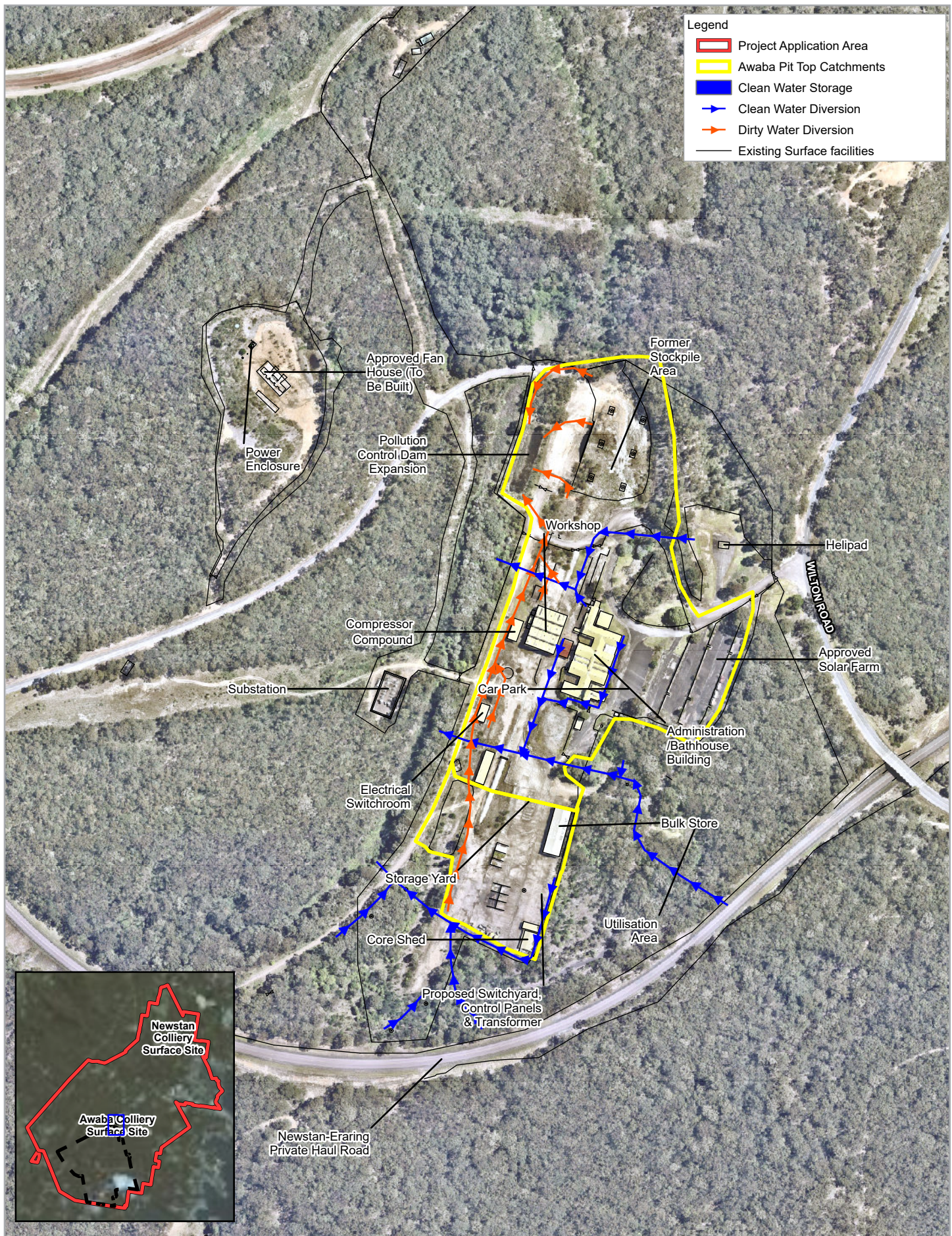
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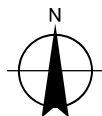
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Grid: GDA 1994 MGA Zone 56

**Water management features
Newstan Colliery Surface Site**

Figure 6-6



Map Projection: Transverse Mercator
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 Grid: GDA 1994 MGA Zone 56

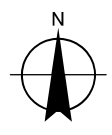
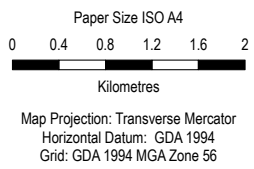
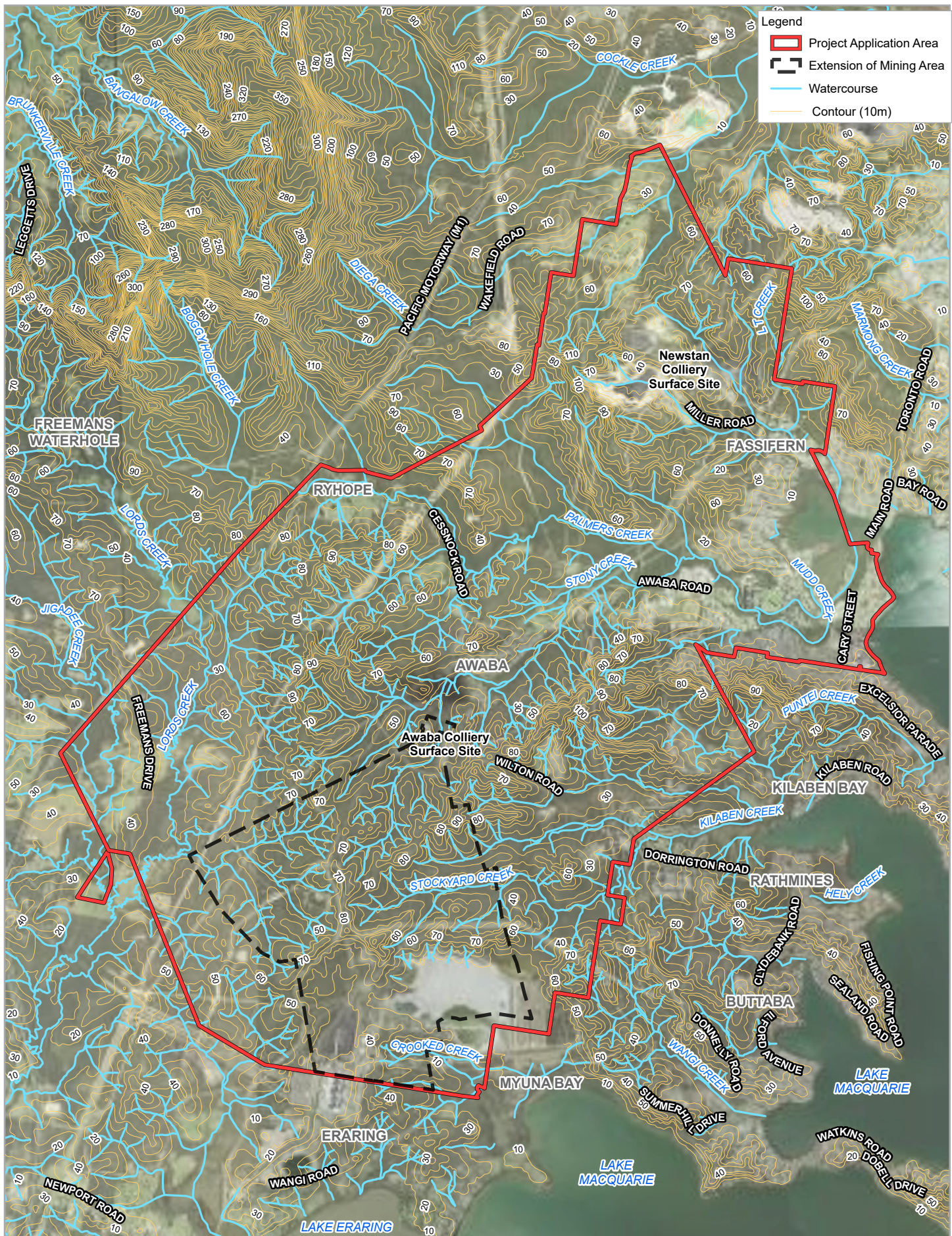


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**Water management features
 Awaba Colliery Surface Site**

Figure 6-7



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Newstan Mine Extension Project
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Topography and drainage

Figure 6-8