

# Notice of Modification

## Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning and Infrastructure, I modify the project approval referred to in Schedule 1, as set out in Schedule 2.

  
Sam Haddad  
Director-General

Sydney

7<sup>th</sup> December

2011

### SCHEDULE 1

The project approval (MP 08\_0184) for the Ulan Coal Mine, granted by the then Minister for Planning on 15 November 2010.

### SCHEDULE 2

1. In the list of definitions in schedule 1, delete "DECCW – Department of Environment, Climate Change and Water", "Department – Department of Planning", "Director-General – Director-General of the Department of Planning, or delegate", "I&I NSW – Department of Industry and Investment, trading as Industry and Investment NSW" and "Minister – Minister for Planning or Delegate" and insert the following in alphabetical order:

Department	Department of Planning and Infrastructure
DRE	Division of Resources and Energy, within DTIRIS
DTIRIS	Department of Trade & Investment, Regional Infrastructure and Services
EA (MOD 1)	Environmental assessment titled <i>Modification of Ulan Coal Continued Operations – North 1 Underground Mining Area, Minor Modification to Ulan No. 3 &amp; Ulan West Mine Plans &amp; Proposed Concrete Batching Plant</i> , dated July 2011; associated response to submissions titled <i>Response to Submissions - Modification of Ulan Coal Continued Operations – North 1 Underground Mining Area, Minor Modification to Ulan No. 3 &amp; Ulan West Mine Plans &amp; Proposed Concrete Batching Plant</i> , dated September 2011
Executive Director, Mineral Resources	Executive Director, Mineral Resources within DRE
Minister	Minister for Planning and Infrastructure, or delegate
OEH	Office of Environment and Heritage
SMP	Subsidence Management Plan

2. Delete all references to "DECCW" and replace with "OEH".
3. Delete all references to "I&I NSW" and replace with "DRE".
4. Delete all references to "Director-General of I&I NSW" and replace with "Executive Director, Mineral Resources".
5. In condition 2 of schedule 2, delete all words after "EA;" and insert the following:
  - (b) EA (MOD 1);
  - (c) statement of commitments; and
  - (d) conditions of this approval.

6. In condition 5 of schedule 2, delete the note and insert the following:

*Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of either the Director-General or the Executive Director, Mineral Resources. Consequently, this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.*

7. In condition 8 of schedule 2, delete "December 2011" and insert "June 2012".

8. In condition 14 of schedule 2, delete the note and insert the following:

*Notes:*

- *While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and*
- *If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*

9. In condition 43 of schedule 2, delete "December 2011" and insert "June 2012".

10. In condition 46 of schedule 2, delete "December 2011" and insert "June 2012".

11. In condition 30 of schedule 3, delete "entitlements are" and insert "supply is".

12. In condition 44 of schedule 3, insert the following after "aquatic habitat":

- managing any potential conflicts between the proposed restoration works in the biodiversity areas and any Aboriginal heritage values (both cultural and archaeological);

13. In condition 5 of schedule 5, delete the word "Integra" and insert the word "Ulan".

14. In condition 8 of schedule 5, delete "December 2011" and insert "December 2012".

15. Delete Appendices 1 to 7 and replace with:

**APPENDIX 1  
SCHEDULE OF LAND**

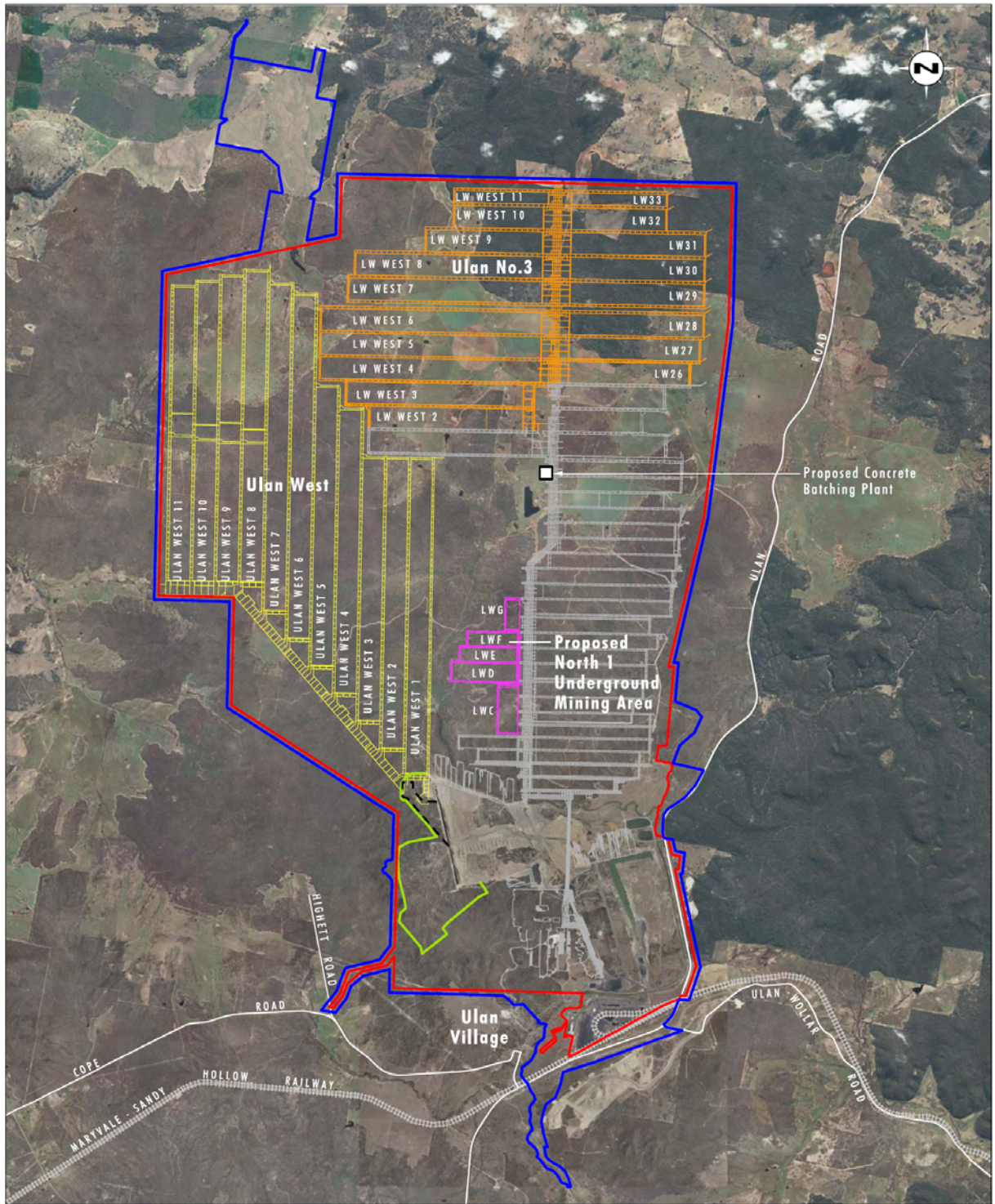
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4	132117	Mine Owned (UCML)
19	132631	Mine Owned (UCML)
1	182395	Mine Owned (UCML)
2	182395	Mine Owned (UCML)
3	182395	Mine Owned (UCML)
4	182395	Mine Owned (UCML)
1	206588	Mine Owned (UCML)
2	206588	Mine Owned (UCML)
3	206588	Mine Owned (UCML)
4	206588	Mine Owned (UCML)
5	206588	Mine Owned (UCML)
6	206588	Mine Owned (UCML)
7	206588	Mine Owned (UCML)
8	206588	Mine Owned (UCML)
B	408792	Mine Owned (UCML)
C	408792	Mine Owned (UCML)
1	431692	State Rail Authority of NSW
1	432146	State Rail Authority of NSW
2	432146	Mine Owned (UCML)
1	518563	Mine Owned (UCML)
2	518563	Mine Owned (UCML)
1	534014	Crown Land
2	534014	Private
3	534014	Private
2	537477	Mine Owned (UCML)
1	552740	Mine Owned (UCML)
1	572488	Mine Owned (UCML)
101	595015	Mine Owned (UCML)
151	595016	Mine Owned (UCML)
4	615702	Mine Owned (UCML)
32	631102	Mine Owned (UCML)
31	655483	NE Wiradjuri Wilpinjong Community Fund Ltd
1	661026	Mine Owned (UCML)
1	701346	Mine Owned (UCML)
3	701346	Mine Owned (UCML)
4	701346	Mine Owned (UCML)
83	704077	Crown Land Leased (UCML)
84	704077	Private
85	704094	Mine Owned (UCML)
1	720331	Mine Owned (UCML)
1	720332	Mine Owned (UCML)
1	720333	Mine Owned (UCML)
1	720334	Mine Owned (UCML)
2	720334	Crown Land Leased (UCML)
3	720334	Crown Land Leased (UCML)

<b>Lot</b>	<b>DP</b>	<b>Owner</b>
4	720334	Mine Owned (UCML)
1	720335	Mine Owned (UCML)
55	722794	Crown Land Leased (UCML)
1	722880	Mine Owned (UCML)
2	722880	Mine Owned (UCML)
3	722880	Mine Owned (UCML)
4	722880	Mine Owned (UCML)
1	722881	Mine Owned (UCML)
1	722882	Mine Owned (UCML)
2	722882	Mine Owned (UCML)
43	736630	Crown Land
44	736630	Mine Owned (UCML)
45	736630	Mine Owned (UCML)
46	736630	Mine Owned (UCML)
47	736630	Mine Owned (UCML)
48	736630	Mine Owned (UCML)
49	736630	Mine Owned (UCML)
50	736630	Mine Owned (UCML)
51	736630	Mine Owned (UCML)
52	736630	Mine Owned (UCML)
53	736630	Mine Owned (UCML)
54	736630	Mine Owned (UCML)
2	750735	Crown Land Leased (UCML)
3	750735	Mine Owned (UCML)
4	750735	Mine Owned (UCML)
5	750735	Crown Land Leased (UCML)
6	750735	Mine Owned (UCML)
7	750735	Mine Owned (UCML)
8	750735	Mine Owned (UCML)
9	750735	Mine Owned (UCML)
10	750735	Mine Owned (UCML)
11	750735	Mine Owned (UCML)
12	750735	Mine Owned (UCML)
13	750735	Mine Owned (UCML)
15	750735	Mine Owned (UCML)
16	750735	Mine Owned (UCML)
17	750735	Mine Owned (UCML)
18	750735	Mine Owned (UCML)
19	750735	Mine Owned (UCML)
20	750735	Mine Owned (UCML)
22	750735	Private
23	750735	Private
24	750735	Private
27	750735	Private
28	750735	Private
29	750735	Private
30	750735	Mine Owned (UCML)
31	750735	Mine Owned (UCML)

<b>Lot</b>	<b>DP</b>	<b>Owner</b>
32	750735	Private
33	750735	Private
34	750735	Private
35	750735	Mine Owned (UCML)
36	750735	Mine Owned (UCML)
37	750735	Mine Owned (UCML)
38	750735	Private
39	750735	Mine Owned (UCML)
41	750735	Crown Land Leased (UCML)
42	750735	Crown Land Leased (UCML)
43	750735	Crown Land Leased (UCML)
44	750735	Private
45	750735	Mine Owned (UCML)
46	750735	Mine Owned (UCML)
47	750735	Mine Owned (UCML)
48	750735	Crown Land Leased (UCML)
49	750735	Crown Land Leased (Private)
50	750735	Mine Owned (UCML)
51	750735	Mine Owned (UCML)
52	750735	Private
53	750735	Mine Owned (UCML)
54	750735	Mine Owned (UCML)
55	750735	Private
56	750735	Mine Owned (UCML)
178	750735	Mine Owned (UCML)
179	750735	Mine Owned (UCML)
180	750735	Mine Owned (UCML)
211	750735	Mine Owned (UCML)
212	750735	Mine Owned (UCML)
213	750735	Private
2	750736	Mine Owned (UCML)
45	750736	Mine Owned (UCML)
46	750736	Mine Owned (UCML)
54	750736	Mine Owned (UCML)
60	750736	Mine Owned (UCML)
61	750736	Mine Owned (UCML)
164	750748	State Conservation Area
59	750759	Private
1	750773	Mine Owned (UCML)
2	750773	Mine Owned (UCML)
3	750773	Mine Owned (UCML)
5	750773	Mine Owned (UCML)
9	750773	Mine Owned (UCML)
11	750773	Mine Owned (UCML)
13	750773	Crown Land Leased (UCML)
14	750773	Crown Land Leased (UCML)
15	750773	Crown Land
16	750773	Crown Land Leased (UCML)

<b>Lot</b>	<b>DP</b>	<b>Owner</b>
17	750773	Mine Owned (UCML)
18	750773	Mine Owned (UCML)
20	750773	Mine Owned (UCML)
27	750773	Mine Owned (UCML)
28	750773	Mine Owned (UCML)
52	750773	Crown Land Leased (UCML)
54	750773	Mine Owned (UCML)
58	750773	Mine Owned (UCML)
59	750773	Mine Owned (UCML)
63	750773	Mine Owned (UCML)
64	750773	Mine Owned (UCML)
65	750773	Mine Owned (UCML)
66	750773	Mine Owned (UCML)
68	750773	Mine Owned (UCML)
70	750773	Mine Owned (UCML)
71	750773	Mine Owned (UCML)
72	750773	Crown Land Leased (UCML)
73	750773	Mine Owned (UCML)
74	750773	Mine Owned (UCML)
75	750773	Mine Owned (UCML)
76	750773	Crown Land Leased (UCML)
78	750773	Mine Owned (UCML)
79	750773	Mine Owned (UCML)
5	755439	Mine Owned (UCML)
13	755439	Mine Owned (UCML)
20	755439	Mine Owned (UCML)
27	755439	Mine Owned (UCML)
33	755439	Crown Land Leased (UCML)
14	755442	Mine Owned (UCML)
92	755442	Mine Owned (UCML)
1	840034	Mine Owned (UCML)
2	840034	Mine Owned (UCML)
1	876943	Private
7003	1025349	Crown Land Leased (UCML)
7005	1028230	Crown Land
1	1069300	Mine Owned (UCML)
800	1128041	Mine Owned (UCML)
7008	1116385	Crown Land Leased (UCML)
Various Crown Road and Land Reserves		

## APPENDIX 2 PROJECT LAYOUT PLANS



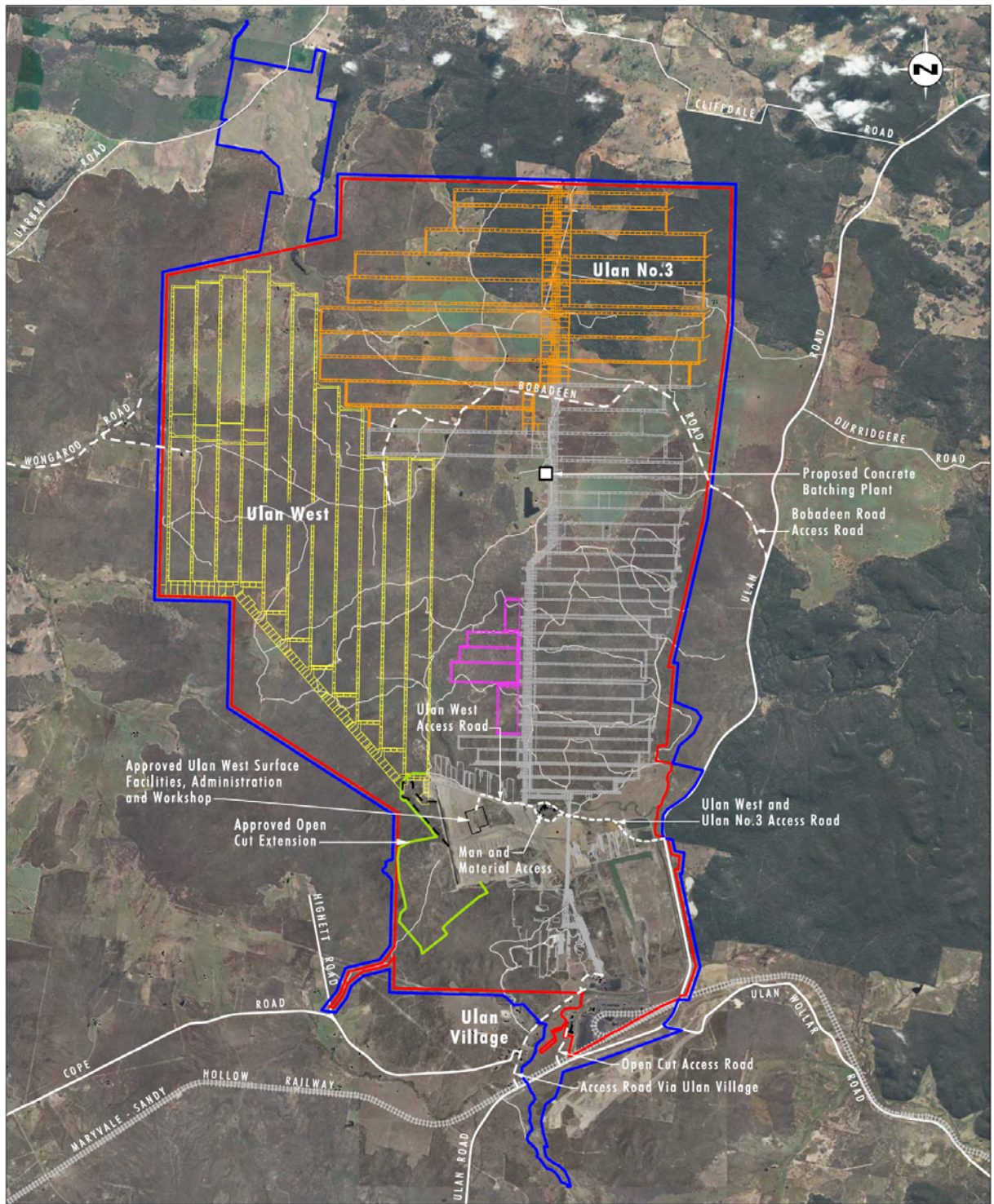
Source: Ulan Coal, Aerial Photo December 2010

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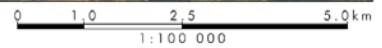
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|--|---|
| <span style="border: 2px solid red; padding: 2px;"> </span> Colliery Holding Boundary                        | <span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Box Cut Option                         |
| <span style="border: 2px solid blue; padding: 2px;"> </span> UCML Continued Operations Project Approval Area | <span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Proposed Concrete Batching Plant |
| <span style="border: 2px solid green; padding: 2px;"> </span> Approved Open Cut Extension                    |   |
| <span style="border: 2px dashed yellow; padding: 2px;"> </span> Ulan West Mine Plan                          |   |
| <span style="border: 2px dashed orange; padding: 2px;"> </span> Ulan No.3 Mine Plan                          |   |
| <span style="border: 2px solid grey; padding: 2px;"> </span> Previous Underground Mining Operations          |   |
| <span style="border: 2px solid pink; padding: 2px;"> </span> Proposed North 1 Underground Mining Area        |   |

**Ulan Coal S75W Modifications  
Proposed North 1 Underground Mining Area,  
Concrete Batching Plant and Modified Mine Plan**



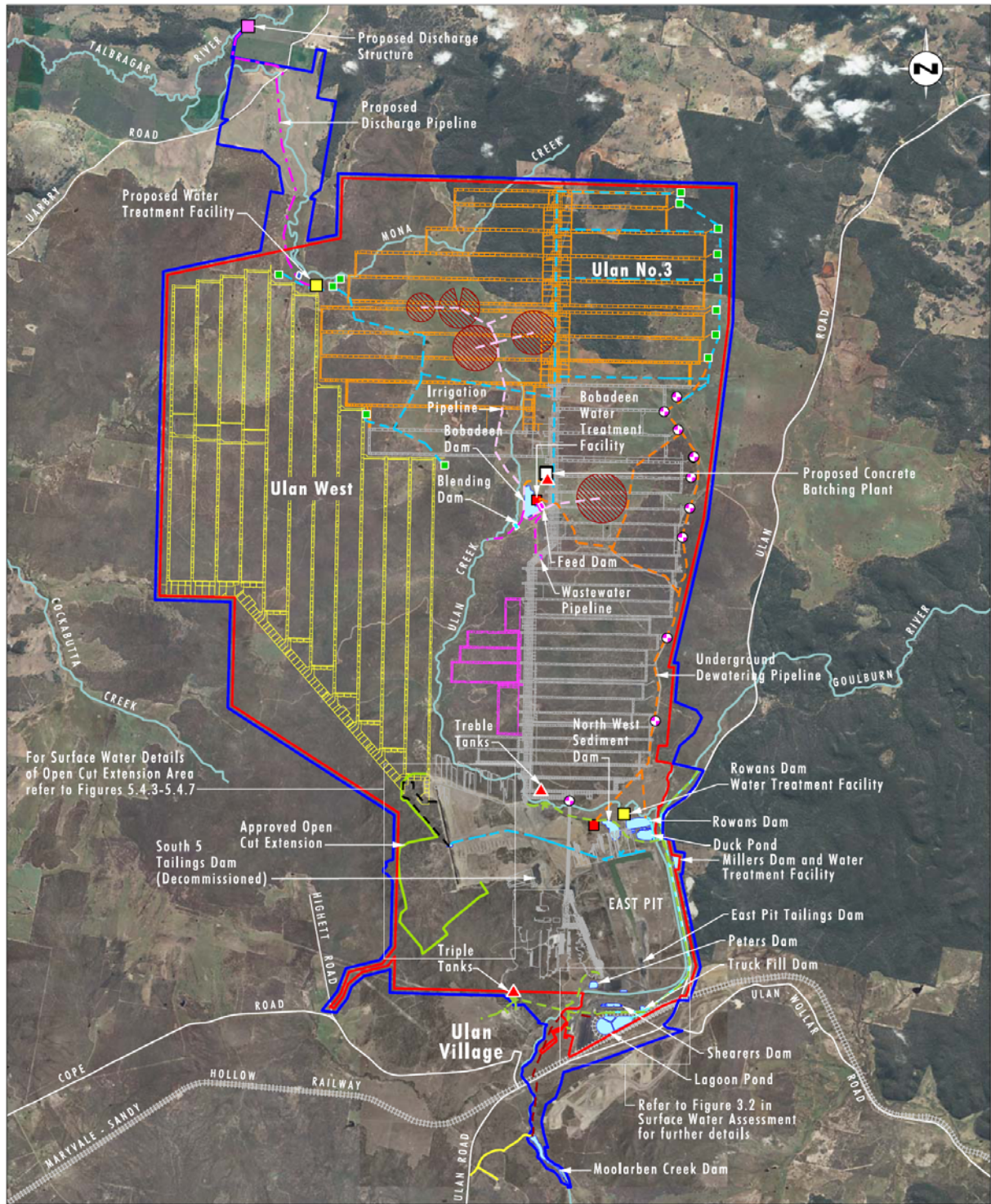
Source: Ulan Coal, Aerial Photo December 2010



**Legend**

- ▬ Colliery Holding Boundary
- ▬ UCML Continued Operations Project Approval Area
- ▬ Approved Open Cut Extension
- ▬ Ulan West Mine Plan
- ▬ Ulan No.3 Mine Plan
- ▬ Previous Underground Mining Operations
- ▬ Proposed North 1 Underground Mining Area
- ▬ Site Access Road
- - - Box Cut Option
- ▬ Tracks
- Proposed Concrete Batching Plant

**Access Roads**



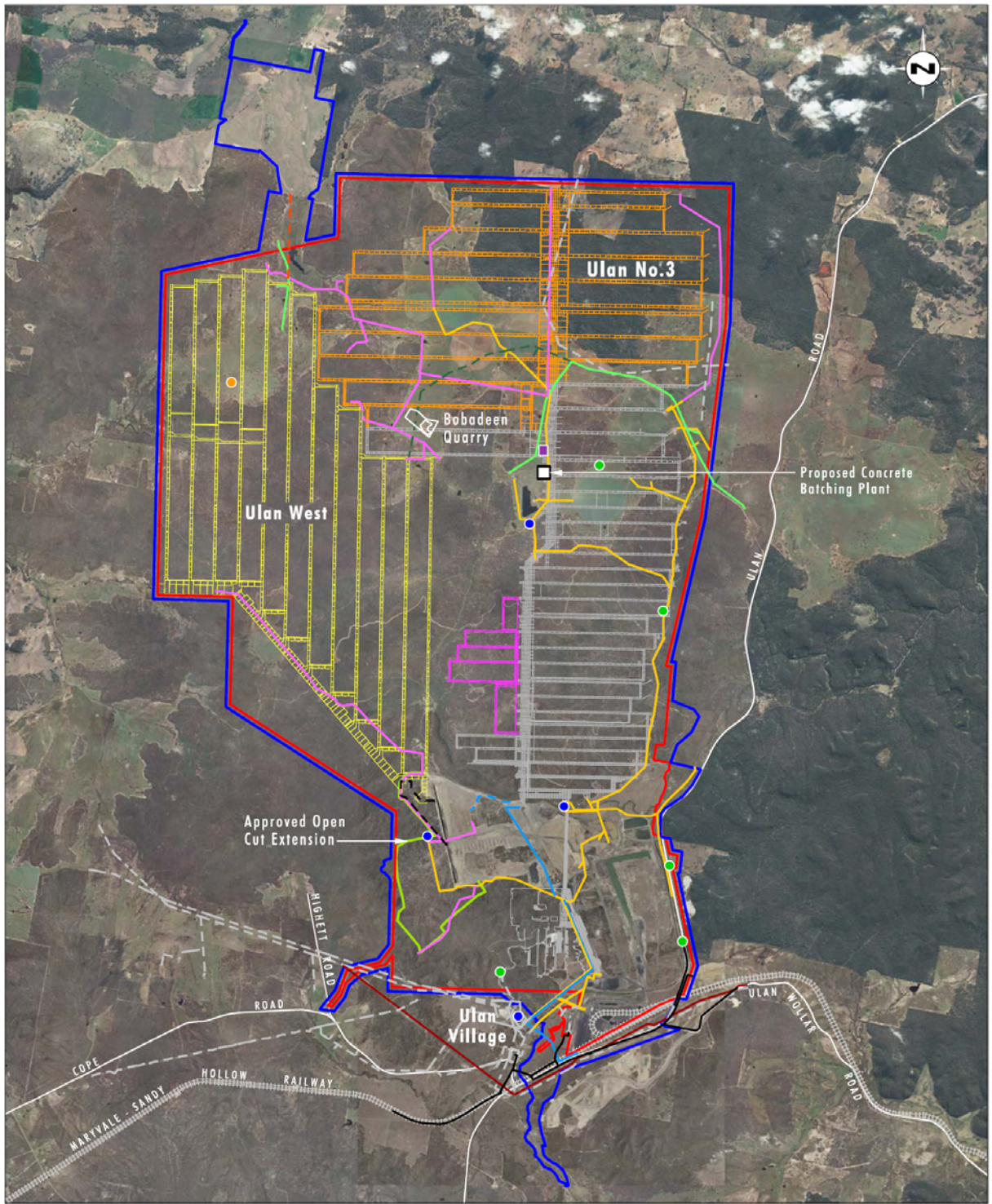
Source: Ulan Coal, Aerial Photo December 2010

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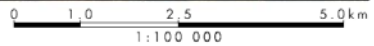
**Legend**

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li><span style="color: red;">▬</span> Colliery Holding Boundary</li> <li><span style="color: blue;">▬</span> UCML Continued Operations Project Approval Area</li> <li><span style="color: green;">▬</span> Approved Open Cut Extension</li> <li><span style="color: yellow;">▬</span> Ulan West Mine Plan</li> <li><span style="color: orange;">▬</span> Ulan No.3 Mine Plan</li> <li><span style="color: grey;">▬</span> Previous Underground Mining Operations</li> <li><span style="color: magenta;">▬</span> Proposed North 1 Underground Mining Area</li> <li><span style="color: black;">- - -</span> Box Cut Option</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Proposed Concrete Batching Plant</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: lightblue;">▬</span> Dams</li> <li><span style="color: orange;">▬</span> Existing Dewatering Bore Pipeline</li> <li><span style="color: pink;">▬</span> Existing Irrigation Pipeline</li> <li><span style="color: magenta;">▬</span> Existing Reverse Osmosis Pipelines</li> <li><span style="color: brown;">▬</span> Existing Moolarben Raw Water Pipeline</li> <li><span style="color: green;">▬</span> Existing Potable Water</li> <li><span style="color: cyan;">▬</span> Creeks</li> <li><span style="color: yellow;">▬</span> Existing Moolarben Dam to Orica Pipeline</li> <li><span style="color: blue;">▬</span> Approved Pipeline</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: purple;">●</span> Existing Dewatering Points</li> <li><span style="color: red;">●</span> Existing Irrigation Pivots</li> <li><span style="color: red;">▲</span> Existing Fire Fighting Water Reservoir</li> <li><span style="color: red;">■</span> Existing Water Treatment Facility</li> <li><span style="color: yellow;">■</span> Approved Water Treatment Facility</li> <li><span style="color: blue;">■</span> Approved Dam</li> <li><span style="color: green;">■</span> Approved Dewatering Bore</li> </ul> |
|--|---|--|

**Current and Proposed Water Management Infrastructure**



Source: Ulan Coal, Aerial Photo December 2010

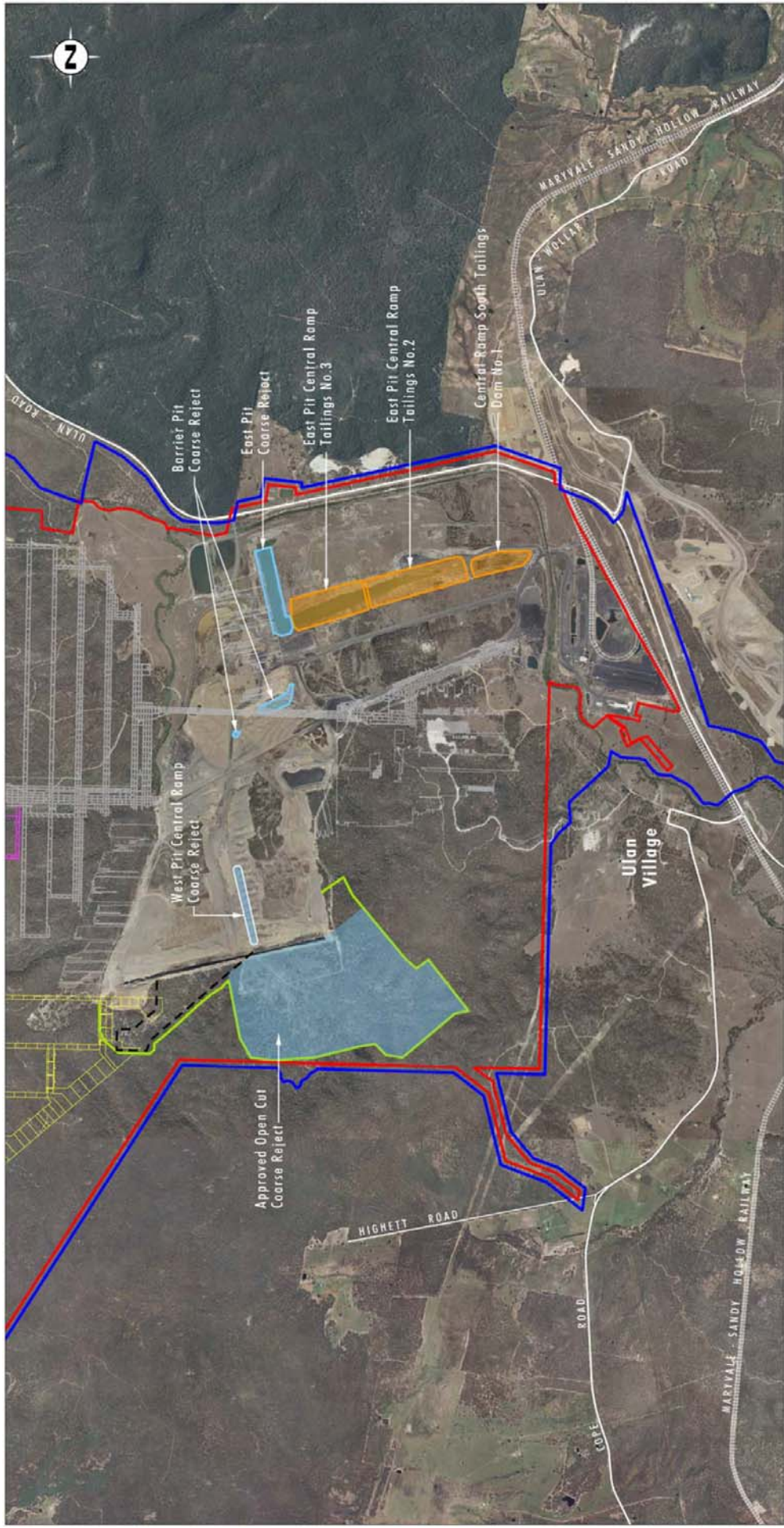


**Legend**

- |   |  |   |
|---|--|---|
| <span style="color: red;">▭</span> Colliery Holding Boundary  | <span style="color: green;">▬</span> Bobadeen Quarry                   | <span style="color: blue;">●</span> Existing Substations            |
| <span style="color: blue;">▭</span> UCML Continued Operations Project Approval Area   | <span style="color: yellow;">▬</span> Existing Power Line UCML         | <span style="color: green;">●</span> Existing Communication Towers  |
| <span style="color: green;">▬</span> Approved Open Cut Extension  | <span style="color: grey;">▬</span> Existing Country Energy Power Line | <span style="color: red;">▬</span> Existing Power Line Private      |
| <span style="color: yellow;">▬</span> Ulan West Mine Plan   | <span style="color: red;">▬</span> Existing Transgrid Power Line       | <span style="color: pink;">▬</span> Approved Power Line             |
| <span style="color: orange;">▬</span> Ulan No.3 Mine Plan   | <span style="color: blue;">▬</span> Existing Fibre Optics UCML         | <span style="color: orange;">●</span> Approved Communication Towers |
| <span style="color: grey;">▬</span> Previous Underground Mining Operations  | <span style="color: black;">▬</span> Existing Fibre Optics Telstra     | <span style="color: blue;">▬</span> Approved Fibre Optic            |
| <span style="color: pink;">▬</span> Proposed North 1 Underground Mining Area  | <span style="color: green;">▬</span> Existing Telstra Line Active      |   |
| <span style="color: black;">- - -</span> Box Cut Option   | <span style="color: green;">▬</span> Existing Telstra Line Inactive    |   |
| <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Proposed Concrete Batching Plant |  |   |

**Current and Proposed Power and Telecommunications Services**





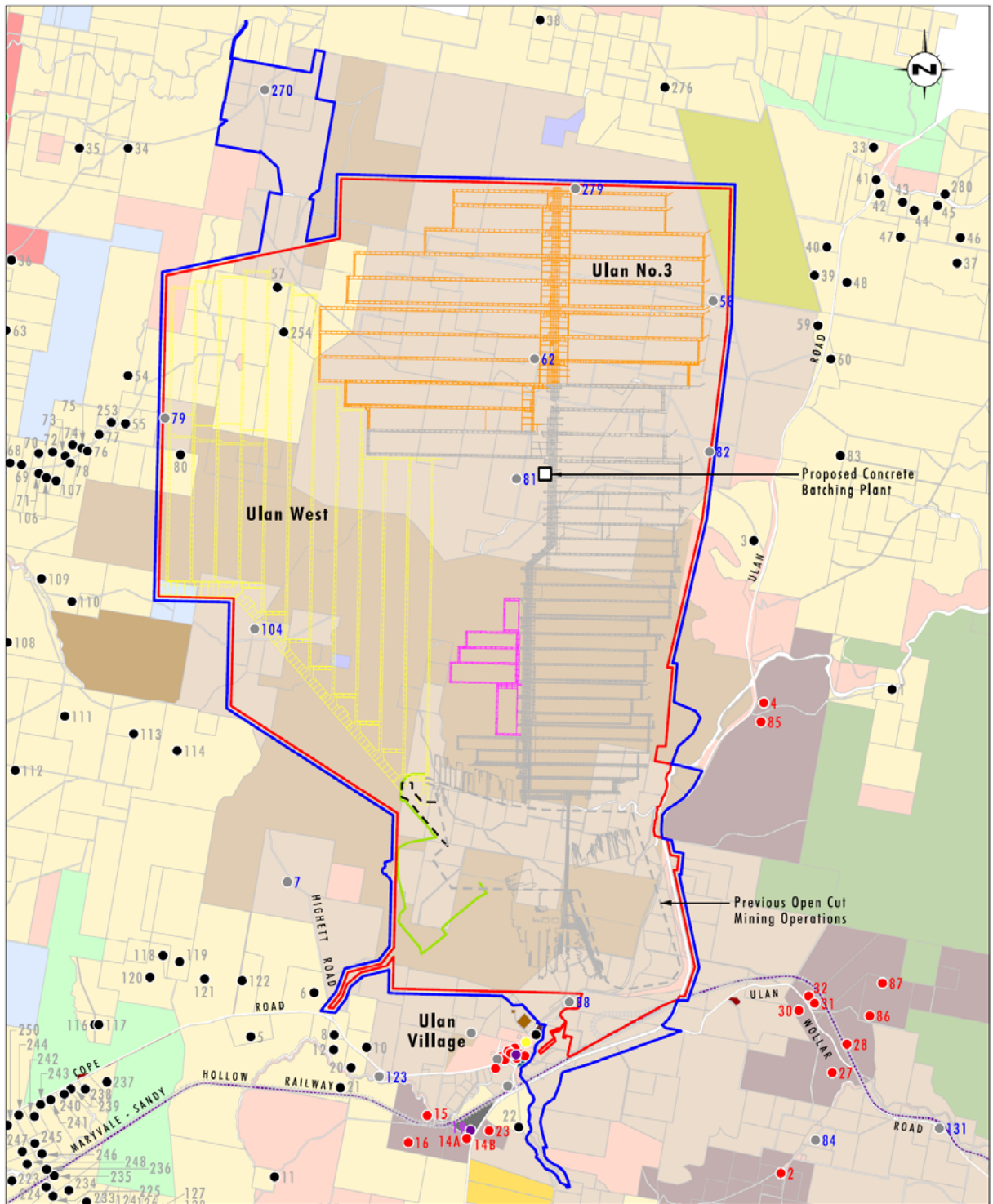
Source: Ulan Coal, Aerial Photo December 2010

**Legend**

- Colliery Holding Boundary
- UCMIL Continued Operations Project Approval Area
- Approved Open Cut Extension
- Ulan West Mine Plan
- Previous Underground Mining Operations
- Tailings Placement Area
- Coarse Reject Placement Area
- Box Cut Option
- Proposed North 1 Underground Mining Area

**Conceptual Coarse Reject and Tailings Placement Areas**

### APPENDIX 3 LAND OWNERSHIP PLANS



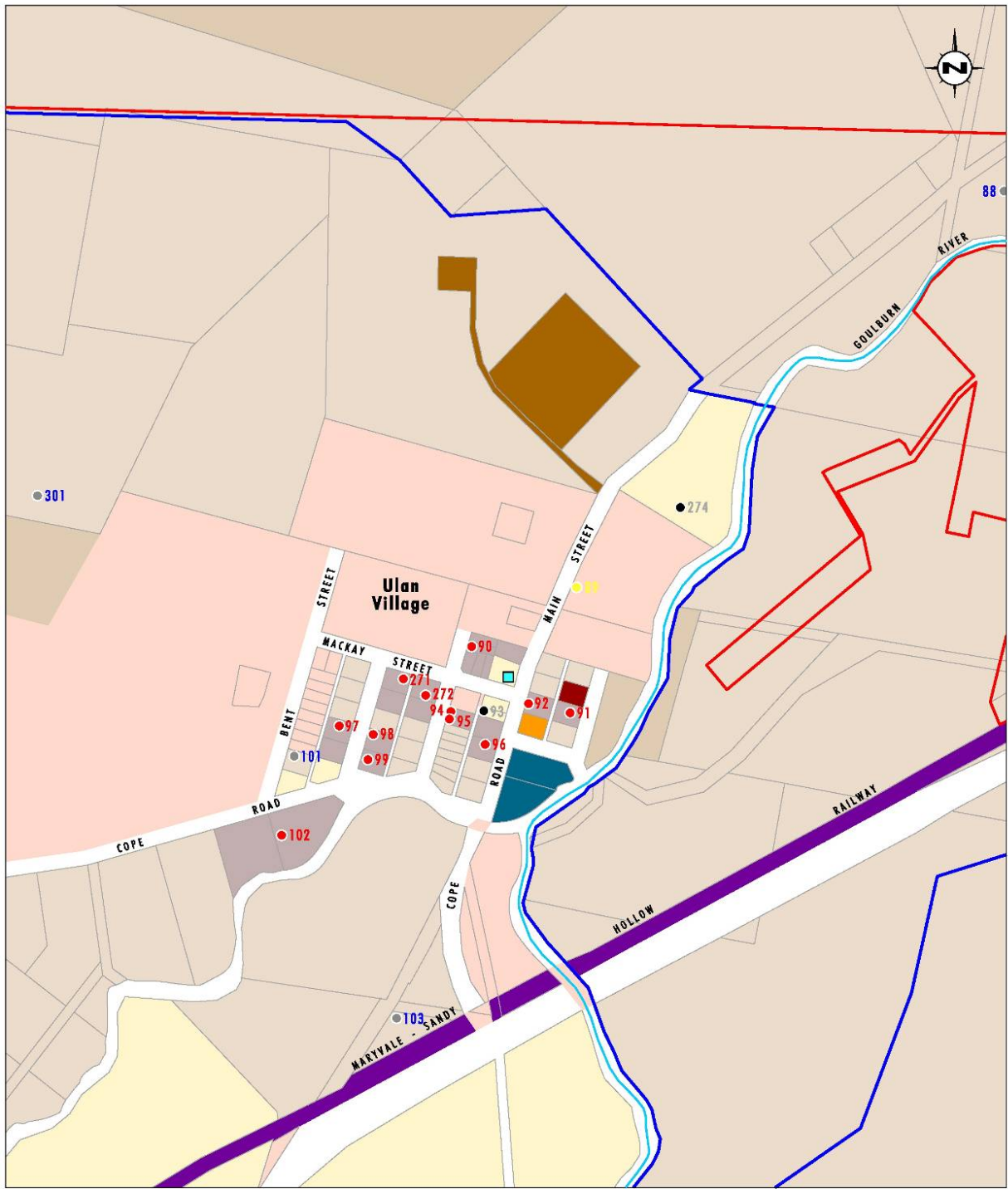
Source: Ulan Coal

**Legend**

<ul style="list-style-type: none"> <li><span style="border: 2px solid red; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Colliery Holding Boundary</li> <li><span style="border: 2px solid blue; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> UCML Continued Operations Project Approval Area</li> <li><span style="border: 2px solid green; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Approved Open Cut Extension</li> <li><span style="border: 2px dashed yellow; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Ulan West Mine Plan</li> <li><span style="border: 2px dashed orange; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Ulan No.3 Mine Plan</li> <li><span style="border: 2px dashed grey; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Previous Underground Mining Operations</li> <li><span style="border: 2px dashed pink; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Proposed North 1 Underground Mining Area</li> <li><span style="border: 2px dashed black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Box Cut Option</li> <li><span style="border: 2px solid brown; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Mid Western Regional Council</li> <li><span style="border: 2px solid orange; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Anglican Property Trust Diocese of Bathurst</li> </ul>	<ul style="list-style-type: none"> <li><span style="background-color: #d3d3d3; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Mine Owned (Moolarben)</li> <li><span style="background-color: #90ee90; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> State Conservation Area</li> <li><span style="background-color: #800080; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> State Rail Authority of NSW</li> <li><span style="background-color: #90ee90; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> State Forests of NSW</li> <li><span style="background-color: #f0f0f0; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Crown Land</li> <li><span style="background-color: #d3d3d3; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Crown Land Licensed (UCML)</li> <li><span style="background-color: #add8e6; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Crown Land Leased (Private)</li> <li><span style="background-color: #90ee90; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> National Park</li> <li><span style="background-color: #808080; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Country Energy</li> <li><span style="background-color: #404040; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Industrial</li> </ul>	<ul style="list-style-type: none"> <li><span style="background-color: #add8e6; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> The State Of NSW (Trigonometrical Station)</li> <li><span style="background-color: #ffff00; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Orica Australia Pty Limited</li> <li><span style="background-color: #008080; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Department of Education and Training</li> <li><span style="background-color: #f0f0f0; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Mine Owned (UCML)</li> <li><span style="background-color: #ffffff; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Private</li> <li><span style="color: red; font-weight: bold;">●</span> Mine Owned Residence (Moolarben)</li> <li><span style="color: grey; font-weight: bold;">●</span> Mine Owned Residence (UCML)</li> <li><span style="color: black; font-weight: bold;">●</span> Private Residence</li> <li><span style="color: yellow; font-weight: bold;">●</span> Ulan Community House</li> <li><span style="color: purple; font-weight: bold;">●</span> Industrial Property</li> </ul>
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0 1.0 2.5 5.0 km  
1:100 000

**Land Ownership**



Source: LPI

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1:10 000

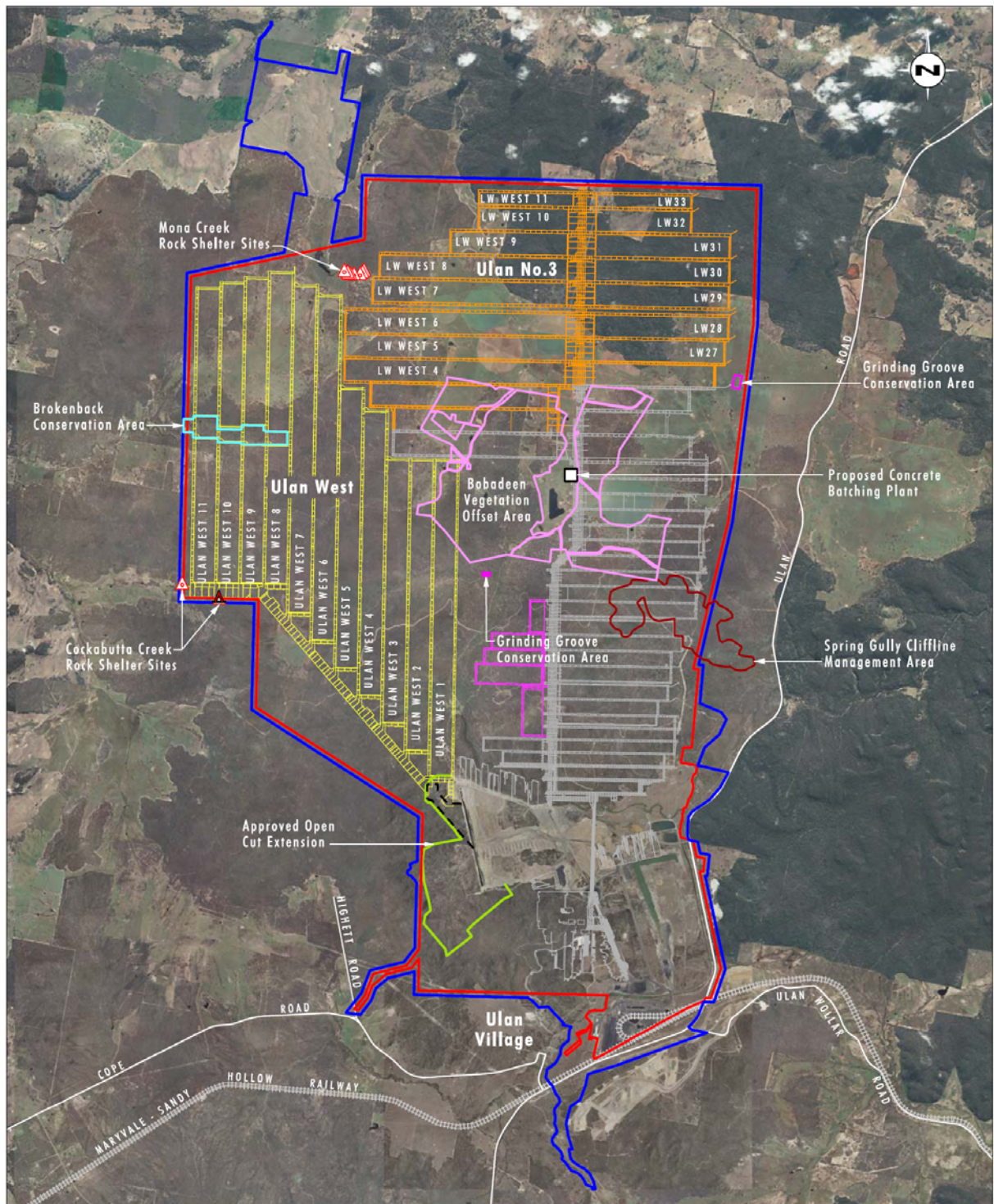
**Legend**

- Colliery Holding Boundary
- Project Boundary
- Crown Land
- Country Energy
- Private
- Mined Owned (UCML)
- Mined Owned (Moolarben)
- Mid Western Regional Council
- Department of Education and Training
- Crown Land Leased (UCML)
- State Rail Authority of NSW
- Anglican Property Trust Diocese of Bathurst
- Mine Owned Residence (Moolarben)
- Ulan Community House
- Ulan Pub
- Private Residence
- Mine Owned Residence (UCML)

**Land Ownership Ulan Village**

File Name (A4): R05\_V1/2423\_169.dwg

## APPENDIX 4 OFFSET STRATEGY



Source: Ulan Coal, Aerial Photo December 2010

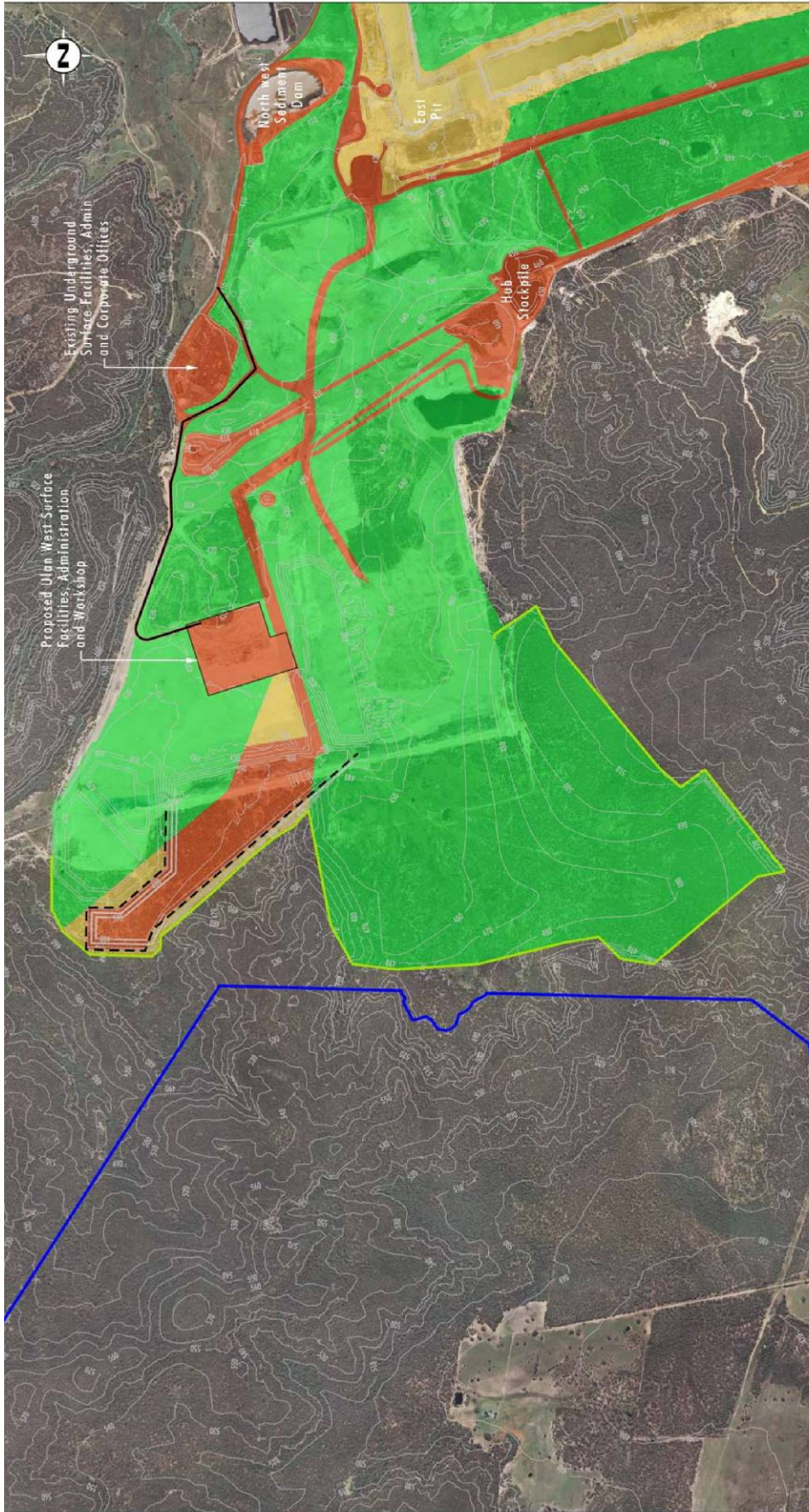
0 1.0 2.5 5.0 km  
1:100 000

### Legend

- |  |   |
|--|---|
| <span style="color: red;">—</span> Colliery Holding Boundary   | <span style="color: black;">- - -</span> Box Cut Option   |
| <span style="color: blue;">—</span> UCML Continued Operations Project Approval Area  | <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Proposed Concrete Batching Plant     |
| <span style="color: green;">—</span> Approved Open Cut Extension   | <span style="border: 1px solid purple; display: inline-block; width: 10px; height: 10px;"></span> Bobadeen Vegetation Offset Area     |
| <span style="border: 1px dashed yellow; display: inline-block; width: 10px; height: 10px;"></span> Ulan West Mine Plan                       | <span style="border: 1px solid cyan; display: inline-block; width: 10px; height: 10px;"></span> Brokenback Conservation Area          |
| <span style="border: 1px dashed orange; display: inline-block; width: 10px; height: 10px;"></span> Ulan No.3 Mine Plan                       | <span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span> Spring Gully Cliffline Management Area |
| <span style="border: 1px dashed grey; display: inline-block; width: 10px; height: 10px;"></span> Previous Underground Mining Operations      | <span style="border: 1px solid pink; display: inline-block; width: 10px; height: 10px;"></span> Grinding Groove Conservation Area     |
| <span style="border: 1px dashed magenta; display: inline-block; width: 10px; height: 10px;"></span> Proposed North 1 Underground Mining Area |   |

**Offset and Management Area**

# APPENDIX 5 CONCEPTUAL REHABILITATION PLAN

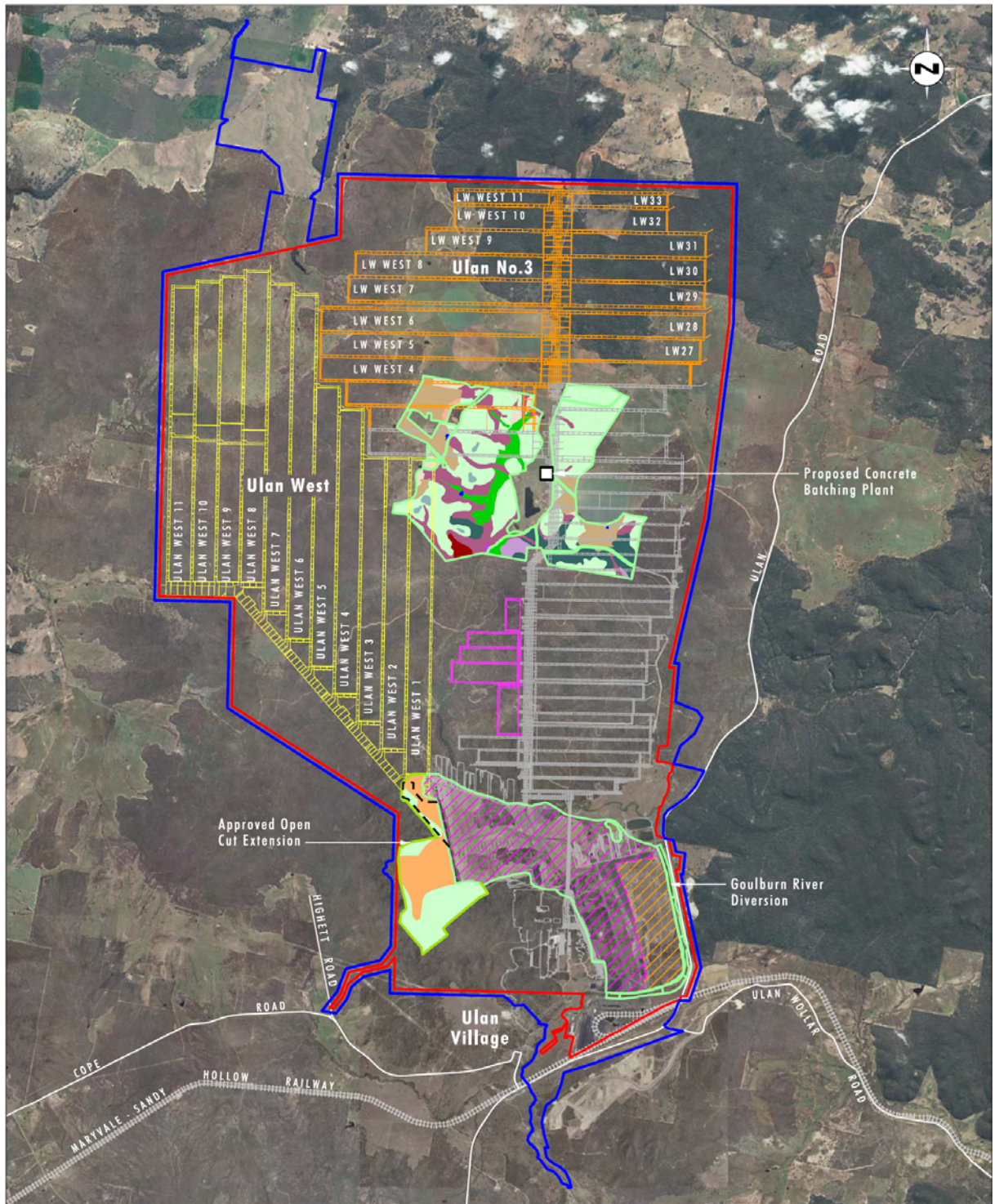


Source: Arkhill Engineers, Downer EDI  
 Note: 1.-Contour Interval 1.0m  
 2.-Refer to figure 5.4.3 to 5.4.7 for the Surface Water Management

**Legend**

- Project Boundary
- Proposed Open Cut Extension
- Infrastructure/Stockpile
- Rehabilitation
- Unshaped Overburden
- Proposed Access Road
- - - Box Cut Option

**Conceptual Open Cut Mining and  
Progressive Rehabilitation  
Year 12**



Source: Ulan Coal, Aerial Photo December 2010

**Legend**

- Colliery Holding Boundary
- UCML Continued Operations Project Approval Area
- Approved Open Cut Extension
- Ulan West Mine Plan
- Ulan No.3 Mine Plan
- Previous Underground Mining Operations
- Proposed North 1 Underground Mining Area
- Box Cut Option
- Proposed Concrete Batching Plant
- Rehabilitation Areas

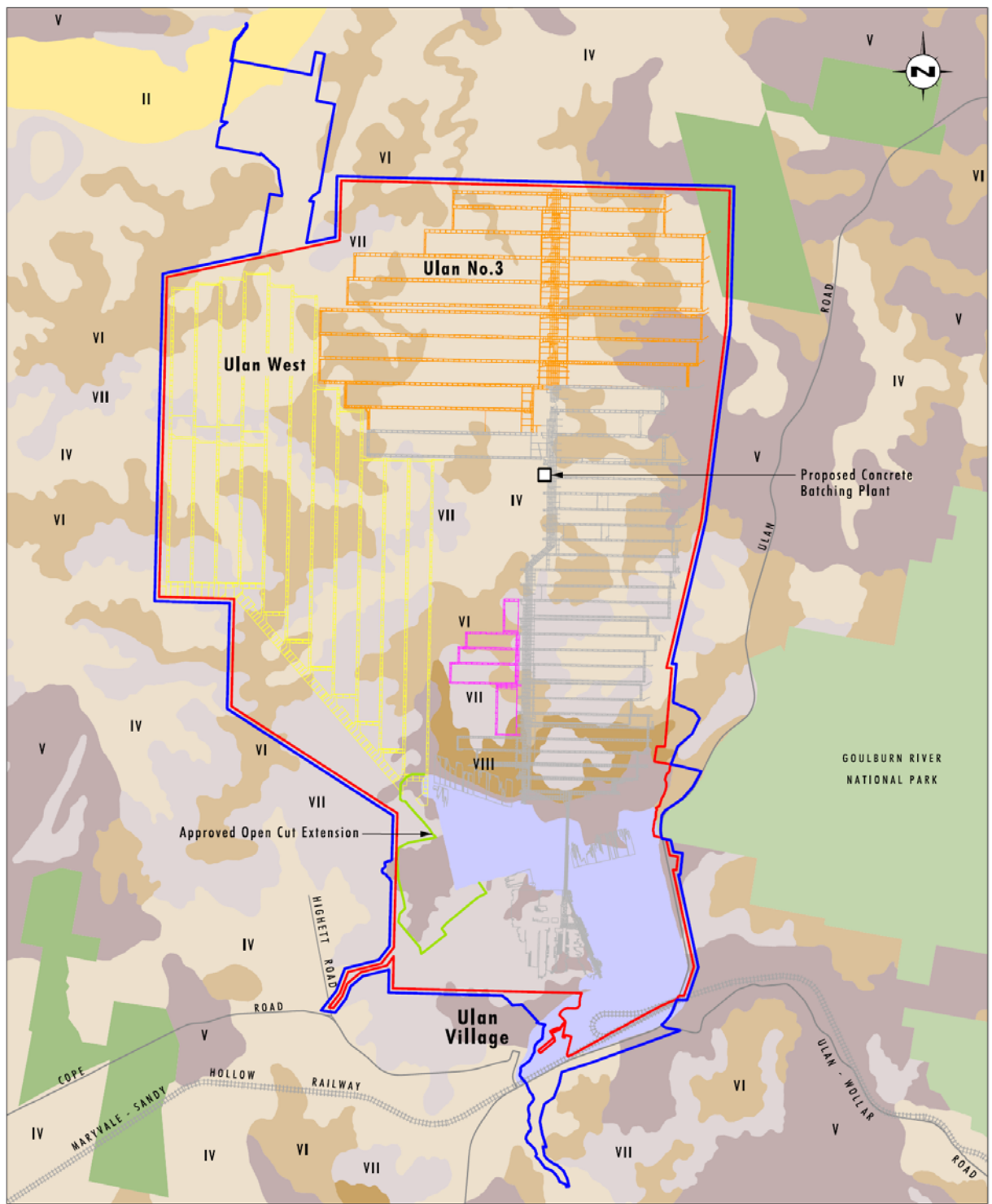
**Post-Revegetation Communities:**

- Ironbark Open Forest Complex on Sandstone
- Modified White Box Woodland
- Narrow-leaved Ironbark Open Forest & Scribbly Gum Woodland - Heathland on Sand Plateaux
- Narrow-leaved Ironbark Open Forest on Alluvium/Colluvium
- Rough-barked Apple Open Forest
- Scribbly Gum Woodland - Heathland on Sand Plateaux
- She-oak Low Forest on Sandstone Crests
- Stringybark-Ironbark Open Forest on Sandstone Slopes
- Blakely's Red Gum Open Forest

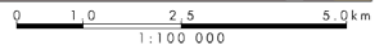
- Cleared
- Derived Native Grassland
- Grey Box Woodland
- Improved Pasture
- Unimproved Pasture
- Water Bodies
- White Box Woodland
- Open Woodland
- Woodland

0 1.0 2.5 5.0 km  
1:100 000

**Revegetation Areas**



Source: Umwelt (2009), Lands NSW (2007) and Ulan Coal

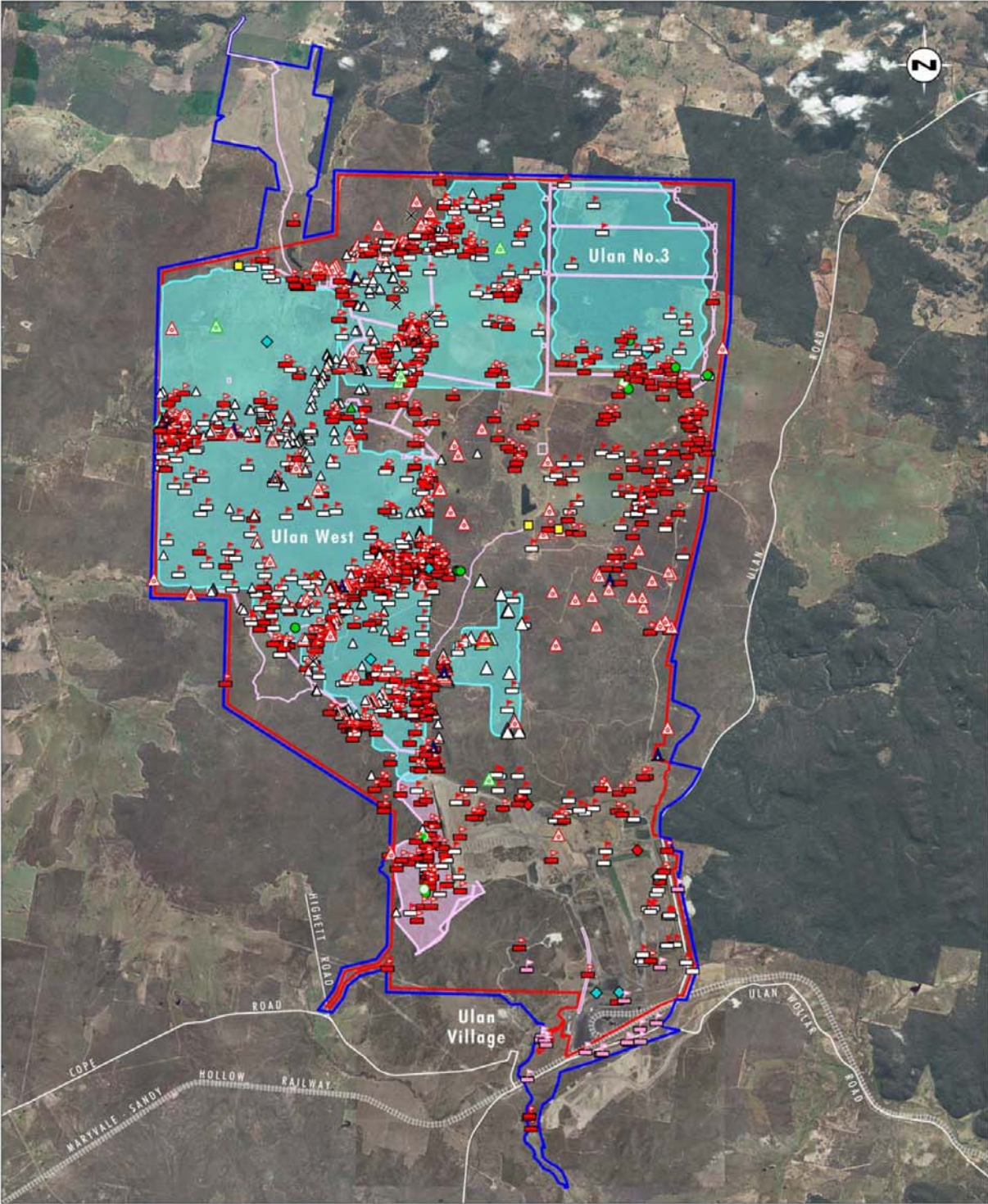


**Legend**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li><span style="color: red;">▬</span> Colliery Holding Boundary</li> <li><span style="color: blue;">▬</span> UCML Continued Operations Project Approval Area</li> <li><span style="color: green;">▬</span> Approved Open Cut Extension</li> <li><span style="border: 1px dashed yellow; display: inline-block; width: 15px; height: 10px;"></span> Ulan West Mine Plan</li> <li><span style="border: 1px dashed orange; display: inline-block; width: 15px; height: 10px;"></span> Ulan No.3 Mine Plan</li> <li><span style="border: 1px dashed grey; display: inline-block; width: 15px; height: 10px;"></span> Previous Underground Mining Operations</li> <li><span style="border: 1px dashed magenta; display: inline-block; width: 15px; height: 10px;"></span> Proposed North 1 Underground Mining Area</li> <li><span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Proposed Concrete Batching Plant</li> <li><span style="background-color: green; display: inline-block; width: 15px; height: 10px;"></span> National Park</li> </ul> | <ul style="list-style-type: none"> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Suitable for Regular Cultivation</li> <li><span style="background-color: #d2b48c; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Suitable for Grazing with Occasional Cultivation</li> <li><span style="background-color: #c0c0c0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Suitable for Grazing with Occasional Cultivation (Structural Soil Conservation Works Required)</li> <li><span style="background-color: #e0e0e0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Suitable for Grazing with No Cultivation</li> <li><span style="background-color: #a0a0a0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Other (Land Best Protected by Green Timber)</li> <li><span style="background-color: #808080; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Other (Unsuitable for Agricultural and Pastoral Production)</li> <li><span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Mining and Quarrying Area</li> <li><span style="background-color: #3cb371; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> State Forest</li> </ul> |
|---|--|

**Land Capability**

# APPENDIX 6 ABORIGINAL HERITAGE SITES



Source: Ulan Coal, SouthEast Archaeology 2009 and Aerial Photo December 2007

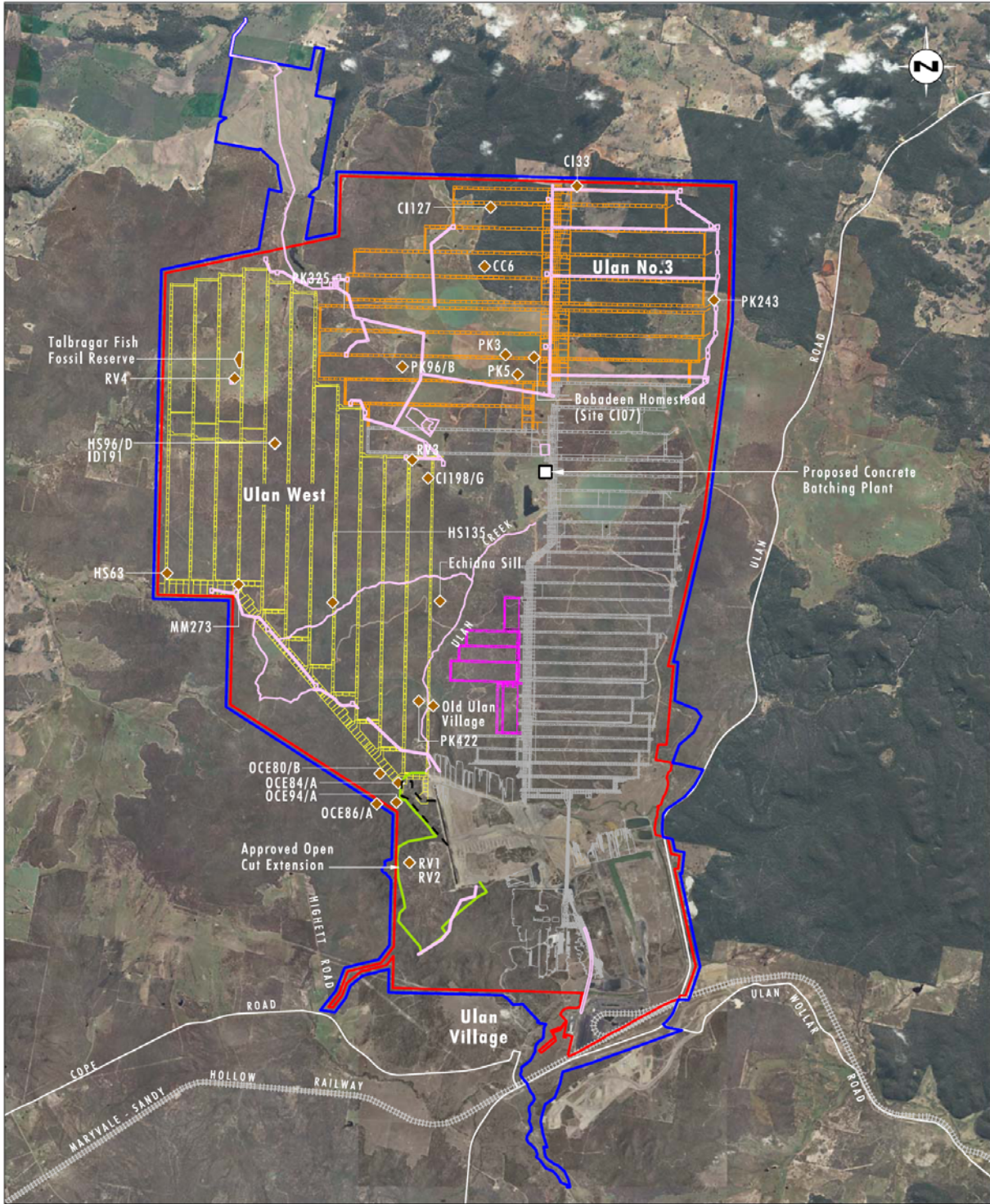
0 1.0 2.5 5.0km  
1:100 000

**Legend**

- |   |  |  |
|---|--|--|
| <span style="color: red;">▭</span> Colliery Holding Boundary                        | <span style="color: yellow;">■</span> Ochre Quarry                     | <span style="color: green;">▲</span> Rockshelter with Art and Grinding Grooves and Artefacts |
| <span style="color: blue;">▭</span> UCML Continued Operations Project Approval Area | <span style="color: purple;">■</span> Open Site                        | <span style="color: green;">▲</span> Rockshelter with Grinding Groove and Artefact           |
| <span style="color: pink;">▭</span> Potential Surface Impacts                       | <span style="color: blue;">▲</span> Rockshelter with Art               | <span style="color: green;">◆</span> Scarred Tree  |
| <span style="color: cyan;">▭</span> Potential Subsidence Impacts                    | <span style="color: red;">▲</span> Rockshelter with Art and Artefacts  | <span style="color: red;">◆</span> Scarred Tree and Artefact Scatter                         |
| <span style="color: red;">■</span> Artefact Scatter                                 | <span style="color: red;">▲</span> Rockshelter with Artefacts          | <span style="color: black;">×</span> Stone Arrangement                                       |
| <span style="color: green;">●</span> Grinding Grooves                               | <span style="color: green;">▲</span> Rockshelter with Grinding Grooves |  |
| <span style="color: green;">○</span> Grinding Grooves and Artefact Scatter          | <span style="color: green;">▲</span> Rockshelter with PAD              |  |
| <span style="color: red;">■</span> Isolated Find                                    | <span style="color: green;">●</span> Waterhole/Well                    |  |

**Aboriginal  
Site Locations**

## APPENDIX 7 HERITAGE SITES



Source: Ulan Coal, Aerial Photo December 2010, Mount King (2008), Umwelt (2009), Kuskie (2008)

0 1.0 2.5 5.0km  
1:100 000

### Legend

- |   |   |
|---|---|
| <span style="color: red;">▬</span> Colliery Holding Boundary                        | <span style="color: black;">- - -</span> Box Cut Option   |
| <span style="color: blue;">▬</span> UCML Continued Operations Project Approval Area | <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Proposed Concrete Batching Plant |
| <span style="color: yellow;">- - -</span> Approved Open Cut Extension               | <span style="color: brown;">◆</span> Historical Sites/Items   |
| <span style="color: yellow;">▬</span> Ulan West Mine Plan                           | <span style="color: pink;">▬</span> Infrastructure Footprint  |
| <span style="color: orange;">▬</span> Ulan No.3 Mine Plan                           |   |
| <span style="color: grey;">▬</span> Previous Underground Mining Operations          |   |
| <span style="color: pink;">▬</span> Proposed North 1 Underground Mining Area        |   |

**European and Natural Heritage  
Sites/Items within Project Area**