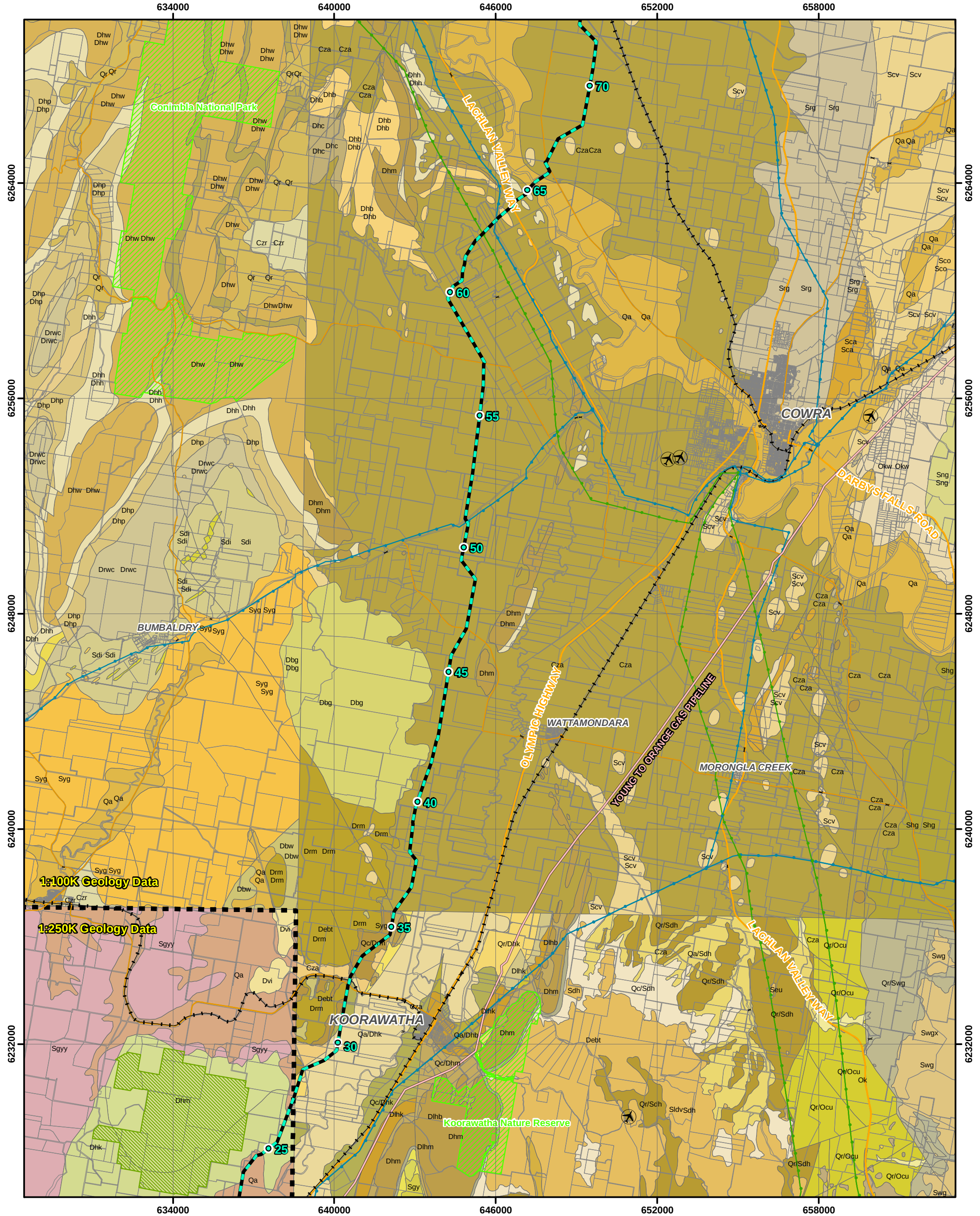


Appendix H – Geology Maps



Proposed Indicative Route
Young to Wellington Gas Pipeline

Cadastre: Department of Lands 2006-2008
Proposed Pipeline Route: LandPartners 2009
Geology: NSW Department of Primary Industries 2008
National Parks: NSW NPWS 2009

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GEOLOGY

0 1 2 4 6 8 10
Kilometers

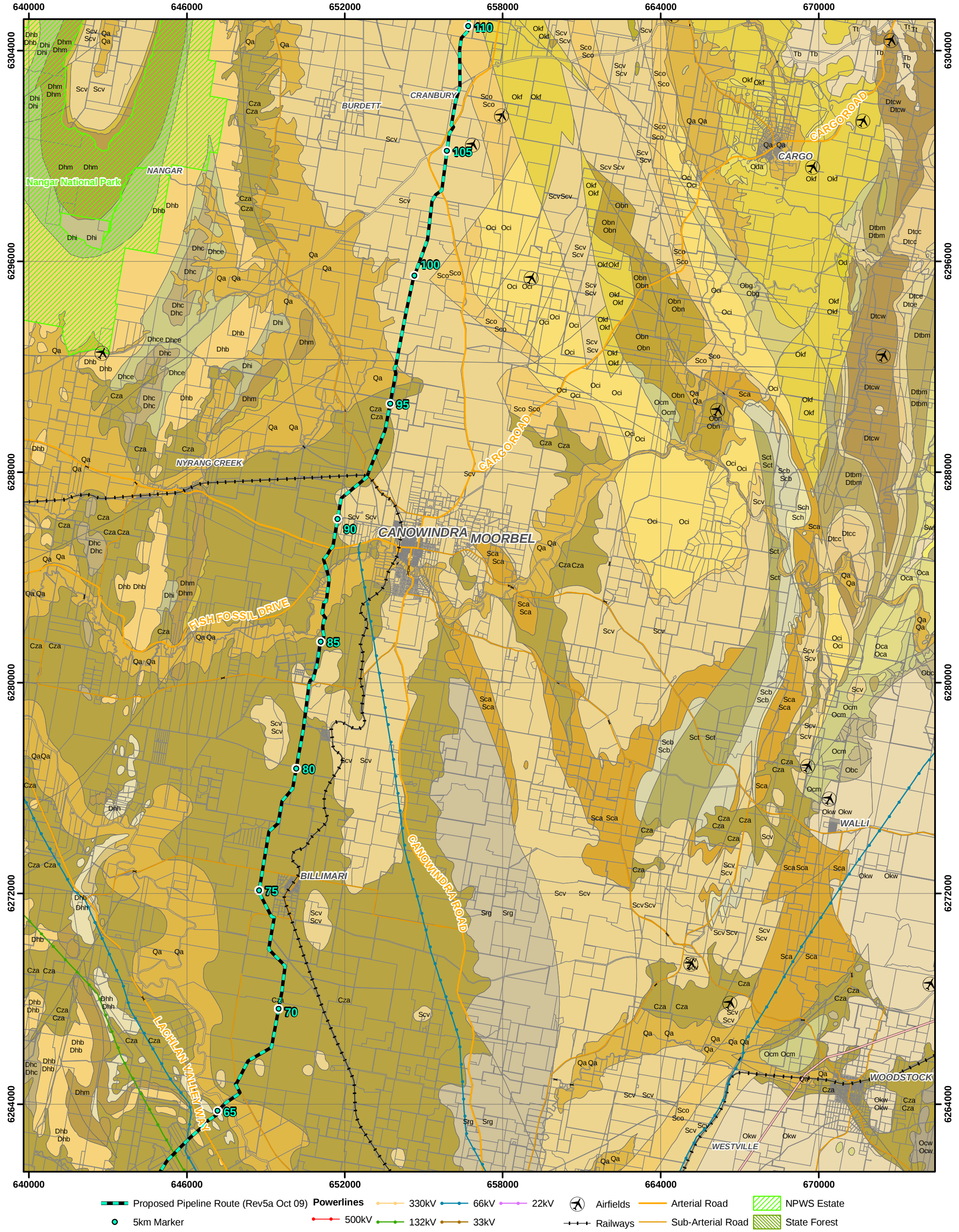
Scale: 1:125,000 @ A3

Coordinate System: MGA94 GDA Zone 55

Level 3, 99 Melbourne Street
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W: www.landpartners.com.au

Client: ERM Power
Drawn by: AV
Approved by: RK
Date: 20-10-2009
Plan: BRRK4317-02-003c



**Proposed Indicative Route
Young to Wellington Gas Pipeline**

Cadastre: Department of Lands 2006-2008
Proposed Pipeline Route: LandPartners 2009
Geology: NSW Department of Primary Industries 2008
National Parks: NSW NPWS 2009

State Forests: Department of Primary Industries 2008
Airfields: Department of Lands 2006-2008
Powerlines: Department of Lands 2006-2008
Roads: Department of Lands 2006-2008
Railways: Department of Lands 2006-2008

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GEOLOGY



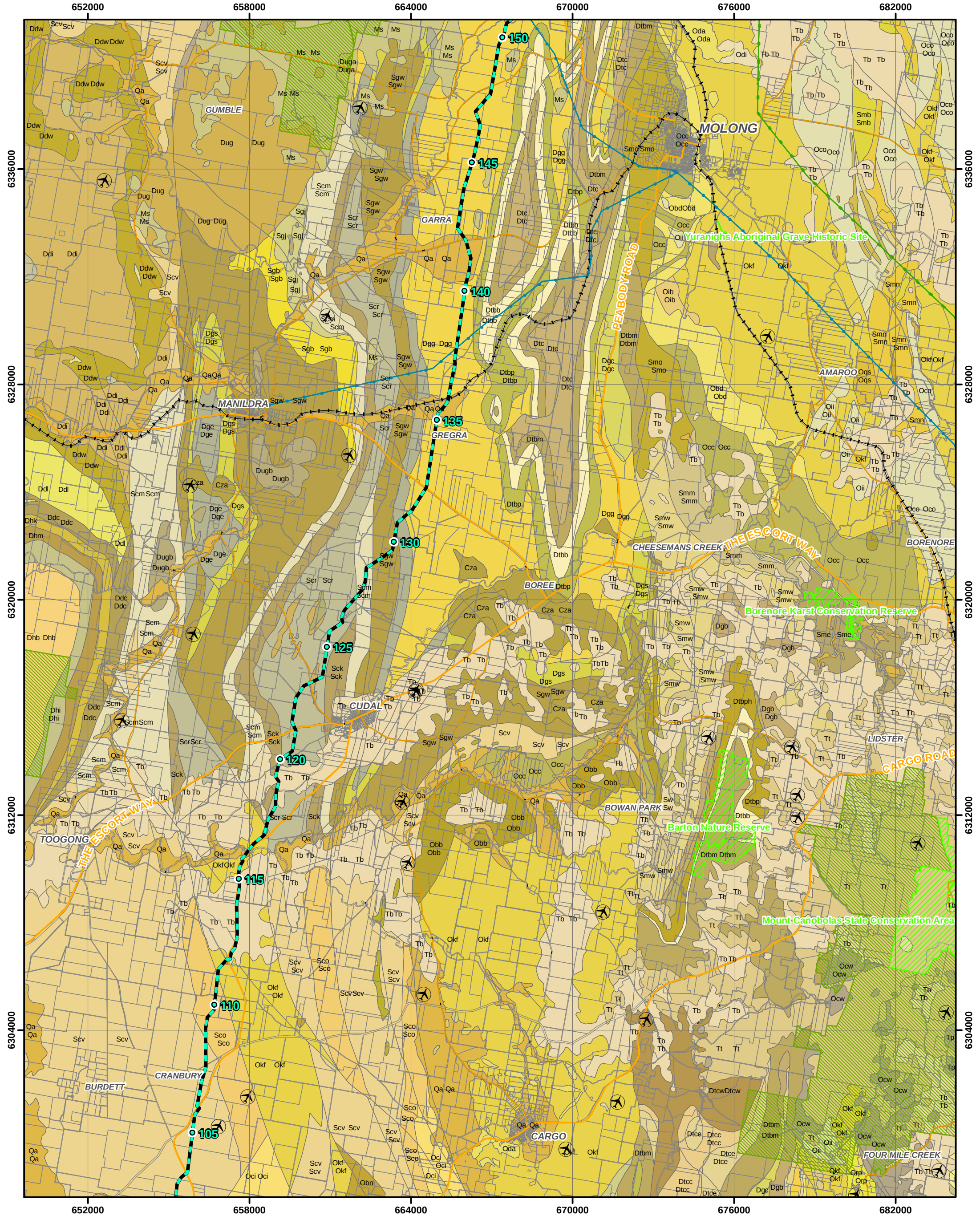
Scale: 1:125,000 @ A3
Coordinate System: MGA94 GDA Zone 55

Sheet 3 of 7

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- Proposed Pipeline Route (Rev5a Oct 09)
- 5km Marker
- Powerlines
- 330kV
- 66kV
- 22kV
- 500kV
- 132kV
- 33kV
- Airfields
- Arterial Road
- Sub-Arterial Road
- Railways
- NPWS Estate
- State Forest

**Proposed Indicative Route
Young to Wellington Gas Pipeline**

Cadastre: Department of Lands 2006-2008
Proposed Pipeline Route: LandPartners 2009
Geology: NSW Department of Primary Industries 2008
Roads: Department of Lands 2006-2008
National Parks: NSW NPWS 2009

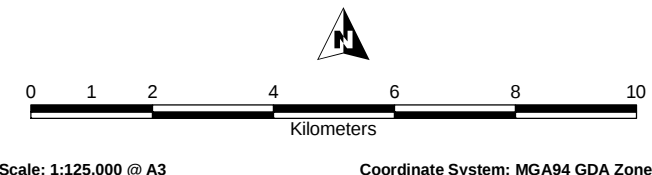
State Forests: Department of Primary Industries 2008
Airfields: Department of Lands 2006-2008
Powerlines: Department of Lands 2006-2008
Roads: Department of Lands 2006-2008
Railways: Department of Lands 2006-2008

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GEOLOGY

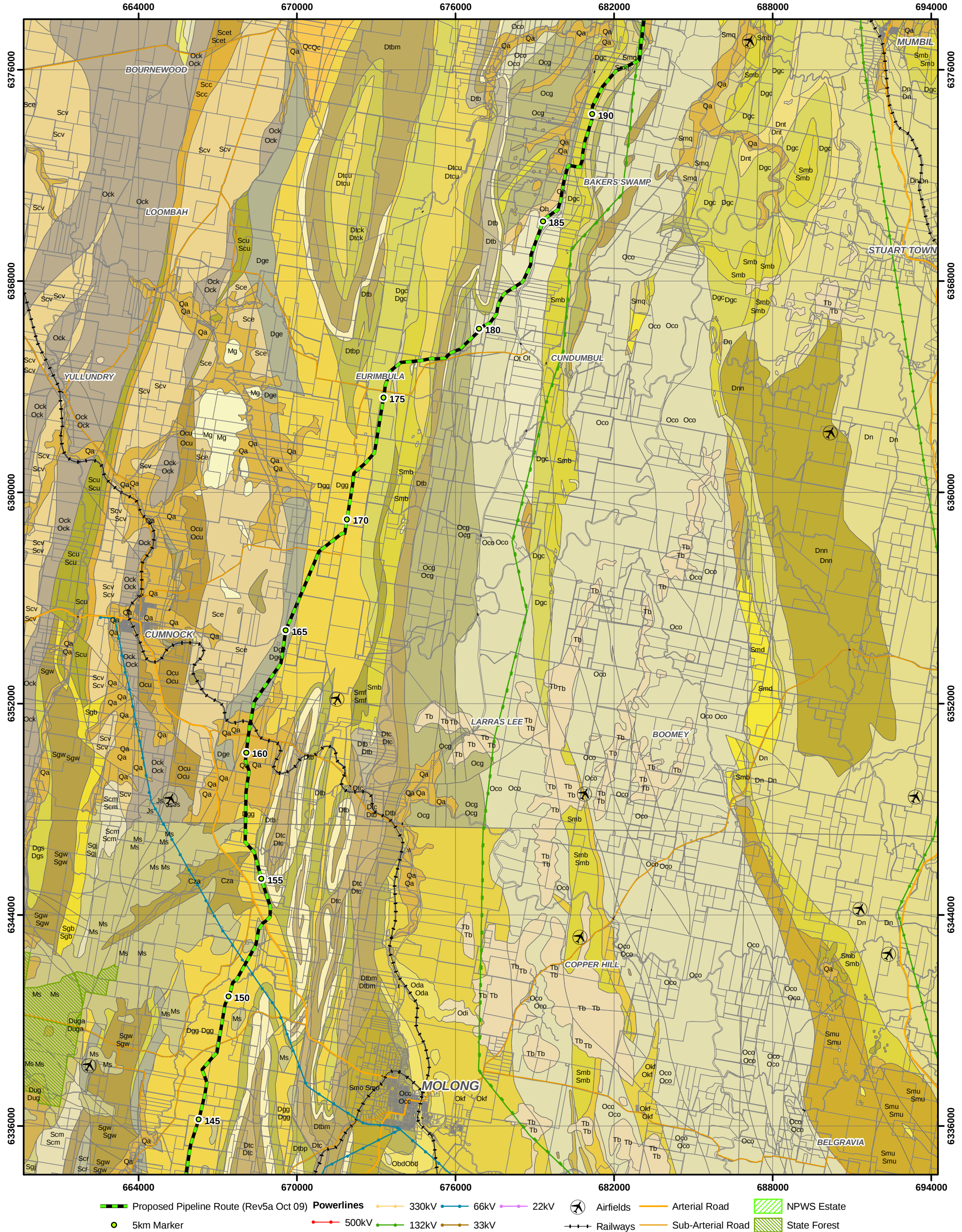
Sheet 4 of 7



ERM
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Approved by: RK
Date: 20-10-2009
Plan: BRRK4317-02-003c



Proposed Indicative Route Young to Wellington Gas Pipeline

Cadastre: Department of Lands 2006-2008
CNC Drive-by Preliminary Route: CNC 2008
LPL Preliminary Desktop Route: LandPartners 2009
Geology: NSW Department of Primary Industries 2008
National Parks: NSW NPWS 2009

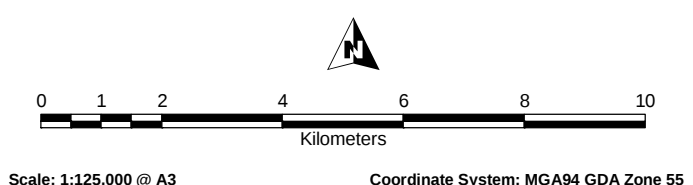
State Forests: Department of Primary Industries 2008
Airfields: Department of Lands 2006-2008
Powerlines: Department of Lands 2006-2008
Roads: Department of Lands 2006-2008
Railways: Department of Lands 2006-2008

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GEOLOGY

Sheet 5 of 7



Level 3, 99 Melbourne Street
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Approved by: RK
Date: 20-10-2009
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1:250,000 Geology Key

OBJECTID *	Letter_symb	Group	Formation	Era
1	Dhk	Hervey Group	Koorawatha Formation	Palaeozoic
2	Dhm	Hervey Group	Mandagery Sandstone	Palaeozoic
3	Qa	<Null>	<Null>	Cainozoic
4	Sgyy	Young Suite	Young Granodiorite	Palaeozoic

1:100,000 Geology Key

OBJECTID *	Letter_sym	Group	Formation	ERA
1	Cdo	OTHER CARBONIFEROUS INTRUSIONS	<Null>	<Null>
2	Cza	CAINOZOIC UNITS	<Null>	<Null>
3	Dbg	DEVONIAN INTRUSIONS	Broula Granite	<Null>
4	Dbw	BLACK RANGE GROUP	Warrangong Volcanics	<Null>
5	Dgc	GREGRA GROUP	Cuga Burga Volcanics	Palaeozoic
6	Dge	GREGRA GROUP	Berkley Formation	Palaeozoic
7	Dgg	GREGRA GROUP	Garra Formation	Palaeozoic
8	Dgs	GREGRA GROUP	Maradana Shale	<Null>
9	Dhb	HERVEY GROUP	Bum berry Formation	<Null>
10	Dhh	HERVEY GROUP	Hunter Formation	<Null>
11	Dhm	HERVEY GROUP	Mandagery Formation	<Null>
12	Drm	DEVONIAN INTRUSIONS	Crowther Monzodiorite	<Null>
13	Dtb	CATOMBAL GROUP	Undifferentiated	Palaeozoic
14	Dtbb	CATOMBAL GROUP	Brymedura Sandstone	Palaeozoic
15	Dtbm	CATOMBAL GROUP	Macquarie Park Sandstone	Palaeozoic
16	Dtbp	CATOMBAL GROUP	Paling Yard Formation	Palaeozoic
17	Dtc	CATOMBAL GROUP - Canangle Subgroup	Canangle Subgroup undifferentiated	<Null>
18	Dtck	CATOMBAL GROUP	Kurrool Formation	Palaeozoic
19	Dtcu	CATOMBAL GROUP	Curra Creek Conglomerate	Palaeozoic
20	Js	SURAT BASIN (of the GREAT AUSTRALIAN BASIN)	<Null>	Mesozoic
21	Ms	CAINOZOIC UNITS	<Null>	<Null>
22	Obn	BARRAJIN GROUP	Canomodine Limestone	<Null>
23	Ocg	CABONNE GROUP	Fairbridge Volcanics	Palaeozoic
24	Ocgl	CABONNE GROUP	<Null>	Palaeozoic
25	Ocgw	CABONNE GROUP	Wahringa Limestone Member	Palaeozoic
26	Oco	CABONNE GROUP	Oakdale Formation	Palaeozoic
27	Oh	UNGROUPED EARLY ORDOVICIAN FORMATIONS	Hensleigh Siltstone	Palaeozoic
28	Okf	KENILWORTH GROUP	Fairbridge Volcanics	<Null>
29	Ot	UNGROUPED EARLY ORDOVICIAN FORMATIONS	Mitchell Formation	Palaeozoic
30	Qa	CAINOZOIC UNITS	<Null>	Cainozoic
31	Qa/Dhb	HERVEY GROUP	Bum berry Formation	<Null>
32	Qa/Dhk	HERVEY GROUP	Koorawatha Formation	<Null>
33	Qa/Dhm	HERVEY GROUP	Mandagery Formation	<Null>
34	Qa/Drm	EARLY DEVONIAN INTRUSIONS	Crowther Monzodiorite	<Null>
35	Qc/Dhb	HERVEY GROUP	Bum berry Formation	<Null>
36	Qc/Dhk	HERVEY GROUP	Koorawatha Formation	<Null>
37	Qc/Dhm	HERVEY GROUP	Mandagery Formation	<Null>
38	Qc/Drm	EARLY DEVONIAN INTRUSIONS	Crowther Monzodiorite	<Null>
39	Qr/Dhk	HERVEY GROUP	Koorawatha Formation	<Null>
40	Qr/Drm	EARLY DEVONIAN INTRUSIONS	Crowther Monzodiorite	<Null>
41	Qr/Swg	WYANGALA BATHOLITH	Wyangala Granite	<Null>
42	Sce	CUDAL GROUP	Hanover Formation	Palaeozoic
43	Sck	CUDAL GROUP	Kurrajong Park Formation	<Null>
44	Scm	CUDAL GROUP	Mackeys Creek Shale	<Null>
45	Sco	CUDAL GROUP	Gospel Oak Formation	<Null>
46	Scr	CUDAL GROUP	Greengrove Formation	<Null>
47	ScrI	CUDAL GROUP	Greengrove Formation	<Null>
48	Scv	CUDAL GROUP	Canowindra Volcanics	<Null>
49	Sgw	GOONIGAL GROUP	Wansey Formation	<Null>
50	Smb	MUMBIL GROUP	Barnby Hills Shale	Palaeozoic
51	SmbI	MUMBIL GROUP	<Null>	Palaeozoic
52	Smbv	MUMBIL GROUP	<Null>	Palaeozoic
53	Smd	MUMBIL GROUP	Dripstone Formation	Palaeozoic
54	Smda	MUMBIL GROUP	Warderie Volcanic Member	Palaeozoic
55	Smdb	MUMBIL GROUP	Bell River Member	Palaeozoic
56	Smdw	MUMBIL GROUP	Wylinga Member	Palaeozoic
57	Smf	MUMBIL GROUP	Camelford Limestone	Palaeozoic
58	Smq	MUMBIL GROUP	Narragal Limestone	Palaeozoic
59	Srg	OTHER SILURIAN INTRUSIONS	Cowra Granodiorite	<Null>
60	Tb	CAINOZOIC UNITS	<Null>	Cainozoic
61	Tg	CAINOZOIC UNITS	<Null>	Cainozoic