



Mount Thorley Operations 2014

2

Environmental Impact Statement

Prepared for Mt Thorley Operations Pty Limited | June 2014

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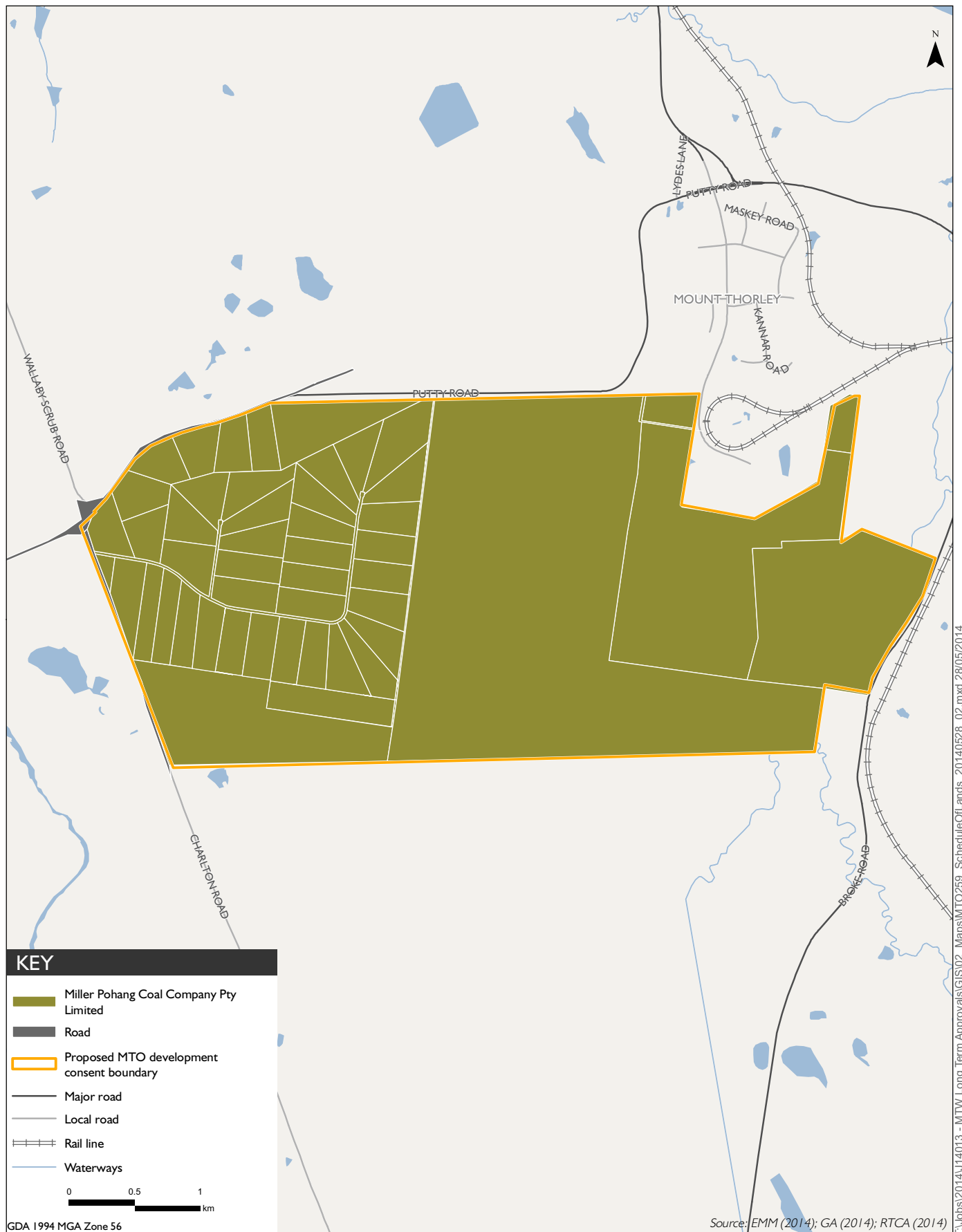
Appendix A

Schedule of land



Appendix A — Schedule of land

A



LOT	DP	OWNER
1	45576	Miller Pohang Coal Company Pty Limited
36	755270	Miller Pohang Coal Company Pty Limited
29	248429	Miller Pohang Coal Company Pty Limited
28	248429	Miller Pohang Coal Company Pty Limited
271	600747	Miller Pohang Coal Company Pty Limited
8	251238	Miller Pohang Coal Company Pty Limited
1	42614	Miller Pohang Coal Company Pty Limited
37	248429	Miller Pohang Coal Company Pty Limited
39	248429	Miller Pohang Coal Company Pty Limited
3	247340	Miller Pohang Coal Company Pty Limited
1	247340	Miller Pohang Coal Company Pty Limited
555	609997	Miller Pohang Coal Company Pty Limited
35	248429	Miller Pohang Coal Company Pty Limited
17	658927	Miller Pohang Coal Company Pty Limited
41	248429	Miller Pohang Coal Company Pty Limited
43	248429	Miller Pohang Coal Company Pty Limited
6	247340	Miller Pohang Coal Company Pty Limited
8	247340	Miller Pohang Coal Company Pty Limited
19	247339	Miller Pohang Coal Company Pty Limited
46	248429	Miller Pohang Coal Company Pty Limited
708	749857	Miller Pohang Coal Company Pty Limited
22	263943	Miller Pohang Coal Company Pty Limited
2	42614	Miller Pohang Coal Company Pty Limited
9	247340	Miller Pohang Coal Company Pty Limited
7	247340	Miller Pohang Coal Company Pty Limited
272	600747	Miller Pohang Coal Company Pty Limited
271	260663	Miller Pohang Coal Company Pty Limited
38	248429	Miller Pohang Coal Company Pty Limited
4	247340	Miller Pohang Coal Company Pty Limited
2	247340	Miller Pohang Coal Company Pty Limited
56	755270	Miller Pohang Coal Company Pty Limited
36	248429	Miller Pohang Coal Company Pty Limited
42	248429	Miller Pohang Coal Company Pty Limited
12	247340	Miller Pohang Coal Company Pty Limited
14	247340	Miller Pohang Coal Company Pty Limited
34	248429	Miller Pohang Coal Company Pty Limited
18	247340	Miller Pohang Coal Company Pty Limited
16	247340	Miller Pohang Coal Company Pty Limited
31	248429	Miller Pohang Coal Company Pty Limited
10	247340	Miller Pohang Coal Company Pty Limited
44	248429	Miller Pohang Coal Company Pty Limited

LOT	DP	OWNER
33	248429	Miller Pohang Coal Company Pty Limited
11	247340	Miller Pohang Coal Company Pty Limited
30	248429	Miller Pohang Coal Company Pty Limited
5	247340	Miller Pohang Coal Company Pty Limited
13	247340	Miller Pohang Coal Company Pty Limited
45	248429	Miller Pohang Coal Company Pty Limited
273	260663	Miller Pohang Coal Company Pty Limited
15	247340	Miller Pohang Coal Company Pty Limited
17	247340	Miller Pohang Coal Company Pty Limited
40	248429	Miller Pohang Coal Company Pty Limited
32	248429	Miller Pohang Coal Company Pty Limited
1	43422	Miller Pohang Coal Company Pty Limited

Appendix B

Study team



Appendix B — Study team

B

Table B.1 Study team

Role	Person	Organisation	Qualifications
Lead consultancy			
Project director	Luke Stewart	EMM	BAppSc (Hons)
Project manager	Duncan Peake	EMM	BSc (Hons)
Project coordinator	Andrew Wiltshire	EMM	BSc (Geography), PGDip (EnvMgt)
Contributing authors	Rachael Russell	EMM	BSc, MEnvP
	Kate Cox	EMM	BSc (Marine Science)
	Robert Janssen	EMM	BSc, DipBus
	Rebecca Newell	EMM	BA (Hons Class 1)
Graphics	Antony Edenhofner	EMM	BSc (Applied Economic Geography)
	Robyn Sharpe	Sharper Graphics	DipA(Graphic Design and Advertising)
Administrative support	Jamie Wharemate	EMM	-
Technical specialists			
Aboriginal cultural heritage	David Cameron	Rio Tinto Coal Australia	BA, BA(Hons), PhD (Economic History)
	Luke Goodwin	Central Queensland Cultural Heritage Management	BA(Hons), PhD
	Joel Deacon	Rio Tinto Coal Australia	BA (Hons)
Air quality	Aleks Todoroski	Todoroski Air Sciences	BE(Mech)
	Philip Henschke	Todoroski Air Sciences	BSc
Economics	Brian Fisher	BAEconomics	BScAgr (Hons I)
	Sabine Schnittger	BAEconomics	DipEc, MMatEcon
Groundwater	James Tomlin	AGE Consultants	BSc (Env Studies), MSc (Hydrogeology), CertSc (Geology)
	Doug McAlister	AGE Consultants	MAppSc, Hydrogeology
Noise and vibration	Najah Ishac	EMM	MEngSc, BE (Mech)
	Daniel Weston	EMM	BEngTech (Audio), MDesSc (Acoustics)
	David Sallak	EMM	BE (Mech), Dip (Mech Eng)
Social and consultation	Brett McLennan	EMM	BTP (Hons), BSc (Hons)
	Michael Askew	EMM	Bbus (Management, Environmental & Urban), MEnvSt, PhD (Environmental Studies)
Surface water	Louise Askew	EMM	PhD (Geography), BSc (Hons)
	David Newton	WRM Water and Environment	BE (Hons), MEngSt, PhD (CPEng)
	Tallulah Kaegi	WRM Water and Environment	BE (Hons)
Traffic	Tim Brooker	EMM	PhD, BScEng
Visual	Esther Dickens	IDS	BA Design (Hons) (Landscape Architecture)

Appendix C

Surrounding residences and assessment locations



Appendix C — Surrounding residences and assessment locations

C

Assessment location ID	Property owner
1	Judith Leslie
2	Shayne Aaron Currie
3	Charleroi Pty Limited
4	Graeme O'Brien & Susann Florence O'Brien
5	Daniel Bruce Jones
6	Russell James Doidge, TrINETTE Louise Reid
7	Darral Keith Margery & Annette Gaye Margery
8	Laurence Fletcher, Margaret Ann Fletcher
9	Donald Bruce Roser
10	Andrew Mark Robey, Kim Luanne Robey
11	Wambo Mining Corporation Pty. Limited
12	Ronald Alexander Corino, Pauline Rayner
13	Ilario Francisco Circosta, Maria Angela Circosta*
14	Karin Margaret Hunt
15	William Lindsay Gordon Slaney, Peta Slaney
16	Leona Ann Williams
17	George David Lianos, Honor Claire Lianos
18	Barry John Anderson, Melissa Gai Anderson
19	Denis Cyril Maizey, Elaine Margaret Maizey
20	Gregory William Banks, Marion Elizabeth Banks
21	Gregory William Banks, Marion Elizabeth Banks
22	Elizabeth Mackenzie
23	Peter Jason Kolatchew, Heidi Kolatchew
24	Ronald Garry Bailey, Fiona Susan Bailey
25	William George Joseph Lambkin, Dawn Lambkin*
26	Barbara Gae Harrison, Trevor Eric Harrison
27	Warkworth Mining Limited
28	Hubert George Upward
29	Ilario Francisco Circosta, Maria Angela Circosta*
30	Damien Michael Hanson, Danielle Louise Hanson
31	Gregory Malcolm Caban
32	Paul Mark Dunn, Susan Joy Urwin
33	Ian Norris Bartholomew, Annette Maria Bartholomew
34	Allan Clyde Lepisto, Nerida Lepisto
35	Lawrence Malcolm Caban, Rhonda Beryl Caban
36	Raymond Carl Powell
37	Gregory Paul Crowe
38	Benjamin John Street, Jami Ann Street
39	Gregory John Mcnaught
40	Margaret Player, John MacLachlan Player
41	Hubert George Upward
42	Mark Anthony Lancaster, Debbie Marie Lancaster
43	Geoffrey Allen Burgess, Betty Joy Burgess
44	Barry Fogwell
45	Adam Charles Cameron
46	Jason Phillip Horn
47	Philip Adamthwaite

Assessment location ID	Property owner
48	Brett James Gallagher, Rebecca Louise Gallagher
49	John Thompson, Delwyn Kay Jackson
50	Bradley Richard Sales, Sharon Ann Bellamy
51	Warkworth Mining Limited
52	Stewart James Mitchell, Marie Clare Mitchell
53	Robert McLaughlin
54	Christopher Stanley Neville & Elizabeth Ann Neville
55	Robert John Evans
56	Leonard Walter Mclachlan, Noelene Rita Mclachlan
57	Paul William Harris, Tracey Anne Swindail
58	David Andrew Gregory
59	Warkworth Mining Limited
60	Vaughan Thomas Cagney, Candice Rose Albert
61	Darrell Stanley Kaizer
62	Dwi Octaviani
63	Margueriette Ann Henneberry, Paul Andrew Burgess
64	Dusko Dragicevic, Milan Dragicevic
65	Gordon Keith Grainger, Selma Rosalind Grainger
66	Michael Vivian Bendall, Sue-Ellen Bendall
67	Michael Shane Dawson & Suzana Dawson
68	Warkworth Mining Limited
69	Warkworth Mining Limited
70	Peter Francis Ritchie And Fiona Jennifer Ritchie
71	Robert Ian Hedley, Jan Maree Louis
72	Frank Henry Turnbull
73	Phillip Joseph Reid, Carol Reid
74	Ronald Guy Godyn, Anne-Marie Godyn
75	Lindsay Robert Smith, Jillian Maree Smith
76	The State Of New South Wales
77	William Joseph Kelly, Marie Joyce Kelly, Lawrence Kelly
78	Warkworth Mining Limited
79	Wambo Mining Corporation Pty. Limited
80	Dimitrious Vikas & Joy Mary Vikas
81	Agl Energy Limited
82	Stephen Glenn Williamson, Nicole Leanne Highett
83	Xstrata Coal Pty Limited
84	Mary Veronica Thompson
86	The State Of New South Wales
87	Andre Marc Renaud, Noela Mary Renaud*
89	Bryan Dudley Medhurst
90	Coal & Allied Operations Pty Limited
91	Wambo Coal Pty Limited
92	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
93	Coal & Allied Operations Pty Limited
94	Wambo Coal Pty Limited
95	Miller Pohang Coal Company Pty Limited
96	Wambo Mining Corporation Pty. Limited

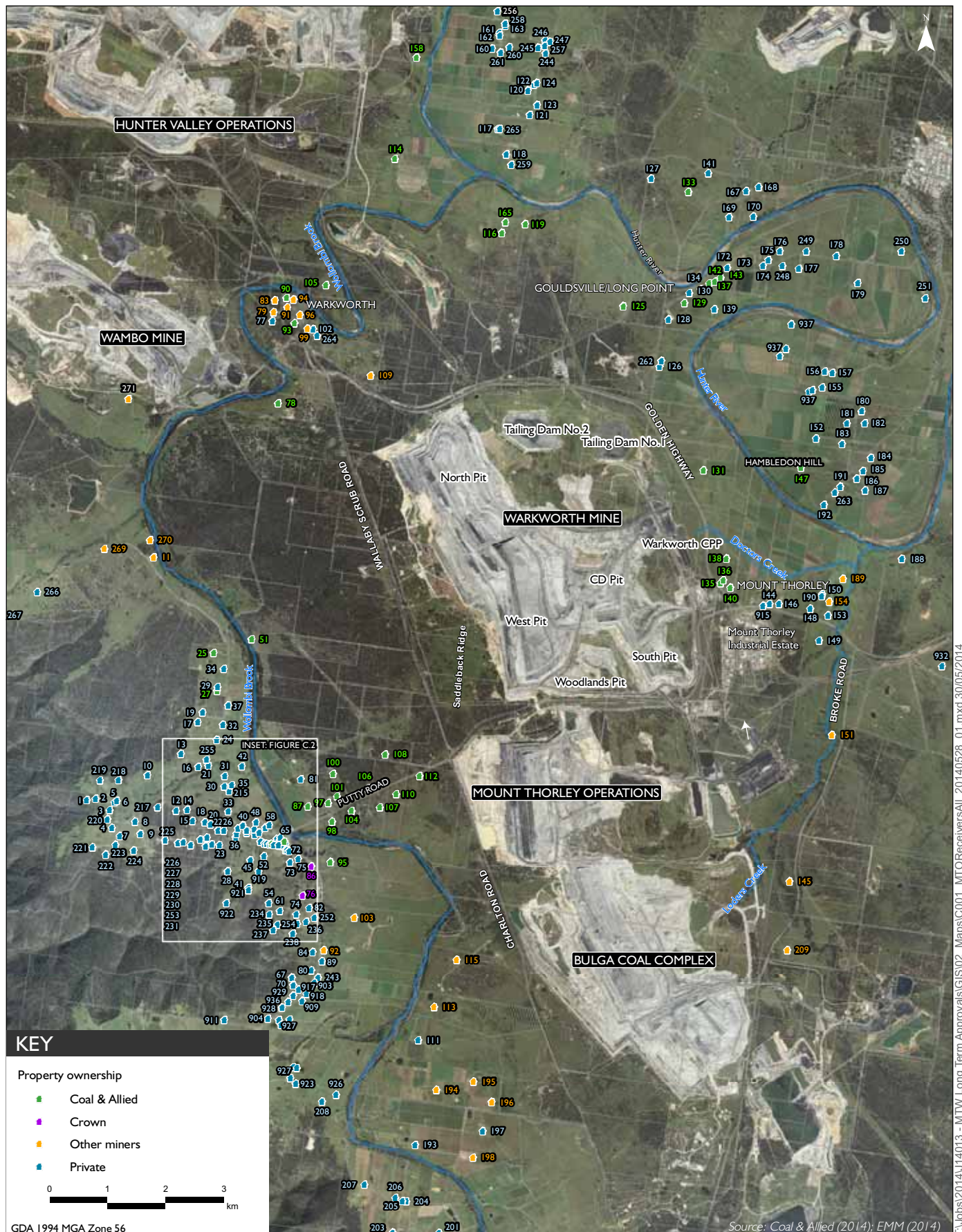
Assessment location ID	Property owner
97	Warkworth Mining Limited
98	Miller Pohang Coal Company Pty Limited
99	Wambo Coal Pty Limited
100	Miller Pohang Coal Company Pty Limited
101	Miller Pohang Coal Company Pty Limited
102	Brian Edward Kennedy, John Griffiths
103	Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited
104	Miller Pohang Coal Company Pty Limited
105	Coal & Allied Operations Pty Limited
106	Miller Pohang Coal Company Pty Limited
107	Miller Pohang Coal Company Pty Limited
108	Miller Pohang Coal Company Pty Limited
109	Xstrata Coal (Nsw) Pty Limited
110	Miller Pohang Coal Company Pty Limited
111	Ian Wallace Russell
112	Miller Pohang Coal Company Pty Limited
113	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
114	Coal & Allied Operations Pty Limited
115	Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited
116	Coal & Allied Operations Pty Limited
117	Phillip John Algie, Colleen Ann Maree Algie
118	Robert John Algie
119	Coal & Allied Operations Pty Limited
120	Russell John Wenham, Janelle Susan Wenham
121	Julie Gai Ernst, Gregory John Ernst
122	Stephen Douglas Edwards, Terri-Anne Howard, Joselyn Vida Clifton
123	Neil Robert Nelson, Glenda Joy Nelson
124	Stephen Douglas Edwards, Terri-Anne Howard, Joselyn Vida Clifton
125	Coal & Allied Operations Pty Limited
126	Peter Glen Stuart
127	Noel Francis Riley, Elaine Roslyn Riley
128	Warren John Welsh, Adam John Young
129	Coal & Allied Operations Pty Limited
130	Francescantonio Ventra, Joanne Ventra
131	Warkworth Mining Limited
133	Coal & Allied Operations Pty Limited
134	Andrew Arthur Barrett, Nicole Maree Kenny
135	Warkworth Mining Limited
136	Warkworth Mining Limited
137	Coal & Allied Operations Pty Limited
138	Warkworth Mining Limited
139	Kevin Denis Hartcher, Linda Anne Hartcher
140	Warkworth Mining Limited
141	Warren Thomas Barry, Lesley Una Barry
142	Coal & Allied Operations Pty Limited
143	Coal & Allied Operations Pty Limited
144	Jason Cyril Rumbel, Rebecca Ruth Rumbel

Assessment location ID	Property owner
145	Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited
146	Paul Henry Russell
147	Warkworth Mining Limited
148	Dorothy Clare Russell
149	Timothy Peter Hedley
150	Keith David Isaac, Sharon Ann Isaac
151	Bulga Coal Management Pty Limited
152	Graham Edwin Berry, Elizabeth Anne Berry
153	Thomas William Kermode, Kathleen May Kermode
154	Bulga Coal Management Pty Limited
155	Trevor Keith Berry, Graham Edwin Berry
156	Jean Mary O'Hara
157	Jean Mary O'Hara
158	Coal & Allied Operations Pty Limited
160	Elizabeth Stuart Bowman
161	Wyoming Holsteins Pty Limited
162	Wyoming Holsteins Pty Limited
163	Wyoming Holsteins Pty Limited
165	Coal & Allied Operations Pty Limited
167	Nathan James Laing
168	Stuart Francis Nichol Wright, Pamela Lynn Wright
169	Harold Douglas Hobden
170	John Marcheff
172	John Stuart Gough, Lynette Jean Gough
173	Michael John Wellard, Faye Denise Wellard
174	Margaret Anne Neal
175	Bradley John Halter
176	Michael Raymond Mapp, Shirley Maree Mapp
177	Greig Andrew Delaney
178	Craig Ian Flissinger, Catherine Anne Flissinger
179	Tickalara Pty. Limited
180	Bruce Graham Moore
181	David Charles Vassallo, Sheree Ann Vassallo
182	Robert Francis Holstein And Andrea Terry Holstein
183	Paul Anthony Cavanough, Jacinta Jade Dawkins
184	Campbell Stuart Ball And Gail Agnes Ball
185	Leonard Dale Franks
186	Leonard Dale Franks
187	Keith Heuston Pty. Limited
188	Comserve (No.932) Pty Ltd
189	Bulga Coal Management Pty Limited
190	Keith David Isaac, Sharon Ann Isaac
191	Robert John Vidler, Coral May Vidler
192	Jean Mary O'Hara
193	Robert Kennedy
194	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
195	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited

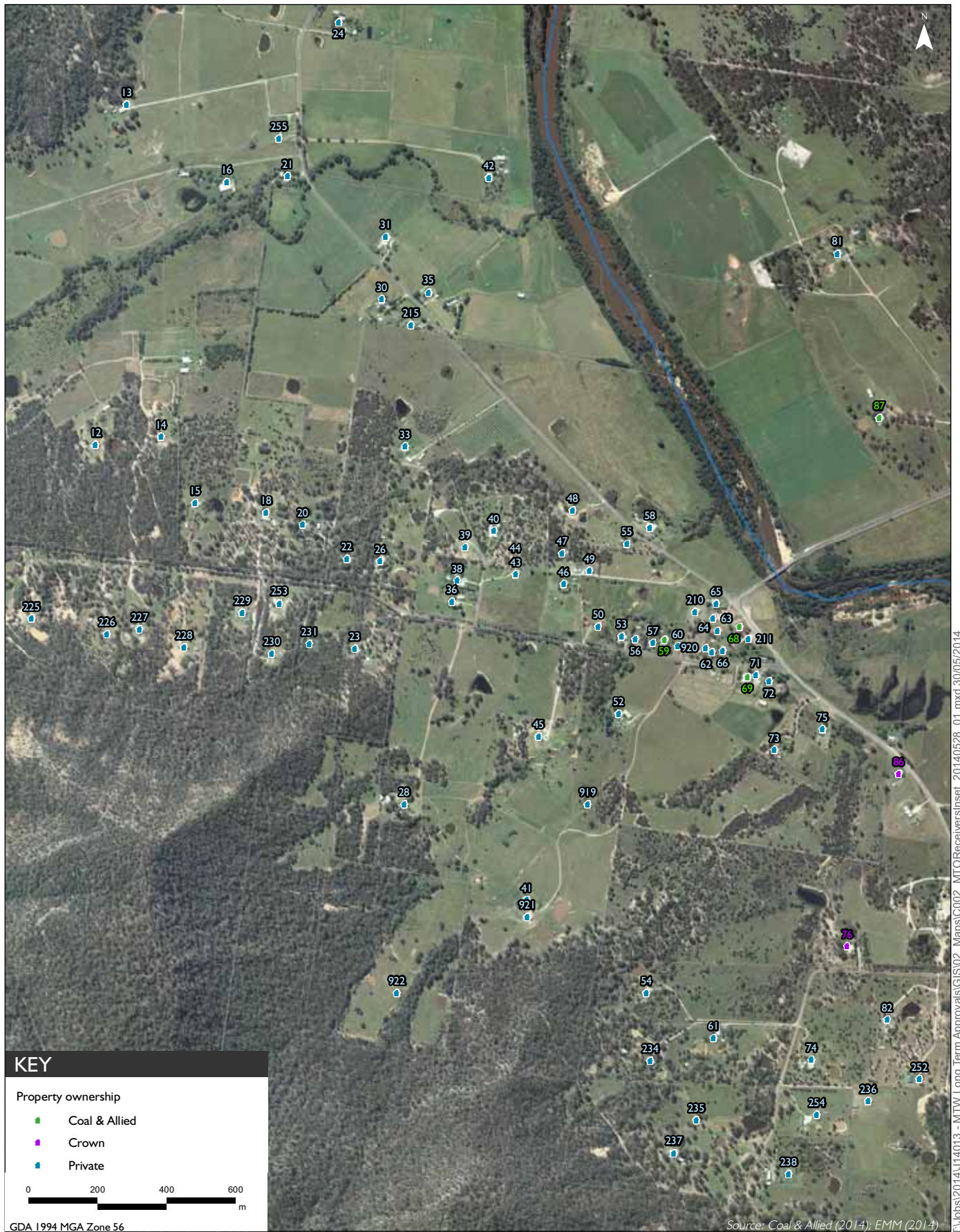
Assessment location ID	Property owner
196	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
197	Robert Kennedy
198	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
199	Adrian Garton, Susan Jean Garton
200	Karren Anne Mccraw, Kenneth Ian Mccraw
201	Richard James Owens
202	Richard James Owens
203	Grapemen Holdings Pty Limited
204	Brenda Joan Tanner
205	Victoria Ann Foster
206	Theo Poulos, Maria Poulos
207	John Stephen Tulloch
208	Cybele Genevieve Orton
209	Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited
210	Meria Violet Ford
211	Mike Dean Silk, Antoinette Silk
215	Allan Wayne Louis, Cheryl Anne Louis
217	Packtron Packaging Pty Limited
218	Phillip John Haerse, Elizabeth Rae Haerse
219	Philip Geoffrey Carroll
220	George Jiri Tlaskal
221	Christina Mary Metlikovec
222	John Vincent Putland
223	Andrew Glenn Upward
224	Rex Wayne Davis, Heather Anne Davis
225	Anthony and Trudie Seibel – Barnes
226	Neale McCallum, Julie Marie McNaughton
227	Ian Wyn Jones, Karen Michelle Jones
228	Jason Peter Passlow, Belinda Louise Lee
229	Maurice Francis Chapman, Nellie Vera Chapman
230	Paul Dermot Byrne O'Toole, Melissa Jane O'Toole
231	Mark Mcalpin Roser, Nicole Roser
234	Robert John Bridge, Kylie Terese Bridge
235	Garrett James Walters & Clare Joanne Gowans
236	Scott Francis Ryan
237	Leslie Carol Krey
238	Raymond George Caban, Kathryn Louise Caban
243	John Patrick Cant, Cherie Margaret Cant
244	Todd Anthony Mills, Sharron Ann Mills
245	Chriss Ivan Maskey
246	Paul Raymond Burley, Catherine Maree Burley
247	Tony Zanardi, Sandra Maree Zanardi
248	Keith Joseph Horne
249	Thomas William Watson, Betty Watson
250	John Michael Woods
251	Frederick John & Carole Maria Flinn
252	Jaques Family Investments Pty Limited

Assessment location ID	Property owner
253	Stuart Edward Reakes
254	Peter William Shore & Melanie Louise Shore
255	Ilario Francisco Circosta, Maria Angela Circosta*
256	Bruce Eric Moxey, Thea Anne Moxey
257	Robert John Algie
258	Wyoming Holsteins Pty Limited
259	Robert John Algie
260	Wyoming Holstiens Pty. Limited
261	Wyoming Holstiens Pty. Limited
262	Peter Glen Stuart
263	John Klasen, Ruth Anne Klasen
264	George Robert Miller
265	Phillip John Algie, Colleen Ann Maree Algie
266	Ronald Wayne Fenwick
267	Kenneth Max Brosi
268	Kenneth Max Brosi, Julie Anne Brosi & Pauline June Mcloughlin
269	Wambo Mining Corporation Pty Limited
270	Wambo Mining Corporation Pty Limited
271	Wambo Mining Corporation Pty Limited
903	Adam John Baker
904	Allan Mark Brasington, Judith Anne Brasington
905	Cameron Michael Turner, Melissa Jayne Harris
909	Emanuel Victor Vassallo
911	Gary Dale Harris
915	Jason Cyril Rumbel, Rebecca Ruth Rumbel
917	John Robert Lamb
918	Joseph Vassallo, Doris Vassallo
919	Kenneth Neil Cameron
920	Lindsay Gordon Harris, Jillian May Ferguson
921	Melanie Caban, Keiran Lionel Caban
922	Melanie Evelyn Upward
923	Michelle Maria Brennan
926	Paul William Mackay, Suzanne Elizabeth Mackay
927	Phillip John Gunter, Leona Mary Gunter
928	Sarah Elizabeth Purser, Stirling Owen Keayes
929	Simon James Beavis
932	Stephen Dennis Tipping
936	Thomas Charles Jackson, Susan Gai Jackson
937	Trevor Keith Berry, Graham Edwin Berry

** at date of document publication private residence status still being determined on land transfer and have been treated as mine owned properties in the EIS.*



Assessment locations
 Mount Thorley Operations 2014
 Environmental Impact Statement
 Figure C.1



Assessment locations - Bulga area
 Mount Thorley Operations 2014
 Environmental Impact Statement
 Figure C.2

Appendix D

Secretary's requirements



Appendix D — Secretary's requirements

D



Planning & Environment

Development Assessment Systems & Approvals

Mining Projects

Contact: Elle Donnelley

Phone: (02) 9228 6340

Fax: (02) 9228 6466

Email: elle.donnelley@planning.nsw.gov.au

Mr Mark Nolan
Principal Advisor Project Approvals NSW
Health, Safety, Environment and Communities
Rio Tinto
PO Box 315
SINGLETON NSW 2330

Dear Mr Nolan

State Significant Development - Secretary's Requirements Mt Thorley Continuation Project (SSD 6465)

I have attached the Secretary's requirements for the preparation of an Environmental Impact Statement (EIS) for the Mt Thorley Continuation Project.

These requirements are based on the information you have provided to date, and have been prepared in consultation with the relevant government agencies. The agencies' comments are attached for your information (see Attachment 2).

Please note that the Department may alter these requirements at any time, and that you must consult further with the Department if you do not lodge a development application and EIS for the project within the next two years.

Please contact the Department at least two weeks before you plan to submit the development application and EIS for the project. This will enable the Department to:

- confirm the applicable fee (see Division 1AA, Part 15 of the *Environmental Planning and Assessment Regulation 2000*); and
- determine the number of copies (hard-copy and CD-ROM) of the EIS required.

It is important for you to recognise that the Department will review the EIS for the project carefully before putting it on public exhibition, and require you to submit an amended EIS if it fails to adequately address these requirements.

Yours sincerely

David Kitto
Director
Mining Projects
As delegate of the Secretary

Secretary's Environmental Assessment Requirements

State Significant Development

Section 78A(8A) of the *Environmental Planning and Assessment Act 1979*

Application Number	SSD 6465
Proposal	The Mt Thorley Continuation Project, which includes: • the continuation of existing and approved development on site; • maintaining maximum coal extraction rates at 10 million tonnes of run of mine coal a year; • receiving coal, tailings and overburden from the Warkworth mine; • receiving overburden from the Bulga mine; • water sharing with other mines; • minor infrastructure upgrades; and • progressively rehabilitating the site.
Location	Approximately 15 km southwest of Singleton
Applicant	Mount Thorley Joint Venture
Date of Issue	22 May 2014
General Requirements	The Environmental Impact Statement (EIS) for the development must comply with the requirements in Clauses 6 and 7 of Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i>. In particular, the EIS must include: • a full description of the development, including: – the resource to be extracted, demonstrating efficient resource recovery within environmental constraints; – the mine layout and scheduling; – minerals processing; – a waste (overburden, tailings, etc.) management strategy, dealing with the EPA's requirements (see Attachment 2); – a water management strategy, dealing with the EPA's and NSW Trade and Investment's requirements (see Attachment 2); – a rehabilitation strategy, dealing with NSW Trade and Investment's requirements (see Attachment 2); and – the likely interactions between the development and any other existing, approved or proposed mining development in the vicinity of the site; • a list of any approvals that must be obtained before the development may commence; • an assessment of the likely impacts of the development on the environment, focussing on the specific issues identified below, including: – a description of the existing environment likely to be affected by the development, using sufficient baseline data; – an assessment of the likely impacts of all stages of the development, including any cumulative impacts, taking into consideration any relevant laws, environmental planning instruments, guidelines, policies, plans and industry codes of practice; – a description of the measures that would be implemented to mitigate and/or offset the likely impacts of the development, and an assessment of: ○ whether these measures are consistent with industry best practice, and represent the full range of reasonable and feasible mitigation measures that could be implemented; ○ the likely effectiveness of these measures; and ○ whether contingency plans would be necessary to manage any

	residual risks; – a description of the measures that would be implemented to monitor and report on the environmental performance of the development if it is approved; • a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS; • consideration of the development against all relevant environmental planning instruments (including Part 3 of the <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>); and • the reasons why the development should be approved having regard to biophysical, economic and social considerations, including the principles of ecologically sustainable development. While not exhaustive, Attachment 1 contains a list of some of the environmental planning instruments, guidelines, policies, and plans that may be relevant to the environmental assessment of this development. In addition to the matters set out in Schedule 1 of the <i>Environmental Planning and Assessment Regulation 2000</i>, the development application must be accompanied by a signed report from a suitably qualified expert that includes an accurate estimate of the: • capital investment value (as defined in Clause 3 of the <i>Environmental Planning and Assessment Regulation 2000</i>) of the development, including details of all the assumptions and components from which the capital investment value calculation is derived; and • jobs that would be created during each stage of the development.
Specific Issues	The EIS must address the following specific issues: • Noise & Blasting – including: - an assessment of the likely operational noise impacts of the development (including construction noise) under the <i>NSW Industrial Noise Policy</i>, paying particular attention to establishing accurate background noise levels in the surrounding area and the obligations in chapters 8 and 9 of the policy; - if a claim is made for specific construction noise criteria for certain activities, then this claim must be justified and accompanied by an assessment of the likely construction noise impacts of these activities under the <i>Interim Construction Noise Guideline</i>; - an assessment of the likely road noise impacts of the development under the <i>NSW Road Noise Policy</i>; and - an assessment of the likely blasting impacts of the development on people, animals, buildings, infrastructure, and significant natural features, having regard to the relevant ANZEC guidelines; • Air – including: - an assessment of the likely air quality impacts of the development in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW</i> and the EPA's additional requirements (see Attachment 2); and - an assessment of the likely greenhouse gas impacts of the development, dealing with the EPA's requirements (see Attachment 2); • Water – including: - an assessment of the likely impacts of the development on the quantity and quality of the region's surface and groundwater resources, having regard to the EPA's and NSW Trade and Investment's requirements (see Attachment 2); - an assessment of the likely impacts of the development on aquifers, watercourses, riparian land, water-related infrastructure, and other water users; and - an assessment of the likely flooding impacts of the development; • Land – including: - an assessment of the likely impacts of the development on the soils,

	land capability, and landforms (topography) of the site; and - an assessment of the compatibility of the development with other land uses in the vicinity of the development in accordance with the requirements in Clause 12 of <i>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007</i>; • Traffic – including an assessment of the likely traffic impacts of the development on the capacity, condition, safety and efficiency of the local and State road network; • Visual – including an assessment of the likely visual impacts of the development on private landowners in the vicinity of the development and key vantage points in the public domain, the creation of new landforms (overburden dumps, bunds, etc.), and minimising the lighting impacts of the development; • Biodiversity – ongoing management of approved impacts on biodiversity; • Heritage – ongoing management of approved impacts on Aboriginal and historic heritage (cultural and archaeological); • Public Safety – including an assessment of the likely risks to public safety off-site, paying particular attention to bushfire risks and the handling and use of any dangerous goods; • Social & Economic – including: - an assessment of the likely social impacts of the development (including perceived impacts), paying particular attention to any impacts on Bulga village; and - an assessment of the likely economic impacts of the development, and paying particular attention to: ○ the significance of the resource; ○ economic benefits of the project for the State and region; and ○ the demand for the provision of local infrastructure and services.
Consultation	During the preparation of the EIS, you must consult with relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners. The EIS must describe the consultation that was carried out, identify the issues raised during this consultation, and explain how these issues have been addressed in the EIS.

ATTACHMENT 1

Environmental Planning Instruments, Policies, Guidelines & Plans

Noise & Blasting	
	NSW Industrial Noise Policy (EPA)
	NSW Road Noise Policy (EPA)
	Interim Construction Noise Guideline (EPA)
	Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration (ANZEC)
Air	
	Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA)
	Coal Mine Particulate Matter Control Best Practice – Site Specific Determination Guideline (EPA)
	Generic Guidance and Optimum Model Settings for the CALPUFF Modelling System for Inclusion in the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
	National Greenhouse Accounts Factors (Commonwealth)
Water	
Water Sharing Plans	Hunter Unregulated and Alluvial Water Sources 2009
	Hunter Regulated River Water Source 2003
Groundwater	NSW State Groundwater Policy Framework Document (NOW)
	NSW State Groundwater Quality Protection Policy (NOW)
	NSW State Groundwater Quantity Management Policy (NOW)
	NSW Aquifer Interference Policy 2012 (NOW)
	Australian Groundwater Modelling Guidelines 2012 (Commonwealth)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC)
	Guidelines for the Assessment & Management of Groundwater Contamination (EPA)
Surface Water	NSW Government Water Quality and River Flow Objectives (EPA)
	Using the ANZECC Guideline and Water Quality Objectives in NSW (EPA)
	National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Use of Reclaimed Water (ARMCANZ/ANZECC)
	Hunter River Salinity Trading Scheme (EPA)
	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (EPA)
	Managing Urban Stormwater: Soils & Construction (Landcom) and associated Volume 2E: Mines and Quarries (DECC)
	Managing Urban Stormwater: Treatment Techniques (EPA)
	Managing Urban Stormwater: Source Control (EPA)
	Technical Guidelines: Bunding & Spill Management (EPA)
	Environmental Guidelines: Use of Effluent by Irrigation (EPA)
	A Rehabilitation Manual for Australian Streams (LWRRDC and CRCCH)
	NSW Guidelines for Controlled Activities (NOW)
Flooding	Floodplain Development Manual (OEH)
	Floodplain Risk Management Guideline (OEH)

Land	Agfact AC25: Agricultural Land Classification (NSW Agriculture) State Environmental Planning Policy No. 55 – Remediation of Land Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC)
Traffic	Guide to Traffic Generating Development (RTA) Road Design Guide (RTA) & relevant Austroads Standards
Public Safety	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development Hazardous and Offensive Development Application Guidelines – Applying SEPP 33 Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis
Resource	Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves 2012 (JORC)
Waste	Waste Classification Guidelines (DECC)
Rehabilitation	Mine Rehabilitation – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth) Mine Closure and Completion – Leading Practice Sustainable Development Program for the Mining Industry (Commonwealth) Strategic Framework for Mine Closure (ANZMEC-MCA)
Environmental Planning Instruments - General	State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 State Environmental Planning Policy (State and Regional Development) 2011 State Environmental Planning Policy (Infrastructure) 2007 Singleton LEP 2013

For *Attachment 2 Agency Correspondence* please refer to the Department of Planning and Environment's website at <http://www.planning.nsw.gov.au/>

