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# 1. Contributing Companies

The following companies have contributed to the preparation of this EIS.



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*NRA Environmental Consultants*



**WorleyParsons**

resources & energy

Thom Blake



Historian

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## 2. Project Team

The details of the EIS study team are shown in the tables below. The EIS project management team is shown at **Table 1** and the EIS study team at **Table 2** and **Table 3**.

**Table 1. EIS project management team and technical study leads**

Team Member	Role	Company	Qualification	Experience
<b>EIS Project Management Team</b>				
Nui Harris	Acting General Manager	Waratah Coal	BSc (QUT)	25 years
Mark Imber	EIS Project Manager	Waratah Coal	BSc (REM) Hons 1A	15 years
Ben Harrison	Senior Project Engineer	Waratah Coal	BEng (Civil and Environmental) Hons, BSc (Maths and Computer Science) 7 years	7 years
Steve Fox	Lead Nature Conservation – Terrestrial	Unidel	BAppSc (NSWM) Hons 1A	13 years
Peter Wulf	Lead Nature Conservation – Aquatic	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM,	18 years
Michael Caley	Lead Noise and Vibration	Savery and Associates	MEngSc, BEng	15 Years
St.John Herbert	Lead Land Resources	E3Consult	BSc (Geol) Hons, MSc (Hydro)	15 years
St.John Herbert	Lead Groundwater Resources	E3Consult	BSc (Geol) Hons, MSc (Hydro)	15 years
Peter Wulf	Lead Surface Water Resources	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM,	18 years
George Khouri	Lead Flood Assessment	EnGenY	BEng (Civil), MEng (Hydro)	28 years
Warren Twist	Lead Heritage – Indigenous	BWR	BSc	13 years
Thom Blake	Lead Heritage – non-Indigenous	Thom Blake - Historian	BA(Hons), BD, PhD	18 years
Brad May	Lead Waste	E3Consult	BEng (Env), MTech (Bus. Mgt.),	12 years
Benjamin McMahon	Lead Climate Change and Adaption	PAEHolmes	BEng (Env) Hons 2B,	11 years
Mike Finlayson	Lead Social Impact Assessment	SIA and Development	BAGec Hons, MEc,	13 years
Ashley Page	Lead Economic Impact Assessment	AEC	BAGecon Hons,	10 years
Rick Godfrey	Lead Traffic and Transport	MPNQ	BEng Hons,	35 years
Dr Mark Breitfuss	Lead Cumulative Impacts	E3Consult	BSc Hons, PhD	15 years

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**Table 2. EIS team member details (Executive Summary, Volume 1 – Volume 4)**

Chapter Name	Team Member	Company	Qualification and Experience
<b>Executive Summary</b>			
Executive Summary	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Warren Twist	BWR	BSc, 13 years
	Melissa Landriscina	E3Consult	BSc (Env Sci), BSc (HMS), 2 years
<b>Volume 1 - Project Overview</b>			
Ch 1 – Project Overview	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
Ch 2 – Project Approvals	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Warren Twist	BWR	BSc, 13 years
	Peter Wulf	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM, 18 years
Ch 3 – Sustainability	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Peter Wulf	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM, 18 years
Ch 4 – Risk Assessment	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Phil McNamara	Waratah Coal	BEng (Mining), 23 years
	David Campbell	Waratah Coal	BSc (Geol), 30 years
	Peter Binnie	Waratah Coal	BEng (Elec), 35 years
	Nui Harris	Waratah Coal	BSc (QUT), 25 years
	Ben Harrison	Waratah Coal	BEng (Civil and Environmental) Hons, 7 years
	Warren Twist	BWR	BSc, 13 years
Ch 5 – Cumulative Impacts	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Mark Breitfuss	E3Consult	BSc (Hons), PhD, 15 years
	Melissa Landriscina	E3Consult	BSc (Env Sci), BSc (HMS), 2 years
	Dr Danny Ward	E3Consult	BSc (Hons), PhD, 5 years
Ch 6 – Commitments	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Warren Twist	BWR	BSc, 13 years
	Dr Mark Breitfuss	E3Consult	BSc (Hons), PhD, 15 years
	Dr Danny Ward	E3Consult	BSc (Hons), PhD, 5 years
	Melissa Landriscina	E3 Consult	BSc (Env Sci), BSc (HMS), 2 years
Ch 7 – Environmental Management Plan - Mine	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Mark Breitfuss	E3Consult	BSc (Hons), PhD, 15 years

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Chapter Name	Team Member	Company	Qualification and Experience
	Dr Danny Ward	E3Consult	BSc (Hons), PhD, 5 years
Ch 8 – Environmental Management Plan - Rail	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Mark Breitfuss	E3Consult	BSc (Hons), PhD, 15 years
	Dr Danny Ward	E3Consult	BSc (Hons), PhD, 5 years
Ch 9 – Environmental Management Plan – Coal Terminal	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Mark Breitfuss	E3Consult	BSc (Hons), PhD, 15 years
	Dr Danny Ward	E3Consult	BSc (Hons), PhD, 5 years
Ch 10 – Draft Social Impact Management Plan	Mike Finlayson	SIA & Development	BAGEc Hons, MEc, 13 years
Ch 11 – Community Consultation	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Mike Finlayson	SIA & Development	BAGEc Hons, MEc, 13 years
<b>Volume 2 – Mine Development</b>			
<b>Volume 3 – Rail Development</b>			
<b>Volume 4 – Coal Terminal Development</b>			
Ch 1 – Component Description	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Nui Harris	Waratah Coal	BSc (QUT), 25 years
	Ben Harrison	Waratah Coal	BEng (Civil and Environmental) Hons, BSc (Maths and Computer Science) 7 years
Mine	Ken Hill	Xenith Consulting	BEng (Civil) Hons, 25 years
Mine	Troy Turner	Xenith Consulting	BAppSc (Geology), 15 years
Mine	Rick Taylor	Coffey Mining	BSc (Mining Engineer), 25 years
Mine	George Klenowski	AMEC	BSc (Geology) Hons, MEng, 30 years
Mine	Adrian Cox	AME	BEng (Civil), BSc (Hydrology), 30 years
Mine	Andy Myers	A&B Mylec	BEng, 19 years
Rail	Peter Thornton	WorleyParsons	BEng (Civil), MEnvPlanning, MBA, 40 years
Rail	Alex Wardrop	WorleyParsons	BSc Hons, MEng (Traffic), 42 years
Rail	Elaheh Ostovary	WorleyParsons	BSc, MTransMngmt, 8 years
Rail	Robin Walpole	WorleyParsons	BEng (Civil), 32 years
Rail	Peter Boonstra	WorleyParsons	BEng, MEngMngmt, 33 years
Coal Terminal	Don Cooper	WorleyParsons	BEng (Civil), MBA, 30 years
Coal Terminal	Tom Dziurdziak	WorleyParsons	BEng (Civil) Hons, 7 years

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Chapter Name	Team Member	Company	Qualification and Experience
Ch 2 – Climate and Climate Change Adaption	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Peter D'Abreton	PAEHolmes	Multiple BScs, MSc, PhD 15 years
	Dr Li Fitzmaurice	PAEHolmes	PhD (Atmospheric Science), 10 years
Ch 3 – Land	St.John Herbert	E3Consult	BSc (Geol) Hons II, MSc (Hydro), 15 years
	Brad May	E3Consult	BEng (Env), MTech (Bus. Mgt.), 12 years
	Greg Hopgood	E3Consult	BEng (Env), 8 years
	Sam Maynard	E3Consult	BAppSc (Hons), 7 years
	Melissa Landriscina	E3Consult	BSc (Env Sci), BSc (HMS), 2 years
Ch 4 – Land Use and Tenure	Peter Wulf	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM, 18 years
	Sam Maynard	E3Consult	BAppSc (Hons), 7 years
Ch 5 – Landscape and Visual Amenity	Peter Wulf	E3Consult	BSc (Zoology Marine) Hons, LLB, LLM, 18 years
	Mark Shurey	Tract	DipAppSc (Hort), MLArch, 10 years
Ch 6 – Terrestrial Ecology	Steve Fox	Unidel	BAppSc (NSWM) Hons 1A, 12 years
	Jeromy Claridge	Unidel	BSc (Botany), MEnvMan, 15 years
	Dr Bruce Thomson	Unidel	BAppSc, MBA, PhD (Ecology) 29 years
	Dr Wayne Harris	Unidel	MSc, PhD (Plant Systematic), 20 years
	Geoff Sharp	Unidel	BNatRes, 15 years
	Dr Sandrine Martinez	Unidel	BSc (MarBiol) Hons 1A, PhD (Palaeoecology), 2 years
	Ruth Smith	Unidel	BEnvMan, 2 years
	Renee Coleman	Unidel	BSc/A, 6 years
	Peter Buosi	NRA	BAppSc Hons, 14 years
	Tony Adkins	NRA	BSc, MAppSc, 14 years
	Anne-Marie Calvi	NRA	BSc (EnvSc) Hons, 5 years
	Neil Boland	NRA	BSc, 30 years
	Ch 7 – Aquatic Ecology	Peter Wulf	E3Consult
Jim Tait		E3Consult	BSc (Zoology and Geography) Hons, 19 years
Ch 8 – Groundwater Resources	St.John Herbert	E3Consult	BSc (Geol) Hons II, MSc (Hydro), 15 years.

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Chapter Name	Team Member	Company	Qualification and Experience
	Ross Hector	E3Consult	BSc, MSc Hydrology, 7 years
	Paul Howe	Environ (SKM)	BSc, 18 years
Ch 9 – Surface Water Resources	St.John Herbert	E3 Consult	BSc (Geol) Hons II, MSc (Hydro), 15 years.
	Sam Maynard	E3Consult	BAppSc (Hons), 7 years
	Charlotte Gidley	E3Consult	BSc (Env), 3 years
	George Khouri	EnGenY	BEng (Civil), MEng (Hydro), 28 years
	Mark Page	EnGenY	BEng (Enviro), 6 years
	Peter Crichton	EnGenY	BEng (Enviro), 6 years
	David Cox	EnGenY	BEng (Civil), 4 years
Ch 10 – Air Quality and Greenhouse Gas	Robin Ormerod	PAEHolmes	BSc Hons 1, 29 years
	Benjamin McMahon	PAEHolmes	BEng (Env) Hons 2B, 11 years
	Judith Cox	PAEHolmes	BEng Hons, 12 years
	Dr Peter D'Abreton	PAEHolmes	Multiple BScs, MSc, PhD 15 years
	Dr Li Fitzmaurice	PAEHolmes	PhD (Atmospheric Science), 10 years
	Emir Kanalic	PAEHolmes	BEng (Chem) Hons 2B, 3 years
	Mitchell Kelly	PAEHolmes	BEng (Chem) Hons 2B, 2 years
	Chaim Kolominskis	PAEHolmes	BEng (Env) Hons 2B 11 years
	Graeme Starke	PAEHolmes	BSc, PGDip IT, 12 years
Ch 11 – Noise and Vibration	Michael Caley	Savery and Associates	MEngSc, BEng, 15 years
	Matthew Terlich	Savery and Associates	BEng (Mech) Hons, 10 years
Ch 12 – Waste	Brad May	E3Consult	BEng (Env), MTech (Bus. Mgt.), 12 years
	Mandy McDowall	E3Consult	BEng (Env), 6 years
Ch 13 – Traffic and Transport	Rick Godfrey	MPN Consulting	BEng Hons, 35 years
	Gregg Tyquin	MPN Consulting	BEng, 32 years
	Daniel Lee	MPN Consulting	MBA, BEng Hons, CPEng., 25 years
	Lindsay Wratten	MPN Consulting	Cert Civil Eng (Design Office Tech), 44 years
	Dan Giancola	MPN Consulting	Higher Tech Certificate - Civil Eng., Detail Drafting Cert - Civil Eng, 44 years
	Brian Camilleri	TTM Consulting (Qld)	BEng (Civil), 20 yrs
	Simon Crank	TTM Consulting (Qld)	BEng (Civil), BBA, 12 yrs



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Chapter Name	Team Member	Company	Qualification and Experience
Ch 14 – Indigenous Cultural Heritage	Warren Twist	BWR	BSc, 13 years
	Margarite Escartin	Gadens	BA, Dip Law, 10 years
Ch 15 – Non-Indigenous Cultural Heritage	Warren Twist	BWR	BSc, 13 years
	Thom Blake	Thom Blake – Historian	BA(Hons), 18 years
Ch 16 – Social Impact Assessment	Mike Finlayson	SIA & Development	BAGec Hons, MEc, 13 years
Ch 17 – Economic Impact Assessment	Ashley Page	AECgroup	BAGecon Hons, 10 years
	Kieron Lacey	AECgroup	BSc (BioChem), MBusEcon, 5 years
	Dr Peter Johnson	Prime Research	BEng Hons, BEc Hons, PhD, 18years
	Simon Smith	AECgroup	BSc (Comp.Sci), BEcon Hons, MBA, 20 years
Ch 18 – Hazard, Risk and Emergency Management	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Nui Harris	Waratah Coal	BSc (QUT), 25 years
	Ben Harrison	Waratah Coal	BEng (Civil and Environmental) Hons, BSc (Maths and Computer Science) 7 years
Ch 19 – Cumulative Impacts	Mark Imber	Waratah Coal	BSc (REM) Hons 1A, 15 years
	Dr Mark Breitfuss	E3Consult	BSc Hons, PhD, 15 years
	Melissa Landriscina	E3Consult	BSc (Env Sci), BSc (HMS), 2 years

**Table 3. EIS team member details (Volume 5)**

Volume 5- Appendices	
Report Title	Responsible Agency / Company
Appendix 1 – Terms of Reference	Department of Infrastructure and Planning
Appendix 2 – Cross-reference to Terms of Reference	Waratah Coal
Appendix 3 – Study Team	Waratah Coal
Appendix 4 – Acronyms and Glossary	Waratah Coal
Appendix 5 – Rail Selection Study	Waratah Coal
Appendix 6 – Tailing and Rejects Report	AMEC
Appendix 7 – Soils and Geology	E3Consult
Appendix 8 – Contaminated Land Assessment	E3Consult

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Appendix 9 – Visual Impact Assessment	E3Consult
Appendix 10 – Acid Sulfate Soil Assessment	E3Consult
Appendix 11 – Terrestrial Ecology Mine Site	Unidel
Appendix 12 – Terrestrial Ecology Rail Corridor	Unidel
Appendix 13 – Terrestrial Ecology Coal Terminal	Unidel
Appendix 14 – Aquatic Ecology	E3Consult
Appendix 15 – Groundwater Assessment	E3Consult
Appendix 16 – Surface Water Assessment	E3Consult
Appendix 17 – Rail Flood Modelling Assessment	EnGeny
Appendix 18 – Mine Flood Modelling Assessment	EnGeny
Appendix 19 – Air Quality	PAEHolmes
Appendix 20 – Greenhouse Gas and Climate Change	PAEHolmes
Appendix 21 – Noise and Vibration	Savery and Associates
Appendix 22 – Traffic and Transport	MPN Consulting
Appendix 23 – Non-Indigenous Cultural Heritage	Thom Blake – Historian
Appendix 24 – Social Impact Assessment	SIA and Development
Appendix 25 – Economic Impact Assessment	AEC