



BULLI SEAM OPERATIONS

TABLE OF CONTENTS

TABLE OF CONTENTS

1	INTRODUCTION	1-1	2.6	ROM COAL RECLAIM AND WASHING	2-33
1.1	PROJECT OVERVIEW	1-1	2.6.1	Coal Sizing and Screening Circuit	2-33
1.1.1	Purpose of this Report	1-1	2.6.2	Coal Preparation Plant	2-33
1.1.2	Background	1-1	2.7	PRODUCT COAL STOCKPILING, RECLAIM AND TRANSPORT	2-34
1.1.3	Project Summary	1-1	2.8	COAL WASH MANAGEMENT	2-34
1.1.4	Site Location and Tenure	1-4	2.8.1	Coal Wash Production	2-34
1.1.5	Proponent	1-7	2.8.2	Coal Wash Physical Characteristics	2-34
1.2	ENVIRONMENTAL ASSESSMENT REQUIREMENTS	1-7	2.8.3	West Cliff Coal Wash Emplacement	2-34
1.3	SOUTHERN COALFIELD INQUIRY AND PANEL REPORT RECOMMENDATIONS	1-7	2.8.4	Underground Emplacement Pilot Trial	2-38
1.4	PROJECT CONSULTANTS	1-7	2.8.5	Ongoing Consideration of Alternative Coal Wash Management Options	2-38
1.5	STRUCTURE OF THIS DOCUMENT	1-9	2.9	REHABILITATION ACTIVITIES AND REMEDIATION WORKS	2-38
2	PROJECT DESCRIPTION	2-1	2.10	WATER MANAGEMENT	2-39
2.1	EXISTING MINING OPERATIONS	2-1	2.10.1	Existing Water Management System	2-39
2.1.1	Underground Mining Operations	2-1	2.10.2	Project Water Management System	2-42
2.1.2	Pit Tops and Supporting Infrastructure	2-7	2.10.3	Stage 4 Coal Wash Emplacement	2-42
2.1.3	ROM Coal Transport, Reclaim and Washing	2-9	2.11	INFRASTRUCTURE AND SERVICES	2-42
2.1.4	Product Coal Stockpiling and Road Transport	2-9	2.11.1	Administration Buildings, Bathhouse, Workshops and Surface Facilities	2-42
2.1.5	Coal Wash Management	2-9	2.11.2	Access Roads and Haul Roads	2-42
2.1.6	Electricity Supply and Distribution	2-9	2.11.3	Electricity Supply and Distribution	2-42
2.1.7	Historical Mining Areas	2-10	2.11.4	Service Boreholes	2-43
2.2	COAL RESOURCE, MAJOR GEOLOGICAL FEATURES AND EXPLORATION ACTIVITIES	2-10	2.11.5	Site Security and Communications	2-43
2.3	PROJECT GENERAL ARRANGEMENT	2-14	2.11.6	Potable Water	2-43
2.4	PROJECT CONSTRUCTION/ DEVELOPMENT ACTIVITIES	2-19	2.12	WASTE MANAGEMENT	2-43
2.4.1	Longwall Mining Machinery Upgrades	2-19	2.12.1	Sewage Treatment and Effluent Disposal	2-44
2.4.2	Materials Handling and Transport System Upgrades	2-19	2.12.2	Recyclable and Non-Recyclable General Domestic Wastes	2-44
2.4.3	West Cliff Washery Reliability Improvement Project	2-19	2.12.3	Other Waste Types	2-44
2.4.4	Surface Facilities and Supporting Infrastructure Upgrades	2-20	2.13	MANAGEMENT OF DANGEROUS GOODS	2-44
2.5	UNDERGROUND MINING OPERATIONS	2-20	2.14	WORKFORCE	2-45
2.5.1	Indicative Mine Schedule	2-20	3	CONSULTATION AND COMMUNITY INITIATIVES	3-1
2.5.2	Coal Mining and Subsidence Effects	2-23	3.1	ENVIRONMENTAL ASSESSMENT CONSULTATION	3-1
2.5.3	Underground Mine Access, Development Works and ROM Coal Handling	2-29	3.1.1	Objectives	3-1
2.5.4	Major Underground Equipment	2-30	3.1.2	State Government Agencies	3-1
2.5.5	Coal Seam Gas Management	2-30	3.1.3	Local Government Agencies	3-5
2.5.6	Ventilation Systems	2-32	3.1.4	Federal Government Agencies	3-6
2.5.7	Mine Dewatering	2-33	3.1.5	Infrastructure Owners/Service Providers	3-7
			3.1.6	Public Consultation	3-9

TABLE OF CONTENTS (Continued)

3.1.7	Southern Coalfield Inquiry	3-13	5.4	SUBSIDENCE	5-45
3.1.8	Choice Modelling	3-13	5.4.1	Prediction Methodology	5-45
3.2	COMMUNITY INITIATIVES AND INVOLVEMENT	3-14	5.4.2	Maximum Systematic Subsidence Predictions	5-45
3.2.1	Appin Area Community Working Group	3-14	5.4.3	Non-Systematic Subsidence Predictions	5-46
3.2.2	Dendrobium Community Consultative Committee	3-14	5.4.4	Subsidence Impact Assessment for Key Natural and Man-Made Surface Features	5-46
3.2.3	Website and Community Call Line	3-14	5.4.5	Mitigation Measures, Management and Monitoring	5-51
3.2.4	Appin Community Office and Douglas Park Community Hall Displays	3-15	5.5	GROUNDWATER	5-58
3.2.5	Community Perception Surveys	3-15	5.5.1	Existing Environment	5-58
3.2.6	Community Partnerships Program and Dendrobium Community Enhancement Program	3-15	5.5.2	Potential Impacts	5-63
3.2.7	Sponsorships and Community Initiatives	3-16	5.5.3	Mitigation Measures, Management and Monitoring	5-64
3.2.8	Media	3-17	5.6	SURFACE WATER	5-67
3.2.9	Community Newsletters, Fact Sheets and Publications	3-17	5.6.1	Existing Environment	5-67
3.2.10	Local Suppliers	3-17	5.6.2	Potential Impacts	5-75
4	FRAMEWORK OF ENVIRONMENTAL ASSESSMENT	4-1	5.6.3	Mitigation Measures, Management and Monitoring	5-79
4.1	SOUTHERN COALFIELD INQUIRY	4-1	5.7	AQUATIC ECOLOGY	5-82
4.2	METROPOLITAN COAL PROJECT PLANNING ASSESSMENT COMMISSION REPORT	4-1	5.7.1	Existing Environment	5-82
4.2.1	Risk Management Zones for Significant Natural Features	4-2	5.7.2	Potential Impacts	5-84
4.2.2	Risk Framework	4-2	5.7.3	Mitigation Measures, Management and Monitoring	5-90
4.2.3	Assessment of Significance and Acceptability of Environmental Consequences	4-3	5.7.4	Compensatory Measures and Ecological Initiatives	5-91
4.2.4	Subsidence	4-3	5.8	TERRESTRIAL FLORA	5-91
4.2.5	Groundwater	4-4	5.8.1	Existing Environment	5-91
4.2.6	Vegetation	4-5	5.8.2	Potential Impacts	5-104
4.2.7	Economic and Social Impacts	4-6	5.8.3	Mitigation Measures, Management and Monitoring	5-110
5	ENVIRONMENTAL ASSESSMENT	5-1	5.8.4	Compensatory Measures and Ecological Initiatives	5-113
5.1	ENVIRONMENTAL RISK ASSESSMENT	5-1	5.9	TERRESTRIAL FAUNA	5-114
5.2	RISK ASSESSMENTS FOR SIGNIFICANT FEATURES	5-1	5.9.1	Existing Environment	5-114
5.2.1	Stream Risk Assessment	5-2	5.9.2	Potential Impacts	5-117
5.2.2	Upland Swamp Risk Assessment	5-15	5.9.3	Mitigation Measures, Management and Monitoring	5-124
5.2.3	Aboriginal Heritage Site Risk Assessment	5-24	5.9.4	Compensatory Measures and Ecological Initiatives	5-127
5.2.4	Major Cliff Line Risk Assessment	5-27	5.10	ABORIGINAL HERITAGE	5-127
5.3	LAND RESOURCES, CLIMATE AND BUSHFIRE REGIME	5-31	5.10.1	Existing Environment	5-127
5.3.1	Existing Environment	5-31	5.10.2	Potential Impacts	5-140
5.3.2	Potential Impacts	5-41	5.10.3	Mitigation Measures, Management and Monitoring	5-143
5.3.3	Mitigation Measures, Management and Monitoring	5-43	5.11	NON-ABORIGINAL HERITAGE	5-145
			5.11.1	Existing Environment	5-145
			5.11.2	Potential Impacts	5-145
			5.11.3	Mitigation Measures, Management and Monitoring	5-149

TABLE OF CONTENTS (Continued)

5.12	NOISE	5-153	6.3	TEMPORARY SURFACE DISTURBANCE AREAS	6-7
5.12.1	Background	5-153	6.4	MINE SUBSIDENCE IMPACTS	6-7
5.12.2	Existing Environment	5-154	6.4.1	Streams	6-7
5.12.3	Applicable Noise and Vibration Criteria	5-155	6.4.2	Swamps	6-9
5.12.4	Potential Impacts	5-160	6.4.3	Other Natural Surface Features	6-11
5.12.5	Mitigation Measures, Management and Monitoring	5-165	6.5	LEASE RELINQUISHMENT	6-11
5.13	AIR QUALITY	5-167	7	PLANNING FRAMEWORK AND PROJECT JUSTIFICATION	7-1
5.13.1	Background	5-167	7.1	MAJOR PROJECTS	7-1
5.13.2	Existing Environment	5-168	7.1.1	Application of Other Provisions of the Environmental Planning and Assessment Act, 1979	7-2
5.13.3	Potential Impacts	5-170	7.1.2	Approvals and Legislation that do not Apply to Approved Part 3A Projects	7-2
5.13.4	Mitigation Measures, Management and Monitoring	5-171	7.1.3	Approvals and Legislation that must be Applied Consistently for Part 3A Projects	7-2
5.14	GREENHOUSE GAS EMISSIONS	5-172	7.2	ENVIRONMENTAL PLANNING INSTRUMENTS	7-3
5.14.1	Framework for Assessment	5-172	7.2.1	State Environmental Planning Policies	7-3
5.14.2	Greenhouse Gas Assessment	5-176	7.2.2	Illawarra Regional Environmental Plan No 1	7-9
5.14.3	Mitigation Measures, Management and Monitoring	5-179	7.2.3	Greater Metropolitan Regional Environmental Plan No 2—Georges River Catchment	7-13
5.15	ROAD TRANSPORT	5-180	7.2.4	Drinking Water Catchments Regional Environmental Plan No. 1	7-17
5.15.1	Existing Environment	5-180	7.2.5	Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2 - 1997)	7-18
5.15.2	Potential Impacts	5-184	7.2.6	Local Environmental Plans	7-24
5.15.3	Mitigation Measures, Management and Monitoring	5-188	7.2.7	Section 94 Contribution Plans	7-24
5.16	REGIONAL AND NSW ECONOMIES	5-189	7.2.8	Subregional Planning	7-24
5.16.1	Existing Environment	5-189	7.3	OTHER APPLICABLE STATUTORY APPROVALS	7-26
5.16.2	Potential Impacts	5-190	7.3.1	NSW Approvals	7-26
5.16.3	Mitigation Measures and Management	5-191	7.3.2	Commonwealth Approvals	7-30
5.17	EMPLOYMENT, POPULATION AND COMMUNITY INFRASTRUCTURE	5-191	7.4	EPBC – ASSESSMENT OF MATTERS OF NATIONAL SIGNIFICANCE	7-31
5.17.1	Existing Environment	5-191	7.5	DHARAWAL STATE CONSERVATION AREA	7-31
5.17.2	Potential Impacts	5-195	7.6	ALTERNATIVES CONSIDERED	7-33
5.17.3	Mitigation Measures and Management	5-196	7.6.1	Mining Method	7-33
5.18	HAZARD AND RISK	5-197	7.6.2	Longwall Width	7-33
5.18.1	Hazard Identification and Risk Assessment	5-197	7.6.3	Environmental Impact Reduction Alternatives	7-34
5.18.2	Mitigation Measures and Management	5-197	7.6.4	Coal Transport	7-35
5.19	VISUAL CHARACTER	5-198	7.6.5	Coal Wash Production	7-37
5.19.1	Existing Environment	5-198	7.6.6	Coal Wash Disposal	7-37
5.19.2	Potential Impacts	5-200			
5.19.3	Mitigation Measures and Management	5-208			
6	REHABILITATION AND MINE CLOSURE	6-1			
6.1	MINE CLOSURE PLANS FOR PIT TOP AREAS AND SHAFT SITES	6-1			
6.1.1	Pit Top Areas	6-1			
6.1.2	Shaft Sites	6-3			
6.2	WEST CLIFF STAGE 4 COAL WASH EMPLACEMENT	6-5			

TABLE OF CONTENTS (Continued)

	7.6.7	Pit Top Locations/ Endeavour Project	7-38
	7.6.8	Surface Goaf Gas Drainage	7-38
7.7		ECOLOGICALLY SUSTAINABLE DEVELOPMENT CONSIDERATIONS	7-39
	7.7.1	Consideration of the Consistency of the Project with the Objects of the EP&A Act	7-45
7.8		PROJECT JUSTIFICATION	7-46
	7.8.1	Consistency with the Findings and Recommendations of the Southern Coalfield Panel Report	7-46
	7.8.2	Consideration of Potential Environmental Impacts, Mitigation Measures and Environmental Management	7-46
	7.8.3	Consideration of Potential Socio-Economic Benefits	7-46
8		STATEMENT OF COMMITMENTS	SOC-1
9		REFERENCES	9-1
10		ABBREVIATIONS, ACRONYMS AND GLOSSARY	10-1
	10.1	ABBREVIATIONS AND ACRONYMS	10-1
	10.2	GLOSSARY	10-5

LIST OF TABLES

Table 1-1	Project Summary
Table 1-2	Existing Mining and Exploration Tenements
Table 1-3	Director-General's Environmental Assessment Requirements – Reference Summary
Table 2-1	Existing Surface Mobile Equipment Fleet
Table 2-2	Indicative Mine Schedule
Table 2-3	Indicative Coal Wash Production Schedule
Table 2-4	Typical Size Fraction and Moisture Content of Coal Wash from the West Cliff Washery
Table 2-5	Other Wastes Likely to be Generated by the Project
Table 2-6	Initial Development and Operational Workforce
Table 5-1	Key Potential Environmental Issues
Table 5-2	Summary of Preferred Risk Management Options - Streams
Table 5-3	Summary of Preferred Risk Management Options – Swamps
Table 5-4	Summary of Archaeological Significance for Aboriginal Heritage Sites
Table 5-5	Soil Landscapes of the Project Area
Table 5-6	Bureau of Meteorology Monitoring Station Locations and Recording Periods
Table 5-7	Relevant Meteorological Information
Table 5-8	Maximum Predicted Total Systematic Subsidence, Tilts and Curvatures for the EA Base Plan Longwalls
Table 5-9	Residential Dwellings within the Study Area
Table 5-10	Residential Dwellings Repair Categories
Table 5-11	Summary of Water Quality Data at Shallow Groundwater Monitoring Sites (January 1998 to March 2008)
Table 5-12	Proposed Groundwater Monitoring Programme
Table 5-13	O'Hares Creek and Stokes Creek Stream Flow Characteristics (1978 to 1987)
Table 5-14	Summary of Regional Surface Water Quality Monitoring
Table 5-15	Aquatic Ecology Sampling Locations
Table 5-16	Vegetation Communities Identified in the Study Area
Table 5-17	Threatened Flora Species Recorded during Baseline Flora Surveys
Table 5-18	Endangered Ecological Communities Known to Occur in the Study Area

TABLE OF CONTENTS (Continued)

LIST OF TABLES (Continued)

Table 5-19	Native Terrestrial Fauna Species
Table 5-20	Threatened Terrestrial Fauna Species Recorded during Baseline Fauna Surveys
Table 5-21	Summary of Previous and Project Aboriginal Heritage Consultation/Surveys
Table 5-22	Known Aboriginal Heritage Sites within the Project Area and Surrounds
Table 5-23	Archaeological Significance of Aboriginal Heritage Sites within the Project Area and Surrounds
Table 5-24	Risk Based Impact Assessment of Potential Subsidence Impacts on Aboriginal Heritage Sites
Table 5-25	Identified Heritage Items in the Project Area
Table 5-26	Potential Impacts on Major Infrastructure with Heritage Value
Table 5-27	Preliminary Management and Mitigation Measures for Higher Heritage Significance Buildings
Table 5-28	Relative Scale of Various Noise Sources
Table 5-29	RBL Values Adopted for Noise Assessment
Table 5-30	Project Specific Intrusiveness Criteria
Table 5-31	INP Amenity Criteria
Table 5-32	Blasting Assessment Criteria
Table 5-33	Applicable Road Traffic Noise Goals
Table 5-34	Predicted Number of Receivers in the Existing/Approved and Project Intrusive Noise Affectation and Noise Management Zones
Table 5-35	Air Quality Standards/Assessment Criteria for Concentrations of Suspended Particulate Matter
Table 5-36	Odour Assessment Criteria
Table 5-37	Measured Annual Average Dust Deposition ($\text{g}/\text{m}^2/\text{month}$)
Table 5-38	Measured Annual Average PM_{10} Concentrations
Table 5-39	Average Weekday Traffic Movements on Haulage Routes and Local Roads
Table 5-40	Relevant Intersection Performance – Surveyed Traffic Flows (April 2009)
Table 5-41	Predicted Average Weekday Traffic Movements on Haulage Routes and Local Roads
Table 5-42	Contributions to Employment Gross Regional Product and Output by Industry Sector – Regional and NSW Economies (2005 to 2006)
Table 5-43	Observed and Predicted Population Growth Rate – Illawarra, Outer South-Western Sydney and NSW

LIST OF TABLES (Continued)

Table 5-44	Distribution of the Illawarra and Outer South-Western Sydney Population by Age Group
Table 5-45	Unemployment in the Illawarra and Outer South-Western Sydney Regions
Table 5-46	Housing Stock in the Illawarra and Outer South-Western Sydney Regions (Occupied Dwellings Only)
Table 5-47	Short Stay Accommodation in the Illawarra and Outer South-Western Sydney Regions
Table 5-48	Education Enrolments in the Illawarra and Outer South-Western Sydney Regions
Table 5-49	Existing Modification and Public Accessibility to Key Watercourses within the Study Area
Table 5-50	Visual Impact Matrix
Table 5-51	Visual Sensitivity Levels
Table 5-52	Summary of Visual Assessment for the West Cliff Coal Wash Emplacement
Table 6-1	Summary of Proposed Stream Remediation Techniques
Table 7-1	Summary of Project Environmental Impact Reduction Alternatives
Table 7-2	Summary of Project Research, Offset and Compensatory Measures
Table SOC-1	Summary of Project Management, Monitoring and Reporting
Table SOC-2	Summary of Project Research, Offset and Compensatory Measures

TABLE OF CONTENTS (Continued)**LIST OF FIGURES**

Figure 1-1	Regional Location
Figure 1-2	Aerial Photograph of the Project Area and Surrounds
Figure 2-1	Project General Arrangement
Figure 2-2	General Arrangement of West Cliff Pit Top Area and Supporting Infrastructure
Figure 2-3	General Arrangement of Appin East Pit Top Area and Supporting Infrastructure
Figure 2-4	General Arrangement of Appin West Pit Top Area and Supporting Infrastructure
Figure 2-5	General Arrangement of Appin and North Cliff Shafts and Supporting Infrastructure
Figure 2-6	Stratigraphic Cross Section
Figure 2-7	Indicative Stratigraphic Section – Project Area
Figure 2-8	Project General Arrangement – West Cliff Area 5 and Appin Area 7
Figure 2-9	Project General Arrangement – North Cliff
Figure 2-10	Project General Arrangement – Appin West (Area 9) and Appin Area 8
Figure 2-11	Project General Arrangement – Appin Areas 2 and 3 Extended
Figure 2-12	Materials Handling Schematic Flowsheet
Figure 2-13	West Cliff CPP Schematic Flowsheet
Figure 2-14	Longwall Mining Method – Conceptual Cross Section and Plan
Figure 2-15	West Cliff Stage 4 Coal Wash Emplacement – Conceptual Cross Section and Plan
Figure 2-16	Project Water Management Schematic
Figure 5-1	Stream Risk Management Zones - West Cliff Area 5 and Appin Area 7
Figure 5-2	Stream Risk Management Zones - North Cliff
Figure 5-3	Stream Risk Management Zones - Appin West (Area 9) and Appin Area 8
Figure 5-4	Stream Risk Management Zones - Appin Areas 2 and 3 Extended
Figure 5-5	Upland Swamps – North Cliff (North)
Figure 5-6	Upland Swamps – North Cliff (South)
Figure 5-7	Upland Swamps – Appin Areas 2 and 3 Extended
Figure 5-8	Mine Subsidence Districts in the Project Extent of the Longwall Mining Area and Surrounds
Figure 5-9	DWE Registered Bores and ICHPL Piezometer Locations
Figure 5-10	Indicative Stratigraphic Section – Project Area

LIST OF FIGURES (Continued)

Figure 5-11	Surface Water Flow Monitoring Locations, Stream Features and Pool Locations
Figure 5-12	Surface Water Quality Monitoring Locations
Figure 5-13	Vegetation Communities Legend
Figure 5-14	Vegetation Communities - West Cliff Area 5 and Appin Area 7
Figure 5-15	Vegetation Communities - North Cliff
Figure 5-16	Vegetation Communities - Appin West (Area 9) and Appin Area 8
Figure 5-17	Vegetation Communities - Appin Areas 2 and 3 Extended
Figure 5-18	Threatened Flora Species Recorded by Project Surveys
Figure 5-19	Threatened Flora Species Recorded by Project Surveys and Biosis Research (2007) – West Cliff Stage 4 Coal Wash Emplacement
Figure 5-20	Threatened Fauna Species Recorded by Project Surveys
Figure 5-21	Threatened Fauna Species Recorded by Project Surveys - West Cliff Stage 4 Coal Wash Emplacement
Figure 5-22	Known Aboriginal Heritage Sites and Relevant Non-Aboriginal Heritage Items – West Cliff Area 5 and Appin Area 7
Figure 5-23	Known Aboriginal Heritage Sites – North Cliff (North)
Figure 5-24	Known Aboriginal Heritage Sites – North Cliff (South)
Figure 5-25	Known Aboriginal Heritage Sites and Relevant Non-Aboriginal Heritage Items – Appin West (Area 9) and Appin Area 8
Figure 5-26	Known Aboriginal Heritage Sites and Relevant Non-Aboriginal Heritage Items – Appin Areas 2 and 3 Extended
Figure 5-27	Haulage Routes, Vehicle Survey Locations and Intersection Survey Locations
Figure 5-28	Comparison Between Existing/Approved and Project Indicative 40dBA, 43dBA and 45dBA Noise L_{Aeq} (15 minute) Contours (Night-Time) – Appin
Figure 5-29	West Cliff Coal Wash Emplacement – Locations of Viewpoints 1 to 4
Figure 7-1	Relevant Local Government Environmental Planning Instruments

TABLE OF CONTENTS (Continued)

LIST OF PLATES

Plate 5-1	Cliff Lines along Douglas Park Drive
Plate 5-2	Viewpoint 1 - George Street, Appin
Plate 5-3	Viewpoint 2 - Appin Road South-east of Appin Township
Plate 5-4	Viewpoint 3 - Appin Road South of West Cliff Pit Top
Plate 5-5	Viewpoint 4 - Cataract Scout Park
Plate 6-1	Square Coir Logs for Knick Point Control
Plate 6-2	Small Coir Log Dams Constructed at Intervals along an Incised Swamp with Jute Wrapping
Plate 6-3	Round Coir Logs Installed to Spread Water

LIST OF CHARTS

Chart 5-1	Closure and Change in Erosion Risk Index
-----------	------------------------------------------

LIST OF ATTACHMENTS

Attachment 1	Director-General's Environmental Assessment Requirements
Attachment 2	Project Application Area and Real Property Descriptions
Attachment 3	Peer Review Letters
Attachment 4	Consultation Newsletters and Leaflets
Attachment 5	Relevant Local Government Planning Instruments
Attachment 6	Dharawal State Conservation Area Memorandum of Understanding

LIST OF APPENDICES

Appendix A	Subsidence Assessment
Appendix B	Groundwater Assessment
Appendix C	Surface Water Assessment
Appendix D	Aquatic Ecology Assessment
Appendix E	Terrestrial Flora Assessment
Appendix F	Terrestrial Fauna Assessment
Appendix G	Aboriginal Cultural Heritage Assessment
Appendix H	Non-Aboriginal Heritage Assessment
Appendix I	Noise Impact Assessment
Appendix J	Air Quality Impact Assessment
Appendix K	Road Transport Assessment
Appendix L	Socio-Economic Assessment
Appendix M	Preliminary Hazard Analysis
Appendix N	Environmental Risk Assessment
Appendix O	Upland Swamp Risk Assessment
Appendix P	Stream Risk Assessment
Appendix Q	Aboriginal Heritage Site Risk Assessment
Appendix R	Major Cliff Line Risk Assessment