

# A | Glossary, Abbreviations and Units



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**APPENDIX A GLOSSARY, ABBREVIATIONS AND UNITS**

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## Appendix A Glossary, Abbreviations and Units

### A.1 Glossary

Term	Definition
Alpha Coal Project (Mine) or the Project	Proposed 30 Mtpa open cut coal mine located within the Galilee basin on MLA 70426
Alpha Coal Project (Rail) or the Project	Railway corridor running from the rail loop at the Alpha Coal Project (Mine) to the loud-out facility at Abbot Point Port
Background	6km – 16km - Textures are no longer visible, but mountain and valley forms, skylines and ridgelines are important (Forest Practice Board Tasmania, 2006)
Ballast	Railway substrate used to support sleepers and track.
Below ground forest/vegetation biomass	The entire biomass of all live roots
Burra Charter	<i>The Australia ICOMOS Charter for the Places of Cultural Significance (1999)</i>
Converge	Converge Heritage + Community
Cumulative impact	The interaction of impacts arising from a development in conjunction with other past, present and reasonably foreseeable future actions
Debris	Largely intact dead plant material that is not part of the soil and that has not broken down to become mulch.
Foreground	0-1 km – Is the visual zone where colour contrast and textural detail are most clearly perceived (Forest Practice Board Tasmania, 2006)
Landscape feature	A component, part or feature of the landscape that is prominent or eye-catching, e.g. hills, buildings, vegetation
Landscape quality	Largely subjective judgement based on particular characteristics that influence the way in which the environment is experienced, including special interests such as cultural associations or heritage interests, the presence and/or type of elements and condition
Landscape sensitivity	The extent to which landscape can accept a change of a particular type and scale without unacceptable adverse impacts on its character
Landscape value	Areas of formally designated landscape that through national or local consensus, reflect the value placed by society on particular environments and/or their features
Line source	A class of source (s) in air dispersion modelling with an elongated geometry such as a road or other transport corridor.
Maximum above ground biomass	The aboveground biomass is the combined mass (in tdm/ha) of the aboveground plant components for trees (stems, branches, bark, and leaves) and for crops (grains, buds, fruit, stalks, and leaves). It does not include the roots, or any debris or mulch or soil matter. It is a mass, measured in tonnes per hectare of dry matter, not carbon mass.
Middleground	1km-6km – Different elements in the landscape are visually apparent (Forest Practice Board Tasmania, 2006)

## APPENDICES

Mitigation	Measures, including any process, activity or design to avoid, reduce, remedy or compensate for adverse landscape and visual impacts of a development project
Residual impact	An impact that occurs/persists after mitigation measures have been put in place
Sensitive visual receptor or locations	Residential areas and zones involving the presence of the individual people for extended periods except in the course of their employment and recreation.
The EIS	Alpha Coal Project Environmental Impact Statement
The Proponent	Hancock Prospecting Pty Ltd
Visual amenity	The value of a particular area or view in terms of what is seen
Visual catchment	Extent of potential visibility to or from a specific area, feature or proposal
Visual impact	Changes in the appearance of the landscape or in the composition of available views as a result of development, to people's responses to these changes, and to the overall impacts in regard to visual amenity. This can be positive (i.e. beneficial or an improvement) or negative (i.e. adverse or a detraction).
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## A.2 Abbreviations

Abbreviation	Definition
\$AUD	Australian Dollars
\$US	United States Dollars
A-#	Alpha cultural heritage site ID
AADT	Annual Average Daily Traffic
AARC	AustralAsian Resource Consultants
AASS	Actual Acid Sulfate Soils
ABARE	Australian Bureau of Agricultural and Resource Economics
ABS	Australian Bureau of Statistics
ACARP	Australian Coal Association Research Program
ACCC	Australian Competition and Consumer Commission
ACH Act	<i>Aboriginal Cultural Heritage Act 2003</i>
ACH Act (Qld)	<i>Aboriginal Cultural Heritage Act 2003 (Qld)</i>
ACTFR	Australian Centre for Tropical Freshwater Research
ADG	Australian Code for Transport of Dangerous Goods by Road and Rails
AEP	Annual Exceedance Probability
AGC	Australian Groundwater Consultants
AGO	Australian Government Department of Climate Change
AHD	Australian Height Datum
AHPI	Australian Heritage Place Inventory
ALARP	as low as reasonably practicable
ALS	Australian Laboratory Services
AMD	Acid and Metalliferous Drainage
AN	Ammonium nitrate
ANC	Acid Neutralising Capacity
ANFO	Ammonium nitrate fuel oil
ANRA	Australian Natural Resource Atlas
ANZECC	Australia and New Zealand Environment Conservation Council
APCT	Abbot Point Coal Terminal
APHI	Australian Heritage Place Inventory
APSDA	Abbot Point State Development Area
AR-#	Alpha Rail cultural heritage site ID

ARI	Average Recurrence Interval
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
AS	Australian Standard
AS/NZS	Australian Standards/New Zealand Standards
ASC	Australian Soil Classification
ASRIS	Australian Soil Resource Information System
ASS	Acid Sulfate Soils
ASSMP	Acid Sulfate Soils Management Plan
ASX	Australian Securities Exchange
ATA	Alpha Township Airport
ATO	Automated Train Operation
ATP	Authority to Prospect
ATSB	Australian Transport Safety Bureau
AUSRIVAS	Australian River Assessment System
AUSROADS	Gaussian Plume Developed by EPA Victoria
AWS	Automatic Weather Station
BA	<i>Building Act 1975</i>
BFD	Burdekin Falls Dam
BFS	Bankability Feasibility Study
BGL	Below ground level
BHWSS	Burdekin-Haughton Water Supply Scheme
BIBO	Bus-in Bus-out
BMP	Blasting Management Plan
BOM	Bureau of Meteorology
Bonn Convention	Convention on the Conservation of Migratory Species of Wild Animals.
BoW	Base of weathering
BPA	Biodiversity Planning and Assessment
BPO	Barcaldine Post Office
BRC	Barcaldine Regional Council
BROP	Burdekin Resource Operations Plan 2009
BS	British Standards
BSPS	Belyando Shire Planning Scheme
BSTP	Bulk Sample Test Pit

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BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
Burra Charter	<i>The Australia ICOMOS Charter for the Places of Cultural Significance (1999)</i>
BWE	Bucket wheel excavation
C	Carbon
c.	Approximately
CadnaA	Computer Aided Noise Abatement
CAMBA	China-Australia Bird Agreement
CASA	Civil Aviation Safety Authority
CCIS	Climate Change Impact Statement
CCS	Carbon Capture and Storage
CCTV	Closed circuit television
CDD	Census Collection Districts
CDF	Community Development Fund
CEC	Cation Exchange Capacity
CEMP	Construction Environment Management Plan
CH	Chainage
CH <sub>4</sub>	Methane
CHMP	Cultural Heritage Management Plan
CHPP	Coal Handling and Preparation Plant
CHRC	Central Highlands Regional Council
CID	Community infrastructure designation
CL	Clay
CLR	Contaminated Land Register
CN	Stony coal
CNTA	<i>Commonwealth Native Title Act 1993</i>
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CO <sub>2-e</sub>	Carbon dioxide equivalent emissions
CO <sub>2-e/y</sub>	Carbon dioxide equivalent per year
COA	Certificate of Application
CoG	The Coordinator-General of the State of Queensland
Converge	Converge Heritage + Community
CoP	Code of Practice



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CoRTN	Calculation of Road Traffic Noise
CPMA	<i>Coastal Protection and Management Act 1995</i>
CPP	Coal Processing Plant
CPRS	Carbon Pollution Reduction Scheme
CQT	Conquest Mining Limited
CRC	Cooperative Research Centres
CS	Claystone
CSAS	Coal Sector Adjustment Scheme
CSG	Coal Seam Gas
CSIA	Cumulative Social Impact Assessment
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSN	Crucible Swelling Number
CSP	Corrugated steel pipe culverts
CU	Upper C Seam
CV	Commercial Vehicles
CWP	Coal Workers' Pneumoconiosis
Cwth	Commonwealth Government
DA	Development Application
DBCT	Dalrymple Bay Coal Terminal
DCC	Commonwealth Department of Climate Change
DCCEE	Department of Climate Change and Energy Efficiency (Commonwealth Government)
DCS	Qld Department of Community Safety
DEC	Department of the Environment and Conservation, NSW Government
DEEDI	Qld Department of Employment, Economic Development and Innovation
DEET	Former Qld Department of Employment, Education, and Training (now DET)
DEH	Department of Environment and Heritage
DERM	Queensland Department of Environment and Resource Management
DES	Former Qld Department of Emergency Services
DEU	Desert Uplands bioregion
DEWHA	Department of the Environment, Water, Heritage and the Arts
DEWR	Department of Employment and Workplace Relations
DGA	Declared Groundwater Areas
DHCS	Former Department of Health and Community Services

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DHLGP	Department of Housing and Local Government Planning
DIDO	Drive-in Drive-out
DIM&IA (ATSIC Disbanded)	Department of Immigration, Multicultural and Indigenous Affairs
DIP	Qld Department of Infrastructure and Planning
DLGP	Department of Local Government and Planning
DLGPSR	Department of Local Government, Planning, Sport and Recreation
DLL	D Lower Seam
DLM	D Middle Seam
DMC	Dense Medium Cyclone
DME	Former Qld Department of Mines and Energy (now DEEDI)
DMR	Department of Main Roads
DNRM	Department of Natural Resources and Mines
DNRW	Former Qld Department of Natural Resources and Water (now DERM)
DO	Dissolved oxygen
DoE	Department of Environment
DOS	Degree of Saturation
DPI	Department of Primary Industries
DPIF	Department of Primary Industries and Fisheries
DSA	Design Storage Allowance
DSEWPC	Department of Sustainability, Environment, Water, Population and Communities
DTMR	Department of Transport and Main Roads
DU	D Upper Seam
DWT	Deadweight
E	Energy
e.g.	For example
EA	Environmental Authority
EC	Electrical conductivity
EDC	Environmental Design Criteria
EEO	Energy Efficiency Opportunities
EF	Emission factor
EFO	Environmental Flow Objectives
EI	Erosion Index
EIA	Environmental Impact Assessment

EIL	Ecological Investigation Level
EIS	Environmental Impact Statement
EM Plan	Environmental Management Plan
EMM	Environmental Monitoring Manual
EMOS	Environmental Management Overview Strategy
EMP	Emergency Management Plan
EMR	Environmental Management Register
EMS	Environmental Management System
ENSO	El Niño/La Niña-Southern Oscillation
Eoa	Anakie Metamorphics
EP	Equivalent persons
EP Act	<i>Environmental Protection Act 1994 (Qld)</i>
EP Regulation	<i>Environmental Protection Regulation 2008</i>
EPA	Queensland Environmental Protection Authority
EPBC	Environmental Protection and Biodiversity Conservation
EPBC Act	<i>Environmental Protection and Biodiversity Conservation Act 1999 (CWLTH)</i>
EPC	Exploration Permit for Coal
EPCA	Exploration Permit for Coal Application
EPCM	Engineering Procurement Construction Management Consultants Pty Ltd
EPM	Exploration Permits for Mining
EPP	Exploration Petroleum Permits
EPP	Environmental Protection Policy (water, air, waste and noise)
EPP (Air)	Queensland Environmental Protection (Air) Policy 2008
EPP (Noise)	Environmental Protection (Noise) Policy 1997, 2008
EPP (Water)	Environmental Protection (Water) Policy 1997
EPR	<i>Environmental Protection Regulation 2008</i>
EPT	<i>Ephemeroptera, Plecoptera and Trichoptera taxa</i>
ERA	Environmentally Relevant Activity
ERE	Endangered Regional Ecosystem
ERTMS	European Rail Traffic Management System
ESA	Environmentally Sensitive Area
ESA	Equivalent Standard Axle (traffic)
ESCP	Erosion and sediment control plan

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ESD	Ecologically sustainable development
ESCP	Erosion and Sediment Control Plan
ESMCP	Erosion and Sediment Management Control Plan
ESP	Exchangeable Sodium Percentage
EVs	Environmental Values
FA	Fisheries Act 1994
FEL	Front End Loader
FHMOP	Fish Habitat Management Operational Policy
FIFO	Fly-in Fly-out
FoS	Factor-of-Safety
FRA	Federal Road Administration
FTE	Full Time Equivalent
FullCAM	Full Carbon Accounting Model
GAB	Great Artesian Basin
GARID	<i>Guidelines for the Assessment of Road Impacts of Developments 2006</i>
GBR	Great Barrier Reef
GBRMP	Great Barrier Reef Marine Park
GBRMP Act	Great Barrier Reef Marine Park Act 1975
GBRMPA	Great Barrier Reef Marine Park Authority
GBRWHA	Great Barrier Reef World Heritage Area
GDA94	Geocentric Datum of Australia 1994
GDP	Gross Domestic Product
GDR	Great Dividing Range
GGE	Greenhouse Gas Emissions
GGSA	<i>Greenhouse Gas Storage Act 2009 (Qld)</i>
GHD	Gutteridge Haskins and Davey P/L
GHG	Greenhouse gas
GIS	Geographic information systems
GJ	Giga Joule
GJ/y	Giga Joules per year
GL	Giga litre
GMU	Groundwater management unit
GPS	Global positioning system

QQAL	Good Quality Agricultural Land (in State Planning Policy 1/92: Development and the Conservation of Agricultural Land)
GRP	Gross Regional Product
GSP	Gross State Product
GSQ	Geological Survey of Queensland
GSV	Gross calorific value
GSV	Ground surface visibility
GT	Gas Turbine
GWh	Gigawatt hours
GWM	Groundwater monitoring
GWP	Global Warming Potential
H	Horizontal
H <sub>2</sub>	Hydrogen
H <sub>2</sub> O	Water
H <sub>2</sub> S	Hydrogen sulphide
H <sub>2</sub> SO <sub>4</sub>	Sulphuric acid
HCC	Hancock Consultative Committee
HCl	Hydrochloric acid
HCO <sub>3</sub>	Bicarbonate
HCPL	Hancock Coal Pty Ltd
HDPE	High Density Polyethylene
HGPL	Hancock Galilee Pty Ltd
HIMS	Hancock Integrated Management System
HIPAP	NSW Department of Planning's Hazardous Industry Planning Advisory Papers
HPPL	Hancock Prospecting Pty Ltd
HPS	High Pressure Sodium
HSEC	Health, Safety, Environmental and Community
HSECH	Health, Safety, Environment and Community/Heritage
i.e.	That is,
I30	Maximum 30 minute intensity of each storm
IAIA	International Association for Impact Assessment
IAP2	International Association for Public Participation Spectrum
IAS	Initial Advice Statement, as defined by Part 4 of the <i>State Development &amp; Public Works Organisation Act 1971</i>

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ICOMOS	International Council on Monuments and Sites
IDAS	Integrated Development Assessment System
IECA	International Erosion Control Association
IFS	Infrastructure Facility of Significance"
ILUA	Indigenous Land Use Agreement
IM	Inherent Moisture
IPA	<i>Integrated Planning Act 1997</i> (Qld) (repealed, now SPA 2009)
IPCC	Intergovernmental Panel on Climate Change or In-Pit Crushing and Conveying
IRC	Isaac Regional Council
IRR	Internal Rate of Return
IRTM	Interactive Resource Tenure Map
ISO	International organisation for standardisation
IUCN	International Union for the Conservation of Nature
JAMBA	Japan-Australia Migratory Bird Agreement
JCU	James Cook University
JORC	Joint Ore Reserves Committee
JSC	Jericho Shire Council
JSEA	Job Safety and Environmental Analysis
JSPS	Jericho Shire Planning Scheme 2006
JV	Joint Venture
KPIs	Key Performance Indicators
KRA	Key Resource Areas
L <sub>A1, 10, 90</sub>	A Weighted Noise Levels Exceeded 1%, 10% or 90% of the Time
LCA	Life Cycle Assessment
LD	Large Diameter
LFG	Landfill Gas
LGA	Local Government Areas
LHR	Local Government Heritage Register
LIA	Light Industrial Area
LiDAR	Light Detection and Ranging
LOM	Life of Mine
LOR	Limit of reporting
LOS	Level Of Service

LOX	Limit of Oxidation
LP Act	<i>Land Protection (Pest and Stock Route Management) Act 2002</i>
LPG	Liquefied Petroleum Gas
LTA	Land Title Act 1994
LV	Light Vehicle
LVIA	Landscape and Visual Impact Assessment
MCF	Multi Cargo Facility
MCU	Material change of use
MDL	Mineral Development Licence
MH	Metal Halide
MIA	Mine Infrastructure Area
MIC	Maximum Instantaneous Change
MIM	Mt Isa Mines
ML	Mining Lease
ML/annum	Mega litres per annum
MLA	Mining Lease Application
MNES	Matters of National Environmental Significance, as defined by the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cwlth)
MOU	Memorandum of Understanding
MR Act	Mineral Resources Act 1989
MRL	Mandatory Reporting Level
MSDS	Material Safety Data Sheet
MSQ	Marine Safety Queensland
Mt	Million Tonnes
N <sub>2</sub> O	Nitrous Oxide
NAF	Non Acid Forming
NATA	National Association of Testing Authorities
NC Act	<i>Nature Conservation Act 1992</i> (Qld)
NCA	<i>Native Title Act 1993</i>
NCAT	National Carbon Accounting Toolbox
NCCP	<i>Nature Conservation (Protected Plants) Conservation Plan 2000</i>
NCWA	Nature Conservation Wildlife Regulation
NCWR	<i>Nature Conservation Wildlife Regulation 1999</i>
NEPC	National Environmental Protection Council

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NEPM	National Environment Protection Measure
NEPM (Ambient Air Quality)	National Environment Protection Measure (Ambient Air Quality)
NES	National Environmental Significance
NET	Northern Economic Triangle
NGA	National Greenhouse Accounts
NGER Act	<i>National Greenhouse and Energy Reporting Act 2007</i>
NGS	National Greenhouse Strategy
Nm <sup>3</sup>	Normal Cubic Metre
NML	Northern missing link
No.	Number
NO <sub>2</sub>	Nitrogen Dioxide
NOHSC	National Occupational Health and Safety Commission (Australia)
NOI	Notice of Intent
NO <sub>x</sub>	Oxides of Nitrogen
NPI	National Pollutant Inventory
NPR	Net Potential Ratio
NPV	Net Present Value
NPWS	National Parks and Wildlife Service
NQBP	North Queensland Bulk Ports Corporation
NRM	National Resource Management
NSESD	National Strategy for Ecologically Sustainable Development (1992)
NSW	New South Wales
NT Act	<i>Native Title Act 1993</i>
NTA	Native Title Agreement
NTRB	Native Title Representative Body
NTU	Nephelometric Turbidity Units
NWQMS	National Water Quality Management Strategy
O <sub>2</sub>	Oxygen
O <sub>3</sub>	Ozone
OCE	Open Cut Examiner - Statutory Position under the <i>Coal Mining Safety and Health Regulation 2001</i> (Qld)
ODV	Over Dimensional Vehicles
OECD	Organisation for Economic Co-operation and Development
OEMP	Operational Environmental Management Plan



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OESR	Office of Economic and Statistical Research
OHS	Occupational Health and Safety
OLC	Overland Conveyor
OSHA	Occupational Safety and Health Administration
PAF	Potentially Acid Forming
PASS	Potential acid sulfate soil
PAWC	Plant Available Water Capacity
PB	Parsons Brinckerhoff
PC	Performance criteria
PCBs	Polychlorinated Biphenyls
PCI	Pulverised Coal Injection
PCQ	Ports Corporation of Queensland
PCYC	Police Citizens Youth Clubs
PEL	Permissible Exposure Limit
PFS	Pre-Feasibility Study
pH	Measure of Acidity (<7) or Alkalinity (>7) of a Sample.
PHA	Preliminary Hazard Analysis
PHMP	Principal Hazard Management Plan
PIFU	Planning Information and Forecasting Unit
PL	Planning Levels
Plv	Type of Andesitic volcanic
PM	Particulate Matter (fine dust)
PM <sub>10</sub>	Particulate Matter less than 10 microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
PM <sub>2.5</sub> and PM <sub>10</sub>	Particulate matter with an equivalent aerodynamic diameter of 2.5 or 10 micrometres.
PMAV	Property Map of Assessable Vegetation
PMC	Project Management and Construction
PMF	Probable Maximum Flood
PNL	Planning Noise Levels
PPE	Personal Protective Equipment
PPV	Peak Particle Velocity
Proponent	Hancock Prospecting Pty Ltd
PSI	Preliminary Site Investigation

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PVMP	Property Vegetation Management Plan
PWHC	Profile Water Holding Capacity
PWTP	Potable Water Treatment Plant
Qa	Quaternary-aged
QAS	Queensland Ambulance Service
QASSIT	Queensland Acid Sulfate Soil Investigation Team
QCISP	Queensland Coal Infrastructure Strategic Plan”
QDEX	Queensland Digital Exploration Reports system
QDM	Queensland Department of Mines
QFRS	Queensland Fire Rescue Service
QGEOIP	Queensland Government Environmental Offset Policy
QH	Queensland Health
QHA	Queensland Heritage Act 1992
QHR	Queensland Heritage Register
Qld	Queensland
QNT	Queensland National Trust
QOCC	Queensland Office of Climate Change
QPS	Queensland Police Service
QR	Queensland Rail
QRC	Queensland Resources Council
QT	Queensland Transport
QWQ	Queensland Water Quality
QWQG	Queensland Water Quality Guideline
RA	Restricted Area
RBL	Rating Background Levels
RCBC	Precast concrete box culverts
RD	Relative Density
RE	Regional Ecosystem
REDD	Regional Ecosystem Description Database
REMP	Receiving Environment Monitoring Program
RFDS	Royal Flying Doctor Service
RFS	Rural Fire Service
RIA	Road Impact Assessment

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RL	Reduced Level (relative height compared to Australian Height Datum)
RLMS	Resource and Land Management Services
RMP	Rehabilitation Management Plan
RMS	Root Mean Square
RN	Registration number, DERM groundwater bores
RNE	(former) Register of the National Estate
RoL	Reconfiguration of lots
ROM	Run of Mine
ROP	Resource Operation Plans
ROW	Right of Way
rpm	Revolution Per Minute
RPP	Riverine Protection Permit
RRV	Ross River virus
RSO	Radiation Safety Officer
RT	Rubber tyred
RTA	New South Wales (NSW) Roads and Traffic Authority
RTN	Right to Negotiate
RUMP	Road-Use Management Plan
S	Scientific
SCL	Strategic Cropping Land
SCR	State Controlled Road
SD	Statistical Division
SDA	State Development Areas
SDPWO Act	<i>State Development and Public Works Organisation Act 1971</i>
SEIS	Supplementary Environmental Impact Statement
SEVT	Semi-evergreen vine thickets
SGCP	South Galilee Coal Project
SIA	Social Impact Assessment
SIAU	Social Impact Assessment Unit
SIDRA	Signalised and Unsignalised Intersection Design and Research Aid
SIGNAL	Stream Invertebrate Grade Number – Average Level
SIMP	Social Impact Management Plan
SLA	Statistical Local Area

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SMOF	Single Mode Optic Fibre
SMP	Species Management Program
SMP	Stormwater Management Plan
SMP	Site Management Plan
SMS	Safety Management System
SMU	Soil Management Unit
SNL	Specific Noise Levels
SO <sub>2</sub>	Sulphur Dioxide
SO <sub>4</sub>	Sulphate
SOPs	Standard Operating Procedures
SP Act	<i>Sustainable Planning Act 2009</i>
SP Regulation	<i>Sustainable Planning Regulation 2009</i>
SPCC	State Pollution Control Commission
SPL	Strategic Port Land
SPL	Sound Pressure Level
SPP	State Planning Policies
SPP 1/03	State Planning Policy 1/03 Mitigating the Adverse Impacts of Flood, Bushfire and Landslide
SRD	Spoil Runoff Dam
SRE	Short Range Endemic
SRN	Stock route network
STP	Sewage Treatment Plant
SWL	Standing water level or Sound level
TAFE	Technical and Further Education
TAPM	The Air Pollution Model
TC	Tropical cyclone
TCLP	Toxic Characteristic Leaching Potential
TDS	Total Dissolved Solids
TEC	Threatened ecological communities
TI Act	<i>Transport Infrastructure Act 1994</i>
TIA	Transport Impact Assessment
TLO	Train Load Out
TMP	Topsoil Management Plan
TMR	Transport and Main Roads (Queensland)

ToC	Time of concentration
TOR	Terms of Reference as Defined by Part 4 of the <i>State Development &amp; Public Works Organisation Act 1971</i>
TP Act	<i>Trade Practices Act 1974</i>
TPH	Total Petroleum Hydrocarbons
TR	Tourism Region
TS	Total Sulfur
TSF	Tailings Storage Facility
TSP	Total Suspended Particulates
TSPP	Temporary State Planning Policy
TSS	Total Suspended Solids
TTMP	Traffic and Transport Management Plan
TWA	Time Weighted Average
UA	Unincorporated Areas
UC	Uncertain
UCG	Underground Coal Gasification
ULP	Unleaded Petrol
UNFCCC	United Nations Framework Convention on Climate Change
UNFCCC COP	Conference of the Parties to UNFCCC
UPS	Uninterrupted Power Supply
UQSCTL	University of Queensland's Spontaneous Combustion Testing Laboratory
URS	URS Australia Pty Ltd
US DLOSHA	United States Department of Labour, Occupational Safety and Health Administration
USA	United States of America
V	Vertical When Referring to Slope Angle or Volts When Referring to Power
V:H	Vertical to Horizontal ratio
VAC	Visual Absorption Capability
VAST	Vegetation Assets, States and Transitions
VCL	Versatile Cropping Land
VEA	Voluntary Environmental Assessment
VIA	Visual Impact Assessment
Vis-NIR-SWIR	Visible, Near Infrared, Short Wavelength Infrared
VKT	Vehicle Kilometres Travelled

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VMOLA Act	<i>Vegetation Management and Other Legislation Amendment Act 2009</i>
VM Act	<i>Vegetation Management Act 1999</i>
VMP	Vegetation Management Plan
VOC	Volatile Organic Compound
VSC	valued social component
W & J	Wangan & Jagalingou
WA	<i>Water Act 2000</i>
WA EPA	Western Australia Environmental Protection Authority
WAN	Wide Area Network
WCI	World Coal Institute
WERD	Water Entitlements Registration Database
WHA	World Heritage Area
WHAM	Whitsunday Hinterland and Mackay
WHO	World Health Organisation
WMP	Weed Management Plan
WMS	Water Management System
WONS	Weeds of National Significance
WQO	Water Quality Objectives
WRBBP	<i>Water Resource (Burdekin Basin) Plan 2007</i>
WRC	Whitsunday Regional Council
WRP	Water Resource Plan
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant
X110	Bulk Ports project assignation
ZN	Coaly Mudstone

### A.3 Units

Unit	Definition
%	Percent
<	Less than
>	Greater than
µg/L	Micrograms per litre
µg/m <sup>3</sup>	Micrograms (one-millionth of a gram) per cubic meter air

µS/cm	Microsiemens per centimetre
°C	Degrees Celsius
bcm	Bank cubic metres
Bt	Billion tonnes
CCIS	Climate Change Impact Statement
CH <sub>4</sub>	Methane
Cm	Centimetre(s)
dB	Decibels
dB(A)	Unit used to measure 'A-weighted' sound pressure levels
dS/m	Deci-Siemens per metre
DWT	Dry Weight Tonnage
G	Giga
g/m <sup>2</sup> /month	Gram per square metre per month
g/m <sup>3</sup>	Grams per cubic metre
ha	Hectare(s)
hp	Horse power
Hz	Hertz
K	Hydraulic Conductivity
kg	Kilogram
kg/ha	Kilogram per hectare
kHz	Kilohertz
kL	Kilolitres
kL/day	Kilolitres per day
km	Kilometre(s)
km/h	Kilometres per hour
km <sup>2</sup>	Square kilometre
Kph	Kilometres per hour
kt	Kilotonne
kV	Kilovolt
kVA	Kilovolt-ampere
L	Litres
L/s	Litres per second
l/sec	Litres per second

## APPENDICES

L/yr	Litres per year
L <sub>A10</sub> (1 hour)	The L <sub>A10</sub> level measured over a 1-hour period.
L <sub>A10</sub> (18 hour)	The arithmetic average of the L <sub>A10</sub> levels for the 18-hour period between 0600 and 2400 hours on a normal working day. It is a common traffic noise descriptor.
L <sub>A10</sub> (Time)	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.
L <sub>A90</sub> (Time)	The A-weighted sound pressure level that is exceeded for 90 per cent of the time over which a given sound is measured. This is considered to represent the background noise e.g. LA90 (15 min)
L <sub>Aeq</sub> (1 hr)	The L <sub>Aeq</sub> noise level for a one-hour period. It represents the highest tenth percentile hourly A-weighted Leq during the period 7 am to 10 pm, or 10 pm to 7 am, (whichever is relevant).
L <sub>Aeq</sub> (15 hr)	The L <sub>Aeq</sub> noise level for the period 7 am to 10 pm. (Day and Evening)
L <sub>Aeq</sub> (9 hr)	The L <sub>Aeq</sub> noise level for the period 10 pm to 7 am. (Night)
L <sub>Aeq</sub> (Time)	Equivalent sound pressure level: the steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring. This is considered to represent ambient noise.
L <sub>AMax</sub> (Time)	The maximum sound level recorded during a specified time interval.
L <sub>AMin</sub> (Time)	The minimum sound level recorded during a specified time interval.
L <sub>AN</sub>	Statistical sound measurement recorded on the "A" weighted scale.
L <sub>LF</sub>	Low frequency noise level in the frequency range 20 Hz to 200 Hz.
L <sub>N</sub>	Statistical sound measurement recorded on the linear scale.
M	Million or mega
m	Metre
m AHD	Meters Australian Height Datum
m BGL	Metres below ground level
m/d	Metres per day
m/s	Metres per second
m <sup>2</sup>	Square metres
m <sup>3</sup>	Cubic metres
m <sup>3</sup> /h	Cubic metres per hour
m <sup>3</sup> /s	Cubic metres per second
m <sup>3</sup> /y	Cubic metres per year
Mbcm	Million bank cubic metres
mcg	Micrograms (10 <sup>-6</sup> grams)
Meq/100g	Milliequivalent per 100 grams



mg	Milligram ( $10^{-3}$ grams)
mg/kg	Milligrams per kilogram
mg/L	Milligrams per litre
$\mu\text{g}/\text{m}^3$	Micrograms per cubic metre
ML	Million litres or megalitre
ML/a	Mega-litres per annum
ML/yr	Megalitres per year
$\mu\text{m}$	Micrometres
mm	Millimeter
mm/day	Millimetres per day
mm/s	Millimetres per second
$\text{Mm}^3$	Million cubic metres
$\text{Mm}^3$	Million cubic metres
Mt	Million tonnes
Mtpa	Million tonnes per annum
MW	Megawatt
MWh	Megawatt hours
NTU	Nephelometric Turbidity units
PJ	Petajoule
ppm	Parts per million
SiO <sub>2</sub>	Silicon Dioxide
t	Tonnes
t/h	Tonnes per hour
$\text{t}/\text{m}^3$	Tonnes per cubic metre
tpa	Tonnes per annum
tph	Tonnes per hour
$\mu\text{S}/\text{cm}$	Micro siemens per centimetre (used in electrical conductivity measurements)
yr	Year
$\mu\text{g}/\text{L}$	Micrograms per litre
$\mu\text{g}/\text{m}^3$	Micrograms per cubic metre
$\mu\text{m}$	Micrometres
$\mu\text{S}/\text{cm}$	Microsiemens per centimetre