

## Terms and abbreviations

Terms and abbreviations	Definition
µg/m <sup>3</sup>	Micrograms per cubic meter
AADT	Annual Average Daily Traffic
ABARES	Australian Bureau of Agriculture and Resource Economics and Sciences
Abbot Point CIA	Abbot Point Cumulative Impact Assessment
ABS	Australian Bureau of Statistics
ACH Act	<i>Aboriginal Cultural Heritage Act 2003</i>
Adani	Adani Mining Pty Ltd
ADG Code	Australian Dangerous Goods Code
AHD	Australian Height Datum
Airblast overpressure	The energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using linear frequency weighting
Air EPP	<i>Environmental Protection (Air) Policy 2008</i>
Air NEPM	National Environment Protection (Ambient Air Quality) Measure
Air Toxics NEPM	National Environment Protection (Air Toxics) Measure
ANFO	Ammonium Nitrate Fuel Oil
ANZECC	Australian and New Zealand Environment and Conservation Council
APCT	Abbot Point Coal Terminal
APSDA	Abbot Point State Development Area
AquaBAMM	Aquatic Biodiversity Assessment and Mapping Method
ARI	Annual Recurrence Interval
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
AS	Australian Standard
ASS	Acid sulfate soil

Terms and abbreviations	Definition
ATSIHP Act	<i>Aboriginal and Torres Strait Island Heritage Protection Act 1984</i>
AUL	Auxiliary left turn treatment
AUR	Auxiliary right turn treatment
AUSRIVAS	Australian River Assessment System
Aurizon	Aurizon Holdings Limited
BAAM	Biodiversity Assessment and Management Pty Ltd
BAL	Basic left turn treatment
BAR	Basic right turn treatment
BHP Billiton	BHP Billiton Pty Ltd
Blasting	The use of explosives to fracture rock, coal or other materials for later recovery
BMT WBM	BMT WBM Pty Ltd
BOM	Bureau of Meteorology
Bonn Convention	Convention on the Conservation of Migratory Species of Wild Animals
BPA	Biodiversity Planning Assessment
Brigalow TEC	Brigalow ( <i>Acacia harpophylla</i> ) dominant and co-dominant Threatened Ecological Community
BTF Recovery Team	Black-throated Finch Recovery Team
BVC	Broad Vegetation Community
CadnaA	Computer Aided Noise Abatement
CALMET	Atmospheric meteorological modelling system
CAMBA	Agreement between the Government of Australia and the Government of the People's Republic of China for the Protection of Migratory Birds and their Environment
CAPEX	Capital expenditure
Carmichael Project (Mine)	Mine and offsite infrastructure components of the Carmichael Coal Mine and Rail Project
Carmichael Project (Rail)	Rail components of the Carmichael Coal Mine and Rail Project
Carmichael Project	Carmichael Coal Mine and Rail Project
CDM Smith	CDM Smith Pty Ltd

Terms and abbreviations	Definition
CEO	Chief Executive Officer
CG	Coordinator-General
CHL	Channelised left turn treatment
CHR	Channelised right turn treatment
CHMP	Cultural Heritage Management Plan
CID	Community Infrastructure Designation
CIPA	Coal Infrastructure Program of Actions
CIR	Code Industry Report
CLR	Contaminated Land Register
Coastal Act	<i>Coastal Protection and Management Act 1995</i>
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CORVEG	Queensland Herbarium's site-based floristic dataset containing field survey data.
CQIRP	Central Queensland Integrated Rail Project
CSIRO	Commonwealth Scientific and Industrial Research Organisation
Cth	Commonwealth
Cut	An excavation for constructing below the natural ground level
DAFF	Department of Agriculture, Fisheries and Forestry (Qld)
DATSIMA	Department of Aboriginal and Torres Strait Islander and Multicultural Affairs (Qld)
dB	Decibel is the unit used for expressing the sound pressure level or power level in acoustics
dB(A)	Frequency weighting filter used to measure 'A-weighted' sound pressure levels, which conforms approximately to the human ear response, as our hearing is less sensitive at very low and very high frequencies
DCDB	Digital Cadastral Database
DEEDI	Former Department of Employment, Economic Development and Innovation (Qld)
DEH	Former Department of Environment and Heritage (Cth)

Terms and abbreviations	Definition
DEHP	Department of Environment and Heritage Protection (Qld)
DEM	Digital Elevation Model
DERM	Former Department of Environment and Resource Management (Qld)
DEO	Desired environmental outcome
DETE	Department of Education, Training and Employment (Qld)
DEWHA	Former Department of the Environment, Water, Heritage and the Arts (Cth)
DHLGP	Former Department of Housing, Local Government and Planning (Qld)
DIDO	Drive-in-drive-out
DIICCSTE	Department of Industry, Innovation, Climate Change, Science, Research and Tertiary Education (Cth)
DIWA	Directory of Important Wetlands in Australia
DLGP	Former Department of Local Government and Planning (Qld)
DNR	Former Department of Natural Resources (Qld)
DNRM	Department of Natural Resources and Mines (Qld)
DO	Dissolved oxygen
DPI	Former Department of Primary Industries (Qld)
DSDIP	Department of State Development, Infrastructure and Planning (Qld)
DSITIA	Department of Science, Information Technology, Innovation and the Arts (Qld)
DTMR	Department of Transport and Main Roads (Qld)
E3 Consulting	E3 Consulting Pty Ltd
EA	Environmental Authority
EC	Electrical conductivity
EIANZ	Environment Institute of Australia and New Zealand
EIS	Environmental Impact Statement
ELA	Eco Logical Australia

Terms and abbreviations	Definition
EMP	Environmental Management Plan
EMR	Environmental Management Register
EMS	Environmental management system
EOP	Environmental Offsets Policy
EPA	Former Environmental Protection Agency (EPA) (Qld)
EPA Victoria	Environment Protection Authority Victoria
EP Act	<i>Environmental Protection Act 1994</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EPC	Exploration Permit for Coal
EPM	Exploration Permit for Minerals
EMP (Construction)	Construction Environmental Management Plan
EMP (Operation)	Operation Environmental Management Plan
EPP	Exploration Permit for Petroleum
Air EPP	<i>Environmental Protection (Air) Policy 2008</i>
Noise EPP	<i>Environmental Protection (Noise) Policy 2008</i>
EPPs	Environmental Protection Policies
EPP Water	<i>Environmental Protection (Water) Policy 2009</i>
ERA	Environmentally Relevant Activities
ESCP	Erosion and Sediment Control Plan
ESD	Ecologically Sustainable Development
ESP	Exchangeable Sodium Percentage
EV	Environmental Value
FAQs	Frequently Asked Questions
FHMOP 005.2	Queensland Marine Fish Habitat Offsets Policy
FIFO	Fly-in-fly-out
Fill	Earth used to construct an embankment
Final NGBR Project footprint	The final NGBR Project footprint will accommodate all rail infrastructure required for construction and operation, scalable to accommodate 100 mtpa product coal transport, including passing

Terms and abbreviations	Definition
	<p>loops, a maintenance road, rolling stock maintenance (provisioning, fuel storage and refuelling, maintenance, etc.), water supply and pipeline, track and signalling maintenance facilities, staff crib, accommodation and training facilities and other necessary infrastructure associated with the operational functions of the NGBR Project.</p> <p>Temporary construction facilities are expected to include laydown areas, construction depots (warehousing, fuel storage, vehicle storage, administration facilities, etc.), sleeper manufacturing yards, construction accommodation camps, quarries and borrow pits, access tracks into the corridor and other necessary infrastructure associated with the construction functions of the NGBR Project.</p>
Final rail corridor	The NGBR Project nominal 100 m wide corridor.
Fisheries Act	<i>Fisheries Act 1994</i>
Fisheries Regulation	<i>Fisheries Regulation 1995</i>
FTE	Full-time Equivalent
FullCAM	Full Carbon Accounting Model
g	Grams
GBCIF	Galilee Basin Coal Infrastructure Framework
GARID	Guidelines for the Assessment of Road Impacts of Developments
GBR	Great Barrier Reef
GBRMP	Great Barrier Reef Marine Park
GBRWHA	Great Barrier Reef World Heritage Area
GBR WMA	Great Barrier Reef Wetland Management Area
GCM	Global Climate Model
GDE	Groundwater dependant ecosystem
GDP	Gross Domestic Product
GHD	GHD Pty Ltd
GHG	Greenhouse Gas
GHG Protocol	<i>The Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard</i> developed by the World Resource Institute and the World Business Council for Sustainable Development
GIS	Geographic Information System
GMA	Groundwater Management Areas

Terms and abbreviations	Definition
GMU	Groundwater Management Units
GP	General Practitioner
GPS	Global Positioning System
GQAL	Good Quality Agricultural Land
Greentape Reduction Act	<i>Environmental Protection (Greentape Reduction) and Other Legislation Amendment Act 2012</i>
GRP	Gross Regional Product
GSP	Gross State Product
GWDB	Groundwater database
ha	Hectare
HEC-RAS	Hydrologic Engineering Centre's River Analysis System
HERBRECS	Queensland herbarium data storage project
Hg	Mercury
HOC	History of Cropping
hr	Hour
HSS	Health, Safety and Security
HV	High voltage
IAIA	International Association for Impact Assessment
IAS	Initial Advice Statement
IBRA	Interim Biogeographic Regionalisation for Australia
ICN	Industry Capability Network
ICNG	NSW EPA Interim Construction Noise Guideline
ICOMOS	Australia International Council on Monuments and Sites
IDAS	Integrated Development Assessment System
IECA	International Erosion Control Association (Australasia)
Indigenous	Aboriginal and/or Torres Strait Islander
I-O model	Input-output economic model
ILUA	Indigenous Land Use Agreement
IPCC	Intergovernmental Panel on Climate Change
IRC	Isaac Regional Council
JAMBA	Agreement between the Government of Australia and the Government of Japan for the Protection of Migratory Birds in Danger of Extinction and their Environment

Terms and abbreviations	Definition
kPa	Kilopascal
kL	Kilolitre
km	Kilometre
KRAs	Key Resource Areas
KVa	Kilovolt-ampere
$L_{A90(\text{period})}$	The sound pressure level that is exceeded for 90 per cent of the measurement period
$L_{Aeq(\text{period})}$	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
$L_{Amax}$	The maximum sound level recorded during the measurement period
Land Act	<i>Land Act 1994</i>
Landscape feature	A component, part or feature of the landscape that is prominent or eye-catching, e.g. hills, buildings, vegetation
LCU	Landscape Character Unit
LGA	Local Government Area
LIDAR	Light Detection and Ranging
long distance	6 – 16 km – Textures are no longer visible, but mountain and valley forms, skylines and ridgelines are important (Forest Practice Board Tasmania, 2006)
LOS	Level of Service
LP Act	<i>Land Protection (Pest and Stock Route Management) Act 2002</i>
L/s	Litre per second
LV	Light Vehicle
m	Metre
m <sup>2</sup>	Square metres
m <sup>3</sup>	Cubic metres
mAHD	Metres Australian Height Datum
mbgl	Metres below ground level
m/day	Metre per day
medium distance	1 – 6 km – different elements in the landscape are visually apparent (Forest Practice Board Tasmania, 2006)



Terms and abbreviations	Definition
mg/L	Milligram per litre
MIC	Maximum Instantaneous Charge
MIDQ	Minister of Industrial Development Queensland
Mitigation	Limit the intensity, frequency or duration of impacts or prevent impacts.
MIW	Mackay, Isaac and Whitsunday
MIWRP	Mackay, Isaac and Whitsunday Regional Plan
mm	Millimetres
mm/s	Millimetres per second
MNES	Matters of National Environmental Significance
MR Act	<i>Mineral Resources Act 1989</i>
MRC	Mackay Regional Council
mtpa	Million tonnes per annum
MWh	Megawatt hour
NC Act	<i>Nature Conservation Act 1992</i>
NCAT	National Carbon Accounting Toolbox
NEPM	National Environmental Protection Measures
NGA	National Greenhouse Accounts
NGBR	North Galilee Basin Rail
NGBR Project	North Galilee Basin Rail Project
NGER Act	<i>National Greenhouse and Energy Reporting Act 2007</i>
NO <sub>2</sub>	Nitrogen dioxide
NO <sub>x</sub>	Oxides of nitrogen
NQBP	North Queensland Bulk Ports Corporation Limited
NRM	Natural Resource Management
NSW	New South Wales
NSW EPA	New South Wales Environmental Protection Authority
NT Act	<i>Native Title Act 1993</i>
OESR	Office of Economic and Statistical Research

Terms and abbreviations	Definition
OPEX	Operational expenditure
PASS	Potential Acid Sulfate Soils
PCYC	Police and Citizens Youth Club
pH	Describes the acid-alkaline balance of a substance
PIF	Private Infrastructure Facility
PL	Passing Loops
PM <sub>2.5</sub>	Particulate matter of less than 2.5 micron
PM <sub>10</sub>	Particulate matter of less than 10 micron
PMAV	Property Map of Assessable Vegetation
PPD	Patched-point datasets
PPL	Petroleum Pipeline Licence
PPV	Peak particle velocity, a measure of the ground vibration magnitude and is the maximum instantaneous particle velocity at a point during a given time interval in mm/s
Preliminary investigation corridor	The NGBR Project nominal 1,000 m wide corridor
Pty Ltd	Proprietary Limited
PVMO	Policy for Vegetation Management Offsets
PVMP	Property Vegetation Management Plan
QAS	Queensland Ambulance Service
QBOP	Queensland Biodiversity Offsets Policy
QCoal	QCoal Pty Ltd
QFRS	Queensland Fire and Rescue Services
QGEOP	Queensland Government Environmental Offsets Policy 2008
QH Act	<i>Queensland Heritage Act 1992</i>
Qld	Queensland
QPS	Queensland Police Service
QR	Queensland Rail
QRA	Queensland Reconstruction Authority

Terms and abbreviations	Definition
QRC	Queensland Resources Council
QRS	Queensland Regionalisation Strategy
QTRIP	Queensland Transport and Roads Investment Program
QWQG	Queensland Water Quality Guidelines
RA	Restricted Area
RBL	<p>Rating Background Level</p> <p>The RBL or minLA90,1 hour is the overall single-figure background noise level representing each assessment period (day/evening/night) over the whole monitoring period (as opposed to over each 24 hour period used for the assessment background level). This is the level used for assessment purposes. It is defined as the median value of:</p> <p>All the day assessment background levels over the monitoring period for the day (7:00 am to 6:00 pm)</p> <p>All the evening assessment background levels over the monitoring period for the evening (6:00 pm to 10:00 pm)</p> <p>All the night assessment background levels over the monitoring period for night (10:00 pm to 7:00 am)</p>
RE	Regional Ecosystem
REDC	Regional Economic Development Corporation
RING	NSW EPA Rail Infrastructure Noise Guideline
RLRPA	Regional Landscape and Rural Production Area
Royalties for Regions	<i>Royalties for the Region Initiative</i>
ROKAMBA	Agreement between the Government of Australia and the Government of the Republic of Korea on the Protection of Migratory Birds
ROP	Resource Operations Plan
RPDM	Road Planning and Design Manual 2 <sup>nd</sup> edition
SA2	<p>Statistical Area Level 2</p> <p>A general-purpose medium-sized area that represents a community that interacts socially and economically</p>
SAP	Sampling and Analysis Plan
SARA	State Assessment and Referral Agency

Terms and abbreviations	Definition
SBMP	Site Based Management Plan
SCL	Strategic Cropping Land
SCL Act	<i>Strategic Cropping Land Act 2011</i>
SCR	State-controlled road  Road classification is an indication of the functional role a road plays within a region. DTMR has jurisdiction over roads of State or regional significance and has four administrative classifications in its hierarchy of roads, herein referred to as State-controlled roads. These are: <ul style="list-style-type: none"> <li>• National Highway</li> <li>• State Strategic Road</li> <li>• Regional Road</li> <li>• District Road.</li> </ul>
SDA	State Development Area
SDPWO Act	<i>State Development and Public Works Organisation Act 1971</i>
SDS	Safety Data Sheets
SEIFA	Socio-Economic Indexes for Areas
SEIS	Supplementary Environmental Impact Statement
Sensitive visual receptor	Person and/or viewer group that has the potential to experience an impact
SEVT	Semi-evergreen vine-thicket
SEVT TEC	Semi-evergreen vine thickets of the Brigalow Belt (north and south) and Nandewar regions Threatened Ecological Community
SEWPaC	Department of Sustainability, Environment, Water, Population and Communities (Cth)
Short distance	0 – 1 km – Is the visual zone where colour contrast and textural detail are most clearly perceived (Forest Practice Board Tasmania, 2006).
SIA	Social Impact Assessment
SLA	Statistical Local Areas
SO <sub>2</sub>	Sulfur dioxide
SP Act	<i>Sustainable Planning Act 2009</i>
SPP	State Planning Policy
SPP 1/02	State Planning Policy 1/02 Development in the Vicinity of Certain

Terms and abbreviations	Definition
	Airports and Aviation Facilities 1.0
SPP 1/03	State Planning Policy 1/03 Mitigating the Adverse Impacts of Flood, Bushfire and Landslide 1.0
SPP 1/07	State Planning Policy 1/07 Housing and Residential Development including Guideline 1.0
SPP 1/12	State Planning Policy 1/12 Protection of Queensland's Strategic Cropping Land
SPP 1/92	State Planning Policy 1/92 Development and the Conservation of Agricultural Land 1.0
SPP 2/02	State Planning Policy 2/02 Planning and Managing Development Involving Acid Sulfate Soils 1.0
SPP 2/07	State Planning Policy 2/07 Protection of Extractive Resources and Guideline
SPP 2/10	State Planning Policy 2/10 South East Queensland Koala Conservation
SPP 3/10	State Planning Policy 3/10 Acceleration of compliance assessment
SPP 3/11	State Planning Policy 3/11: Coastal Protection
SPP 4/10	State Planning Policy 4/10 Healthy Waters
SPP4/11	State Planning Policy 4/11 Protecting wetlands of high ecological significance in Great Barrier Reef catchments
SPP 5/10	State Planning Policy 5/10 Air, Noise and Hazardous Materials
SPRAT	SEWPaC Species profiles and threat database
SPRP	State planning Regulatory Provision
SP Reg	<i>Sustainable Planning Regulation 2009</i>
SRTM	Shuttle Radar Topography Mission
TAFE	Technical and Further Education
t/CO <sub>2</sub> -e	Tonnes of carbon dioxide equivalents, an measure of Global Warming Potential
TDS	Total dissolved solids
TEC	Threatened Ecological Community
TI Act	<i>Transport Infrastructure Act 1994</i>

Terms and abbreviations	Definition
TMP	Traffic Management Plan
TOR	Terms of Reference
TSP	Total suspended particulates
Type BA	Basic intersections
Type CH	Channelised intersections
UA	Unincorporated areas
UNESCO	United Nations Educational, Scientific and Cultural Organisation
USEPA	United States Environment Protection Authority
VAST	Vegetation Assets, States and Transitions
Vibration	<p>The variation of the magnitude of a quantity which is descriptive of the motion or position of a mechanical system, when the magnitude is alternately greater and smaller than some average value or reference.</p> <p>Vibration can be measured in terms of its displacement, velocity or acceleration. The common units for peak particle velocity are millimetres per second (mm/s).</p>
Viewing locations	Viewing locations are used in this report to typify the views experienced by potentially sensitive visual receptors throughout the visual catchment of the proposal. Viewing locations in this report often represent a viewing area, rather than one exact point
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; and people's responses to these changes and the overall impact to visual amenity. This can be positive (i.e. beneficial or an improvement), negative (i.e. adverse or a detractor) or neutral (neither enhance nor detract)
VM Act	<i>Vegetation Management Act 1999</i>
WHS Act	<i>Work Health and Safety Act 2011</i>
WMP	Workforce Management Plan
WPA	Wetland Protection Area
WQO	Water Quality Objective
WRC	Whitsunday Regional Council
WRCCP	Whitsunday Regional Council Community Plan 2011-2021: Our

Terms and abbreviations	Definition
	Conversation with our Community
WRP	Water Resource Plan
WRR Act	<i>Waste Reduction and Recycling Act 2011</i>
WSSR Act	<i>Water Supply (Safety and Reliability) Act 2008</i>
WTWHA	Wet Tropics World Heritage Area
ZTV	Zone of Theoretical Visibility