

CHAPTER
 25

Abbreviations and glossary

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector,

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25 Abbreviations and glossary

25.1 Units of measurement

| Abbreviation | Definition |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| % | per cent |
| °C | degrees Celsius |
| μm | micrometre |
| µg/L | micrograms per litre |
| µg/m³ | micrograms per cubic metre |
| µs/cm | microsiemens per centimetre |
| CO ₂₋ e | carbon dioxide equivalent |
| dB | decibel ratio (a unit of sound level measurement) |
| dBA or dB(A) | A-weighted decibel (a unit of sound level measurement) |
| dBm | decibel per metre |
| dBV | vibration expressed as decibels (referenced level 1 nanometres/second) |
| dS/m | deciSiemens per metre |
| ha | hectare |
| Hz | hertz |
| kg | kilograms |
| kg/m | kilograms per metre |
| kL | kilolitre |
| km | kilometres |
| km/hour | kilometres per hour |
| km² | square kilometres |
| kt | kilotonne |
| kV | kilovolt |
| kW | kilowatt |
| kWhr | kilowatt hours |
| L | litre |
| L/m ³ | litres per cubic metre |
| L ₁₀ | The sound pressure level exceeded for 10 per cent of the measurement period. For 10 per cent of the measurement period it was louder than the L_{10} . |
| L ₉₀ | The sound pressure level exceeded for 90% of the measurement period. Typically used to described ambient (background) noise levels. |
| LA _{10(1 hour)} | The A-weighted sound pressure level that is exceeded for 10% of the measurement period (1 hour) |
| LA _{10(18 hour)} | The arithmetic average of the L_{A10} from 6.00 am to 12.00 am |
| LA _{eq(1 hour)} | The busiest 1-hour 'equivalent continuous noise level'. It represents the typical L _{Aeq} noise level from all the proposal noise events during the busiest 1-hour of the assessment period. |
| LA _{eq(9 hour)} | The equivalent 'continuous sound level' for the 9-hour daytime period of 10.00 pm to 7.00 am |

| Abbreviation | Definition |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LA _{eq(15 hour)} | The daytime 'equivalent continuous noise level'—it represents the cumulative effects of all the proposal noise events occurring in the daytime period from 7.00 am to 10.00 pm |
| LA _{eq(24 hour)} | The 'equivalent continuous noise level', sometimes also described as the 'energy-averaged noise level'—it represents the cumulative effects of all the proposed noise events occurring in one day |
| LA _{eq(time)} | The equivalent continuous sound level for a defined time period |
| LA _{max} | The maximum sound level during the measurement or assessment period. The L_{AFmax} or 'Fast' is averaged over 0.125 of a second and the L_{ASmax} or 'Slow' is averaged over 1 second. |
| L _{eq} /LA _{eq} (dB or dB(A)) | Equivalent continuous sound level representing the constant sound pressure level that exhibits the equivalent acoustic energy of a fluctuating noise level. Otherwise known as the 'verage' sound level. |
| L _{max} | The maximum sound pressure level measured over the measurement period |
| L _{min} | The minimum sound pressure level measured over the measurement period |
| m | metres |
| m/s | metres per second |
| m ² | square metres |
| m ³ | cubic metres |
| mAHD | metres above AHD (Australian Height Datum) |
| Mbgs | metres below ground surface |
| Meq | milliequivalents |
| meq/100g | milliequivalents per 100 grams |
| mg/L | milligrams per litre |
| MJ | megajoule |
| ML | megalitre |
| Mm | millimetre |
| mm/s | millimetre per second |
| mN/m | millinewtons per metre |
| mm/yr | millimetre per year |
| Mtpa | million tonnes per annum |
| рН | The absolute value of the decimal logarithm of the hydrogen-ion concentration (activity), used as an indicator of acidity (pH less than 7) or alkalinity (pH greater than 7) or neutrality (pH 7) |
| Ppm | parts per million |
| Ppt | parts per thousand |
| Т | tonne |
| Тра | tonnes per annum |
| V _{ppv} | vector peak particle velocity, which is the peak particle velocity calculated from the sum of the vibration in three directions; longitudinal, transverse and diagonal |

25.2 Abbreviations

| Abbreviation | Definition |
|------------------|---------------------------------------------------------------------------------------|
| AADT | annual average daily traffic |
| AAToS | average annual time of submergence |
| ABS | Australian Bureau of Statistics |
| ACH Act | Aboriginal Cultural Heritage Act 2003 (Qld) |
| ADT | average daily traffic |
| ADWG | Australian Drinking Water Guidelines |
| AEP | annual exceedance probability |
| AGRD | Austroads Guide to Road Design |
| AHD | Australian Height Datum |
| AIAM | Adverse Impact Assessment Methodology |
| Air Quality NEPM | National Environment Protection (Ambient Air Quality) Measure |
| AL Act | Acquisition of Land Act 1967 (QId) |
| ALCAM | Australian Level Crossing Assessment Model |
| AMP | Accommodation Management Plan |
| ANZECC | Australian and New Zealand Environment and Conservation Council |
| Aol | area of influence |
| AOI | areas of interest |
| AQIA | air quality impact assessment |
| AQMS | air quality monitoring station |
| ARD | acid rock drainage |
| ARMCANZ | Agriculture and Resource Management Council of Australia and New Zealand |
| ARR | Australian Rainfall and Runoff |
| ARTC | Australian Rail Track Corporation Limited |
| AS | Australian Standards |
| ASC NEPM | National Environment Protection (Assessment of Site Contamination) Measure 1999 (Cth) |
| ASRIS | Australian Soil Resource Information System |
| ASS | acid sulfate soils |
| ATP | authority to prospect |
| ATSIHP Act | Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth) |
| AUSRIVAS | Australian River Assessment System |
| B2G | Border to Gowrie |
| BAMM | Biodiversity Assessment and Mapping Methodology |
| BCC | Brisbane City Council |
| BD | biodiversity |
| Biosecurity Act | Biosecurity Act 2014 (Qld) |
| Bod | biological oxygen demand |
| BoM | Bureau of Meteorology |
| BPA | Biodiversity Planning Assessment |
| BS | British Standards |

| Abbreviation | Definition |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Building Act | Building Act 1975 (Qld) |
| CAPEX | capital expenditure |
| C&D | construction and demolition |
| C&I | commercial and industrial |
| C2K | Calvert to Kagaru |
| CC | climate change |
| CCC | Community Consultative Committee |
| CE | critically endangered |
| CEMP | Construction Environmental Management Plan |
| Ch | chainage |
| CH ₄ | methane |
| CHIMS | Cultural Heritage Information Management System |
| CHMP | Cultural Heritage Management Plan |
| CIA | cumulative impact assessment |
| CLR | Contaminated Land Register |
| СО | carbon monoxide |
| CO ₂ | carbon dioxide |
| СоА | Commonwealth of Australia |
| COAG | Council of Australian Governments |
| CoP Vol 1 | <i>Transport Noise Management: Code of Practice Volume 1—Road Traffic Noise</i> (Department of Transport and Main Roads, 2013a) |
| CoP Vol 2 | <i>Transport Noise Management: Code of Practice Volume 2—Construction Noise and Vibration.</i> (Department of Transport and Main Roads, 2015a) |
| CPESC | Certified Professional in Erosion and Sediment Control |
| CPTED | Crime Prevention Through Environmental Design |
| CRG | Community Reference Group |
| CSIRO | Commonwealth Scientific and Industrial Research Organisation |
| Cth | Commonwealth |
| DAF | Department of Agriculture and Fisheries (QId) |
| DAFF | Department of Agriculture, Fisheries and Forestry (Qld) (former) |
| DATSIP | Department of Aboriginal and Torres Strait Islander Partnerships (Qld) (former) |
| DAWE | Department of Agriculture, Water and the Environment (Cth) |
| DCDSS | Department of Communities, Disability Services and Seniors (Old) (former) |
| DCHDE | Department of Communities, Housing and Digital Economy (Qld) |
| DCSYW | Department of Child Safety, Youth and Women (Qld) (former) |
| DCYJMA | Department of Children, Youth Justice and Multicultural Affairs (Qld) |
| DDD | Dichlorodiphenyldichloroethane |
| DDE | Dichlorodiphenyldichloroethylene |
| DDT | Dichlorodiphenyltrichloroethane |
| DEHP | Department of Environment and Heritage Protection (Qld) (former) |
| DEPW | Department of Energy and Public Works (Qld) |
| DERM | Department of Environment and Resource management (QId) (former) |

| Abbreviation | Definition |
|-------------------|------------------------------------------------------------------------------------------------------------|
| DES | Department of Environment and Science (Qld) |
| DESE | Department of Education, Skills and Employment (Qld) (former) |
| DESBT | Department of Employment, Small Business and Training (Qld) |
| DET | Department of Education and Training (QId) (former) |
| DEWSPaC | Department of Sustainability, Environment, Water, Population and Communities (Qld) (former) |
| DHPW | Department of Housing and Public Works (Qld) (former) |
| DILGP | Department of Infrastructure, Local Government and Planning (QId) (former) |
| DIN | Deutches Institut für Normung (German Institute for Standardisation) |
| DITCRD | Department of Infrastructure, Transport, Cities, Regional Development and Communications (Cth) (former) |
| DITRDC | Department of Infrastructure, Transport, Regional Development and Communications (Cth) |
| DLGRMA | Department of Local Government, Racing and Multicultural Affairs (Qld) (former) |
| DNRME | Department of Natural Resources, Mines and Energy (Qld) (former) |
| DRDM | Department of Regional Development and Manufacturing (Qld) (former) |
| DRDMW | Department of Regional Development, Manufacturing and Water (Qld) |
| DSDSATSIP | Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships (QId) |
| DO | dissolved oxygen |
| DoH | Department of Health (Cth) |
| DOTARS | Department of Transport and Regional Services (Cth) |
| DotE | Department of the Environment (Cth) (former) |
| DotEE | Department of the Environment and Energy (Cth) (former) |
| draft Outline EMP | draft Outline Environmental Management Plan |
| DSDILGP | Department of State Development, Infrastructure, Local Government and Planning (Qld) |
| DSDMIP | Department of State Development, Manufacturing, Infrastructure and Planning (Qld) (former) |
| DSDTI | Department of State Development, Tourism and Innovation (QId) (former) |
| DSITI | Department of Science, Information Technology and Innovation (QId) (former) |
| DSITIA | Department of Science, Information Technology, Innovation and Arts (QId) |
| DTIS | Department of Tourism, Innovation and Sport (Qld) |
| DTMR | Department of Transport and Main Roads (QId) |
| DTRS | Department of Transport and Regional Services (Cth) |
| E | endangered |
| EA | environmental authority |
| EC | electrical conductivity |
| EIS | Environmental Impact Statement |
| Electricity Act | Electricity Act 1994 (Qld) |
| EMP | Environmental Management Plan |
| EMR | Environment Management Register |
| EMS | Environmental Management System |
| ENSO | El Niño-Southern Oscillation |

| Abbreviation | Definition |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|
| EO Act | Environmental Offsets Act 2014 (Qld) |
| EO Regulation | Environmental Offsets Regulation 2014 (Qld) |
| EP Act | Environmental Protection Act 1994 (Qld) |
| EP Regulation | <i>Environmental Protection Regulation 2008/2019</i> (QId) (chapters distinguish which regulation is referred) |
| EPBC Act | Environment Protection and Biodiversity Conservation Act 1999 (Cth) |
| EPP (Air) | <i>Environmental Protection (Air) Policy 2008/2019</i> (QId) (chapters distinguish which policy is referred) |
| EPP (Noise) | <i>Environmental Protection (Noise) Policy 2008/2019</i> (Qld) (chapters distinguish which policy is referred) |
| EPP (Water and Wetland Biodiversity) | Environmental Protection (Water and Wetland Biodiversity) Policy 2019 (Qld) |
| EPP (Water) | Environmental Protection (Water) Policy 2008 (Qld) |
| ERA | environmentally relevant activity |
| ESA | environmentally sensitive area |
| ESD | Ecologically Sustainable Development |
| EVNT | endangered, vulnerable and near-threatened |
| EVs | environmental values |
| EX | extinct |
| Explosives Act | Explosives Act 1999 (QId) |
| FBW | Flash Butt Welding |
| FFJV | Future Freight Joint Venture |
| Fisheries Act | Fisheries Act 1994 (Qld) |
| Forestry Act | Forestry Act 1959 (Qld) |
| FRL | Fire Resistance Level |
| FRP | filterable reactive phosphorus |
| FTE | full-time equivalent workers |
| G2H | Gowrie to Helidon |
| G2K | Gowrie to Kagaru |
| GDE | groundwater dependant ecosystem |
| GDP | gross domestic product |
| GHG | greenhouse gas |
| GIS | Geographical Information Systems |
| GLVIA | Guidelines for Landscape and Visual Impact Assessment |
| GMMP | Groundwater Management and Monitoring Program |
| GRP | gross regional product |
| GTIA | Guidelines to Traffic Impact Assessment |
| GWIZ | Gatton West Industrial Zone |
| H2C | Helidon to Calvert |
| HDPE | High-density polyethylene |
| HES | high ecological significance |
| HEV | high ecological value |

| Abbreviation | Definition |
|--------------|-------------------------------------------------------------|
| HV | heavy vehicle |
| HVR | High-value regrowth |
| IAA | important agricultural area |
| IAQM | Institute of Air Quality Management |
| IAR | Impact Assessment Report |
| IAS | Initial Advice Statement |
| ICC | Ipswich City Council |
| ICOMOS | International Council on Monuments and Sites |
| IECA | International Erosion Control Association |
| IEO | Index of Education and Occupation |
| ILSAX | Hydrologic model (within the 12D Drainage Network Editor) |
| ILUA | Indigenous Land Use Agreement |
| Inland Rail | Melbourne to Brisbane Inland Rail |
| IRAS | Inland Rail Alignment Study |
| IRIG | Inland Rail Implementation Group |
| IRSAD | Index of Relative Socio-Economic Advantage and Disadvantage |
| IS | infrastructure sustainability |
| ISCA | Infrastructure Sustainability Council of Australia |
| ISO | International Organization for Standardization |
| K2ARB | Kagaru to Acacia Ridge and Bromelton Project |
| KRA | Key Resource Area |
| Land Act | Land Act 1994 (Qld) |
| LC | least concern |
| LCA | Landscape Character Area |
| LCT | landscape character types |
| LDMG | Local Disaster Management Groups |
| LEP | Longitudinal Egress Passage |
| LGA | Local Government Area |
| LGIP | Local Government Infrastructure Plan |
| LGR | local government roads |
| LHR | Local Heritage Register |
| LOR | limit of reporting |
| LOS | level of service |
| LVIA | landscape and visual impact assessment |
| LVRC | Lockyer Valley Regional Council |
| Μ | migratory |
| MCA | Multi-Criteria Analysis |
| MCU | material change of use |
| MDL | mineral development lease |
| MEI | Multivariate ENSO Index |
| MLES | matter of local environmental significance |

| Abbreviation | Definition |
|-----------------|------------------------------------------------------------------------------------|
| MNES | matters of national environmental significance |
| MSES | matter of state environmental significance |
| MUTCD | Manual of Uniform Traffic Control Devices |
| NAA | National Archives of Australia |
| NATA | National Association of Testing Authorities |
| NC | no concern at present |
| NC Act | Nature Conservation Act 1992 (Qld) |
| NCA | Noise Catchment Area |
| NEPM | National Environment Protection Measure |
| NGER Act | National Greenhouse and Energy Reporting Act 2007 (Cth) |
| NGO | (local or regional) Non-Governmental Organisations |
| NHMRC | National Health and Medical Research Council |
| NHVR | National Heavy Vehicle Regulator |
| NNTT | National Native Title Tribunal |
| NO | nitric oxide |
| NO ₂ | nitrogen dioxide |
| NO _x | oxides of nitrogen |
| NPI | National Pollutant Inventory |
| NPV | net present value |
| NRLCSS | National Railway Level Crossing Safety Strategy |
| NRM | natural resource management |
| NRMMC | Natural Resource Management Ministerial Council |
| NSW | New South Wales |
| NT | near threatened |
| NT Act | Native Title Act 1993 (Cth) (NT Act) together with the Native Title Act 1993 (Qld) |
| NTU | nephelometric turbidity units |
| O ₃ | ozone |
| 00 | of concern |
| OCG | Office of the Coordinator-General |
| OEMP | Operational Environmental Management Plan |
| OLM | ozone limiting method |
| ONI | Oceanic Niño Index |
| ONRSR | Office of the National Rail Safety Regulator |
| OSOM | oversize and/or overmass |
| P&C | Parents and Citizens' Associations |
| РАН | polycyclic aromatic hydrocarbons |
| PCA | potential commercial area |
| PCNP | Principal Cycle Network Plans |
| PDA | Priority Development Area |
| PEA | potential expressions area |
| PHN | Primary Health Network |

| Abbreviation | Definition |
|------------------------------|---------------------------------------------------------------|
| Planning Act | Planning Act 2016 (Qld) |
| Plumbing and Drainage Act | Plumbing and Drainage Act 2018 (Qld) |
| PM ₁₀ | particulate matter less than 10 microns |
| PM _{2.5} | particulate matter less than 2.5 microns |
| PMF | probable maximum flood |
| PPE | personal protective equipment |
| PPL | petroleum pipeline licence |
| PPV | peak particle velocity |
| Public Health Act | Public Health Act 2005 (Qld) |
| PWMP | Pest and Weed Management Plan |
| QA/QC | quality assurance/quality control |
| QAS | Queensland Ambulance Service |
| QEOP | Queensland Environmental Offsets Policy (QId) |
| QFES | Queensland Fire and Emergency Service |
| QGSO | Queensland Government Statistician Office |
| QH Act | Queensland Heritage Act 1992 (Qld) |
| QLCSS | Queensland Level Crossing Safety Strategy |
| QLD | Queensland |
| QLUMP | Queensland Land Use Mapping Program |
| QPS | Queensland Police Service |
| QR | Queensland Rail |
| QRA | Queensland Reconstruction Authority |
| QRFS | Queensland Rural Fire Service |
| QSA | Queensland State Archives |
| QTRIP | Queensland Transport and Roads Investment Program |
| QWQG | Queensland Water Quality Guidelines |
| RAAF | Royal Australian Air Force |
| RAV | restricted access vehicles |
| RBL | rating background level |
| RCBC | reinforced concrete box culverts |
| RCP | reinforced concrete pipe |
| RE | regional ecosystem |
| RIDA | regional interests development approval |
| RL | reduced level |
| RLM | road landscape manual |
| RMAR | rail maintenance access road |
| RMS | Roads and Maritime Services (NSW) (part of Transport for NSW) |
| RNE | Register of National Estate |
| RPI Act | Regional Planning Interests Act 2014 (Qld) |
| RSIS | Regional Skills and Investment Strategy |
| | |

| RSNLRail Safety National LawRTARoads and Traffic Authority (NSW) (now RMS (part of Transport for NSW))SA1Statistical Area Level 1SA2Statistical Area Level 1SALMSmall Area Labour MarketsSARstandard axls repetitionSARState Assessment and Referal AgencySCRState Assessment and Referal AgencySCRState Assessment and Referal AgencySCRState Controlled RoadSDAState Development AreaSDAState Development Assessment ProvisionsSDEWO ActState Development Assessment ProvisionsSECSecurities and Exchange CommissionSECSecurities and Exchange CommissionSECSouth East QueenslandSEGSouth East Queensland Regional Plan (ShapingSEQ)SERSouth East Queensland Regional PlanSHASocial impact assessment guideline (Queensland Coordinator-General, March 2018)SHAState Iterregency ServicoSRRSocial impact assessment guideline (Queensland Coordinator-General, March 2018)SHAState Iterregency ServicoSIAState Iterregency ServicoSIASt | Abbreviation | Definition |
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| SA1 Statistical Area Level 1 SA2 Statistical Area Level 2 SALM Small Area Labour Markets SAR State Assessment and Referral Agency SCA Strategic Croping Area SCR State Assessment and Referral Agency SCA Strategic Croping Area SDA State Development Area SDA State Development Assessment Provisions SDPWO Act State Development Assessment Provisions SELC Securities and Exchange Commission SELFA socio-economic Index for an area SFD South East Ducensland SELRP South East Ducensland Regional Plan (StapingSEQ) SELS State Intergency Service SFRC South East Ducensland Regional Plan ShapingSEQ South East Ducensland Regional Plan SIRA State Intergency Service SFRC South East Ducensland Regional Plan SIRA State Intergency Service SFRC South East Ducensland Regional Plan SIRA State Intergency Service SFRC South East Ducensland Regional Plan SIRA State Intergency Service SFRC South East Ducensland Coordinator-Ceneral, March 2018) SIMP Social Impact Management [Queensland Coordinator-Ceneral, M | RSNL | Rail Safety National Law |
| SA2 Statistical Area Level 2 SALM Small Area Labour Markets SAR standard xule repetition SARA State Assessment and Referral Agency SCA Strategic Cropping Area SCR State-Controlled Road SDA State Development Area SDA State Development Area SDA State Development Area SDA State Development Area SDPWO Act State Development and Public Works Organisation Act 1971 (Old) STC Socurities and Exchange Commission SEITA socio-economic index for an area SEQ South East Oueenstand SEC South East Oueenstand Regional Plan (ShapingSEO) SFRC South East Oueenstand Regional Plan (ShapingSEO) SFRC South East Oueenstand Regional Plan SHR State Heritage Register SIA Social Impact assessment SIA Social Impact assessment Quéletine (Oueenstand Coordinator-General, March 2018) SIMP Social Impact assessment Management SIA Significant Residual Impact SIA Significant Residual Impact | RTA | Roads and Traffic Authority (NSW) (now RMS (part of Transport for NSW)) |
| SALMSmall Area Labour MarketsSARstandard axle repetitionSARAState Assessment and Referral AgencySCAStrategic Cropping AreaSCRState-Controlled RoadSDAState Development AreaSDAPState Development AreaSDAPState Development AreaSDAPState Development AreaSDAPState Development AreaSDAPState Development AreaSDAPState Development and Public Works Organisation Act 1971 (Old)SFESocio-economic Index for an areaSEOSouth East OucenslandSEORPSouth East OucenslandSEORPSouth East Oucensland Regional Plan (ShapingSEO)SESState Emergency ServiceSFRCSouth Fast Oucensland Regional PlanSHRState Heritage RegisterSIASocial Impact assessment Quideline (Oucensland Coordinator-General, March 2018)SIMPSocial Impact Assessment ManagementSIAState I barary of OucenslandSIASignificant Residual ImpactSIASignificant Residual ImpactSIASignificant Residual ImpactSIASignificant Residual ImpactSIASouth East OucenslandSignificant Residual ImpactSIASoutherror of OucenslandSignificant Residual ImpactSIASoutherror of OucenslandSiaSoutherror of OucenslandSignificant Residual ImpactSinstrategin numberSo_sulphur dioxideSoiSoutherro | SA1 | Statistical Area Level 1 |
| SARstandard axle repetitionSARAState Assessment and Referral AgencySCAStrategic Cropping AreaSCRState-Controlled RoadSDAState Development AreaSDAState Development AreaSDAState Development AreaSDAVState Development Assessment ProvisionsSECSecurities and Exchange CommissionSECSecurities and Exchange CommissionSEIFAsocio-economic index for an areaSEQSouth East OueenslandSEQRPSouth East OueenslandSEQRPSouth East Oueensland Regional Plan (ShapingSEO)SERCSouth East Oueensland Regional Plan (ShapingSEO)SFRCSouth East Oueensland Regional PlanShapingSEQSouth East Oueensland Regional PlanSHRState Heritage RegisterSIASocial Impact assessmentSIASocial Impact assessmentSIAState Land Assessment PlanSIAState Land Assessment MaragementSIAState Land Assessment AssesSIAState Land Asse | SA2 | Statistical Area Level 2 |
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| SDAState Development AreaSDAPState Development Assessment ProvisionsSDPWO ActState Development and Public Works Organisation Act 1971 (Old)SECSecurities and Exchange CommissionSEIFAsocio-economic Index for an areaSEQSouth East QueenslandSEQRPSouth East Queensland Regional Plan (ShapingSEQ)SESState Emergency ServiceSFRCSouther Treight Rail CorridorShapingSEQSouth East Queensland Regional PlanSHRState Heritage RegisterSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact Residual ImpactSIAState Land Assessment PlanSLASignificant Residual ImpactSIASignificant Residual ImpactSIASignificant Residual ImpactSISouther Oscillation IndexSolsutphur dioxideSOSutphur dioxideSOISouthern Oscillation IndexSoli Conservation ActSoil Conservation Act 1996 (Old)SPPState Planning PolicySPLSocial angement Act 2002 (Old)SRM ActStock Route Management Act 2002 (Old)SRM ActStock Route Management Act 2002 (Old)SPPState Planning PolicySPLSocial and Sustainable Resources Communities Act 2017 (Old)SIEMSocial and Sustainable Resources Communities Act 2017 (Old) <tr< td=""><td>SCA</td><td>Strategic Cropping Area</td></tr<> | SCA | Strategic Cropping Area |
| SDAPState Development Assessment ProvisionsSDPWO ActState Development and Public Works Organisation Act 1971 (Old)SECSecurities and Exchange CommissionSEIFAsocio-economic Index for an areaSFOSouth East QueenslandSEORPSouth East Queensland Regional Plan (ShapingSEQ)SESState Emergency ServiceSFRCSouther Freight Rail CorridorShapingSEQSouth East Queensland Regional PlanSHRState Heritage RegisterSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact assessmentSIASocial Impact assessmentSIAState Land Assessment PlanSLMState Land Assessment ManagementSLQspecial least concernSLQSouther Residual ImpactSNState Jierary of QueenslandSOSouther Nocellation IndexSOISouther Nocellation IndexSOISouther Nocellation IndexSOISouther Nocellation IndexSOISouthern Oscillation Ind | SCR | State-Controlled Road |
| SDPW0 ActState Development and Public Works Organisation Act 1971 (Old)SECSecurities and Exchange CommissionSEIFAsocio-economic index for an areaSEQSouth East OueenslandSEQRPSouth East Oueensland Regional Plan (ShapingSEO)SESState Emergency ServiceSFRCSouth East Oueensland Regional PlanShapingSEOSouth East Oueensland Regional PlanSHRState Heritage RegisterSIASocial impact assessmentSIASocial impact assessmentSIASocial impact assessmentSIASocial impact assessmentSIASocial impact assessmentSIASocial Impact Management PlanSLAMState Library of OueenslandSIASignificant Residual ImpactSNstrategy numberSOSouthern Oscillation IndexSOISouthern Oscillation IndexSOISouth pressure levelSRMActStock Route Management Act 2002 (Old)SRMActStock Route Management Act 2002 (Old)SSRSocial and Sustainable Resources Communities Act 2017 (Old)STEMScience, Technology, Engineering and MathsSWLSound power levelTAFETechnical and Further Educationtaltonne axle load< | SDA | State Development Area |
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| SEIFAsocio-economic index for an areaSEQSouth East QueenslandSEQSouth East Queensland Regional Plan (ShapingSEQ)SESState Emergency ServiceSFRCSouthern Freight Rail CorridorShapingSEQSouth East Queensland Regional PlanSHRState Heritage RegisterSIASocial Impact assessmentSIA GuidelineSocial Impact assessment guideline (Queensland Coordinator-General, March 2018)SIAPSocial Impact Management PlanSLAMState Land Assessment ManagementSLASocial Impact Management PlanSLAState Library of QueenslandSLAState Library of QueenslandSQState Library of QueenslandSOSulphur dioxideSOSouthern Oscillation IndexSOISouth Pressure IvelSRSout pressure levelSRM ActStock Route Management Act 2002 (QId)SPPState Planning PolicySPLSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Englineering and MathsSWLSound pressure levelTAFETechnical and Further Educationtaltonne axle load | SDPWO Act | State Development and Public Works Organisation Act 1971 (Qld) |
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| SEORPSouth East Queensland Regional Plan (ShapingSEQ)SESState Emergency ServiceSFRCSouthern Freight Rall CorridorShapingSEQSouth East Queensland Regional PlanSHRState Heritage RegisterSIASocial impact assessmentSIA GuidelineSocial impact assessment guideline (Queensland Coordinator-General, March 2018)SIMPSocial Impact assessment guideline (Queensland Coordinator-General, March 2018)SIMPSocial Impact assessment guideline (Queensland Coordinator-General, March 2018)SIMPSocial Impact assessment ManagementSLAMState Land Assessment ManagementSLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSQ2sulphur dioxideSOISouthern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (Old)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (Old)SSRNsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Old)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SEIFA | socio-economic index for an area |
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| SIASocial impact assessmentSIA GuidelineSocial impact assessment guideline (Queensland Coordinator-General, March 2018)SIMPSocial Impact Management PlanSLAMState Land Assessment ManagementSLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSO2sulphur dioxideSoil Conservation ActSoil Conservation Act 1986 (Old)SPPState Planning PolicySPLSound pressure levelSRN ActStock Route Management Act 2002 (Qld)SSRAsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMSound power levelSTEMSound power levelSRLSound power levelSRLSound power levelSRLSound power levelSRLSound power levelSTEMSound power levelSRLSound power levelSRLSound power levelSRLSound power levelSRLSound power levelSRLSound power levelTAFETechnical and Further Educationtaltonne axle load | ShapingSEQ | South East Queensland Regional Plan |
| SIA GuidelineSocial impact assessment guideline (Queensland Coordinator-General, March 2018)SIMPSocial Impact Management PlanSLAMState Land Assessment ManagementSLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSO2sulphur dioxideSoil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (QId)SSRAsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMSound power levelTAFETechnical and Further EducationTAFETechnical and Further Educationtaltonne axle load | SHR | State Heritage Register |
| SIMPSocial Impact Management PlanSLAMState Land Assessment ManagementSLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSO2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRNsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SIA | Social impact assessment |
| SLAMState Land Assessment ManagementSLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSQ2sulphur dioxideSO1Southern Oscillation IndexSoli Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRN ActStock Route Management Act 2002 (QId)SSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SIA Guideline | Social impact assessment guideline (Queensland Coordinator-General, March 2018) |
| SLCspecial least concernSLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSQ2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (Qld)SPPState Planning PolicySPLSound pressure levelSRN ActStock Route Management Act 2002 (Qld)SSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SIMP | Social Impact Management Plan |
| SLQState Library of QueenslandSRISignificant Residual ImpactSNstrategy numberSO2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (Qld)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (Qld)SSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SLAM | State Land Assessment Management |
| SRISignificant Residual ImpactSNstrategy numberSO2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (QId)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SLC | special least concern |
| SNstrategy numberSO2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (QId)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SLQ | State Library of Queensland |
| SO2sulphur dioxideSO1Southern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (Qld)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (Qld)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SRI | Significant Residual Impact |
| SOISouthern Oscillation IndexSoil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (QId)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SN | strategy number |
| Soil Conservation ActSoil Conservation Act 1986 (QId)SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (QId)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (QId)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SO ₂ | sulphur dioxide |
| SPPState Planning PolicySPLSound pressure levelSRM ActStock Route Management Act 2002 (Qld)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SOI | Southern Oscillation Index |
| SPLSound pressure levelSRM ActStock Route Management Act 2002 (Qld)SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | Soil Conservation Act | Soil Conservation Act 1986 (Qld) |
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| SSANsecurity sensitive ammonium nitrateSSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SPL | Sound pressure level |
| SSRC ActSocial and Sustainable Resources Communities Act 2017 (Qld)STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SRM Act | Stock Route Management Act 2002 (Qld) |
| STEMScience, Technology, Engineering and MathsSWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SSAN | security sensitive ammonium nitrate |
| SWLsound power levelTAFETechnical and Further Educationtaltonne axle load | SSRC Act | Social and Sustainable Resources Communities Act 2017 (Qld) |
| TAFETechnical and Further Educationtaltonne axle load | STEM | Science, Technology, Engineering and Maths |
| tal tonne axle load | SWL | sound power level |
| | TAFE | Technical and Further Education |
| TAPM The Air Pollution Model | tal | tonne axle load |
| | ТАРМ | The Air Pollution Model |

| TCCtunel control centreTCPTraffic Currior PlanTDMTravel Demand ManagementTDStotal discolved solidsTECthreatened ecological communityTNSWTransport for New South WalesTNSWTransport for New South WalesTHCtotal hydrocarborsThe AuditQueenstand Agricultural Land Audit 2013The ProjectThe Helidon to Colvert (HCC) Indand Rail ProjectTARTransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TMTraffic Management PlanTRRTotal Kjeldahi NitrogenTMPTraffic Management PlanTRRInter of SubmergenceTSSInter of submergenceTSSInter of submergenceTSSInter SubmergenceTSSUnited States Favironmental Protection AgencyUNUnited States Favironmental Protection AgencyUSAUnited States Land | Abbreviation | Definition |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------|
| TDMTravel Demand ManagementLDStotal dissolved solidsTTCthreattened ecological communityTTNSWTransport for New South WalesTHCtotal hydrocarbonsthe AuditObeensland Agricultural Land Audit 2013the ProjectThe Helidon to Calvert (H2C) Inland Rall ProjectTACTransport Infrastructure Act 1994 (Old)TIALTransport Infrastructure Act 1994 (Old)TARTransport Infrastructure Act 1994 (Old)TARTotal Kjeldahi NitrogenTMPTotalf Kjeldahi NitrogenTRCIcoweomba Regional CouncilTSEItal suspended particulatesTSEtotal suspended particulatesTSEUtal suspended solidsTWIThe Welding InstituteUKUnited KingdomUGThe Uniterstity of QueenslandUSUnallocated State LandUXOwalpoted ordanace <tr< td=""><td>TCC</td><td>tunnel control centre</td></tr<> | TCC | tunnel control centre |
| TDStotal dissolved solidsILCInrealened ecological communityTTNSWTransport for New South WalesIIICtotal hydrocarbonsIIRCtotal hydrocarbonsthe AuditGueensland Agricultural Land Audit 2013the ProjectThe Helidon to calvert (H2C) Inland Rail ProjectTIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TRATotal Kjeldahi NitrogenIRCTotal Kjeldahi NitrogenIRCTarasport Planning and Coardmaiton Act 1994 (Old)TRCTowoomba Regional ConcilTSCTowoomba Regional ConcilTSPtotal suspended particulatesTSRCTowoomba Regional ConcilTSRtotal suspended solidsTWIThe University of QueenslandUQThe University of QueenslandUSLUnited KingtomUQUnited KingtomUQUnited KingtomUSLUnaliocated state LandUXAVibration dose valueVMAVibration dose value< | ТСР | Traffic Control Plan |
| TECthreatened ecological communityTINSWTransport for New South WalesTHCtotal hydrocarbonsthe Audit <i>Ouconsland Agricultural Land Audit 2013</i> the ProjectThe Helidon to Calvert (H2C) Inland Rall ProjectTI ActTransport Impact AssessmentTIATransport Impact AssessmentIKNIotal Kjeldahi NitrogenTMPTraffic Management PlanToStime of submergenceTPC ActTransport Impact ConcilTSPtotal supended particulatesTSRToowoomba Regional CouncilTSPtotal suspended particulatesTSStotal suspended solidsTWIThe United KingdomUQThe United KingdomUQThe United State EnrirUSunexploted State LandUXOunexploted State LandUXOvulnerableVvulnerableVMVisbilify Analysis MappingVDVvibration davagement Act 1999 (Old)VocvulnerableVMVisbilify Analysis MappingVDVvibration dese valueVMAVisbilify Analysis MappingVDVvibration dese valueWHACIWater Act 2000 (Old)WEBSwider economic benefitsWHACIWorkplace Health and Safety Act 2011 (Old)WHASWorkplace Health and Safety Act 2011 (Old)WHASWork Health and Safety Act 2011 (Old)WHRRSWaste Management and Resource Recovery Strategy | TDM | Travel Demand Management |
| TINSWTransport for New South WalesIHCtotal hydrocarbonsIHCtotal hydrocarbonsthe AuditQueensland Agricultural Land Audit 2013the ProjectThe Helidon to Caiver (H2C) Inland Rail ProjectITACITransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TIATransport Infrastructure Act 1994 (Old)TRTotal Kjeldahi NitrogenTORTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRToowoomba Regional CouncilTSPtotal suspended particulatesTSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUQThe University of QueenslandUXvulnerableVvulnerableVAMVisibility Analysis MappingVOVvibration dose valueWhatVegetation Management Act 1999 (Old)WEBSwider economic benefitsWHASWorkplace Health and SafetyWHOWorkplace Health and Safety Act 2011 (Old)WHASWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TDS | total dissolved solids |
| IHCtotal hydrocarbonsthe AuditOueensland Agricultural Land Audit 2013the ProjectThe Helldon to Calvert (H2C) Inland Rall ProjectII ActTransport Infrastructure Act 1994 (Olo)TIATransport Impact AssessmentIKNIobil Kjeldahl NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coardination Act 1994 (Old)TSPtotal suspended particulatesISRCIoowoomba Regional CouncilTSPtotal suspended particulatesTSStotal suspended solidsTWIThe Welding InstituteUGThe Welding InstituteUGThe Welding InstituteUSUnited KingdomUQThe University of OueenslandUSCvulnerableVAMVisibility Analysis MappingVMActVegetation Management Act 1999 (Old)VOCsvolalite organic compoundsWater ActWork Indear Management Act 2001 (Old)WEBSwider economic benefitsWHACWork Health and Safety Act 2011 (Old)WHACAWork Health and Safety Act 2011 (Old)WHARSWast Moreton Hospital and Health ServiceWMARSWast Management Act 2001 (Particul Health Service | TEC | threatened ecological community |
| the AuditOucersland Agricultural L and Audit 2013the ProjectThe Helidon to Calvert (H2C) Inland Rail Project11 Acttransport Infrastructure Act 1994 (QId)TIATransport Impact AssessmentTKNTotal Kjeldahi NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Infrastructure Act 1994 (QId)TRCToowoomba Regional CouncilTStotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred t | TfNSW | Transport for New South Wales |
| the ProjectThe Helidon to Calvert (H2C) Inland Rail ProjectTI ActTransport Impact AssessmentTIATransport Impact AssessmentTKNTotal Kjeldahi NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Spass)TSStotal suspended solidsTWThe University of QueenslandUQThe University of QueenslandUSUnited KingdomUQunexploded ordinanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVMActVegetation Management Act 1999 (Old)VBSwoldt Heath Anasgetty (Cld)WHASWorkplace Health and SafetyWHASWorkplace Health and SafetyWHASWorkplace Health and SafetyWHASWorkplace Health and Safety Act 2011 (Old)WHHAAWest Moreton Hospital and Health ServiceWMRSWaste Management and Resource Recovery Strategy | THC | total hydrocarbons |
| Ti ActTransport Infrastructure Act 1994 (QId)TIATransport Impact AssessmentTKNTotal Kjeldahl NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Qid)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the State Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the United State Second Range Crossing (Project name, now operational Crossing Crossing Crossing Crossing Crossing Crossing Crossing Crossing Cros | the Audit | Queensland Agricultural Land Audit 2013 |
| TIATransport Impact AssessmentTKNTotal Kjeldahl NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Second Range Crossing (Project name, now operational and referred to as the United State LandUX0United State Second Rompo type (Out)VDVvu | the Project | The Helidon to Calvert (H2C) Inland Rail Project |
| TKNTotal Kjeldahi NitrogenTMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUSUnited States Environmental Protection AgencyUSUnallocated State LandUXOunexploded ordnanceVvulnerableVAActVegetation danagement Act 1999 (Old)VOVvibality Analysis MappingVOVvolatile organic compoundsWater ActWorkplace Health and SafetyWHOWorkplace Health and SafetyWHOWork Health and Safety Act 2011 (Old)WIRRSWaste Management and Resource Recovery Strategy | TI Act | Transport Infrastructure Act 1994 (QId) |
| TMPTraffic Management PlanToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUSEUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVMActVegelation Management Act 1999 (Old)VOVvibration dose valueVMActVegelation Management Act 1999 (Old)VMActWater Act 2000 (Old)WEBswider economic benefitsWHOWorkplace Health and SafetyWHOWork Health and Safety Act 2011 (Old)WIRRSWaste Management and Resource Recovery Strategy | TIA | Transport Impact Assessment |
| ToRTerms of ReferenceToStime of submergenceTPC ActTransport Planning and Coardination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUSEPAUnited States Environmental Protection AgencyUXunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVMActVegetation Management Act 1999 (Old)VMEBswider economic benefitsWH8SWorkplace Health and SafetyWH0World Health OrganizationWH5 ActWark Health and Safety Act 2011 (Old)WIRRSWaste Management and Resource Recovery Strategy | TKN | Total Kjeldahl Nitrogen |
| ToStime of submergenceTPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibratin dose valueVMActVegetation Management Act 1999 (Old)VOCsvolatile organic compoundsWater ActWater act 2000 (Old)WHASWorkplace Health and SafetyWHAWicklace Health and Safety Act 2011 (Old)WIMweight in motionWMRRSWaste Management and Resource Recovery Strategy | TMP | Traffic Management Plan |
| TPC ActTransport Planning and Coordination Act 1994 (Old)TRCToowoomba Regional CouncilTSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVAActVegetation Management Act 1999 (Qld)VOCsvolatile organic compoundsWHeSWorkplace Health and SafetyWHOWorkplace Health and Safety Act 2011 (Qid)WIMweight In motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | ToR | Terms of Reference |
| TRCTowoomba Regional CouncilTSPtotal suspended particulatesTSRCTowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVMActVegetation Management Act 1999 (QId)VOCsvolatile organic compoundsWater ActWater Act 2000 (QId)WH&SWorkplace Health and SafetyWHOWorkplace Health and Safety Act 2011 (QId)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | ToS | time of submergence |
| TSPtotal suspended particulatesTSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of OueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisbility Analysis MappingVDVvibration dose valueVDVvolatile organic compoundsVater ActWagetation Management Act 1999 (Old)Water ActWorkplace Health and SafetyWHOWorkplace Health and SafetyWHOWorkplace Health and Safety Act 2011 (Old)WIMweight in motionWMRRSWaste Management and Resource Recovery Strategy | TPC Act | Transport Planning and Coordination Act 1994 (Qld) |
| TSRCToowoomba Second Range Crossing (Project name, now operational and referred to as the Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVDVvolatile organic compoundsVAActVegetation Management Act 1999 (QId)VBESvider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (QId)WIMAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TRC | Toowoomba Regional Council |
| Ite Toowoomba Bypass)TSStotal suspended solidsTWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVMActVegetation Management Act 1999 (QId)VOCsvolatile organic compoundsWater ActWater Act 2000 (QId)WEBswider economic benefitsWH0Work Jacet Hand SafetyWHAweight in motionWIMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TSP | total suspended particulates |
| TWIThe Welding InstituteUKUnited KingdomUQThe University of QueenslandUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVDVvibration dose valueVOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH0Workplace Health and SafetyWH0Work Health OrganizationWIHAAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TSRC | |
| UKUnited KingdomUQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVMActVegetation Management Act 1999 (Qld)VOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH0Workplace Health and SafetyWH0Work Health organizationWIMRweight in motionWMRRSWaste Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TSS | total suspended solids |
| UQThe University of QueenslandUS EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVM ActVegetation Management Act 1999 (Qld)VOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH0Work place Health and SafetyWH0Work Health organizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | TWI | The Welding Institute |
| US EPAUnited States Environmental Protection AgencyUSLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVM ActVegetation Management Act 1999 (Qld)VOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH0Workplace Health and SafetyWH0World Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | UK | United Kingdom |
| USLUnallocated State LandUXOunexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVM ActVegetation Management Act 1999 (Old)VOCsvolatile organic compoundsWater ActWater Act 2000 (Old)WEBswider economic benefitsWHASWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Old)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | UQ | The University of Queensland |
| UX0unexploded ordnanceVvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVDVvibration dose valueVM ActVegetation Management Act 1999 (Old)VOCsvolatile organic compoundsWater ActWater Act 2000 (Old)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Old)WIMweight in motionWMRRSWaste Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | US EPA | United States Environmental Protection Agency |
| VvulnerableVAMVisibility Analysis MappingVDVvibration dose valueVDVvibration dose valueVM ActVegetation Management Act 1999 (Old)VOCsvolatile organic compoundsWater ActWater Act 2000 (Old)WEBswider economic benefitsWH&SWorkplace Health and SafetyWH0World Health OrganizationWHS ActWork Health and Safety Act 2011 (Old)WIMweight in motionWMHAAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | USL | Unallocated State Land |
| VAMVisibility Analysis MappingVDVvibration dose valueVDActVegetation Management Act 1999 (Qld)VOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | UXO | unexploded ordnance |
| VDVvibration dose valueVDAvibration dose valueVM ActVegetation Management Act 1999 (QId)VOCsvolatile organic compoundsWater ActWater Act 2000 (QId)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (QId)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | V | vulnerable |
| VM ActVegetation Management Act 1999 (QId)VOCsvolatile organic compoundsWater ActWater Act 2000 (QId)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (QId)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | VAM | Visibility Analysis Mapping |
| VOCsvolatile organic compoundsWater ActWater Act 2000 (Qld)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | VDV | vibration dose value |
| Water ActWater Act 2000 (Qld)WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | VM Act | Vegetation Management Act 1999 (QId) |
| WEBswider economic benefitsWH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | VOCs | volatile organic compounds |
| WH&SWorkplace Health and SafetyWHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | Water Act | Water Act 2000 (QId) |
| WHOWorld Health OrganizationWHS ActWork Health and Safety Act 2011 (Qld)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | WEBs | wider economic benefits |
| WHS ActWork Health and Safety Act 2011 (QId)WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | WH&S | Workplace Health and Safety |
| WIMweight in motionWMHHAWest Moreton Hospital and Health ServiceWMRRSWaste Management and Resource Recovery Strategy | WHO | World Health Organization |
| WMHHA West Moreton Hospital and Health Service WMRRS Waste Management and Resource Recovery Strategy | WHS Act | Work Health and Safety Act 2011 (Qld) |
| WMRRS Waste Management and Resource Recovery Strategy | WIM | weight in motion |
| | WMHHA | West Moreton Hospital and Health Service |
| WQMP Water Quality Monitoring Program | WMRRS | Waste Management and Resource Recovery Strategy |
| | WQMP | Water Quality Monitoring Program |

| Abbreviation | Definition |
|--------------|------------------------------------------------------|
| WQOs | water quality objectives |
| WRPs | Water Resource Plans |
| WRR Act | Waste Reduction and Recycling Act 2011 (Qld) |
| WSL | water surface level |
| WSSR Act | Water Supply (Safety and Reliability) Act 2008 (QId) |
| WTP | water treatment plant |
| XPT | express passenger train |

25.3 Glossary

| Term | Definition |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-Weighted decibels (dBA) | The A-weighting is a frequency filter applied to measured noise levels to represent how humans hear sounds. The A-weighting filter emphasises frequencies in the speech range (between 1kHz and 4 kHz), which the human ear is most sensitive to, and places less emphasis on low frequencies at which the human ear is not so sensitive. When an overall sound level is A-weighted it is expressed in units of dBA. |
| Absorptive capability | Absorptive capability relates to the ability of the landscape character zones to absorb the proposal within the existing landscape setting. |
| Access track | Cleared and graded track constructed where existing tracks are not available. |
| Acid sulfate soils | Soil that contains oxidised iron sulphides (actual acid sulfate soils) and/or soil that contains iron sulfides or other sulfidic material that has not been exposed to air and oxidised (potential acid sulfate soils). The term acid sulfate soil generally includes both actual and potential acid sulfate soils. Actual and potential acid sulfate soils are often found in the same soil profile, with actual acid sulfate soils generally overlying potential acid sulfate soil horizons. |
| Acoustics | The science of sound and sound waves. |
| Active bores | A term applied to groundwater bores that can continue to provide a reasonable yield of water in terms of quality and quantity for the bores authorised purpose or use. |
| Active control (level crossings) | Where the movement of vehicular or pedestrian traffic across a railway crossing is controlled using devices such as flashing signals, gates or barriers (or a combination of these), with the devices activated prior to, and during, the passage of a train through the crossing. |
| Adverse impact | Adverse impacts are defined as those impacts that result in an unwanted and unanticipated result of taking a particular action. In an environmental context, an adverse impact means any change in the physical or biological conditions of the natural environment that results in a detrimental effect on flora, fauna, air, water, minerals or other natural characteristic of the area. |
| Aerobic | Conditions that can exist only in the presence of free oxygen. |
| Affected person | An affected person under the <i>Environmental Protection Act 1992</i> (Qld) includes those who have a registered interest in the land, or that which adjoins it, and the relevant local government. |
| A-horizon | See 'topsoil'. |
| Airborne noise | Sound (noise) that travels through the air and commonly describes noise experienced within the outdoor environment. |
| Airshed | Volume of air generally confined to a distinct geographic region. |
| Alignment | The exact positioning of track; may be compared with 'route', which gives only a very general indication of the location of a railway. |
| Alkaline | Having the properties of any of various bases—the hydroxides of the alkali metals and of ammonium, which neutralise acids to form salts. |
| Alluvial | Sediments deposited following a decrease in velocity of flowing water. |
| Alluvium | General term for unconsolidated deposits of inorganic materials (clay, silt, sand, gravel, and boulders) deposited following a decrease in velocity of flowing water. |
| Alluvium aquifer | An aquifer formed within alluvium. See 'alluvium'. |
| Ambient air quality | The state of quality of air as it exists in the environment. |
| Ambient background noise | The ambient noise present in the environment at a location in the absence of the noise source of interest. |
| Ambient noise | The total noise in the environment, often composed of sound from many sources. |
| Anaerobic | Process taking place in the absence of oxygen. |
| Annual daily traffic | The average traffic volume expected over a 24-hour period for a given year. |
| Annual exceedance probability | The chance of a flood of a nominated size occurring in a particular year. The chance of the flood occurring is expressed as a percentage and, for large floods, is the reciprocal of the ARI. For example, the 1% AEP flood event is equivalent to the 100-year average recurrence interval flood event. |

| Term | Definition |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anthropogenic | Associated with or relating to human influence (or impact) on the environment. |
| Approved methods | Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (December, 2005). |
| Aquaculture | Cultivation of the food resources of the sea or inland waters. |
| Aquatic ecosystems | The physical and chemical environment that contains a community of organisms (plants, animals, and microbes) and ecological processes within rivers and their riparian zones, and reservoirs, lakes, wetlands and their fringing vegetation. |
| Aquifer | Rock or sediment in a formation, group of formations or part of a formation that is saturated and sufficiently permeable to transmit economic quantities of water to wells and springs. |
| Aquifer testing | The process where an aquifer is subjected to pumping to assess the hydraulic parameters of the aquifer. |
| Aquitard | Saturated geological unit with a relatively low permeability that can store large volumes of water but does not readily transmit or yield significant quantities of water to bores or springs. An aquitard can sometimes, if completely impermeable, be called an aquiclude. |
| Arable | Capable of producing crops or grazing land. |
| Arboreal | Living in or among trees. |
| Archaeology | The systematic study of a culture by excavation and description of its remains. |
| ARI | A term used to assess rainfall data, which describes the average or expected time periods between exceedances of a given rainfall total accumulated over a given duration. The periods between exceedances are generally random. |
| Artesian aquifer | A confined aquifer whose water is pressurised i.e. if tapped by a bore, would flow naturally to the surface. |
| Artesian bore | A term commonly used to describe a bore that taps into an artesian aquifer. |
| Assessment background level | The overall background level for each day, evening and night period for each day of the noise monitoring. |
| Australian Height Datum | A level datum that generally approximates mean sea level. The datam is treated as uniform throughout Australia. |
| Authorised person | A person holding office as an authorised person under an appointment under the <i>Environmental Protection Act 1994</i> (Qld) by the chief executive of a local government. |
| Auxiliary lane | An additional lane added to the carriageway for safety and/or intersection capacity purposes. |
| Average recurrence interval | The long-term average number of years between the occurrence of a flood of a nominated size. |
| Axle load | The load transmitted to the truck by two wheels or one axle of a bogie. |
| Back on Track species prioritisation framework (QLD) | An initiative of the Department of Environment and Science (DES), the Back on Track species prioritisation program ranks species as critical, high, medium or low priority for the State and for the Natural Resource Management (NRM) region (irrespective of their <i>Nature Conservation Act 1992</i> (Old) (NC Act) <i>or Environment Protection and Biodiversity Conservation Act 1999</i> (Cth) (EPBC Act) classification). There is also a data deficient category according to three sets of criteria: probability of extinction, consequences of extinction and potential for successful recovery. While not legislated, Back on Track provides a useful framework for biodiversity assessment and species prioritisation when determining ecological values. Priority Back on Track species have been identified for each of the 14 NRM regions across QLD. |
| Background creep | The gradual increase in background noise levels in an area as a result of successive developments generating simultaneous noise levels at a location. |
| Background noise | The existing noise level in the area excluding the impacts from the Project. |
| Ballast | Crushed rock, stone etc used to provide a foundation for a railway track. Ballast usually provides the bed on which railway sleepers are laid, transmits the load from train movements, and restrains the track from movement. |
| Basalt | The dark, fine-grained igneous rock of a lava flow, composed primarily of plagioclase and pyroxene. It sometimes displays a columnar structure. |
| | |

| Term | Definition |
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| Baseflow | The component of a watercourse that is derived from groundwater discharge to the river or stream. |
| Baseline | A basic standard or level, usually regarded as a reference point for comparison. |
| Basis of Assessment | Any formal direction from a responsible State or Commonwealth Agency under a relevant Act instructing the assessment approach for a Primary Approval Document. |
| Bed and banks | For a watercourse or wetland, this means land over which the water normally flows or that is normally covered by the water, whether permanently or intermittently; but does not include land adjoining or adjacent to the bed or banks that is from time to time covered by floodwater. |
| Best practice environmental management | Management of an activity to achieve ongoing minimisation of the activity's environmental harm through cost-effective measures, assessed against the measures currently used nationally and internationally for the activity. |
| B-horizon | An intermediate layer of soil beneath the A-horizon containing organic matter and clay. |
| Biocondition | The degree to which the attributes of a patch of vegetation differ from the attributes of the same vegetation in its reference (undisturbed) state. |
| Biodiversity | The number and variety of organisms found within a specified geographic region or within a given ecosystem. The biological diversity of life is commonly regarded as being made up of the following three components: Genetic diversity—the variety of genes (or units of heredity) in any population Species diversity—the variety of species Ecosystem diversity—the variety of communities or ecosystems. |
| Biodiversity offsets | Biodiversity offsets are measures that benefit biodiversity by compensating for the adverse impacts elsewhere of an action, such as clearing for development. Biodiversity offsets work by protecting and managing biodiversity values in one area in exchange for impacts on biodiversity values in another. In QLD, the term used is 'environmental offsets'. |
| Biodiversity Planning Assessments (Qld) (BPAs) | BPAs have been prepared for each of Queensland's bioregions based on the methodology outlined in the <i>Biodiversity Assessment and Mapping Methodology</i> (BAMM) (Queensland Government, 2014c). The BPAs draw on the EHP certified regional ecosystem (RE) mapping, database information, and expert panel reports and incorporate information about threatened ecosystems and/or species, large tracts of habitat in good condition, ecosystem diversity, landscape context and connection, as well as buffers to wetlands or other types of important areas for ecological processes. There are three biodiversity significance levels to which an area can be assigned: |
| | State significance—areas assessed as being significant for biodiversity at the bioregional or |
| | State scales |
| | Regional significance—areas assessed as being significant for biodiversity at the sub- bioregional scale |
| | Local significance and or other values—local values that are of significance at the local government scale |
| | All remnant vegetation will qualify into one of the above three categories. |

| Term | Definition |
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| Biodiversity status | Biodiversity status is used for a range of planning and management applications, including biodiversity planning assessments and to determine environmentally sensitive areas that are used for the regulation of the extractive industry through provisions in the <i>Environmental Protection Act 1994</i> (Qld). Biodiversity status is ascertained through assessing the condition of an ecosystem's remnant vegetation. An ecosystem's biodiversity status is listed according to classes, as defined in <i>the Vegetation Management Act 1999</i> (Qld). For biodiversity planning purposes the DES classifies a RE as 'endangered' if: Less than 10 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss, or 10–30 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity planning purposes DES classifies a RE as 'of concern' if: For biodiversity planning purposes DES classifies a RE as 'of concern' if: 10–30 per cent of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity planning purposes DES classifies a RE as 'of concern' if: For biodiversity planning purposes, a RE is listed as 'least concern' at present if: |
| | The degradation criteria listed above for 'endangered' or 'of concern' REs are not met. |
| Biological oxygen demand | This is the amount of oxygen required by the aerobic biological organism to break down organic material that is present in a water sample, at a specific temperature, over a period of time. |
| Bioregion | Landscape pattern that reflects changes in geology and climate, as well as major changes in floral and faunal assemblages at a broad scale. |
| Biosecurity | Security measures against the transmission of disease to the plants or animals of a region. |
| <i>Biosecurity Act</i> 2014 (Qld) (Biosecurity Act) | The Biosecurity Act lists declared plants and animals that have, or could have, serious economic, environmental or social impacts and are targeted for control. There are legal obligations associated with the control supply, sale, keeping and transport of declared species. Where these exotic pests and weeds are encountered, landowners have an obligation under the Biosecurity Act to control the declared weeds and pest animals, in accordance with relevant guidelines and local government area pest management plans. There are seven categories for restricted matter defined in the Biosecurity Act: Categories 1 and 2 are restricted matters that have specific urgent reporting requirements Categories 3, 4, 5, 6 and 7 relate to restricted matter that is in a person's possession, under their control and is also about not feeding restricted matter. In such cases, the requirements of all restriction categories for these restricted matter listings are to be followed. |
| Bogie | Two axles with wheels and a sub-frame under each end of a wagon. |
| Bore | Artificially constructed or improved groundwater cavity used for the purpose of accessing or recharging water from an aquifer. Interchangeable with borehole, piezometer. |
| Break of gauge | Where a line of one-track gauge meets a line of a different-track gauge. |
| Brigalow Belt | The bioregion that spans inland from eastern QLD from Townsville in the north to northern NSW, covering an area of 36,400,000 ha. The bioregion, as its name implies, is characterised by brigalows. The bioregion also supports a range of ecosystems, including eucalypt forest and woodlands, grassland, dry rainforest, cypress pine and riparian communities. |
| Broad gauge | Railway track gauge of 1,600 mm. |
| Buffer | An area of land separating adjacent land uses that is managed for the purpose of mitigating impacts of one use on another. A buffer area consists of a separation distance and one or more buffer elements. |
| Bulk freight | Bulk freight generally involves large quantities of homogenous product, typically liquid or loose crushed solid material (such as cement, grains and ores), transported en mass without packaging. |
| Bunching and stretching | Wagons can touch from coming together or make a noise when they stretch and pull apart. |
| Bund (or bunding) | Wall of a secondary containment system, usually in the form of an embankment, used to prevent sediment and liquids from entering the environment. |

| Term | Definition |
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| Cadastral | Relating to the official register of property, with details of boundaries and ownership. |
| Cainozoic | Relating to the geological era of rocks of most recent age (65.5 million years ago to present). |
| Ratio | A penetration test used to evaluate the subgrade strength of roads and pavements. The results of these tests are used with the curves to determine the thickness of pavement and its component layers. |
| | The CALPUFF model was used to model all other open-air sections of the alignment (e.g. outside the tunnel). |
| | Greenhouse gas emissions unit used to provide a common unit of measure between the various greenhouse gases due to their differing global warming potential. |
| Carbon monoxide | Toxic, colourless and odourless gas produced by burning fuels. |
| Catchment | The area of land that collects and transfers rainwater into a waterway. |
| | A measure of distance along the rail corridor from Sydney. The nominated values are not exact distances as there are some local adjustments made to reflect progressive changes to the rail as works are progressively implemented to, for example, ease bends. |
| | Changes and trends in the chemistry of groundwater as it moves through different aquifers and rock types over geologic time. |
| | Deposit of particles with a diameter less than 0.002 millimetre (mm), typically contain variable amounts of water within the mineral structure and exhibit high plasticity. |
| , i i i i i i i i i i i i i i i i i i i | For vegetation, clearing means removing, cutting down, ringbarking, pushing over, poisoning or destroying in any way, including by burning, flooding or draining; but it does not include destroying standing vegetation by stock, or lopping a tree. |
| | The average weather experienced at a site or region over a period of many years, ranging from months to many thousands of years. The relevant measured quantities are most often surface variables such as temperature, rainfall and wind. |
| | Any change in long-term climatic conditions over time, whether due to natural variability or as a result of human activity. |
| | Actions in response to actual or projected climate change and impacts that lead to a reduction in risks or realisation of benefits. |
| projection | A projection of the response of the climate system to scenarios of greenhouse gas emissions or atmospheric concentrations of greenhouse gases; often based on simulations by computer-based mathematical models, depending on assumptions and response of the climate system to changes in these variables, and can therefore be distinguished from climate predictions. |
| Coastal route | The existing rail route from Melbourne to Brisbane via Sydney. |
| | Watertight enclosure constructed in a watercourse and then pumped dry so that infrastructure may be constructed in the watercourse in the open. |
| | General term applied to any loose, heterogeneous and incoherent sediment, such as soil material and/or rock fragments transported by gravity and deposited or built up at the bottom of a low-grade slope. |
| | Testing and commissioning (checking) of the rail line and communication/signalling systems will be undertaken to ensure that all systems and infrastructure are designed, installed and operating according to ARTC's operational requirements. |
| | Where a grade is eased on curves so the total resistance to a train is constant, irrespective of the degree of curvature of the track. |
| general equilibrium model | A whole-of-economy model that captures the interactions between different sectors of the economy through a series of simultaneous equations. Computable general equilibrium models can be used to estimate how an economy might respond to changes in government policy, technology, investments or other external factors relative to a baseline. |
| | Proposed configuration, layout and timeframes for development of the Project, established for the purpose of environmental impact assessment. |
| | |

| Term | Definition |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Confining layer | Layer of low permeability material underlying or overlying an aquifer, which restricts the vertical movement of water. |
| Conglomerate | Consolidated gravel consisting of rounded and waterworn pebbles embedded in a finer cementing material. |
| Conservation significant | A collective term used with reference to species that are listed as 'critically endangered', 'endangered' or 'vulnerable' under the provisions of the <i>Nature Conservation Act 1992</i> (Qld) (NC Act) and/or the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth) (EPBC Act) (refer EPBC Act conservation significance for more details). |
| Conservation significant species | See 'Threatened species'. |
| Consist | The set of wagons or carriages that form the train. |
| Construction | Construction activities include: Site set out and pegging, including establishing clearing limits Establishment of laydowns and compounds, including vehicle inspection/workshops, washdown facilities and temporary fencing, as required Installation of erosion and sediment control measures Clearing—using dozers, chainsaws, excavators, trucks and similar equipment Bulk earthworks—major cut-to-fill operations including winning suitable construction material from sections of cut along the railway alignment or from borrow areas external to the site Construction of drainage infrastructure—cut-off drains, table drains and culvert structures Construction or installation of concrete railway bridges and culverts Ballast—supply, delivery and installation Concrete sleepers—supply, delivery and installation Installation of rail track and other items of rail infrastructure using rail-mounted equipment Installation of tunnel maintenance facilities, administration and amenities buildings, car and truck parking and bulk fuel provisioning and storage areas. Other miscellaneous activities to complete the works, such as reinstatement and rehabilitation of temporary works areas and landscaping. |
| Consolidated aquifer | Water-bearing rock aquifer, such as sandstone, coal, limestone and granite. |
| Constraints mapping | The processes used to assess the environmental framework for development, whereby areas of environmental sensitivity are graphically depicted to determine areas where development may be constrained. |
| Construction compound | An area used as the base for construction activities, usually for the storage of plant, equipment and materials and/or construction site offices and worker facilities. |
| Contamination | The introduction of a pollutant into the environment. |
| Continuously welded rail | Continuously welded rail shall be constructed on Inland Rail, and due to there being fewer joints, trains can travel faster on continuously welded steel rails than on jointed rails. The continuously welded rail can reduce noise and vibration emissions from passing trains. |
| Contour plot | Graphical technique for representing a three-dimensional surface by plotting contours in a two- dimensional format. |
| Contractor | A company or individual engaged by ARTC to undertake a specific project, function or maintenance works in accordance with an agreement (e.g. construction, maintenance, installation, commissioning, consultancy and other specialist types of work). |
| Controlled action | A proposed action designated under the controlling provisions of the EPBC Act, which is likely to have a significant impact on a matter of national environmental significance, the environment, or Commonwealth land (even if the action is taken outside Commonwealth land). |
| Controlling provision | Under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth), an action that a person proposes to take is a 'controlled action' if the taking of the action by the person without approval under Part 9 for the purposes of a provision of Part 3 would be (or would, but for section 25AA or 28AB, be) prohibited by the provision. The provision is a 'controlling provision' for the action. |

| Term | Definition |
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| Corridor | A strip of land with a width measured in kilometres that are suitable for a railway. Study of a corridor leads to the identification of route options. Corridor has another meaning for an operating railway: it describes the railway adjacent land between boundary fences, or if unfenced, to a distance of 15 metres from each outside rail. |
| Cover material | Soil, alluvium, weathered basalt or other suitable plant-growth medium, typically non-crusting and of low salinity, placed on reshaped spoil surfaces. |
| Cretaceous | Relating to the third period within the Mesozoic era, beginning approximately 145.6 million years ago and ending approximately 65 million years ago. |
| Critical habitat | The whole or any part or parts of an area or areas of land comprising the habitat of an endangered species, an endangered population or an endangered ecological community that is critical to the survival of the species, population or ecological community. Critical habitat is defined under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth). |
| Critically endangered | Designated as critically endangered under the <i>Environment Protection and Biodiversity</i> <i>Conservation Act 1999</i> (Cth). Refer to definition of EPBC Act conservation status for meaning of 'Critically endangered' under the Act. |
| Crossing loop | Crossing loops are lengths of track connected to the main line by switches at both ends to provide a facility that permits trains to both cross and pass each other. |
| Crowding out | When one activity competes with other sectors of the economy for a relatively fixed amount of inputs to the production process (e.g. labour, capital or other goods and services). It can also be caused by increased pressure on the output side, by competing in a market that displays relatively inelastic demand. This can create a displacement of economic activity towards the sector and region generating the excess demand. |
| Crustacean | An arthropod with jointed appendages, a hard protective outer shell, two pairs of antennae and eyes on stalks (e.g. crabs, prawns). |
| Cultural heritage | Indigenous and non-Indigenous items and areas (commonly referred to as places) that are a significant indicator of historical and cultural events and practices. |
| Cultural significance | The meaning or value ascribed to the cultural landscape. It normally stems from a combination of association and integrity. |
| Culvert | A structure that allows water to flow under a road, railway, track, or similar obstruction. |
| Cumulative impact | The combined impact to one or more environmental values delivered by multiple projects being undertaken simultaneously within the same sphere of physical influence. |
| Dam | An engineered land-based structure that is designed to contain, divert or control liquid. A dam does not mean a fabricated or manufactured tank or container, designed and constructed to an Australian Standard that deals with strength and structural integrity of that tank or container. |
| Dangerous goods | Dangerous goods are substances or articles that pose a risk to people, property or the environment, due to their chemical or physical properties. They are usually classified with reference to their immediate risk. |
| Day | The period from 7.00 am to 6.00 pm Monday to Saturday and 8.00 am to 6.00 pm Sundays and public holidays. |
| Decibel (dB) | A unit of sound level measurement. |

| Term | Definition |
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| Decibel scale | The decibel scale is logarithmic in order to produce a better representation of the response of the human ear. A 3 dB increase in the sound pressure level corresponds to a doubling in the sound energy. A 10 dB increase in the sound pressure level corresponds to a perceived doubling in volume. Examples of decibel levels of common sounds are as follows: 0 dBA Threshold of human hearing 30 dBA A quiet country park 40 dBA Whisper in a library 50 dBA Open office space 70 dBA Inside a car on a freeway 80 dBA Outboard motor 90 dBA Heavy vehicle pass-by 100 dBA Jackhammer/subway train 110 dBA Rock concert 115 dBA Limit of sound permitted in industry 120 dBA 747 plane take off at 250 m. |
| Deep groundwater | Groundwater resources associated with aquifers and resources at depths >100 m. |
| Demography | The range of different groups existing in a populace, as distinguished by factors such as age, ethnicity, and social background. |
| Depressurisation | The lowering of the groundwater elevation over an area. |
| Desalinate | To remove dissolved salts from saline water so that it becomes suitable for beneficial uses (e.g. drinking water or for agricultural irrigation) or release to the environment. |
| Detailed design | Detailed design is the process of developing the Project design up to an 'Approved for Construction' stage. |
| Dewatering | Draining, permanently or temporarily, partially or fully, a wet area of land or an aquifer. |
| Direct economic impact | A measure of the total value added in a defined geographical region, directly attributable to a given event, organisation or industry. |
| Direct impacts | Impacts that result from a direct interaction between Project activities and the receptor (e.g. land clearing resulting in vegetation and habitat loss). |
| Directional drilling | Technique of non-vertical or horizontal drilling. |
| Discharge area | That part of the land surface where groundwater discharge produces a net movement of water out of the groundwater. |
| Dispersive | A characteristic of soil indicating the potential for the breakdown of clay material into single clay particles in solution. |
| Dissolved oxygen | The amount of oxygen dissolved in water. |
| Dissolved solids | Minerals and organic matter dissolved in water; a measure of salinity. |
| Disturbance | A physical displacement of existing features that leads to impacts. |
| Disturbance footprint | The disturbance footprint can be described as either permanent or temporary: Permanent disturbance footprint: The rail corridor includes the rail tracks and associated infrastructure as well as other permanent works associated with the Project (e.g. where changes to the road network are required) Temporary disturbance footprint: The permanent disturbance footprint and any temporary storage and laydown areas to be used on a temporary basis during the construction phase. |
| Diversion channel | A constructed waterway used to redirect drainage lines and watercourses around infrastructure areas. |
| Double stacking | Placement of one intermodal freight container on top of another in a specially designed well- wagon. |
| Drawdown | The decline in the groundwater level in a bore from the standing water level, when influenced by pumping. |
| Drilling rig | A machine that creates holes (usually called wells or bores) in the ground. |

| Term | Definition |
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| Earth | The planet on which we currently live; the world. |
| Early works | Early works and pre-construction activities can occur prior to full mobilisation of the construction contractor. These may be undertaken under a separate contract, but must not start until the Outline CEMP has been approved by the Coordinator-General, and the relevant early works and pre-construction activities CEMP has been endorsed by the Environmental Monitor. Early works and pre-construction activities must be undertaken in accordance with any relevant imposed conditions. |
| Earthworks | All operations involved in loosening, excavating, placing, shaping and compacting soil or rock. |
| Easement | Legal term used to describe land over which a third party has rights to locate infrastructure and undertake certain activities. |
| Ecological | Relating to the relationships between organisms and their environment. |
| Ecological community | An assemblage of species occupying an area. |
| Ecological receptor | An ecological value or group of ecological values that has the potential to be adversely impacted by Project-related activities. |
| Ecological sustainability | The capacity of a development to continue operating perpetually and avoid adverse effects on ecology. |
| Ecologically sustainable development | Development that uses, conserves and enhances the resources of the community so that ecological processes on which life depends are maintained, and the total quality of life, now and in the future, can be increased. |
| Ecology | Scientific study of abundance, distribution and interactions between organisms and their natural environment. |
| Ecosystem | An organic community of plants, animals and bacteria and the physical and chemical environment they inhabit. |
| EIS investigation corridor | The base study area for the EIS. An approximate 2 km wide study area, 1 km either side of the proposed rail alignment. The EIS investigation corridor includes the disturbance footprint, which encompasses all areas where works are proposed, including both permanent and temporary works, and land within a 1 km radius either side of the proposed rail alignment. |
| Emission | A substance discharged into the air. |
| Emission factor | Calculation factor expressing greenhouse gas emissions per unit of activity. |
| Endangered | Designated as 'endangered' under the EPBC Act, NC Act, VM Act. Refer to definitions of EPBC Act conservation status, NC Act conservation status, VM Act and EP Act conservation status for meaning of 'endangered' under each Act. |
| Endemic | Native to a country or a locality, although also found elsewhere. |
| Energy efficiency | Ratio of the transport task of the energy input; a measure of energy efficiency is tonne/km per megajoule. |
| Energy intensity | Ratio of energy input to transport task; the inverse of energy efficiency; a measure of energy intensity is MJ/net tonne/km. |
| Environmental authority | An authority issued in accordance with the <i>Environmental Protection Act 1994</i> (QId), that authorises the ERAs to which it applies subject to conditions; used by Queensland Department of Environment and Science to assess compliance of a project. |
| Environmental flow | Water flow regimes required to sustain freshwater and estuarine ecosystems e.g. to deliver nutrients and sediment downstream. |
| Environmental impact statement | A document prepared to identify, describe and assess the potential impacts of a proposed action on the environment, and document ways to mitigate such impacts; it should provide enough detail to inform a decision on the proposal. |
| Environmental management plan | Document that provides operational detail of how environmental management measures identified in the environmental impact statement will be implemented. |
| Environmental nuisance | An unreasonable interference or likely interference with an environmental value caused by noise, dust, odour or light; caused by an unhealthy, offensive or unsightly condition or in another way prescribed by regulation. |

| Term | Definition |
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| Environmental offsetting | If a project has a significant residual impact in one area, environmental offsetting facilitates an environmental gain in another area. |
| Environmentally relevant activity | An activity with potential to release contaminants into the environment defined in Schedule 2 of the <i>Environmental Protection Regulation 2019</i> (QId). |
| Environmentally sensitive area | Location, however large or small, that has environmental values recognised in the Environmental Protection Act 1994 (Old), which contribute to maintaining biological diversity and integrity; has intrinsic or attributed scientific, historical or cultural heritage value; or is important in providing amenity, harmony or sense of community. As defined under the Environment Protection and Biodiversity Conservation Regulations 2000, a 'Category A' environmentally sensitive area is any of the following: National parks Conservation parks Conservation parks Conservation parks Forest reserves Wet Tropics World Heritage Area Great Barrier Reef Marine Park Area Marine parks other than General Use Zones. A 'Category B' environmentally sensitive area includes the following: World Heritage Areas Oueensland Heritage Register places Ramsar sites Cultural Heritage Registered Areas and DLAs other than Stanbroke Pastoral Development Holding Special Forestry Areas Fish Habitat Areas Coordinated Conservation Areas Fish Habitat Areas Coordinated Conservation Areas Fandangered Regional Ecosystems (remnant and mature regrowth (biodiversity status)) Marine parks other than General Use Zones Marine plants Category C' environmentally sensitive area includes any of the following: Essential habitat Referable wetlands Declared catchment areas Nature refuges Resources reserves State forests Timber reserves State forests Timber reserves Yot concern' REs (remnant and mature regrowth (biodiversity status)). |
| Environmental values | Desirable characteristics, properties and behaviours or an aspect of the environment. |

| Term | Definition |
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| EPBC Act conservation status | Under the EPBC Act, listed species and threatened ecological communities are assigned a conservation status of 'extinct in the wild', 'critically endangered', 'endangered' or 'vulnerable'. Definitions of these terms under the Act are as follows: Extinct in the wild: |
| | It is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or |
| | It has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a timeframe appropriate to its lifecycle and form. |
| | Critically endangered: |
| | It is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria. |
| | Endangered: |
| | It is not critically endangered; and |
| | It is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria. |
| | Vulnerable: |
| | It is not critically endangered or endangered; and It is facing a bigh risk of extinction in the wild in the medium term future, as determined in |
| | It is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria. Migratory: |
| | Migratory species are those animals that migrate to Australia and its external territories, or pass through or over Australian waters during their annual migrations. Examples of migratory species are species of birds (e.g. albatrosses and petrels), mammals (e.g. whales) or reptiles. Listed migratory species are those listed in the: |
| | Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention) China–Australia Migratory Bird Agreement (CAMBA) |
| | Japan–Australia Migratory Bird Agreement (JAMBA) |
| | Republic of Korea–Australia Migratory Bird Agreement (ROKAMBA). |
| EPBC threshold criteria | The rules or principles used to measure the significance of a plant, animal or ecosystem against the requirements of the <i>Environmental Protection Act 1994</i> (Qld). |
| Ephemeral | Temporary or short lived. An ephemeral waterway is one that flows following periods of heavy rainfall. Relates to the amount of time that surface water persists in a watercourse or wetland; ephemeral watercourses flow only during significant rainfall events and for a short time following rainfall events. |
| Equivalent continuous sound level (L _{eq}) | The constant sound level which, when occurring over the same period of time, would result in the receptor experiencing the same amount of sound energy. |
| Equivalent person | An equivalent person under Part 2 of the <i>Planning Guidelines for Water Supply and Sewerage</i> , (April 2010), published by the Department of Energy and Water Supply. |
| Erosion | Wearing away of rock or soil caused by physical or chemical processes. |
| Erosion stability | The ability of an area to resist the natural forces of soil erosion. |
| Essential habitat | For species of wildlife listed as endangered, vulnerable, rare, or near threatened under the <i>Nature Conservation Act 1992</i> (Old), an area of vegetation shown on the regional ecosystem map or remnant map as remnant vegetation: |
| | That has at least three essential habitat factors for the protected wildlife, which must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database |
| | In which the protected wildlife, at any stage of its life cycle, is located. |
| | Essential habitat areas are identified on a map certified by the Chief Executive of Queensland Department of Environment and Heritage Protection for the purposes of the <i>Vegetation Management Act 1999</i> (Qld). |
| Estuarine | Formed in an estuary. |
| | The period from 6.00 pm to 10.00 pm Monday to Sunday and public holidays. |

| Term | Definition |
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| Existing rail corridor | The corridors within which existing rail infrastructure are located. |
| Extinct in the wild | Refer: <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth) (EPBC Act) conservation status; <i>Nature Conservation Act 1992</i> (Qld) (NC Act) conservation status. |
| Extreme event | Weather conditions that are rare for a place and/or time, such as an intense storm or heat wave. |
| Fault | Zone of displacement in rock formations resulting from forces of tension or compression in the Earth's crust. |
| Fauna | The animals of a given region or period, taken collectively. |
| Feral | Animal existing in a wild or untamed state, having escaped from domestication. |
| Fill | Any kind of material in solid form (whether or not naturally occurring) capable of being deposited at a place, but does not include material that forms a part of, or is associated with, a structure constructed in a watercourse, wetland or spring, including a bridge, road, causeway, pipeline, rock revetment, drain outlet works, erosion prevention structure or fence. |
| Floodplain | Flat or nearly flat land adjacent to a stream or river that stretches from the banks of its channel to the base of the enclosing valley walls and experiences flooding during periods of high flow. |
| Flora | The plants of a given region or period, taken collectively. |
| Fluvial geomorphology | The study of river-related landforms and the processes that shape them. |
| Foreseeable future | The period used for assessing the total probability of an event occurring. Permanent structures and ecological sustainability should be expected to still exist at the end of a 150- year foreseeable future, with an acceptably low probability of failure before that time. |
| Forest reserve | Tenure of an interim nature for a maximum of five years and managed by the Environmental Protection Agency with associated conditions under the <i>Nature Conservation Act 1992</i> (QId). |
| Forestry entitlement area | Land in a deed of grant or freeholding lease, where the commercial timber and the land on which it stands is reserved by the State of Queensland. |
| Formation | The earthworks/material on which the ballast, sleepers and tracks are laid. |
| Fossil fuel | Hydrocarbon deposit, such as petroleum, coal, or natural gas, derived from alteration of living matter of a previous geologic time, and used for fuel. |
| Fracture | Any break in a rock, including cracks, joints and faults. |
| Fractured aquifer | An aquifer that owes its water-bearing properties to fracturing caused by folding and faulting. |
| Fragmentation | Discontinuities in an organism's preferred habitat. |
| Freehold | Land held by the State in Fee Simple (freehold title), which includes titles surrendered to the State of Queensland (or Crown) in terms of Section 358 of the <i>Land Act 1994</i> (Qld). |
| Freight | Goods transported by truck, train, ship, or aircraft. |
| Freight task | The amount of freight transport, usually measured in tonnes or tonne-kilometres. |
| Frequency | The repetition rate of the cycle measured in Hertz. The frequency corresponds to the pitch of the sound. A high frequency corresponds to a high-pitched sound and a low frequency to a low-pitched sound. |
| Fresh water | Water that contains less than 1,000 milligrams per litre dissolved solids. |
| Fugitive dust | Dust derived from a mixture of non-point or not easily defined sources; examples include dust from vehicular traffic on unpaved roads, materials transport and handling and disturbed (unvegetated) soils and surfaces. |
| Full-time equivalent (FTE) | A ratio of the total number of paid hours during a fixed time period by the number of hours worked in that period. |
| Functional vegetation | Vegetation that consists of species able to survive and regenerate under specific conditions, providing soil erosion control and fauna habitat. |
| Geochemistry | The chemical characteristics of a soil or rock material. |

| Term | Definition |
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| Geographical information system (GIS) | Computer system that can capture, store, analyse, and present, in various ways, data that locates places on the Earth's surface. |
| Geomorphic process | Chemical, physical or biological operation at the Earth's surface that shapes the landscape and its deposits. |
| Geomorphology | Study of the physical features of the surface of the Earth and their relation to underlying geological structures. |
| Global climate models | Computer-generated simulations developed to predict future weather and climate trends. This includes considering changes in greenhouse gas concentrations in the atmosphere. Also referred to as 'general circulation models' or 'climate models'. |
| Global warming potential | Measure of how much a given mass of greenhouse gas is estimated to contribute to global warming. It is a relative scale that compares the gas in question to that of the same mass of carbon dioxide with global warming potential of 1. |
| Good quality agricultural land | This is a two-class system in land evaluation, in which land is considered either good-quality agricultural land or not. |
| Greenfield | New development that occurs outside established urban areas where the site or development has not previously been used for urban development. Also applies for railway construction on new alignments. |
| Greenhouse gas | Any of the atmospheric gases that contribute to the greenhouse effect by absorbing infrared radiation produced by solar warming of the Earth's surface, including carbon dioxide, methane, nitrous oxide and water vapour. |
| Greenhouse Gas Protocol | Corporate accounting and reporting standards for greenhouse gas emissions developed by the World Resources Institute and the World Business Council for Sustainable Development. |
| Gross | Total mass of a wagon and its payload. |
| Gross domestic/state/ regional product | The market value of officially recognised final goods and services produced within a country/state/region in each period. Final goods and services are defined as those which are not used to produce other goods or services. |
| Ground-borne noise | Railway vibration in buildings at frequencies typically from about 30 Hz to about 200 Hz, can excite the floors and walls, which then radiate a rumbling noise directly into the rooms. This ground-borne (or structure-borne) noise is associated with track in tunnels, where it occurs without the masking from the airborne rail noise. |
| Groundwater | Water found in the subsurface in the saturated zone below the water table or piezometric surface i.e. the water table marks the upper surface of groundwater systems. |
| Groundwater flow | The movement of water through openings and pore spaces in rocks below the water table, i.e. in the saturated zone. |
| Groundwater resource | Groundwater available for beneficial use, including human usage, aquatic ecosystems and the greater environment. |
| Groundwater vulnerability | The tendency or likelihood for contamination to reach a specified position in the groundwater system after introduction at some location above the uppermost aquifer. |
| Habitat | An area or areas permanently, periodically or occasionally occupied by a species, population or ecological community, including any and all biotic and abiotic features of the area or areas occupied. |
| Hazardous material | Substance that, if improperly treated, stored, disposed of, or otherwise managed, is likely to cause serious or material environmental harm because of its: Quantity, concentration, acute or chronic toxic effects, carcinogenicity, teratogenicity, mutagenicity, corrosiveness, explosiveness, radioactivity, or flammability; or Physical, chemical, or infectious characteristics. |
| Headway | The difference in time or distance between two trains traveling in the same direction. |
| Heavy vehicle | Any vehicle with three or more axles or with dual tyres on the rear axle. |
| HERBRECS | Database maintained by the Queensland Herbarium that provides a list of specimens and collections for a specified search area. |

| Term | Definition |
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| Heritage listed | An item, building or place included on statutory heritage lists maintained by local, state and/or the Australian Government. |
| Heritage place | Any place that may be of cultural heritage significance, or any place with potential to contain archaeological artefacts that are an important source of information about Queensland's history. |
| Heritage precinct | A wider area that contains several historic and archaeological sites. |
| Heritage values | An object, site, area, or landscape that holds aesthetic, historic, scientific, social or spiritual value for past, present or future generations. |
| Heterogeneous regional ecosystem polygon | An area (polygon) comprising a mixture of regional ecosystem types; allows mapping of areas of vegetation that would normally be too small to map, to be shown at the scale at which regional ecosystems are normally mapped. |
| High bank | The defining terrace or bank or, if no bank is present, the point on the active floodplain, which confines the average annual peak flows in a watercourse. |
| High constraint area | The environmental value is at risk from the Project activity. The activity will only be allowed with a specific set of stringent mitigation measures. |
| High-value | Vegetation located: |
| regrowth | On freehold land, Indigenous land, or land subject of a lease issued under the Land Act 1994 (QId) for agriculture or grazing purposes or an occupation licence under that Act; and |
| | In an area that has not been cleared (other than for relevant clearing activities) for at least 15 years, if the area is: |
| | an 'endangered' regional ecosystem; or |
| | an 'of concern' regional ecosystem; or |
| | ▶ a 'least concern' regional ecosystem. |
| Highly erodible soils | Very unstable soils that are generally described as sodosols, with hard-setting, fine sandy loam, to silty clay loam surfaces (solodics, solodised solonetz and solonetz), soils with a dispersible layer located less than 25 centimetres deep or soils less than 25 centimetres deep. |
| Highway | High-order road of a high standard, facilitating connectivity between population centres. |
| Holocene | Holocene is the name of a geological time epoch commencing approximately 10,000 years ago and extending to present. Pre-Holocene is the time proceeding this epoch. |
| Homogeneous regional ecosystem polygon | An area (polygon) delineated on a map of regional ecosystems, comprising a single regional ecosystem. |
| Hydraulic conductivity | Measure of the ease with which water will pass through Earth material; defined as the rate of flow through a cross-section of one square metre under a unit hydraulic gradient at right angles to the direction of flow (metres per day). |
| Hydraulic gradient | Change in hydraulic head over a certain distance. |
| Hydraulic head | Elevation to which water will rise in a borehole connected to a point in an aquifer. |
| Hydrogeology | The study of the interrelationships of geological materials and processes with water, especially groundwater. |
| Hydrograph | Graph that shows groundwater or surface water properties as a function of time. |
| Hydrology | The study of rainfall or runoff process. |
| Igneous rock | Rock formed from magma that has cooled and solidified either at the Earth's surface (volcanic rock) or deep within the Earth's crust (plutonic rock). |
| Impact | An event that alters ecosystem, community, or population structure and alters the physical environment, directly or indirectly. An impact may have a short or long duration. |
| Impermeable subsoil | Layer of soil below the topsoil that slows or stops infiltration. |
| Indirect economic impact | The flow-on value generated in other sectors of the economy as a result of the demand stemming from a given event, organisation or industry. |

| Term | Definition |
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| Indirect impacts | Impacts that are not a direct result of Project activities but that occur away from the original impact area, sometimes via a complex pathway (e.g. soil disturbance during construction promoting weed and/or pest invasion that reduces habitat quality). In accordance with the EPBC Act, indirect impacts include the following: |
| | Downstream or downwind impacts, such as impact on wetlands or ocean reefs from sediment, fertilisers or chemicals that are washed or discharged into river systems |
| | Upstream impacts, such as impacts associated with the extraction of raw materials and other inputs that are used to undertake the action Easilitated impacts that result from further actions (including actions by third partice), which |
| | Facilitated impacts that result from further actions (including actions by third parties), which are made possible or facilitated by the action. |
| Infiltration | The downward movement of water from the atmosphere into the ground; not to be confused with percolation. |
| Infrastructure sustainability | Infrastructure that is designed, constructed and operated to optimise environmental, social and economic outcomes over the long term. |
| Initial advice statement | Document prepared to provide preliminary information about the physical, ecological and socioeconomic environment of a project; for purposes of a 'coordinated project' declaration under the <i>State Development and Public Works Organisation Act 1971</i> (Qld). |
| Inland Rail Program | The Inland Rail Program encompasses the design and construction of a new inland rail connection between Melbourne and Brisbane, via Wagga, Parkes, Moree, and Toowoomba. The route for Inland Rail is about 1,700 km in length. Inland Rail will involve a combination of upgrades of existing rail track and the provision of new track. |
| Intermediate input | Raw materials or semi-finished goods and services that are purchased from supply-industries and then used to produce other goods and services for final consumption. |
| Intermodal | The movement of freight using multiple modes of transport (rail, ship, truck) without handling of the freight itself when changing modes. For a railway, this usually refers to the transport of freight in containers that may be double stacked on the wagons carrying them. |
| Intrusion | The solidified remnants of an igneous flow of rock into sedimentary strata. |
| Invertebrate | Animal without a backbone. |
| Jurassic | The geologic period that extends from 199.6 million to 145.5 million years ago. The period occurred within the Mesozoic era, following the Triassic and preceding the Cretaceous periods. |
| Kandosol | Non-texture contrast soils (with little or gradual increase in clay content with depth) that have weakly to non-structured subsoils (B horizons). |
| Kurosol | Soil type in which the B horizon is significantly more clayey in texture than the A horizon; the upper part of the B horizon being strongly acidic. |
| Lacustrine | Of or relating to a lake. Term is commonly used in reference to soils and ecosystems. |
| Lake | Permanent or ephemeral natural or artificial body of water of considerable size surrounded by land. |
| Land degradation | An adverse change in the characteristics of the Earth's surface that results in one or more of the following: soil erosion, rising water table, the expression of salinity, mass movement by gravity of soil or rock, stream-bank instability, or a process that results in declining water quality. |
| Land suitability | The capacity of land resources to sustain forms of land use such as cattle grazing, cropping, and forestry. |
| Landowner | The owner, occupier, manager, or controller of land or water, including anyone acting on their behalf. |
| Landscape | All aspects of a tract of land, including landform, vegetation, buildings, villages, towns, cities and infrastructure. |
| Landscape character | The combined quality of built, natural and cultural aspects that make up an area and provide its unique sense of place. |
| Landscape character zone | Areas of landscape that have similar topographic, vegetation and land use features that create areas of similar visual character. Landscape character units are smaller areas within landscape character zones, which have uniform vegetation, topography and land use that collectively make up the landscape patterns of the various landscape character zones. |

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| Term | Definition |
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| Matters of state environmental significance | Matters of state environmental significance (MSES) are a component of the biodiversity state interest that is defined under the State Planning Policy (SPP). MSES includes certain environmental values that are protected under QLD legislation including the: Nature Conservation Act 1992 (Qld) Fisheries Act 1994 (Qld) Environmental Protection Act 1994 (Qld) Vegetation Management Act 1999 (Qld). Legally secured offset areas protected by a registered covenant or similar statutory mechanism. |
| Median | The middle value of a discrete series. |
| Mesa | An elevated area of relatively level land, surrounded by steeper slopes or cliffs and smaller in extent than a plateau. |
| Mesozoic | The geological era from ~250 million to ~65 million years ago. It is the era between Palaeozoic and Cainozoic. |
| Meteorological | Relating to meteorology or to phenomena of the atmosphere or weather. |
| Microchiropteran bats | This report uses the term microchiropteran bats to refer to small, mostly insectivorous bats that use echolocation to navigate and find food. |
| Migratory | Species listed as 'migratory' under the EPBC Act. Refer to definitions of EPBC Act conservation status, for meaning of migratory under the Act. |
| Migratory species | Species listed as 'migratory' under the EPBC Act; refer to definitions of EPBC Act conservation status, for meaning of 'migratory' under the Act. |
| Mitigation | To appropriately protect and maintain the existing environment in accordance with relevant legislation and best-management principles; taken to have the same meaning as management. |
| Monitoring bore | A bore used to monitor groundwater levels or quality, often containing a piezometer. |
| Morphology | Form and structure of organisms without consideration of function. |
| Mudstone | A clayey rock of nearly uniform texture throughout, with little or no lamination. |
| Multi-well lease | A well lease that hosts more than one production well. |
| Narrow gauge | Railway track gauge of 1,067 mm. |
| National Environment Protection Measure | Broad framework-setting statutory instruments defined under the <i>National Environment Protection Council Act 1994</i> (Cth); outlines agreed national goals, standards, protocols, and guidelines for protecting or managing aspects of the environment. |
| National park | Land reserved by the (former) Department of National Parks, Recreation, Sport and Racing now Department of Environment and Science for a National Park, National Park (Scientific), Conservation Park or Resource Reserve. |
| Native title | The legal recognition of some Indigenous people's rights and interests to land and water that comes from their traditional laws and customs under the <i>Native Title Act 1993</i> (Cth); bestows different rights to the holders. In cases where the land was Crown land, it may include the right to possess and occupy an area to the exclusion of others. |
| Natural resource | Resource that occurs naturally, such as sunlight, wind, soil, or water. |
| Naturalness and ecological condition | The apparent naturalness or health/condition of an ecological community, as assessed against the following criteria: Disturbance—described in terms of its cause (natural or human), its degree or severity, its extent and distribution within the community Weed content—description of species abundance, horizontal and vertical distribution of each species Ecological viability—measure of a community's ability to survive in the longer term Ecological health—measure of regeneration, size, structure and number of dead or dying plants within a community Ecological relationships—the sequential relationship of one community to another (e.g. diurnal systems). |

| Term | Definition |
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| Nature Conservation Act 1992 (NC Act) (QId) | Under the NC Act, protected species are assigned a conservation status of 'extinct in the wild', 'endangered', 'vulnerable', 'near threatened', or 'least concern'. Definitions of these terms under the NC Act are as follows: |
| conservation status | Extinct in the wild: |
| 514145 | There have been thorough searches conducted for the wildlife; and |
| | The wildlife has not been seen in the wild over a period that is appropriate for the lifecycle or form of the wildlife. |
| | Endangered: |
| | There have not been thorough searches conducted for the wildlife and the wildlife has not been seen in the wild over a period that is appropriate for the lifecycle or form of the wildlife; or |
| | The habitat or distribution of the wildlife has been reduced to an extent that the wildlife may be in danger of extinction; or |
| | The population size of the wildlife has declined, or is likely to decline, to an extent that the wildlife may be in danger of extinction; or |
| | The survival of the wildlife in the wild is unlikely if a threatening process continues. Vulnerable: |
| | Its population is decreasing because of threatening processes; or |
| | Its population has been seriously depleted, and its protection is not secured; or |
| | Its population while abundant, is at risk because of threatening processes; or Its population is low or localised or depends on limited habitat that is at risk because of threatening processes. |
| | Near threatened: |
| | The population size or distribution of the wildlife is small and may become smaller; or The population size of the wildlife has declined, or is likely to decline, at a rate higher than th usual rate for population changes for the wildlife; or |
| | The survival of the wildlife in the wild is affected to an extent that the wildlife is in danger of becoming vulnerable |
| | Least concern: The wildlife is common or abundant and is likely to survive in the wild. Native wildlife may be prescribed as 'least concern' wildlife even if: |
| | The wildlife is the subject of a threatening process; or |
| | The population size or distribution of the wildlife has declined; or |
| | There is insufficient information about the wildlife to conclude whether the wildlife is common or abundant or likely to survive in the wild. |
| Near threatened | See: Nature Conservation Act 1992 (Old) conservation status. |
| Negative impact | An impact that is considered to result in an unfavourable or adverse change to the receptor. |
| Net present value | The financial worth of a series of cash flows occurring over time, discounted to reflect the total dollar value in today's terms. |
| Night | The period from 10.00 pm to 7.00 am Monday to Saturday and 10.00 pm to 8.00 am Sundays and public holidays. |
| Nitrogen dioxide | An air pollutant, high concentrations of which can contribute to acid rain, eutrophication of watercourses and formation of photochemical smog. |
| Non-bulk freight | Non-bulk freight is generally characterised as any containerised, packaged or other unitised freight, such as: pallets; motor vehicles and trailers; laden transported vehicles and live animals It is generally placed or lifted onto or into transport vehicles or holds. It often involves heterogeneous goods being moved between dispersed locations. Non-bulk freight varies in density, perishability and fragility. |
| Non-remnant vegetation | Vegetation that is not mapped as remnant vegetation by DES and/or that fails to meet DES's criteria for remnant vegetation (refer definition of remnant vegetation, below). This includes regrowth, heavily thinned or logged vegetation and significantly disturbed vegetation that fails to meet the structural and/or floristic characteristics of remnant vegetation. It also includes urban and cropping land. Non-remnant vegetation may retain significant biodiversity values (Neldner e al., 2012). |

| Term | Definition |
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| Notifiable activity | An activity that could potentially result in land contamination. |
| Noxious | Harmful to the environment or ecosystem. |
| Of concern | See: Vegetation Management Act 1999 (QId) conservation status. |
| Oxidation | The addition of oxygen to a compound; entails the loss of an electron. |
| Oxides of nitrogen | Nitric oxide and nitrogen dioxide. |
| Palaeontology | The study of fossils to determine the structure and evolution of extinct animals and plants. |
| Particulate matter | Particles (e.g. dust, vapour) that are introduced or resuspended into the air through certain activities, such as soil cultivation or vehicles operating on open fields or dirt roadways. PM_{10} is particulate matter 10 micrometres or less in diameter. $PM_{2.5}$ is particulate matter 2.5 micrometres or less in diameter; generally described as fine particles. |
| Passive control (level crossings) | Where the movement of vehicular or pedestrian traffic across a railway crossing is controlled using signs or devices that are not activated by the approach or passage of a train, relying on the road user to detect the approach or presence of a train by direct observation. |
| Peak particle velocity | The greatest instantaneous particle velocity during a given time interval. |
| Perched groundwater systems | A locally developed, water saturated body located above the regional water table due to the presence of an underlying layer of low permeability. |
| Percolation | The movement and filtering of fluids through porous materials. |
| Perennial | Lasting or enduring for an indefinite amount of time. A perennial waterway has continuous flow all year round during years of normal rainfall. |
| Perennial watercourse | A watercourse that has continuous flow in parts of its stream bed all year round during years of normal rainfall. |
| Permanent impact | The impact will last indefinitely. |
| Permanent operational disturbance footprint | The areas of the Project that will be permanently and directly impacted by the operation of the rail line and associated facilities. |
| Permeability | The ease with which a fluid can pass through a porous medium and is defined as the volume of fluid discharged from a unit area of an aquifer under unit hydraulic gradient in unit time (metres per day). |
| Permian | Geological period from approximately 300 million years ago to approximately 251 million years ago. The Permian period occurred between the Carboniferous period and Triassic period. |
| Pest | Means any species: Listed as Prohibited or Restricted under the <i>Biosecurity Act 2014</i> (Qld) Declared under local government local laws That may become invasive in the future. |
| Photochemical | Produced by the action of light triggering a chemical process. |
| Photochemical smog | Air pollution formed by chemical reactions that take place in the presence of sunlight between mono-nitrogen oxides and volatile organic compounds, which form ground-level ozone. |
| Pioneer line | Rail lines constructed to a lesser standard than main rail lines, providing access to mainly agricultural areas. |
| Pollution | The introduction into the environment of any substance by the action of humans, which results in significant harmful effects to man or the environment. |
| Possession | A period during which a rail line is blocked to trains to permit work to be carried out on or near the line. |
| Potentiometric surface | A hypothetical surface representing the level to which groundwater would rise if not trapped in a confined aquifer (an aquifer in which the water is under pressure because of an impermeable layer above it that keeps it from seeking its level). The potentiometric surface is equivalent to the water table in an unconfined aquifer. |

| Term | Definition |
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| Practicable | Relates to engineering considerations, what can practically be built (e.g. safety, access, site constraints). |
| Precautionary principle | Common principle of environmental management; where an activity has the potential to threaten or cause serious or irreversible damage to the environment or human health, lack of full scientific certainty should not be used as a reason for postponing cost-effective measures to prevent environmental degradation. |
| Pre-construction | Refer early works. |
| Preferential flow | Movement of groundwater through a pathway of more permeable zones in the subsurface. |
| Primary Approval Document | Term used throughout this EIS process to collectively refer to any of the following: Environmental Impact Statement (New South Wales and Queensland) Review of Environmental Factors (Victoria, New South Wales and Queensland) Environmental Assessment Report (Queensland) Ministerial Planning Scheme Amendment (Victoria) Environmental Effects Statement (Victoria) Documentation prepared for assessment under the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) |
| Primary view zone | Critical part of a view zone of significance to a homestead; part of a view that is within a horizontal arc of 300° either side of the centre line of a view and a vertical arc of 300° above the horizontal; seen with the greatest clarity. |
| Probable maximum flood | The largest flood that could conceivably occur at a particular location, usually estimated from probable maximum precipitation coupled with the worst flood-producing catchment conditions. Generally, it is not physically or economically possible to provide complete protection against this event. The probable maximum flood defines the extent of flood- prone land (i.e. the floodplain). |
| Project | The construction and operation of the Helidon to Calvert Project |
| Project cumulative impact area | The Inland Rail Project cumulative impact area encompasses the Inland Rail Project area and extends 50 km beyond the Project area boundary. |
| Project ecology study area | This includes the H2C Project area plus a nominal 1 km buffer area, wider in some areas where multiple design options required an increased investigation area. |
| Project MNES study area | This includes the H2C Project area plus a nominal 1 km buffer area, wider in some areas where multiple design options required an increase investigation area. |
| Putrescible waste | Refuse or other discarded material that is liable to become putrid or rotten through decay or decomposition. |
| Project works | Project works include early works and pre-construction activities, works described as pre- construction, construction and commissioning works. Project works exclude enabling works. |
| Qualitative | Relating to or concerned with quality or qualities, rather than quantity or measured value. |
| Quantitative | An assessment based on quantities or quantifiable data. |
| Quaternary | The geological time period beginning approximately 2 million to 3 million years ago and extending to present; encompasses the Pleistocene and Holocene time epochs. |
| Rail alignment | The exact positioning of the track, accurately defined both horizontally and vertically, along which the rail vehicles operate. |
| Rail corridor | The corridor within which the rail tracks and associated infrastructure are located. |
| Rail dampers | Elements that are attached to the sides of the rails to improve the rail's ability to absorb and dissipate vibration energy that results from the rolling contact between the wheel and rail. |
| Rail level | The theoretical level of the running surface of the rails. |
| Rail maintenance access road | A road required to facilitate maintenance of critical infrastructure (e.g. turnouts), and to provide access for emergency recovery. |
| Rail pads | Rail pads are plastic or rubber mats that are inserted between the rails and the sleepers. Their purpose is to evenly distribute the load from passing trains onto the sleepers. They can also act to reduce noise and vibration emissions from passing trains. |

| Term | Definition |
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| Ramsar wetland | An area designated as a wetland of international importance under the Ramsar Convention (also known as the Convention on Wetlands of International Importance signed by Australia in 1971) because of its role in preserving biological diversity, or because it is a representative, rare or unique wetland type. |
| Rating background level | The overall background level for each day, evening and night period for the entire length of noise monitoring. |
| Raw water | Untreated water from the environment. |
| Reasonable | Selecting reasonable measures from those that are feasible involves judging whether the overall noise benefits outweigh adverse social, economic and environmental effects, including the cost of the measure. |
| Receptor | That part of the environment that may be the recipient of environmental harm; receptors may include houses, schools, hospitals, surface waters, land, and ecosystems. |
| Recharge | Recharge is defined as the process by which water is added from outside to the zone of saturation of an aquifer, either directly into a formation, or indirectly by way of another formation. |
| Refugial pool | A pool of permanent water contained either within a watercourse, or on the floodplain of a watercourse, that persists when surrounding aquatic habitats become dry. Refugial pools are places where aquatic fauna can persist during dry periods (dry seasons through to droughts) and therefore enable recolonising of other aquatic habitats following rain. |
| Region | A bioregion as defined in <i>An Interim Biographic Regionalisation of Australia</i> (Thackway and Cresswell,1995). The region subject to this report is the southeast QLD bioregion. |
| Regional connecting road | High-order road of a high standard, facilitating connectivity between townships. |
| Regional ecosystem | A vegetation community, within a bioregion, that is consistently associated with a combination of geology, landform and soil (Young et al., 1999). Regional ecosystems may be classified under schedules 1–3 of the <i>Vegetation Management Regulation 2012</i> (Qld) as endangered, of concern or least concern. Refer to <i>Vegetation Management Act 1999</i> (Qld) conservation status for meaning of endangered, of concern and least concern under the Act. |
| Registered groundwater bore | Groundwater bore that is recorded in the (former) Queensland Department of Natural Resources, Mines and Energy now Department of Resources database. |
| Regrowth vegetation | Defined under the <i>Vegetation Management Act 1999</i> (Old) as vegetation that is not remnant vegetation. Refer 'Remnant vegetation'. |
| Regulated waste | Refuse or other discarded material, whether treated or immobilised, listed in Schedule 7 of the <i>Waste Reduction and Recycling Regulation 2011</i> (QLD). |
| Regulatory framework | System of regulations and the means to enforce them, usually established by a government to regulate a specific activity. |
| Rehabilitation | Returning the land to its pre-disturbance state or providing the foundations for the land to return to its pre-disturbance state. |
| Relative humidity | The amount of water vapour in the air relative to the saturation point at a given temperature. |
| Remediation | Removal of pollution or contamination from the environment to restore to health; requires that impact is reduced to some acceptable level. |
| Remnant vegetation | Remnant vegetation means vegetation— (a) that is— (i) an endangered regional ecosystem; or (ii) an of concern regional ecosystem; or (iii) a least concern regional ecosystem; and (b) forming the predominant canopy of the vegetation— (i) covering more than 50% of the undisturbed predominant canopy; and (ii) averaging more than 70% of the vegetation's undisturbed height; and (iii) composed of species characteristic of the vegetation's undisturbed predominant canopy. |
| Reserve (tenure) | Land reserved by the Department of Environment and Heritage Protection for community or public purposes. |
| Residual impact | The effect remaining or left over, following implementation of mitigation measures. |

| Term | Definition |
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| Revegetation | Establishment of suitable plant species to support the agreed post-Project land use and stabilise soils. |
| Riffle zone | An area within a stream that is characterised by shallow water, rocky sediment and fast water flows. |
| Rilling | Type of erosion that removes soil by water from very small but well-defined, visible channels. |
| Riparian | Situated along or near the bank of a waterway. |
| Riparian land | Any land that adjoins, directly influences, or is influenced by a body of water. The body of water can be a creek or stream, a river, a lake or a wetland. |
| River improvement trust asset area | Means an area within a river improvement area declared under the <i>River Improvement Trust Act 1940</i> (Old) that is or has been subject to restoration or flood mitigation works. |
| Riverine | Of or relating to a river. |
| Riverine area | The land confined to the flood-flow channel of a watercourse. |
| Road link | A section of public road, typically referring to a road, excluding intersections. |
| Rollingstock | All rail vehicles operating on the rail lines. |
| Rolling noise | Noise emissions from the rolling of the wheels on the rail. |
| Route | In the context of the Project, primary description of the path that a railway will follow. |
| Rudosol | Soil types with rudimentary pedologic organisation apart from a minimal 'A horizon'. |
| Runoff | All surface and subsurface flow from a catchment, but, in practice, refers to the flow in a river i.e. excludes groundwater not discharged into a river. |
| Rural access road | Low-order road predominantly facilitating access to local land users. |
| Rural connecting road | Lower-order road facilitating connectivity between higher-order roads. |
| Safe working | Signalling system and associated rules that keep trains a safe distance apart. |
| Saline | Presence of salts, in water or spoil, at concentrations greater than 3,000 milligrams of total dissolved solids per litre. |
| Saline water | Water that is generally considered unsuitable for human consumption or for irrigation because of its high content of dissolved solids. |
| Salinity | Refers to the amount of salt present in the soil solution. |
| Sanitation | The treatment and disposal of waste from the human body and grey water generated through household activity. |
| Scarp | A steep slope, ridge or escarpment of rock. |
| Scope 1 emissions | A term used to define greenhouse gas emissions as a direct result of an activity, or series of activities (including ancillary activities) that constitute the facility. Examples of these include: |
| | Manufacturing processes, such as gas emitted while making cement Transportation of materials, products, waste and people, such as a transport company burning diesel oil in its trucks. |
| Sensitive receivers /receptors | Land uses that are sensitive to potential noise, air and visual impacts, such as residential dwellings, schools and hospitals. |
| Sensitivity | The sensitivity of a landscape character area or view and its capacity to absorb change. In the case of visual impact, this also relates to the type of viewer and number of viewers. |
| Shallow groundwater | Groundwater resources not deeper than 100 m. |
| Significantly disturbed land or significant disturbance to land | Means disturbance to land as defined in Section 4 of Schedule 12 of the Environmental Protection Regulation 2008 (Qld). |

| Term | Definition |
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| Significant impact | A significant impact is an impact that is important, notable, or of consequence, having regard to its context or intensity. Whether or not an action is likely to have a significant impact depends on the sensitivity, value, and quality of the environment that is impacted, and on the intensity, duration, magnitude and geographic extent of the impacts. |
| Siltstone | Consolidated silt; fine-grained sedimentary rock. |
| Social impact management plan | Document that details how social impact management strategies will be implemented. |
| Sodic | Of or relating to soils that have a high level of sodium. |
| Sodicity | The amount of sodium present. |
| Soil horizon | One of the series of distinct layers found in a vertical cross-section of any well-developed soil, grouped primarily into O, A, B, and C horizons. |
| Soil profile | Vertical section through all the constituent horizons, or relatively uniform layers, of a soil. |
| Sound | Vibration of the air, usually within the frequency range perceptible to normal human hearing but is (strictly) vibration of air at any frequency. |
| Sound power level | The total sound emitted by a source, measured in logarithmic units. The acronym used for sound power level is SWL and is generally specified in decibels (dB). |
| Sound pressure level | Sound pressure is the measure of the level or loudness of sound. It is measured in logarithmic units. The acronym used for sound pressure level is SPL and is generally specified in decibels (dB). |
| Spatial extent | Impacts are considered with respect to the biologically meaningful spatial extents of local, regional, State, and national/international. |
| Species credit | The class of biodiversity credits created or required for the impact on threatened species that cannot be reliably predicted to use an area of land based on habitat surrogates. Species that require species credits are listed in the threatened species profile database. |
| Spoil | Material generated by construction. |
| Stakeholder | Person or group affected by or concerned with an issue or enterprise. Also see 'affected person'. |
| Standard gauge | Railway track gauge of 1,435 mm; used on ARTC network and for NSW rail system. |
| State forest | Land reserved by a Queensland government department for State forest purposes. |
| State land | Land held by the State of Queensland as Unallocated State Land and other areas vested in the State (or Crown) but not held in Fee Simple or as a lease issued under the <i>Lands Act 1994</i> (Qld). |
| State wildlife corridor | An area identified as a state wildlife corridor on a map certified by the Chief Executive of Queensland Department of Environment and Science for the purposes of the <i>Vegetation</i> <i>Management Act 1999</i> (Qld). |
| State-controlled road | Road declared to be controlled by the Department of Transport and Main Roads, including all AusLink national roads in Queensland. |
| Statutory guideline | A document that provides direction for implementing the intent of legislation. |
| Sterile zone | Potentially hazardous zone to which uncontrolled entry is prohibited and that must be maintained free of combustible material; for example, the areas around the base of a flare stack. |
| Stock route network | The network of facilities established to provide for the movement of livestock on foot between grazing areas and markets. The network includes areas for stock to travel along (often within existing road corridors, adjacent to roadways) and areas for livestock to rest overnight, as well as watering facilities and holding yards. |
| Stockpile | Large supply of essential materials, held in reserve for later use. |
| Strahler stream order | Classification system that gives a waterway an 'order' according to the number of tributaries associated with it. |
| Strata | Single bed of sedimentary rock, generally consisting of one kind of matter representing continuous deposition. |
| Strategic cropping area (SCA) | Lands specifically identified as suitable for cropping as an ongoing land use based on the criteria outlined within the <i>Regional Planning Interests Act 2014</i> (QId). |

| Term | Definition |
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| Stratigraphy | Branch of geology dealing with the classification, nomenclature, correlation and interpretation of stratified rocks. |
| Stream order | A measure of the relative size of a waterway. |
| Structure gauge | Specification for the position of structures such as overhead bridges, tunnels and platforms relative to a railway track, to allow adequate clearance for the passage of trains. |
| Study area | The study area is defined as the wider area including and surrounding the proposal site, with the potential to be directly or indirectly affected by the proposal (for example, by noise and vibration, visual or traffic impacts). The actual size and extent of the study area varies according the nature and requirements of each Impact Assessment Technical Report. Area defined by each of the relevant supporting studies and specific to the particular environmental aspect being considered for the purpose of environmental impact assessment. |
| Subgrade | The soil or rock levelled off to support the foundation of a structure. |
| Subsoil | The B horizon within the soil profile, which lies immediately below the topsoil, or A horizon; it is not enriched or is less enriched with organic material than the topsoil and may be subject to clay or salt accumulation. |
| Sulfur dioxide | Toxic gas found in the emissions of volcanoes and those of burning coal or petroleum; dissolves in water to form sulfurous acid and, in the presence of oxygen, sulfuric acid. |
| Super T girder | A concrete bridge girder that is fully pretensioned, prestressed, and precast, and which incorporates the structural function of a box girder with permanent formwork in the deck. |
| Technical study areas | Some technical assessments used a different study area to the EIS investigation corridor or disturbance footprint depending on the requirements of the environmental value being assessed. |
| Temporary construction disturbance footprint | The areas of the Project that will be directly impacted by the construction of the rail line, lay down areas, borrow pits, and other areas that will only be used during construction and will be rehabilitated prior to operation and will only be used temporarily. |
| Terms of Reference | Written document developed by the regulatory authority (i.e. Queensland Coordinator–General) that provides the minimum expectations for the scope of an environmental impact statement. |
| Terrestrial | Relating to, consisting of, or representing the Earth; relating to the land as distinct from the water. |
| The Air Pollution Model | Three-dimensional prognostic meteorological model used for air pollution modelling developed by the Commonwealth Scientific and Industrial Research Organisation. |
| Threatened | A collective term used with reference to ecological communities, regional ecosystems or species that are critically endangered, endangered, vulnerable or near threatened as listed under the NCA, VMA, EPBC Act. Also see NCA conservation significance, VMA conservation significance and EPBC Act conservation significance for the meaning of 'threatened' under these Acts. |
| Threatened species | Generic term for a plant or animal species listed as critically endangered, endangered, vulnerable or rare under either State or Australian Government threatened species legislation. The terms 'threatened' and 'conservation significant' are interchangeable in this context. |
| Threatening process | Processes that threaten, or have the capability to threaten, the survival or evolutionary development of species, populations, or ecological communities. According to the EPBC Act, a process can be listed as a key threatening process if it threatens, may threaten the survival, abundance or evolutionary development of a native species or ecological community. Such processes can be listed as a threatening process if it can: |
| | Cause a native species or ecological community to become eligible for inclusion in a threatened list (other than the conservation dependent category) Cause an already listed threatened species or threatened ecological community to become more endangered Adversely affect two or more listed threatened species or threatened ecological communities. |
| Topsoil | Usually referred to as the A-horizon and typically has the highest concentration of organic matter and microorganisms. |
| Track | The structure consisting of the rails, fasteners, sleepers and ballast, points and crossings which sits on the formation. |

| Term | Definition |
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| Track formation | Refer to the definition of formation. |
| Train Control System | Communication-based safe working system currently being developed by ARTC. |
| Triassic | The geological time period extending from ~250 million to ~200 million years ago. It is the earliest period of the Mesozoic era and occurred between the Permian and Jurassic periods. |
| Tributaries | A tributary is a stream or river which flows into another river (a parent river) or body of water but which does not flow directly into the sea. |
| Trigger level | The point at which some form of action is begun, such as exceedance of guidelines. |
| Turbid | Opaque or muddy liquid with particles of extraneous matter. |
| Turnout | A combination of a set of points, V crossing and guard rails which permits traffic to turnout from one track to another. |
| Unconfined aquifer | An aquifer with no confining layer between the water table and the ground surface where the water table is free to fluctuate. |
| Unconsolidated aquifer | Strata such as sand that has not been turned into rock. |
| Value added | The difference between the sale price and the production cost of a good or service. |
| <i>Vegetation Management Act 1999 (</i> QId) conservation | Under the Vegetation Management Act 1999 (QId) (VM Act), regional ecosystems are assigned a conservation status of endangered, of concern and least concern/no concern present. Definitions of these terms under the Act are as follows. Endangered |
| status | A regional ecosystem is listed as 'endangered' under the VM Act if: |
| | Remnant vegetation is less than 10 per cent of its pre-clearing extent across the bioregion, or Between 10 30 per cent of its pre-clearing extent remains and the remnant vegetation is less than 10,000 hectares. |
| | For biodiversity planning purposes a regional ecosystem is listed with a Biodiversity Status of 'endangered' if: |
| | Less than 10 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss, or Between 10–30 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000 hectares, or It is a rare regional ecosystem subject to a threatening process. |
| | Of concern |
| | A regional ecosystem is listed as 'of concern' under VM Act if: Remnant vegetation is 10–30 per cent of its pre-clearing extent across the bioregion or More than 30 per cent of its pre-clearing extent remains and the remnant extent is less than 10,000 hectares. |
| | In addition to the criteria listed for an 'of concern' regional ecosystem under the <i>Vegetation</i> <i>Management Act 1999</i> (QId), for biodiversity planning purposes a regional ecosystem is listed with a Biodiversity Status 'of concern' if: |
| | Between 10–30 per cent of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity loss. |
| | Least concern/no concern present A regional ecosystem is listed as 'least concern' under the VM Act if: |
| | Remnant vegetation is over 30 per cent of its pre-clearing extent across the bioregion, and the remnant area is greater than 10,000 hectares. |
| | For biodiversity planning purposes a regional ecosystem is listed with a biodiversity status of 'no concern at present' if: |
| | The degradation criteria listed above for 'endangered' or 'of concern' regional ecosystems are not met. |
| Vehicle kilometres travelled | Measure of traffic demand calculated as the length of a section of road in kilometres multiplied by the annual average daily traffic on it. The yearly vehicle kilometres travelled is the daily vehicle kilometres travelled multiplied by the number of days in that year. |
| Velocity | The speed at which an object, particulate or mass is moving. |

| Term | Definition |
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| Veneering | The application of a biodegradable, non-toxic binding agent onto the loaded wagon coal surface. The veneer forms a crust over the coal load and minimises coal dust lift-off when exposed to air passing over the surface in transit. |
| Vertosol | Soil type that is clayey and cracks when dry; its alternate shrinking and swelling produces gilgais. |
| View | The visual experience from the viewer's perspective. |
| Viewshed | Area frequently bounded by a ridge of land that defines the extent that is visible within the human field of view from a fixed vantage point. Synonymous with 'visual envelope' and typically represents the limit of the zone of theoretical visibility. |
| Visual amenity | The value of an 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 character unit | Areas of landscape that have similar topographic, vegetation and land use features that create areas of similar visual character. |
| Visual effect | A measure of the visual interaction between the Project and the landscape setting within which it is located. |
| Visual impact | A measure of a joint consideration of both visual sensitivity and visual effect that considered together determines the visual impact of a development. |
| Visual sensitivity | Degree to which a change to the landscape will be perceived in an adverse way. |
| VM Act conservation status | Under the Vegetation Management Act 1999 (QId) (VM Act), regional ecosystems are assigned a conservation status of endangered, of concern and least concern/no concern present. Definitions of these terms under the Act are as follows. Endangered: A regional ecosystem is listed as 'endangered' under the VM Act if: Remnant vegetation is less than 10 per cent of its pre-clearing extent across the bioregion; or Between 10–30 per cent of its pre-clearing extent remains and the remnant vegetation is less than 10,000 hectares. |
| | For biodiversity planning purposes a regional ecosystem is listed with a biodiversity status of 'endangered' if: Less than 10 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss; or Between 10-30 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000 hectares; or It is a rare regional ecosystem subject to a threatening process. |
| | Of concern: A regional ecosystem is listed as 'of concern' under VM Act if: Remnant vegetation is 10–30 per cent of its pre-clearing extent across the bioregion; or More than 30 per cent of its pre-clearing extent remains and the remnant extent is less than 10,000 hectares. In addition to the criteria listed for an 'of concern' regional ecosystem under the <i>Vegetation Management Act 1999</i> (Old), for biodiversity planning purposes a regional ecosystem is listed with a biodiversity status 'of concern' if: Between 10–30 per cent of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity loss. Least concern/no concern present: A regional ecosystem is listed as 'least concern' under the VM Act if: Remnant vegetation is over 30 per cent of its pre-clearing extent across the bioregion, and the remnant area is greater than 10,000 hectares. For biodiversity planning purposes a regional ecosystem is listed with a biodiversity status of 'no concern at present' if: The degradation criteria listed above for 'endangered' or 'of concern' regional ecosystems are |
| Volatile organic | Any organic compound that participates in atmospheric photochemical reactions. |
| compound | |

| Term | Definition |
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| Vulnerability | The extent to which a system, asset or organisation can cope with the negative impacts of climate change, variability and extremes. It is a function of risk and adaptive capacity. |
| Vulnerable | Designated as vulnerable under the Environment Protection and Biodiversity Conservation Act 1999 (Cth) and/or Nature Conservation Act 1992 (Qld). Refer to Environment Protection and Biodiversity Conservation Act 1999 conservation status and Nature Conservation Act 1992 (Qld) conservation status for meaning of 'vulnerable' under these Acts. |
| Waste | Waste is defined by the EP Act as any matter (whether liquid, solid, gaseous or radioactive) that is discharged, emitted or deposited in the environment in such volume, constituency, or manner as to cause an alteration to the environment. |
| Waste management hierarchy | The waste management hierarchy is a set of priorities for the efficient use of resources, which underpins the objectives of the <i>Waste Reduction and Recycling Act 2011</i> (QId). The waste management hierarchy progresses from avoidance (most preferred), to re-use/recycling, to disposal (least preferred). |
| Water management facility | The collective term to refer to the major infrastructure components involved in water storage and treatment. |
| Water resource | Water, or the rights or other claims to water, which the water report entity either holds, or for which the water report entity has management responsibilities, and from which an individual or organisation that is a water report entity, or a group of stakeholders of a physical water report entity, derives future benefits (as defined in <i>Exposure Draft of Australian Water Accounting Standard 1</i> (Water Accounting Standards Board, 2010). |
| Water table | The surface in an unconfined aquifer or confining bed at which the pore water pressure is atmospheric; it can be measured by installing shallow wells extending a few feet into the zone of saturation and then measuring the water level in those wells. |
| Watercourse | A river, creek, or other stream, including a stream in the form of an anabranch or a tributary, in which water flows permanently or intermittently, regardless of the frequency of flow events: In a natural channel, whether artificially modified or not In an artificial channel that has changed the course of the stream It also includes weirs, lakes and dams. |
| Waterlogging | The saturation of soil by soil water. |
| Watershed | Drainage basin. |
| Waterway | A flow path that may operate during times of surface runoff. Generally, the flow path will have a defined cross-sectional shape. |
| Weeds | Plant species that invade native ecosystems and can adversely affect the survival of Indigenous flora and fauna, often competing with Indigenous plants for resources such as nutrients, moisture and light. They can prevent natural regeneration, reduce wildlife habitat, alter water flows, increase soil erosion, introduce poisons into the soil or poison animals, change fire behaviour and may introduce foreign genes into local plant populations. Weed species are not necessarily exotic non-Indigenous species but can also be non-endemic natives that are naturalised to areas outside of their natural distribution. |
| Weeds of National Environmental Significance (WoNS) | Thirty-two (32) species of weeds are declared to be weeds of national significance, based on their invasiveness, potential for spread and environmental, social and economic impacts. The State Government is responsible for the legislation and administration of WoNS in Queensland and landowners are responsible for managing WoNS. The Australian Weeds Strategy provides a framework for establishing consistency between all stakeholders and identifies priorities for national weed management with the aim of minimising the environmental, social and economic impacts of weeds. A National Management Group has been established for each of the WoNS to manage the implementation of the respective National Strategic Plans. |
| Well-wagon | A wagon where the central loading deck is lower than the bogies at either end, to allow higher loads to be carried within the loading gauge. |

| Term | Definition |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wetland | Areas shown as a wetland on the <i>Map of Queensland Wetland environmental values</i> , which is a document made by the Chief Executive and published on the department's website |
| | Wetlands as defined under the <i>Queensland Wetlands Strategy</i> as 'areas of permanent or periodic/intermittent inundation, with water that is static or flowing <i>fresh</i> , <i>brackish or salt</i> , <i>including areas of marine water</i> , <i>the depth of which at low tide does not exceed 6 m</i> ', and possess one or more of the following attributes: |
| | At least periodically, the land supports plants or animals that are adapted to and dependent on living in wet conditions for at least part of their lifecycle; or |
| | The substratum is predominantly undrained soils that are saturated, flooded or ponded long enough to develop anaerobic conditions in the upper layers; or |
| | The substratum is not soil and is saturated with water, or covered by water, at some time. |
| Wetland of high ecological significance | Otherwise known as a 'high conservation value wetland', is a wetland that meets the definition of a wetland (above) and that is shown as a wetland of high ecological significance or high conservation value wetland on the <i>Map of Referable Wetlands</i> . |
| Wildlife corridor | Habitat linked to other habitats (often remnant patches) to allow natural migration or movement of wildlife. |
| Z-Weighted | 'Flat' or 'un-weighted' sound pressure levels designated as dB(Z) or dBZ. |