

Glossary of Terms

$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
AADT	Average Annual Daily Traffic
aaSIDRA software	A computer analysis package that is a widely accepted tool for specifically assessing the operation of intersections.
AASS	Actual Acid Sulphate Soils
AAWT	Annual average weekday traffic
Aboriginal Cultural Heritage	Aboriginal cultural heritage is anything that is: <ul style="list-style-type: none"> • a significant Aboriginal area in Queensland; or • a significant Aboriginal object; or • evidence of archaeological or historic significance, of Aboriginal occupation of an area of Queensland.
ABS	Australian Bureau of Statistics
Acoustic barriers	A barrier designed to reduce the noise impacts of an activity on nearby sensitive areas
AEP	Average Exceedance Probability flood event
AHD	Australian Height Datum
AL	Airport Link
Airshed	Lower atmosphere within a defined geographic region
Ambient	The background level at a specified location, being a composite of all sources. Examples include noise and air pollutants.
Amenity	A feature that increases attractiveness or value, especially of a piece of real estate or a geographic location.
Anaerobic	Anaerobic is a technical word, which literally means <i>without air</i> , as opposed to aerobic. The presence or absence of air, or more precisely the presence or absence of oxygen in the air, affects various chemical and biological reactions.
ANZECC	Australia and New Zealand Environment Conservation Council
AADT	Annualised Average Daily Traffic
ARI	Average Recurrence Interval (hydrology)
ASS	Acid Sulphate Soil is soil or sediment containing highly acidic soil horizons or layers affected by the oxidation of iron sulphides (actual acid sulphate soils) and/or soil or sediment containing iron sulphides or other sulphidic material that has not been exposed to air and oxidised (potential acid sulphate soils). The term generally includes both actual and potential acid sulphate soils. Actual and potential acid sulphate soils are often found in the same soil profile, with actual acid sulphate soils generally overlying potential acid sulphate soil horizons.
ATS	Australasian Traffic Surveys
Australia TradeCoast (ATC)	A joint marketing initiative by the Queensland Department of State Development, Brisbane Airport Corporation, Port of Brisbane Corporation and Brisbane City Council. A primary purpose of the Australia TradeCoast is to market the 2,200 ha of vacant land north and south of the Brisbane River for general and transport-related industry purposes.
Australia TradeCoast North (ATC North)	The area north of the Brisbane River and bounded by the Gateway Motorway and Nudgee Road to the east. ATC North includes the Brisbane Airport and associated developments, Hamilton Lands, Eagle Farm, Pinkenba, Myrtleown and the proposed TradeCoast Central.
AUSPLUME	A Gaussian air quality modelling system.
AWDT	Average Weekday Traffic Volumes
A-weighted sound pressure level	A noise level measurement relative to the threshold of human hearing, measured in dB(A)
BAC	Brisbane Airport Corporation

BAQS	Brisbane Air Quality Strategy
BCC	Brisbane City Council
BCR	Benefit Cost Ratio
B-Double	A long articulated heavy vehicle.
BL	Bus Lane
BLISS	Brisbane Linked Intersection Signal System
BLTIP	Brisbane Long Term Infrastructure Plan
BPA	Biodiversity Planning Assessment (EPA)
BRAT	Bus Rail Assessment Tool
Breccia	A type of rock similar to conglomerate but made of sharp, broken clasts cemented together.
Brecciated zone	A zone consisting of angular fragments cemented together; resembling breccia in appearance.
Brisbane City Plan 2000	The Brisbane City Plan 2000 is the Council's planning scheme. It describes the Council's intentions and outcomes for Brisbane city's future development.
Brisbane Metropolitan Area	Brisbane and the surrounding area extending to Caboolture in the north, Beenleigh in the south, Ipswich in the west and Redland Shire in the east. Also known as the Brisbane Statistical Division (BSD).
Brisbane Strategic Transport Model (BSTM)	A computerised, calibrated transport planning model that forecasts travel demand and traffic flows based on demographic and land use parameters and transport network characteristics.
Brisbane Tuff	'Welded' rock formation formed in the Brisbane area through volcanic activity in the Triassic period, comprised of rhyolitic ignimbrite and minor air-fall tuff, conglomerate, breccia, and volcano lithic arenite.
BSD	Brisbane Statistical Division
Bunya Phyllite	Phyllite is a type of metamorphic rock primarily composed of quartz, sericite mica, and chlorite; the rock is intermediate in grade between slate and mica schist.
BUC	Brisbane Urban Corridor
Busway	A busway provides a high level of service characterised by bus stations and dedicated right of way for buses.
CALMET	An air quality modelling system.
CALPUFF	An advanced computer-based dispersion model that simulates the dispersion of emissions by representing emissions as a series of puffs emitted sequentially.
CAPEX	Capital Expenditure, referring to money spent to acquire or upgrade physical assets such as buildings and machinery.
CAPI	Computer Aided Personal Interview
CBA	Cost Benefit Analysis
CBD	Central Business District
CCTV	Closed Circuit Television
CCV	Council Controlled Vegetation
CEMP	Construction Environmental Management Plan
Central Brisbane	The zone of extensively commercial and other activity in the centre of Brisbane, for this study designated as coinciding with City, Fortitude Valley, New Farm, Newstead, Spring Hill and Bowen Hills south. This area includes the Central Business District (CBD).
CHL	Commonwealth Heritage List
CHMP	Cultural Heritage Management Plan
CLEM7	Clem Jones Tunnel (formerly known as the North-South Bypass Tunnel)
CLG	Community Liaison Group
CLR	Contaminated Land Register

CO	Carbon Monoxide
Commercial Vehicle (CV)	Medium or heavy commercial vehicle commonly referred to as a truck, and specifically equivalent to an AustRoads Class 3 to Class 12 vehicle.
Coordinator-General	The corporation sole constituted under the <i>State Development and Public Works Organisation Act 1938</i> and preserved, continued in existence and constituted under the <i>State Development and Public Works Organisation Act 1971</i> .
CoRTN	Calculation of Road Traffic Noise CoRTN is a recommended road prediction technique in Main Roads' Code of Practice and has been the primary validated road traffic noise model used in Australia for many years.
CPI	Consumer Price Index
CPTED	Crime Prevention through Environmental Design
Cost Skims	The process within the Northern Link Traffic model to extract travel costs (in terms of time, distance and toll) from each zone to every other zone.
CSIS	City Shape Implementation Strategy
CTMP	Construction Traffic Management Plan
Cumulative impacts	The combined impact on the environment from the successive effects of a number of different projects or activities.
Cut and cover	A method of tunnelling. Construction is from ground surface down forming a trench. The trench is 'lidded' after construction.
Cycle Time	The time taken for one complete sequence of signal phases at an intersection.
Dangerous goods	Goods defined under the Australian Dangerous Goods Code as either dangerous goods or too dangerous to be transported.
dBA	Decibel
DDA	Disability Discrimination Act 1992 (Cth)
DECC	Department of Environment and Climate Change
Degree of Saturation (X value)	This is the calculated ratio between the demand flow rate and the capacity for each movement. When the maximum X value for any movement is above 95% then the intersection is regarded as over saturated or operating above its practical capacity. This means that it will take more than one cycle of the signals to progress through the intersection. X values above 1.0 typically indicate that several movements will fall within this category.
Deluge system	The purpose of a deluge system is to wet down all at once an entire area in which a fire may originate, by admitting water to open sprinklers and nozzles, rather than by using automatic sprinklers that would open independently as the fire spreads. These systems are designed primarily for special hazards where it is desirable to apply water to a fire more quickly and simultaneously over a larger area than with standard systems where sprinklers open individually.
Demography	The statistical study of human populations especially with reference to size and density, distribution, and vital statistics.
Design life	The time before first major maintenance
DGAC	Dense Graded Asphaltic Concrete
Diurnal bird survey	Survey on birds that are active during the daytime and sleep during the night. Animals that are not diurnal are either nocturnal (active at night) or crepuscular (active primarily during twilight). Many animal species are diurnal, including many mammals and birds.
DMR	Queensland Department of Main Roads
DNRW	The Queensland Department of Natural Resources and Water
DOS	Degree of Saturation
DPIF	Queensland Department of Primary Industries and Fisheries

Drawdown	Two distinct meanings include: <ul style="list-style-type: none"> • Drawdown (hydrology), a lowering of a reservoir or a change in hydraulic head in an aquifer, typically due to pumping a well. • Drawdown (economics), unrealised losses in economics.
E/B	East bound
Ecosystem	A dynamic complex of plant, animal, fungal and micrograms communities and associated non-living environment interacting as an ecological unit to form a recognisable self-contained entity.
EIS	Environmental Impact Statement
EHMP	Environmental Health Monitoring Program
Elasticity	The ratio of the incremental percentage change in one variable with respect to an incremental percentage change in another variable; for example, change in demand with cTange in toll.
EMME/2	A software transport-modelling package that is used widely for travel demand forecasting both in Australia and internationally.
EMP	Environmental Management Plan
EMR	Environmental Management Register
EPA	Queensland Environmental Protection Agency
EPAR	Environmental Protection Regulation
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Cth)
EPBM	Earth pressure balance (tunnel boring) machine
EPP	Environmental Protection Policy
ESD	Ecologically Sustainable Development
ESP	Electrostatic Precipitator - Filtration technology which removes particulates by applying electric charge to them as they pass through an electric field and then collect them on a series of oppositely charged metallic plates.
E-toll	Electronic tolling
EV	Environmental Values
EVRs	Endangered, vulnerable or rare species - A broad term used to describe species listed as rare or threatened under the Queensland Nature Conservation (Wildlife) Regulation 2006 and/or the Commonwealth Environment Protection and Biodiversity Conservation Act 1999. EVR includes those species listed under the categories of Critically Endangered, Endangered, Vulnerable, Rare, Near Threatened or Conservation Dependent.
Fast Diamond	Intersection at which traffic from opposite directions is able to make right hand turns at the same time whilst having only one set of traffic lights
F&C	Flammable and Combustible Liquids
Finial	The finial is an architectural device, typically carved in stone and employed to decoratively emphasise the apex of a gable, or any of various distinctive ornaments at the top, end, or corner of a building or structure.
Fissures	A narrow opening or crack of considerable length and depth usually occurring from some breaking or parting.
Gallery rainforest	Fringing rainforest on the edge of creeks
Gambrel	A ridged roof with two slopes on either side, the lower slope having the steeper pitch.
GIS	Geographic Information Systems
Groundwater aquifer	An underground bed or layer of earth, gravel, or porous stone that yields water.
GST	Goods and Services Tax
GUP	Gateway Upgrade Project
HerbreCs database	HerbreCs database description: Oracle relational database including taxon names and specimen data run by Queensland Environmental Protection Agency

Heritage	Places, objects and indigenous languages that have aesthetic, architectural, historical, scientific, technological or social significance of other special value for future generations as well as for the community today.
High Occupancy Vehicle (HOV)	Vehicle carrying more than one occupant (generally two or more occupants), taxis or motorbike.
IAS or Initial Advice Statement	A report containing a brief, preliminary evaluation of the types of impacts that would result from an action. Often use as a screening process to assess whether proposals should undergo an EIS under the <i>State Development and Public Works Organisation Act 1971</i> .
ICB	Inner City Bypass
IDAS	Integrated Development Assessment System
ICOMOS	International Council of Monuments and Sites
Ignimbrite	Buff to dark brown compact rock with parallel streaks or lenticles of black gas, formed through volcanic activity.
INB	Inner Northern Busway
Inbound lane	Road lane travelling toward the CBD
Induced Traffic Demand	The responses of the travelling public to improvements in network connectivity or reduced congestion. This can result in increased vehicle kilometres on the road network.
Inner West Transport Study Area	A study specific area encompassing suburbs to the west of the CBD where local effects of the project require consideration. It includes the suburbs of Milton, Paddington, Auchenflower, Bardon, Toowong, Taringa, Indooroopilly and St Lucia. The boundaries of this area coincide with zones of the BSTM
Integrated ticketing	One ticket than can be used on multiple public transport modes.
IPA	Integrated Planning Act 1997 (Qld)
ISD	Intersection Data Sheets
JV	Joint Venture
KGUV	Kelvin Grove Urban Village
Km/h	Kilometres per hour
Level of Service (LOS)	Traffic conditions as perceived by drivers. A key measure of the performance of the road network, it can be measured at a mid-block point or at an intersection.
LGA	Local Government Area
LGMS	Local growth management strategy
Liveability	A measure of social amenity, health and well-being.
LOS	Level of Service
Major Activity Centre	Major activity centres accommodate key district concentrations of employment, services, limited comparison and major convenience retail.
MIC	Maximum Instantaneous Charge
MIKEFLOOD	Finite difference numerical model MODFLOW, developed by the United States Geological Survey
MIPO	Brisbane City Council's Major Infrastructure Project Office
mg/m³	milligrams per cubic metre
Morphology	Form and structure of an organism or any of its parts
NALL	Natural Asset Local Law
NAPSP	Natural Assets Planning Scheme Policy (Brisbane City Council)
NATA	National Association of Testing Authorities
N/B	North Bound
NB	Northern Busway
NC Act	Nature Conservation Act
NEPC	National Environment Protection Council of Australia

NES	National Environmental Significance
Network volume difference plots	Identify the increase or decrease in total vehicles on each link of a road network as the result of a new road project
NGTSM	National Guidelines for Transport System Management
NHL	National Heritage List
NHMRC	National Health and Medical Research Council
NIAPSP	Noise Impact Assessment Planning Scheme Policy (Brisbane City Council)
NIEIR	National Institute of Economic and Industry Research
NO₂	Nitrogen dioxide
Notifiable Activities	An activity that has been identified as potentially contaminating activity under Schedule 3 of the <i>Environmental Protection Act 1994</i> .
NO_x	Nitrogen oxides or oxides of nitrogen
NPV	Net present value
NSBT	North-South Bypass Tunnel
NWQMS	National Water Quality Management Strategy
O₃	Ozone
OGAC	Open Graded Asphaltic Concrete
OPEX	Operational Expenditure; refers to the on-going costs for running a product, business, or system.
Orbital or ring road network	Part of the overall road system that allows people to travel around rather than through a city centre.
OUM	Office of Urban Management
Outbound lane	Road lane travelling away from the CBD
PA Hospital	Princess Alexandra Hospital
PASS	Potential Acid Sulphate Soils, defined by the Queensland Government as soil or sediment containing iron sulphides or sulphidic material, that have not been exposed to air and oxidised. The field pH of these soils in their undisturbed state is pH 4 or more, and may be neutral or slightly alkaline.
PDR	Project Definition Report
PEM	Land Transport New Zealand Project Evaluation Manual
pH	Measure of acidity
PIARC	Permanent International Association of Road Congress
PIFU	Population Information and Forecasting Unit
PM_{2.5}	Particulate matter with equivalent aerodynamic diameter less than 2.5 µm
PM₁₀	Particulate matter with equivalent aerodynamic diameter less than 10 µm
PMCS	Plant Monitoring and Control System
PMF	Probable Maximum Flood
ppb	parts per billion
ppm	parts per million
PPP Co	Public-Private Partnership Company Company established to build the project and operate the tollway.
PPV	Peak Particle Velocity
Principal Activity Centre	Principal activity centres accommodate key concentrations of employment, business, major comparison and convenience retail, government regional offices, regional health, education, cultural and entertainment facilities.
Priority Intersection	Un-signalised intersection
PSC	Pre-stressed concrete
PSC	Public Sector Comparator

Putrescible Waste	Also known as Mixed Waste (with food). This is normal garbage from households and commercial premises.
PT	Public Transport
Pyrite	The mineral pyrite, or iron pyrite, is iron disulphide, FeS ₂ . It has isometric crystals that usually appear as cubes. The cube faces may be striated (parallel lines on crystal surface or cleavage face) as a result of alternation of the cube and pyritohedron faces. Also known as fool's gold.
QASSIT Guidelines	Queensland Acid Sulfate Soils Investigation Team Guidelines
QDMR	Queensland Department of Main Roads
QHR	Queensland Heritage Register
QLD	Queensland
QR	Queensland Rail
QT	Queensland Transport
QUT	Queensland University of Technology
Radial road network	Road network which appears to radiate from a point, usually the central business district.
RAFTS	Software package for modelling flood potential.
RAPID	Real Time Advanced Priority and Information Delivery information systems
Rat running	The use of the local roads by extraneous through traffic. The implementation of local area traffic management, including entry thresholds and traffic calming methods is often used to mitigate the impact of potential through traffic use of local roads.
RB&WH	Royal Brisbane and Women's Hospital
RE	Regional Ecosystems
Receiving environments	The environment into which particular materials (solids, liquids or gases) are emitted.
Regenerated noise	Sometimes also referred to as 'structure-borne' or 'ground-borne' noise. Regenerated noise results from ground-borne vibration (from, for example, construction activities) and may be transmitted into building structures, causing vibration of floor slabs and other heavy structures, and hence re-radiating noise into internal spaces.
Remnant vegetation	All intact and predominantly intact vegetation communities, excluding young regrowth.
Riparian vegetation	Riparian vegetation is vegetation on land that adjoins, directly influences or is influenced by, a body of water.
Riparian zone	The biologically distinct area adjoining a watercourse.
RMS	Root Mean Squared
RNA	National Agricultural and Industrial Association of Queensland
RNE	Register of the National Estate
Roadheader	Type of tunnelling machine
Road Hierarchy	The classification of roads into major and minor routes to safely and efficiently manage the movement of people and goods while maintaining the liveability of urban areas. Council's Transport Plan and the BSTM use a six level hierarchy.
RP	Revealed Preference
RTA	New South Wales Road and Traffic Authority
Rhyolitic tuff	Rhyolite is a volcanic (extrusive) rock, of felsic (acidic) composition (>69% SiO ₂). It may have any texture from aphanitic to porphyritic. The mineral assemblage is usually quartz, alkali feldspar and plagioclase (in a ratio > 1:2). Biotite and pyroxene are common accessory minerals. Tuff (from the Italian 'tufo') is a type of rock consisting of consolidated volcanic ash ejected from vents during a volcanic eruption. (Note that <i>tuff</i> is a type of rock entirely different from <i>tufa</i>).

Sag point	A low point of a system
S/B	South bound
SCIP	Suburban Centre Improvement Program
Screen lines	Screen lines are locations (eg: western, central, eastern, northern) referred to when forecasting traffic growth volumes
SDPWO Act	State Development and Public Works Organisation Act, 1971
SEIFA Index	Social And Economic Index For Areas Index
SEB	South-East Busway
Select link plots	Highlight the distribution of origin and destinations of users of a particular road link selected for examination.
SEQ	South East Queensland: The geographical region comprising the local government areas of Beaudesert, Boonah, Brisbane, Caboolture, Caloundra, Esk, Gatton, Gold Coast, Ipswich, Kilcoy, Laidley, Logan, Maroochy, Noosa, Pine Rivers, Redcliffe, Redland and Toowoomba.
SEQIPP	South East Queensland Infrastructure Plan and Program
SEQRP	South East Queensland Regional Plan, produced by the Queensland Government's Office of Urban Management
SEQRAQS	South East Queensland Regional Air Quality Strategy
SEQTS	South East Queensland Travel Surveys
Signal Phase	A phase is the part of a signal cycle which commences at the start of the green time for a specific pattern of traffic movement and ends at the start of the green time for another specific pattern of traffic movement, of which some individual movements may be common to both traffic movement patterns. Signal Phasing is the complete sequence of these patterns which apply in a repeating cycle at a specific intersection.
SLT	Significant Landscape Trees
SMA	Stone Matic Asphalt
SMP	Site Management Plan
SNV	Significant Native Vegetation
SO₂	Sulphur dioxide
Social sustainability	Social sustainability refers to a community's ability to support community well-being over time, and is dependent on the maintenance of equity, community values and healthy environments.
Specialist Activity Centre	Specialist activity centres have a primary non-retail or commercial function, such as specialised economic activity, employment and/or education
SP	Stated Preference
Spoil	Soil or rock removed from the construction works
SQIDs	Stormwater Quality Improvement Devices
Stakeholders	Groups, companies or individuals who may be potentially affected, or have a particular interest in a proposal. Stakeholders may include local residents, government agencies, Aboriginal groups/ Land Councils/ Council of Elders, local businesses, relevant business and industry groups, community groups, potential competitors, and politicians/ elected representatives.
STOB	Strategic Transport Opportunities for Brisbane, Brisbane City Council, 2000
Sump	Pit at the lowest point in a circulating or drainage system.
SVOC	Semi-Volatile Organic Compounds
T3	Transit lane for motor vehicle with three occupants
TBM	Tunnel Boring Machine
Tin and Timber	Colloquial term describing the traditional Queensland vernacular housing style. Refers to the widespread use of timber cladding and corrugated iron roofing, which characterises much of South East Queensland's housing stock.

TOD	Transit Oriented Development; refers to integration of mass transit and land use through planning strategies aimed at encouraging a mix of uses and higher residential densities around transport nodes such as railway stations.
ToR	Terms of Reference for the Northern Link Environmental Impact Statement dated April 2008.
TPCS	Tunnel Portal Cover Shed
TransApex	Brisbane City Council's proposed tri-axis based framework of strategic road connections that would allow Brisbane's cross-city travel movements to bypass the CBD and inner suburbs.
Transponder	A transponder is a wireless communications, monitoring, or control device that picks up and automatically responds to an incoming signal, and is used for electronic tolling.
Trip	A one-way journey by an individual using one or many transport modes.
TSP	Total Suspended Particulate Matter
UPS	Uninterruptible Power Supply
UQASU	University of Queensland Archaeological Services Unit
Urban renewal	A process of revitalising a locality or area. Over time, urban renewal has evolved into a policy based less on destruction and more on renovation and investment, and today is an integral part of many local governments, often combined with small and big business incentives.
UXO	Unexploded Ordnance
VHT	Vehicle Hours Travelled
Viaducts	A viaduct is bridge composed of several small spans. The term <i>viaduct</i> is derived from the Latin <i>via</i> for road and <i>ductus</i> to conduct something.
Vitiated Air	The output from ventilation outlets consisting of a combination of ambient air and air produced in tunnels from vehicles.
VKT	Vehicle Kilometres Travelled
VM Act	Vegetation Management Act 1999
VMS	Variable Message System
VOC	Vehicle Operating Costs
Volumetric title	A three-dimensional space above or below a surface which is owned by a property title holder. For the purposes of Northern Link, a volumetric title refers to the subsurface three-dimensional title.
VPH	Vehicles per hour
VPOs	Vegetation Protection Orders
VUV	Valued Urban Vegetation
VWP	Vibrating wire piezometers
WAV	Waterway Vegetation
W/B	West Bound
WBTNI	Western Brisbane Transport Network Investigation
WebBASX	The Brisbane City Council database containing geographical data
Western Corridor	Growth corridor identified in the SEQRP comprising the land from Wacol through Ipswich to Amberley and including Ebenezer, Swanbank, Ripley Valley and Springfield.
WEV	Wetland Vegetation
WHO	World Health Organisation
WMP	Waste Management Plan
WQOs	Water Quality Objectives