

# Acronyms and Glossary

## Acronyms

ACRONYM	FULL NAME/TITLE
AAPA	Aboriginal Areas Protection Authority
AAQ	Ambient Air Quality
AHD	Australian Height Datum
ALA	Atlas of Living Australia
ALARP	As Low as Reasonably Practicable
ALDD	Australian Land Disturbance Database
ALRA	Aboriginal Land Rights Act 1976
ANE	Air Noise Environment
ANZECC	Australian and New Zealand Environment and Conservation Council
APIA	Australian Pipeline Industry Association
AQMP	Air Quality Management Plan
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
ARTC	Australian Rail Track Corporation
AS	Australian Standard
ASS	Acid Sulphate Soils
ATSIC	Aboriginal and Torres Strait Islander Commission
BFV	Barmah Forest Virus – a mosquito-borne disease
BoM	Bureau of Meteorology
BVG	Broad vegetation groups
CBD	Central business district
CDEP	Community Development Employment Program
CEMP	Construction Environment Management Plan
CHMP	Cultural Heritage Management Plan
CNG	Compressed Natural Gas
CP	Cathodic Protection
CSEP	Communication Stakeholder Engagement Plan
DAC	Dhimurru Aboriginal Corporation
dB	Decibel
DCCEE	Department of Climate Change and Energy Efficiency
DD	Data deficient
DLRM	Department of Land Resource Management (NT)
DoB	Department of Business (NT)
DoD	Department of Defence (Commonwealth)
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities (Commonwealth)
DWT	Deadweight Tonnage
EA Act	<i>Environmental Assessment Act</i> (Northern Territory)

ACRONYM	FULL NAME/TITLE
EEO	Energy Efficiency Opportunities
EHS	Environment Health Safety
EIS	Environmental Impact Statement
ELA	Eco Logical Australia
EMP	Environmental Management Plan
EMS	Emergency Management System
EP Act	<i>Energy Pipelines Act</i> (Northern Territory)
EPBC Act	<i>Environmental Protection and Biodiversity Conservation Act</i> (Commonwealth)
EPIRB	Emergency Position Indicating Radio Beacon
ERP	Emergency Response Plan
ESA	Equivalent Standard Axles
FIFO	Fly-in Fly-out
FWHA	Federal Highway Administration (USA)
G3	Alcan Gove Third Stage Expansion Project
GAL	Gove Aluminium Limited
GARID	Guidelines for Assessment of Road Impacts of Development
GDP or GSP	Gross Domestic Product or Gross State Product
GHG	Greenhouse Gas
GIS	Geographic Information System
GMU	Groundwater Management Unit
GPS	Global positioning system
GWA	Genesee & Wyoming Australia
HAZOP	Hazard and Operability study
HDD	Horizontal Directional Drilling
HDR	Human Development Reports
HSE	Health, Safety Environment
HSEQMS	Health, Safety, Environment and Quality Management System
IBRA	Interim Biogeographic Regionalisation of Australia
ICUN	International Union for Conservation of Nature
IECAA	International Erosion Control Association Australasia
IPA	Indigenous Protected Areas
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organisation for Standards
KGGP	Katherine to Gove Gas Pipeline
KPs	Kilometre Points
KUNV	Kunjin Virus
LGANT	Local Government Association of the Northern Territory
LHAI	Laynhapuy Homelands Association Incorporated
LNG	Liquefied Natural Gas
LPG	Liquefied Petroleum Gas

ACRONYM	FULL NAME/TITLE
LTIFR	Lost Time Injury Frequency Rate
MAGNT	Museum and Art Gallery of the Northern Territory
MIC	Maximum Instantaneous Charge (blasting)
ML	Megalitre (one million litres)
MLV	Main line valves
Matters of NES	Matters of National Environmental Significance
MSDS	Material safety data sheet
MVEV	Murray Valley Encephalitis Virus
NBN	National Broadband Network
NDT	Non-destructive testing
NE	North-east
NEPM	National Environment Protection Measure
NLC	Northern Land Council
NLWRA	National Land and Water Resources Audit
NOI	Notice of Intent
NRETAS	Natural Resources, Environment, and the Arts and Sport
NTASS Act	<i>Northern Territory Aboriginal Sacred Sites Act (NT)</i>
NT EPA	Northern Territory Environment Protection Authority
NTG	Northern Territory Government
NZS	New Zealand Standards
OEMP	Operational Environment Management Plan
OH&S	Occupational Health and Safety
PM10	Particulate matter that is 10 micrometres or less in diameter
PPB	Parts per billion
PPE	Personal Protection Equipment
QASSIT	Queensland Acid Sulphate Soil Investigation Team
RAAF	Royal Australian Air Force
RAHC	Remote Area Health Corps
RAMSAR	Ramsar Convention on Wetlands, signed in Iranian town of Ramsar)
RAPS	Remote Area Power Supply
RFDS	Royal Flying Doctor Service
RRV	Ross River Virus
SA	Statistical Area
SAAL	Swiss Aluminium Australia Ltd
SCADA	Supervisory Control and Data Acquisition
SEIFA	Socio-Economic Indices for Areas
SIA	Social Impact Assessment
SIMP	Social Impact Management Plan
SOP	Safety and Operating Plan
SPI	Significant Potential Incidents

ACRONYM	FULL NAME/TITLE
SPRAT	Species Profile and Threats Database
STD	Sexually Transmitted Disease
SWMA	Surface Water Management Area
TAPM	The Air Pollution Model
TDS	Total Dissolved Solids
TEC	Threatened Ecological Community
TPWC Act	<i>Territory Parks and Wildlife Conservation Act (Northern Territory)</i>
TRISR	Total Recordable Injury Severity Rate
TSA	Tourism Satellite Account
TSSC	Threatened Species Scientific Committee
TTP	Trans Territory Pipeline
UA	Unincorporated Areas
UCL	Urban Centre Locality
UNESCO	United Nations Educational Scientific and Cultural Organisation
USBM	United States Bureau of Mines
VPD	Vehicles per day
VU	Vegetation units
WCD	Water Control District
WONS	Weed of National Significance

## Glossary

Aboriginal Sacred Sites	Natural features in the landscape such as waterholes, escarpments and trees that have special significance under Aboriginal social and cultural tradition. The <i>Northern Territory Aboriginal Sacred Sites Act</i> (NTASS Act) protects all sacred sites and makes it an offence to desecrate a site or enter, remain on or carry out work on a sacred site except with the appropriate authorisation (an Authority Certificate).
Acid sulphate soils	Naturally occurring sediments and soils containing iron sulphides (principally pyrite) and/or their precursors or oxidation products. The exposure of the sulphides to oxygen by drainage or excavation leads to the generation of sulphuric acid. Acid sulphate soils that have not been disturbed are called <i>potential acid sulphate soils (PASS)</i> . Acid sulphate soils that <i>have</i> been disturbed are called <i>actual acid sulphate soils (AASS)</i> .
Ambient Air Quality National Environment Protection Measure (AAQ NEPM)	A set of environmental quality standards set by the Australian and State/Territory Governments with the desired outcome of maintaining ambient air quality that allows for the adequate protection of human health and well-being.
Amenity	The qualities of a landscape, environment or setting that people value or find attractive, agreeable or pleasant.
Ancillary infrastructure	The supporting stations, systems and facilities required at intervals along the pipeline for safety, maintenance and pipeline integrity purposes, including meter stations, main line valves, scraper stations and a compressor station.
Annual plant species	A plant that survives for just one surviving just for one growing season.
Aquifer	Layer of rock that holds water and allows water to percolate through it.
Arboviruses	A large group of arthropod-borne viruses that are spread mainly by blood-sucking insects, commonly spread by mosquitoes.
AusIndustry	Industry development program administered by Commonwealth Department of Industry, Innovation, Science, Research and Tertiary Education.
Ausplume	An EPA-approved air dispersion model for modelling emissions of wastes to air.
Australian Standard	An Australian Standard which provides criteria and guidance on design, materials, fabrication, installation, testing, commissioning, operation, maintenance, re-qualification and abandonment.
Bioregion	An area where the groups of plants and animals and the physical features (such as depth, sediment type, and climatic regime) are distinct from the surroundings at a chosen scale.
Borrow pit	An area where soil, gravel or sand has been dug for use at another location.
Cathodic protection system	A system used to control the corrosion of a metal surface by making it the cathode of an electrochemical cell. The simplest method is to connect the metal to be protected with a piece of another more easily corroded sacrificial metal to act as the anode of the electrochemical cell. The sacrificial metal then corrodes instead of the protected metal. For structures where passive galvanic CP is not adequate, for example in long pipelines, an external DC electrical power source is sometimes used to provide current.
Compressor station	Used to boost the pressure of gas, as gas demand increases, the single compressor station for the KGGP (to be located at King River (KP 23.6) would be remotely operated and include a 12.5 m stack and ancillary equipment above ground, all to be fenced.
Conservation significant species	Species considered to be of conservation importance in the NT because of its endemism and/or as potential indicators of landscape change (due to changing fire regimes, for example). Such species are not listed threatened species.
Construction spread	The equipment and crew required to build one section of pipeline. The KGGP project will use two spreads, one starting at each end and working toward the middle.
Crepuscular	Becoming active at twilight or before sunrise, as do bats and certain insects and birds.
Endemic	Native or restricted in distribution to a particular geographic region.
Environmental risk assessment	Considers the risks to human health, welfare and ecosystems from adverse impacts associated with developments, using both the likelihood for the impact to occur and the consequence of the impact.

Ephemeral	Lasting for a short period of time.
Epiphytic	A plant that grows on another plant but is not parasitic.
Ethnographic	Derived from scientific description and classification of the various cultural and racial groups of mankind.
Greenhouse gases	Water vapor, carbon dioxide, methane, nitrous oxide and ozone gases that effectively trap heat within the earth's atmosphere, leading to global warming.
Groundwater	The water beneath the surface of the ground, consisting largely of surface water that has seeped down: the source of water in springs, wells and bores.
Herbaceous plant	A plant that has leaves and stems that die down at the end of the growing season, to the soil level.
Horizontal Directional Drilling (HDD)	A method of installing a pipeline across a watercourse or other feature, by tunnelling under and well-below the feature. For the KGGP, HDD would be used for any watercourse determined to be in flow at the time of the crossing; where the long term stability of the crossing is of concern; or for ecological reasons, particularly to protect significant riparian vegetation or conservation values.
Hydrostatic Testing	To determine the strength and leak tightness of a test section of pipeline, to establish that the section of pipeline is capable of withstanding the pressure for which it is designed, and for leak-tightness. Involves filling pipeline with water, pressurised to greater than normal operating pressure, then leak tested. Hydrotest water is then removed and disposed.
Hydrotest water	Water used to test the integrity of pipeline and then disposed. Oxygen scavenger and biocide chemicals are added to the water to control the risk of potential corrosion and micro-organism growth in the pipe.
Indigenous protected areas (IPAs)	Areas of Aboriginal-owned land or sea, where traditional owners have entered into agreement with the Australian Government to protect the biodiversity and associated cultural values of a region. In addition to conservation objectives, IPAs aim to deliver benefits to Indigenous people in the form of education, training, employment and business opportunities based on natural resource management.
Karst	Terrain where the bedrock is usually composed of limestone or dolomite (carbonate rocks) and has been, or has the potential to be, easily dissolved by water. Karst topography is characterised by sinkholes, caves, springs, and streams which disappear underground through well-developed subsurface drainage.
Main Line Valves (MLVs)	Valves required at intervals along the length of the pipeline as a safety measure to enable the isolation of sections of the pipeline in the event of an emergency or leak. The five MLVs for the KGGP project would be buried apart from the operating handle, and the vents located above ground would be fenced.
Matters of National Environmental Significance (MNES)	The Australian Government has identified eight MNES, including Listed Threatened Species and Ecological Communities; Migratory Species protected under International Agreements; World Heritage Areas; Wetlands of International Importance. Actions (including development proposals) that have, or are likely to have, a significant impact on a matter of national environmental significance, require approval from the Australian Government.
Maximum Instantaneous Charge (MIC)	The amount of explosive in kilograms which is detonated at a given moment in time.
Meter station	Installed at the Gove Peninsula end of the pipeline (KP 603), it would be used to measure the volume of gas exiting the pipeline and include a gas analyser and flow computers. This information is essential for commercial transactions associated with the supply of gas.
Monsoon rainforest	Open woodland in tropical areas that have a long dry season followed by a season of heavy rainfall. Monsoon rainforests in northern Australia occur as scattered patches in a landscape dominated by Eucalypt savannas.
Pacific Aluminium	The business unit of Rio Tinto that operates and owns the Gove bauxite mine and alumina refinery.
Perennial	Lasting or continuing throughout the year, as a stream.
Perennial plant species	Plants that live for more than two years. The term is often used to differentiate a plant from shorter-lived annuals and biennials. The term is also widely used to distinguish plants with little or no woody growth from trees and shrubs, which are also technically perennials.
pers . comm.	Personal communication.

Pers. Obs.	Personal observation.
Pig launcher	A funnel-shaped Y section in the pipeline, into which a cleaning or sensor tool (a 'pig') is inserted into the product flow.
Pig receiver	A trap to 'capture' a cleaning or sensing 'pig' sent through a pipeline.
Pipeline corridor	The 100 m wide corridor region (50 m either side of the pipeline centreline) that defines the final route selection and within which the right-of-way will be located.
Pipeline Decommissioning	Planned shut-down or removal of a pipeline from operation or usage. The process includes steps such as pigging, flushing, filling and plugging of the pipeline. Removal or abandonment is the next step in the process. The objective is to close down operations and remove surface structures, leaving the environment as near as practicable to its original condition.
Pipeline pigs (including intelligent pigs)	Pipeline Inspection Gauges introduced into active pipelines (through a pig launcher) to clean or 'inspect' the pipeline, with the pig driven along by the flow of product until it reaches the receiving trap (pig catcher), at which point the pig is retrieved. Can be simple cylinders made of plastic, or covered with abrasive wire mesh to cut rust and scale, or have sophisticated sensors to record various data during the trip down the pipeline (intelligent pigs) .
Pipeline Pre-Commissioning and Commissioning	The process of proving the ability of a pipeline and piping systems to contain product without leaking. Pre-commissioning is the series of processes carried out on the pipeline before the final product is introduced. The process during which the pipeline is made "live" i.e. the product is put in the pipeline, is called pipeline commissioning or start-up.
Pipeline region	The 100 km corridor (50 km either side of the pipeline centreline) that defines the regional context of the project (e.g. for mapping).
Pipeline right-of-way (ROW)	The 30 m wide construction corridor (15 m either side of the pipeline centreline) that will be cleared.
Pipeline stringing	The connecting of lengths of pipe end to end.
Project area	All the areas proposed to be disturbed by the KGGP project, i.e. the right-of-way + construction camps + ancillary infrastructure + access tracks.
Quadrat	A small, typically rectangular plot used in ecology to isolate a standard unit of area for study of the distribution of an organism. The quadrat is suitable for sampling plants, slow-moving animals (such as crawling insects and worms, and some aquatic organisms).
Receptor (Noise)	Location that may be affected by noise: Sensitive receptors include residences, parks, schools, churches, libraries, hotels, and other public buildings.
Riparian	Edge of a river or natural watercourse.
Risk Assessment	A process of determining the significance of potential impacts by assessing both the likelihood that an impact will occur and the consequence/severity of the impact.
SCADA communications	Supervisory Control and Data Acquisition Communications. A computer-based industrial monitoring and control system generally applied to large-scale processes that can include multiple sites and large distances.
Scraper station	Stations allowing the manual introduction and retrieval of internal mobile inspection and cleaning tools (pigs) into and out of the pipeline during operations. For the KGGP, a scraper station will be located at either end of the pipeline and one in the middle.
Surface water	Water that collects on the ground, in rivers, streams, lakes, wetlands, etc., from rain or groundwater that discharges to the surface, from springs.
TAPM (The Air Pollution Model)	A software package developed by CSIRO to estimate the spread and impact of air pollution.
Transect	A path along which one counts and records occurrences of the phenomena of study (e.g. plants).
Tropical savanna	Open grasslands, characterised by by a continuous cover of perennial grasses, often 3 to 6 feet tall at maturity. They may or may not also have an open canopy of drought-resistant, fire-resistant, or browse-resistant trees.
Weeds of National Significance (WONS)	A list of the most problematic plant species in Australia, determined by the federal government, based on invasiveness, impacts, potential for spread, and socioeconomic and environmental values.