

Glossary, Abbreviations and Units





Glossary, Abbreviations and Units

Glossary

Term	Definition
Acidic	pH value lower than 7.
Aggregate	Washed gravel with a near uniform particle size. Added to cement to make concrete.
Alluvial	Sediments deposited by flowing water. Relating to material deposited by, or in transit in, flowing water.
Alumina	Mined bauxite is refined into alumina (which is smelted into aluminium).
Aluminium	Mined bauxite is refined into alumina, and alumina is smelted into aluminium.
Ambient	Surrounding or background.
Ambient noise	The sum of the noise from all sources, near and far, in a given environment.
AnaBat	The AnaBat is bat detector which monitors the ultrasonic echolocation calls of bats for species identification and activity measurement.
Annual exceedance probability (AEP)	The likelihood that an event of a nominated size or larger will occur in any one year.
Anthropogenic	Caused or produced by humans or human activity.
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.
(Confined) Aquifer	An aquifer that is overlain by a confining bed. The confining bed has a significantly lower hydraulic conductivity than the aquifer.
(Unconfined) Aquifer	An aquifer in which there are no confining beds between the zone of saturation and the surface. There will be a water table in an unconfined aquifer.
Arboreal	Living or spending the majority of its time in the trees.
Artesian aquifer	A confined aquifer whose water is pressurized.
Assemblage	A collection of species occurring in a particular area or habitat without regard to their ecological interactions.
Average recurrence interval (ARI)	The average or expected value of the period between exceedances of a given variable.
Background noise	The noise ordinarily present and continuous at a given location, excluding extraneous noise and the noise source of interest. Commonly measured using the statistical parameter, L_{A90} , the A-weighted noise level that was exceeded for ninety per cent of the monitoring period.
Ballast	The material (usually water in ballast tanks) used to stabilise a vessel when partially loaded or empty.

Term	Definition
"Bank full" flow	The channel flow rate that exists when the water surface is level with the channel bank elevation above which the water would spill out of the channel or begin to enter the floodplain.
Barge	A barge is a flat-bottomed boat, built mainly for river and canal transport of heavy goods.
Baseflow	The stream flow rate that cannot be directly attributed to storm events. The flow rate is usually not constant, but varies with groundwater levels and long-term weather conditions.
Baseflow index (BFI)	The amount of runoff that becomes baseflow.
Bathymetry	Water depths or sea bed contours.
Beneficiation	The processing of crude bauxite to produce product grade bauxite – a process where oversized particles are removed by screening and fine particles are removed by washing.
Benthic	Associated with the bottom of a water body.
Benthos	The sediment at the bottom of a waterway.
Bioavailability	The extent to which a compound is available for intake by organisms. A measure of how available a toxic pollutant is to the biological processes of an organism.
Biodegradation	Breakdown of substances by micro-organisms, particularly bacteria and fungi.
Biomass	Quantity of living organic matter.
Bioregion	Region where the floral or faunal communities are similar.
Biota	All of the organisms, including animals, plants, fungi, and microorganisms, found in a given area.
Borrow pit	An excavation providing earth to be used as a construction material.
Box culvert	A culvert of rectangular cross-section.
Brackish	Relating to a slightly salty content.
Bunded area	An area within a structure constructed to prevent the inflow or outflow of liquids.
Bunkering	The act or process of supplying a ship with fuel.
Cape size vessel	Ships carrying bulk raw materials built to serve deep water terminals that were too large to transit the Panama and (old) Suez canals and therefore had to transit via Cape Horn or the Cape of Good Hope. The majority of Cape size vessels are in the range 175,000dwt to 205,000dwt.
Carbonate	A group of oxide minerals comprising mainly carbon and oxygen.
Cargo	Goods or produce transported, generally for commercial gain, by ship or aircraft.
Catchment	A water intake area or all parts of a drainage basin.
Causeway	A raised carriageway constructed across a watercourse where the culvert has a rectangular cross-section.

Term	Definition
Cetacean	The order Cetacea includes the marine mammals commonly known as whales, dolphins, and porpoises.
Collision	An isolated event in which two or more moving vessels run into one another.
Colloidal	Atoms or molecules dispersed in a gas, liquid or solid, which resist sedimentation (setting to the bottom).
Colluvial	Material mostly transported by gravity.
Compulsory pilotage	The requirement that a vessel be operated by a licensed pilot unless that vessel falls into an exempted class.
Compression Wave	Waves that have the same direction of vibration as their direction of travel, which means that the movement of the medium is in the same direction as, or the opposite direction to, the motion of the wave.
Conglomerate	Sedimentary rock consisting of poorly sorted grains (typically pebbles surrounded by finer materials, such as sand or silt).
Contaminant	Biological, chemical, physical, or radiological substance (normally absent in the environment) which, in sufficient concentration, can adversely affect living organisms through air, water, and/ or sediment.
Deadweight tonnage (dwt)	A measure of how much weight a ship is carrying or can safely carry - the sum of the weights of cargo, fuel, fresh water, ballast water, provisions, passengers, and crew.
Decibel (dB)	The unit of sound measurement.
Dedicated Post Panamax Vessel (DPPV)	A name given to Rio Tinto Marine bulk carriers that are dedicated to the Weipa/Gladstone route. They are larger than Panamax vessels (approximately 90,000dwt) and their draft is up to 12.8m, which allows safe passage through the Torres Strait.
Demersal	Living on the sea floor or just above it.
Desiccation	Drying out due to the effects of the environment.
Designated Shipping Area	Defined in the <i>Great Barrier Reef Marine Park Zoning Plan 2003</i> as: Shipping Areas are intended to facilitate passage through the Marine Park by ships. A Shipping Area is an area within which ships may navigate through the Marine Park, subject to any limitations prescribed in the Regulations. The Shipping Areas designated at the commencement of this Zoning Plan are described in Part 10 of Schedule 1 to this Zoning Plan.
Directory of Important Wetlands (DIWA)	The Directory identifies and provides information on the values of nationally important wetlands across Australia.
Dissolved Oxygen (DO)	The amount of oxygen dissolved in water.
Drainage pattern	The pattern formed by drainage lines, gullies, streams and rivers.
Drawdown	A lowering of the water table of an unconfined aquifer or the potentiometric surface of a confined aquifer caused by pumping of the groundwater from wells.

Term	Definition
Dredging	An excavation activity or operation carried out at least partly underwater, in shallow seas or fresh water areas with the purpose of gathering up bottom sediments and disposing of them at a different location.
Easement	A right held by the Proponent to make use of the land of another, for example, for the installation and operation of a pipeline. Also referred to as a right of way.
Ebb tide	The period between high tide and the next low tide in which the sea is receding.
Ecological Sustainable Development (ESD)	Defined in Australia's <i>National Strategy for Ecologically Sustainable Development 1992</i> as: 'using, conserving and enhancing the community's resources so that ecological processes, on which life depends, are maintained, and the total quality of life, now and in the future, can be increased'.
Ecotone	The transitional zone between two vegetation types (ecosystems).
Elasmobranch	Refers to the sharks, rays and skates - cartilaginous fishes. These animals have a skeleton made of cartilage, rather than bone.
El Niño	El Niño-Southern Oscillation (ENSO) is often called just "El Niño", and is a quasi periodic climate pattern that occurs across the tropical Pacific with a roughly five year cycle. ENSO is associated with floods, droughts and other weather disturbances in many regions of the world, which vary with each event.
Electrical Conductivity	A measure of the conduction of electricity through water or a water extract of soil. An indicator of soil salinity.
Elutriate	Elutriate testing is a bench-scale test designed to simulate and predict the water quality impacts from dredging or dredged material disposal. Elutriate testing simulates the potential transfer of chemicals from the dredged sediments into the water column during dredging or in-water disposal operations. A volume of sediment is vigorously mixed with a larger volume of water. The solids are allowed to settle out and the resulting water is then chemically analysed.
Environmental authority	Licence or Approval issued under the Qld EP Act to conduct specified 'Environmentally Relevant Activities'.
Environmental flow	Freshwater flow that is maintained solely for environmental reasons.
Ephemeral	A stream that flows briefly only in direct response to precipitation in the immediate locality and the channel of which at all times remains above the water table.
Epibenthic	Occurring on, but not penetrating, the surface of the ocean floor.
Epifauna	Animals living on the surface of the seabed or a riverbed, or attached to submerged objects or aquatic animals or plants.
Estuary	That part of the mouth or lower reach of a river in which its current meets the sea's tides, and is subject to their effects.
Euryhaline	Tolerant of a wide range of water salinities.
FEFLOW	A finite element groundwater modelling package for simulation of groundwater behaviour.
Fishway	A structure designed to enable fish to move past a physical barrier (e.g. dam or weir) in a waterway.

Term	Definition
Floc	Flake of precipitate that comes out of solution during the process of flocculation.
Flocculants	A substance added to a solution to produce an agglomeration of suspended particles.
Flocculate	Chemicals that promote flocculation by causing colloids and other suspended particles in liquids to aggregate, forming a floc.
Flood tide	The period between low tide and the next high tide in which the sea is rising.
Fly-in fly-out workforce	A workforce that is flown to or near a site at the start of their roster, stays in workforce-only accommodation on or near the site and is then flown out again at the end of the roster – generally to a regional centre or city.
Flyrock	The fragments of rock thrown and scattered during blasting.
Foreshore	Defined in the <i>Coastal Protection and Management Act 1995</i> (Qld) as the land lying between high water mark and low water mark as is ordinarily covered and uncovered by the flow and ebb of the tide at spring tides.
Fouling	The accumulation of unwanted material on solid surfaces to the detriment of function. The fouling material can consist of either living organisms (biofouling) or a non-living substance (inorganic or organic).
Frequency	A combination of sound pressure and frequency determine perceived loudness.
Gallery forest	Forests that form as corridors along rivers or wetlands and projects into landscapes that are otherwise only sparsely treed.
Gametogenic	The development and production of the male and female germ cells required to form a new individual.
Gaussian (applied to mathematics)	Normal statistical distribution, usually appearing in graph form as a “bell” curve.
Gestation	The development of the embryo of a viviparous mammal, between conception and birth.
Geochemical Abundance Index (GAI)	The GAI quantifies an assay result for a particular element in terms of the average crustal abundance for that element. The index, based on a log 2 scale, is expressed in 7 integer increments (i.e. 0 through to 6). As a general rule, a GAI of greater than 3 indicates significant enrichment to a level that warrants further examination.
Geomorphology	The description and interpretation of landforms.
Ghost nets	Discarded fishing nets.
Global Positioning System (GPS)	A GPS navigation device is any device that receives Global Positioning System signals for the purpose of determining the present location.
GoldSim model	GoldSim is a simulation program for carrying out dynamic, probabilistic simulation.
Gorgonians	Corals having a horny or calcareous branching skeleton. Also known as sea whip or sea fan.
Greenhouse gases (GHG)	Gases such as carbon dioxide and methane which, when dispersed in the atmosphere, tend to trap heat.

Term	Definition
Grounding	A type of marine accident that involves the impact of a ship on the seabed.
Harbour Master	An official responsible for enforcing the regulations of a particular harbour or port, in order to ensure the safety of navigation, the security of the harbour and the correct operation of the port facilities.
Hardness	A measure of the concentration of calcium and magnesium ions in water.
Hazchem	Abbreviation used for the hazardous chemical substances coding system used in the Australian Code for the Transportation of Dangerous Goods by Road and Rail. The system is defined in the Australian Standard AS 1216 and uses a classification and labelling system adopted by the United Nations.
Heavy vehicle	A truck, transport or other vehicle with a gross vehicle weight above a specified level (for example: over 8 tonnes).
Heterotrophic	Organisms that do not undergo photosynthesis (e.g. bacteria and fungi).
HerbreCs database	Database including taxon names and specimen data from Queensland Herbarium (part of EHP).
Hydraulic	Of or relating to water or other liquid in motion; operated, moved, or effected by water or liquid.
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 (m/day).
Hydrocarbon	A compound consisting of hydrogen and carbon.
Hydrodynamics	The motion and action of water and other liquids including currents and oceanic circulation.
Hydrograph	A graph showing the discharge, stage (elevation), velocity, or other properties of the flow with respect to time for a given point on a stream.
Infauna	Aquatic animals that live in the substrate of a body of water, especially in a soft sea bottom (sand or mud substrate).
Intertidal	Area between low and high tide which is subject to daily changes in physical and biological conditions from tide movement.
Invertebrates	Animals that do not have a backbone, e.g. insects, crustaceans.
ISO 14001	An international standard that provides the requirements for an Environmental Management System (EMS).
Kaolinite	A clay mineral consisting of aluminium silicate.
La Niña	A coupled ocean-atmosphere phenomenon similar to El Niño. During a period of La Niña, the sea surface temperature across the equatorial Eastern Central Pacific Ocean will be lower than normal by 0.5 C. La Niña causes mostly the opposite effects of El Niño.
Leachate	Elements or compounds in solution that have been dissolved from water flowing over a material.
Littoral	The littoral zone extends from the high water mark, which is rarely inundated, to shoreline areas that are permanently submerged.

Term	Definition
Longshore/ alongshore	Parallel and close to the coastline (also alongshore).
Neap tide	Tides with the smallest height difference between high tide and low tide, usually occurring when the moon is one quarter and three quarters full.
Nearshore	The region extending seaward from the shoreline.
Macrobenthos	Large benthos.
Macroinvertebrate	An invertebrate large enough to be seen without magnification.
Macrophyte	A plant large enough to be seen with the naked eye.
Macropore	A pore with dimensions such that capillary forces become less important during flow.
Marine pest	Introduced marine species that are likely to have a major impact in a new environment on economy, environment, human health or amenity.
MARPOL Convention	The International Convention for the Prevention of Pollution from Ships (MARPOL) is the main international convention covering prevention of pollution of the marine environment by ships from operational or accidental causes.
Masking	The raising of a listener's threshold of hearing for a given sound due to the presence of another sound.
Mesic habitat	Moderately moist habitat.
Microchiropteran	Small or micro bat species.
Micron	One millionth of a metre.
National Pollutant Inventory (NPI)	Australia's national public database of pollutant emissions. It has emission estimates for 93 toxic substances and the source and location of these emissions.
Ore	A type of rock that contains minerals with important elements including metals.
Osmoregulation	The process by which fish maintain equilibrium of body salts relative to their environment.
Outstanding Universal Value (OUV)	Defined by the World Heritage Convention Operational Guidelines as: 'cultural and/or natural significance which is so exceptional as to transcend national boundaries and to be of common importance for present and future generations of all humanity. As such, the permanent protection of this heritage is of the highest importance to the international community as a whole.'
Overburden	Rock and/or soil overlying the bauxite resource.
Panamax Vessel	A bulk carrier generally 65,000-80,000dwt, which has a draft of up to 12m (i.e. limited in size to allow passage through the Panama canal, from which its name is derived).
Particulate matter	Minute airborne particles.

Term	Definition
Pelagic	Living in the open sea rather than in coastal or inland waters. Pertaining to the part of the open sea or ocean comprising the water column, i.e., all of the sea other than that near the coast or the sea floor.
Perennial	Lasting for an indefinite amount of time.
Permeability	The capacity of a material to transmit fluid.
Photosynthesis	A process that converts carbon dioxide into organic compounds, especially sugars, using the energy from sunlight.
Pile	A type of deep foundation, generally driven into the ground <i>in-situ</i> .
Pisolitic	Composed of small, round concretions. A rock texture characterized by a small-scale conglomeration of tiny spherical (literally, pea like) brown masses in a lighter-coloured matrix.
Plume	A column of one fluid moving through another.
Pore water	Pore water is the water filling the spaces between grains of sediment.
Potable water	Water suitable, on the basis of both health and aesthetic considerations, for drinking purposes.
Project area	The Project area would be predominantly located on a portion of ML7024 south of the Embley River, on ML6024, on certain Strategic Port Land within the Port of Weipa, and offshore dredging and dredged sediment disposal areas.
Propagule	Seed or spore.
Qualitative	Qualitative assessments are abstract; they either do not require measurement or cannot be measured because the reality they represent can only be approximated.
Quantitative	An assessment based on the amount or number of something.
Reclaimed	Filled.
Recharge	Water flowing into an aquifer.
Recharge Area	An area in which there are downward components of hydraulic head in the aquifer. Infiltration moves downward into the deeper parts of an aquifer in a recharge area.
Recovery slots (Tailings)	Trenches dug adjacent to tailings dams to recover water.
ReefVTS (Great Barrier Reef and Torres Strait Vessel Traffic Service)	<p>A coastal vessel traffic service which has been put in place by the Australian and Queensland Governments to:</p> <ul style="list-style-type: none"> • improve navigational safety in the Torres Strait and inner route of the Great Barrier Reef by providing information to shipping on potential traffic conflicts and other navigational information; • minimise the risk of a maritime accident and resulting ship-sourced pollution and damage to the marine environment in the Torres Strait and Great Barrier Reef region; and, • provide an ability to respond more quickly in the event of any safety or pollution incident.
Reefal	Of or pertaining to a reef.
Remnant vegetation	Patches of vegetation amongst a clearing.

Term	Definition
Revenue tons	Billing unit in shipping industry. One revenue ton equals weight in metric tons or volume in cubic meters, whichever is higher in terms of freight.
Rhizome	A continuously growing horizontal underground stem that puts out lateral shoots and adventitious roots at intervals.
Riparian	Pertaining to, or situated on the bank of, a body of water, especially a watercourse such as a river.
Ripping	The process of fracturing rock or compacted soil by dragging a metal tool through intact strata using a bulldozer.
Rock revetment	A facing of stone, riprap or other erosion-resistant material placed on a sloping face of earth such as the edge of stream channel or shoreline, to stabilise the bank and protect it from the erosive action of water.
Rostrum	The term rostrum is defined as an organism's beak or a beak-like part. In cetaceans it refers to the upper jaw or "snout" of the whale.
Salinity	The total content of dissolved solids in surface or ground water, commonly expressed as parts of dissolved solids per million parts of solution (ppm), or milligrams of dissolved solids per litre of solution (mg/L).
Saturated flow	Once soil is completely wetted, any more water will move downward, carrying with it clay, humus and nutrients, primarily cations, out of the range of plant roots and result in acid soil conditions.
Scarping	The erosion of a dune or berm by wave-attack during a storm or a large swell.
Scarify (soil)	To break up and loosen (soil) to a shallow depth.
Scrubbing	Cleaning a gas of impurities.
Sediment pond	A structure designed to intercept and retain sediment transported by the rainfall runoff.
Sheet pile wall	A physical barrier applied by driving solid sheets of impermeable material into the ground.
Ship	Defined in the <i>Great Barrier Reef Marine Park Zoning Plan 2003</i> as a vessel which is: <ul style="list-style-type: none"> • 50m or more in overall length; • an oil tanker (within the meaning given by the Protocol of 1978 relating to the International Convention for the Prevention of Pollution from Ships, 1973), regardless of its length; • a chemical carrier or liquefied gas carrier, regardless of its length; • a ship to which the Irradiated Nuclear Fuel Code applies, regardless of its length; • a vessel that is adapted to carry oil or chemicals in bulk in cargo spaces; or, • a vessel engaged in towing or pushing another vessel or vessels (if any of the above applies) to the towed or pushed vessel, or where the total length of the tow, from the stern of the towing vessel to the after end of the tow, is greater than 150m.
SILO	The Bureau of Meteorology web site that provides meteorological and agricultural data.
SoE Bauxite Shipping	Project-related shipping activities of bauxite.
SoE Other Shipping	Project-related shipping for to the transport of construction materials, cargo and fuel.
Sound Attenuation	The reduction in the intensity or in the pressure level of sound which is transmitted from one point to another.

Term	Definition
Sound Exposure Level	A measure of the energy of the sound which an animal or human would be exposed to.
Sound Power Level	The total sound energy radiated from a source per unit of time. Ten times the logarithm to the base 10 of the ratio of a given power to a reference power.
Sound Pressure Level	Sound pressure is the difference, in a given medium, between average local pressure and the pressure in the sound wave.
Spatial	Of or relating to an area.
Spectrum	The array of frequencies involved in noise.
Spill	An accidental release of substance (such as oil, fuel or bauxite) into a body of water.
Spillway	An open channel, weir, conduit, tunnel or other structure designed to allow discharges from a dam, used to safely discharge flood flows or release water.
Spring tide	Tides with the greatest range between highs and lows, usually occurring during the full or new moons.
Stochastic model	A mathematical model involving random variable(s) in order to estimate probability distributions of potential outcomes.
Storativity	The volume of water released from an aquifer per unit surface area of the aquifer and per unit change in head.
Strategic Port Land	Land administered by the North Queensland Bulk Ports Corporation Limited (NQBP).
Stratigraphic	The arrangement of strata (geological layers).
Sub-catchment	An area within a catchment drained by one or more tributaries of the main water body.
Substrate	The underlying base to something, e.g. the streambed.
Subtidal	The marine zone below the intertidal zone that remains submerged at low tide; generally only refers to near-shore or coastal areas
Tailings	Bauxite tailings are the fine-grained waste material resulting from bauxite processing (beneficiation).
Temporal	Of or relating to time and/or seasons.
Terrigenous	Having a terrestrial, as opposed to marine, origin.
The Air Pollution Model (TAPM)	A three dimensional meteorological and air pollution model developed by Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO) Division of Atmospheric Research.
Theis equation	This equation is used to find the average transmissivity and storativity values near a pumping well, from data collected during an aquifer test.
Total Dissolved Solids (TDS)	The concentration of common dissolved salts found in water and reported by volume (mg/L).

Term	Definition
Total Suspended Solids (TSS)	The concentration of filterable particles in water (retained on a 0.45m filter) and reported by volume (mg/L).
Toxicity	The degree of poison or ill effects that a substance produces.
Traditional Owners	Traditional Aboriginal owners or other Aborigines to whom the protection of an area is entrusted in accordance with Aboriginal tradition.
Transmissivity	The rate of flow of water through a vertical strip of aquifer which is one unit wide and which extends the full saturated depth of the aquifer.
Transverse Wave	A wave in which the direction of displacement is perpendicular to the direction of propagation, as a surface wave of water.
Trophic	Pertaining to food webs.
Tug	A boat that manoeuvres vessels by pushing or towing them.
Turbidity	A measure of the cloudiness of water which is determined by the amount of light scattered by suspended particles.
Turkey's nest dams	Off-stream dams that do not capture any surface water from the catchment above the dam meaning that they only capture the rainfall that falls directly on the dam impoundment.
Vessel	A nautical term for all kinds of craft designed for transportation on water, such as ships or boats.
Vessel strike	An event when a moving vessel hits a marine animal.
Viviparity	Giving birth to living offspring that develop within the mother's body. Most mammals and some other animals are viviparous.
Water table	Level below which the ground is saturated with water. The surface in an unconfined aquifer or confining bed at which the pore water pressure is atmospheric.
Wildnet database	A computerised information database on Queensland's wildlife provided by DERM. WildNet contains recorded wildlife sightings and listings of plants, fungi, protists, mammals, birds, reptiles, amphibians, freshwater fish, marine cartilaginous fish and butterflies in Queensland.

Abbreviations

AAA	Advanced Analytical Australia Pty Ltd
ABS	Australian Bureau of Statistics
AEP	Annual Exceedance Probability
AHD	Australian Height Datum
AIS	Automatic Identification System
AIMS	Australian Institute of Marine Science
ALS	Australian Laboratory Services
AMBO	Adiabatic Modes Based on Orca
AMP	Alcohol Management Plan
AMSA	Australian Maritime Safety Authority
ANMP	Aids to Navigation Management Plan
ANCOLD	Australian National Committee on Large Dams
ANZECC/ARMCANZ	Australian and New Zealand Environment and Conservation Council/Agriculture and Resource Management Council of Australia and New Zealand
AQIS	Australian Quarantine Inspection Service
ARI	Annual Recurrence Intervals
AS	Australian Standards
ATSIP	Aboriginal and Torres Strait Islander Partnership
ATV	All-terrain vehicle
AWBM	Australian Water Balance Model
AWG	Abbot Point Working Group
BFI	Baseflow index
BOM	Australian Bureau of Meteorology
BRR Plan	RTA Weipa's Business Resilience and Recovery (BRR) Plan (otherwise known as an "Emergency Management Plan")
CDEP	Community Development Employment Project
CECR	Centre for Environmental Contaminants Research

Chalco	The Aluminium Corporation of China Limited
CHEMP	Community, Heritage and Environment Management Plan
CHRIS	Coastal Habitat Resources Information System
CG	The Coordinator-General of the state of Queensland
CMA	Commonwealth marine area
CO ₂ -e	Carbon dioxide equivalents
COLREGS	<i>International Regulations for Preventing Collisions at Sea 1972</i>
CPA	Cairns Port Authority
CPCe	Coral Point Coult with Excel Extensions – Version 3.4
CSD	Cutter suction dredge
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CwIth	Commonwealth
CYPLUS	Cape York Peninsula Land Use Strategy
DAE	Dilute acid extraction
DAFF	Department of Agriculture, Fisheries and Forestry
dB	Decibel (the unit of sound measurement)
dB(A)	'A' Weighted overall sound pressure level
DBT	Dibutyltin (DBT)
DEEDI	Former Queensland Department of Employment, Economic Development & Innovation – now broken up into a number of departments
DEH	Former Commonwealth Department of Environment and Heritage
DERM	The Queensland Department of Environment and Resource Management – now Queensland Department of Environment and Heritage Protection
DEWHA	Former Commonwealth Department of the Environment, Water, Heritage and the Arts – now Commonwealth Department of Sustainability, Environment, Water, Population and Communities.
DIWA	Directory of Important Wetlands.
DME	Former Queensland Department of Minerals and Energy – now the Department of Natural Resources and Mines
DMP	Dredge Management Plan

DNRM	Queensland Department of Natural Resources and Mines
DNRW	Former Queensland Department of Natural Resources and Water – now part of EHP
DoC	Former Queensland Department of Communities - now the Department of Communities, Child Safety and Disability Services-
DOGIT	Deed of grant in trust
DPPV	Dedicated Post-Panamax Vessel
DSDIP	Queensland Department of State Development, Infrastructure and Planning – formerly part of DEEDI
DSEWPac	Commonwealth Department of Sustainability, Environment, Water, Population and Communities
DTMR	Queensland Department of Transport and Main Roads
dwt	deadweight tonnage
EA	Environmental Authority
EBMPA	Ely Bauxite Mining Project Agreement
EC	Electrical Conductivity
EHP	Queensland Department of Environment and Heritage Protection – formerly the Department of Environment and Resource Management
EIL	Environmental investigation limit
EIS	Environmental Impact Statement
EP Act	<i>Environment Protection Act 1994</i> (Queensland)
EPA	Former Queensland Environmental Protection Agency – now part of EHP
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Commonwealth)
EPM	Exploration Permit – Minerals issued pursuant to the <i>Mineral Resources Act 1989</i>
EPP (Air)	<i>Environmental Protection (Air) Policy 2008</i> (Queensland)
EPP (Noise)	<i>Environmental Protection (Noise) Policy 2008</i> (Queensland)
EPP (Waste)	<i>Environmental Protection (Waste) Policy 2000</i> (Queensland)
EPP (Water)	<i>The Environmental Protection (Water) Policy 2009</i> (Queensland)
ERI	Environmental Risk Index
ESD	Ecologically Sustainable Development
EVs	Environmental Values

FCA	Federal Court of Australia
FHA	Fish Habitat Area under the <i>Fisheries Act 1994</i> (Queensland)
FNQ	Far North Queensland
FPC	Foliage Protection Cover
FTE	Full time equivalent jobs
FQ	Fisheries Queensland
GAB	Great Artesian Basin
GAB-ROP	Great Artesian Basin Resource Allocation Plan
GAB WRP	<i>Water Resource (Great Artesian Basin) Plan 2006</i> (Queensland)
GAI	Geochemical Abundance Index
GBR	Great Barrier Reef
GBRMP	Great Barrier Reef Marine Park
GBRMPA	Great Barrier Reef Marine Park Authority
GBRMP Act	<i>Great Barrier Reef Marine Park Act 1975</i> (Commonwealth)
GBRWHA	Great Barrier Reef World Heritage Area
GBRNHP	Great Barrier Reef National Heritage Area
GHG	Greenhouse Gas
GIS	Geographic Information System
GoCCFA	Gulf of Carpentaria Commercial Fishing Association
GPC	Gladstone Port Corporation
GPS	Global Positioning System
GRP	Gross Regional Product
HAT	Highest Astronomical Tide
HFO	Heavy fuel oil
Hz	Hertz
IAS	Initial Advice Statement as defined by part 4 of the <i>State Development and Public Works Organisation Act 1971</i>

IFO	Intermediate Fuel Oil
ILUA	Indigenous Land Use Agreement
IMA	Intensive Monitoring Area
IMSBC	International Maritime Solid Bulk Cargo
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organisation
IOPP	International Oil Pollution Prevention
ISO	International Standards Organisation
IUCN	International Union for Conservation of Nature
IWC	International Whaling Commission
JNCC	Joint Nature Conservation Committee
kN	kilonewton
L _{A90} (T)	noise level (in decibels – A weighted) exceeded for 90 per cent of the measurement period over the measurement period (T)
L _{Aeq} (T)	equivalent continuous (or ‘average’) noise level (in decibels – A weighted) over the measurement period (T)
LAP	Local Aboriginal People
LAT	Lowest Astronomical Tide
LOR	Limit of reporting
LSMP	Land and Sea Management Programme
Matters of NES	Matters of national environmental significance (under the <i>Environment Protection and Biodiversity Conservation Act 1999</i>)
MARPOL	International Convention for the Prevention of Pollution from Ships
mbRP	Meters below reference point
MDL	Mineral Development Licence
ML	Mining Lease issued pursuant to the <i>Mineral Resources Act 1989</i> (Queensland)
MMO	Marine Mammal Observer
MRA	<i>Mineral Resources Act 1989</i> (Queensland)
mRL	Meters below reference level (surveyed point)

MSL	Mean Sea Level
MSQ	Maritime Safety Queensland
Mdptpa	Million dry product tonnes per annum
NAGD	National Assessment Guidelines for Dredging (Commonwealth of Australia 2009)
NATA	National Association of Testing Authorities
NC Act	<i>Nature Conservation Act 1994</i> (Queensland)
NHP	National Heritage Place
NMI	National Measurement Institute
No.	Number
NOx	Nitrous Oxides
NPF	Northern Prawn Fishery
NPI	National Pollutant Inventory
NOBP	North Queensland Bulk Ports Corporation Limited - formerly Ports Corporation of Queensland (PCQ)
NRM	Natural Resource Management
NSW	New South Wales, Australia
NT	Northern Territory, Australia
NTFRS	Northern Territory Fire and Rescue Service
NTU	Nephelometric Turbidity Units (unit of measurement for water turbidity)
NZS	New Zealand Standards
OESR	Office of Economic and Statistical Research
OUV	Outstanding Universal Value
P-SPL	Peak sound pressure level
PAR	Photosynthetically active radiation
PCQ	The former Ports Corporation of Queensland, now North Queensland Bulk Ports Corporation Limited (NOBP)
PD	Pile diameter
PDR	Peninsula Developmental Road

PEST	Parameter estimation software
pH	Absolute value of the decimal logarithm of the hydrogen-ion concentration (activity); used as an indicator of acidity (pH < 7) or alkalinity (pH > 7)
pH _F	The field pH of soil
PNG	Papua New Guinea
ppb	Parts per billion
ppm	Parts per million
PSSA	Particularly Sensitive Sea Area
QAL	Queensland Alumina Ltd
QLGA	Queensland Local Government Association
QPA	Queensland Ports Association
QPS	Queensland Police Service
QPWS	Former Queensland Parks and Wildlife Service – now the Department of National Parks, Recreation, Sport and Racing
QRAA	Queensland Rural Adjustment Authority
QSIA	Queensland Seafood Industry Association
RAAF	Royal Australian Air Force
RE	Regional Ecosystem
RORO	Roll on - roll off
RMS-SPLSL	Root-mean-squared sound pressure level source level
RPA	Regional Partnership Heads of Agreement
RTA	RTA Weipa Pty Ltd
RTM	Rio Tinto Marine
RW	Restricted Waters
SCV	Small commercial vessels
SDPWO Act	<i>State Development and Public Works Act 1971</i> (Queensland)
SEIS	Supplementary Environmental Impact Statement
SEL	Sound Exposure Level

SELSL	Sound Exposure Source Level
SFD	Seafloor depth
SGS	SGS Economics and Planning Pty Ltd (economics and planning consultancy)
SHB	Split hopper barge
SIA	Social Impact Assessment
SIMP	Social Impact Management Plan
SoE	South of the Embley
SoE S-C	SoE Project Sub-Committee (of the Western Cape Communities Coordinating Committee)
SOI	Southern Oscillation Index
SoOUV	Statement of Outstanding Universal Value
SOx	Sulphur Oxides
SPL	Sound pressure level
SPRAT Database	Species Profiles and Threats Database. A database maintained by Department of Sustainability, Environment, Water, Population and Communities designed to provide statutory, biological and ecological information on species and ecological communities, migratory species, marine species protected under the <i>Environment Protection and Biodiversity Conservation Act 1999</i>
SPLSL	Sound pressure source level
STP	Sewage treatment plant
T (as in AI T)	Total
TAPM	The Air Pollution Model
TBT	Tributyltin (an organotin species)
TDS	Total Dissolved Solids
TEC	Threatened Ecological Community
TED	Turtle Exclusion Device
Temp	Temperature
TG	Transmissibility groups
TMPC	Thick Micarta Pile Cushion
TPM	Transition Probability Matrix

ToR	Terms of Reference as defined by Part 4 of the <i>State Development and Public Works Organisation Act 1971</i> (Queensland)
TSB	Territorial Sea Baseline
TSF	Tailings Storage Facility
TSHD	Trailing suction hopper dredge
TSS	Total Suspended Solids
TWPC	Thick Plywood Pile Cushion
UN	United Nations
UNCLOS	UN Convention on the Law of the Sea 1982
UNEP	United Nations Environment Programme
UNESCO	United Nations Education, Science and Cultural Organisation
VMA	<i>Vegetation Management Act 1999</i> (Queensland)
VTIS	Vessel Traffic Information Service
VTs	Vessel Traffic System
WA	Western Australia
WCC	Western Cape College
WCCCA	Western Cape Communities Co-existence Agreement
WCCT	The Western Cape Communities Trust
WCCCC	Western Cape Communities Coordinating Committee
WHA	World Heritage Area
WHC	World Heritage Committee
WQO	Water quality objectives
WTA	Weipa Town Authority

Units

Time Intervals	
s	second
d	day
hr	hour
a	annum
Length	
µm	micrometre
m	metre
km	kilometre
cm	centimetre
mm	millimetre
Mass	
kg	kilogram
t	tonne
dpt	dry product tonne
Mt	million tonnes
Mdpt	million dry product tonnes
Mtpa	million tonnes per annum
Mdtpa	million dry product tonnes per annum
wpt	Wet product tonnes
Concentration	
µg/L	micrograms per litre
mg/L	milligrams per litre
mg/kg	milligrams per kilogram
kg/m ³	kilograms per metres cubed

Area	
m ²	square metre
km ²	Square kilometre
ha	hectare
Volume	
m ³	cubic metre
kL	kilolitre (1,000 litres)
ML	megalitre (1,000,000 litres)
GL	gigalitre (1,000,000,000 litres)
L	litre
Flow/Movement Rate	
L/s	litres per second
m/s	metres per second
m ³ /s	cubic metre per second
mm/day	millimetres per day
m ² /day	square metres per day
GL/a	gigalitre per annum
Hydraulic conductivity	
m/d	metres per day
Energy	
MW	megawatt
Temperature	
°C	degrees Celsius
Noise	
dB	decibel
dB(A)	decibel (A-Weighted scale)

dB re 20 µPa (20 µPa.s)	Unit to measure SELSL
Pressure	
µPa	micro-Pascal
Potential	
µS/cm	micro Siemens per centimetre
Frequency	
Hz	hertz
kHz	Kilohertz (1000 Hz)

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