



Gladstone Ports Corporation

Growth, Prosperity, Community.

Glossary of Terms and Abbreviations





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Abbreviations

AASS	Actual Acid Sulphate Soils
ABS	Australian Bureau of Statistics
AES	Aggregate Environmental Score
AEP	Annual Exceedance Probability
AHD	Australian Height Datum
Air EPP	<i>Environmental Protection (Air) Policy 2008</i>
ANC	Acid neutralising capacity
ASS	Acid Sulphate Soil
ASSMAC	Acid Sulphate Soils Management Advisory Committee
Bgl	Below Ground Level
BoM	Bureau of Meteorology
CAMBA	China-Australia Migratory Bird Agreement
CCRCMP	Curtis Coast Regional Coastal Management Plan
CEM	Centre for Environmental Management (CEM) (CQU)
CEMP	Construction Environmental Management Plan
CFISH	Commercial Fishers Information System
CHMP	Cultural Heritage Management Plan
CHRIS	Coastal Habitat Resources Information System
CG	The Coordinator-General
CLR	Contaminated Land Register
Coastal Act	<i>Coastal Protection and Management Act 1995</i>
CQRGMF	<i>Central Queensland Regional Growth Management Framework 2002</i>
CQU	Central Queensland University (CQU)
CSC	Calliope Shire Council (now Gladstone Regional Council)
CSD	Cutter Suction Dredge
Curtis Coastal Plan	Curtis Coast Regional Coastal Management Plan, September 2003
dB	Decibel
dB(A)	Unit of Measurement for Sound Pressure Level



DEEDI	Department of Employment, Economic Development and Innovation (Qld) (includes former DPI&F)
DERM	Department of Environment and Resource Management (Qld) (includes former EPA and DNRW)
DEWHA	Department of Environment, Water, Heritage and the Arts (Federal)
DIP	Department of Infrastructure and Planning
DIWA	Directory of Important Wetlands in Australia
DNRW	Department of Natural Resources and Water (Qld) (now DERM)
DO	Dissolved Oxygen
DOS	Degree of Saturation
DPA	Dugong Protection Area
DPI&F	Department of Primary Industries and Fisheries (Qld) (now DEEDI)
DTRDI	Department of Tourism, Regional Development and Industry
EIS	Environmental Impact Statement
EIL	Environmental Investigation Levels
EMP	Environmental Management Plan
EMS	Environmental Management System
EPA	Environmental Protection Agency (Qld) (now part of DERM)
EP Act	<i>Environmental Protection Act 1994</i>
EPBC	Environment Protection and Biodiversity Conservation Act 1999 (C'wealth)
EPP	Environment Protection Policy
ERA	Environmentally Relevant Activity
ESA	Equivalent Standard Axle
ESD	Ecologically Sustainable Development
EWG	Environmental Working Group (GPC)
FBA	Fitzroy Basin Association
FHA	Fish Habitat Area
GAPDL	Gladstone Area Promotion and Development Limited
GAWB	Gladstone Area Water Board
GHG	Greenhouse Gas(es)
GBR	Great Barrier Reef
GBRCMP	Great Barrier Reef Coast Marine Park (State)
GBRMP	Great Barrier Reef Marine Park



GBRMPA	Great Barrier Reef Marine Park Authority
GBRWHA	Great Barrier Reef World Heritage Area
GEIDB	Gladstone Economic and Industry Development Board
GCC	Gladstone City Council (now Gladstone Regional Council)
GED	General Environmental Duty
GIRTP	<i>Gladstone Integrated Regional Transport Plan 2001 - 2030</i>
GIS	Geographical Information Systems
GPA	Gladstone Ports Authority
GPC	Gladstone Ports Corporation
GRC	Gladstone Regional Council
GSDA	Gladstone State Development Area
ha	Hectares
HAT	Highest Astronomical Tide
HAZOP	Hazard and Operability Study
HIPAP	Hazardous Industry Planning Advisory Paper
HSE	Health Safety and Environment
IALA	International Association of Lighthouse Authorities
IAS	Initial Advice Statement as described in Part 4 of the <i>State Development and Public Works Organisation Act 1971</i>
IAP2	International Association of Public Participation
IDAS	Integrated Development Application System
IP Reg	<i>Integrated Planning Regulation 1998</i>
IPA	<i>Integrated Planning Act 1997</i>
ISQG	Interim Sediment Quality Guidelines
JAMBA	Japan-Australia Migratory Bird Agreement
JSA	Job Safety Analysis
km	Kilometres
km/h	Kilometres per hour
KRA	Key Resource Area
LAT	Lowest Astronomical Tide
LGA	Local Government Area
LMAC	Local Marine Advisory Committee



LNG	Liquefied Natural Gas
L _N	Statistical Sound Measurement Recorded on the Linear Scale
L _{AN}	Statistical sound Measurement Recorded on the “A” Weighted Scale
LNG	Liquefied Natural Gas
LOR	Limit of Reporting
LOS	Level of Service
LW	Sound power levels
LWD	Low water datum
m	Metres
mg/kg	Milligrams per kilogram
mg/L	Milligrams per litre
MPI	Maximum Potential Intensity
MSDS	Material Safety Data Sheet
MSL	Mean Sea Level
MSQ	Maritime Safety Queensland
Mtpa	Million tonnes per annum
MTSC	Materials Transportation and Services Corridor
NCA	<i>Nature Conservation Act 1992</i>
NES	National Environmental Significance as defined by the Environment Protection and <i>Biodiversity Conservation Act 1999 (C’wealth)</i>
NOHSC	National Occupational Health and Safety Commission
NODGDM	National Ocean Disposal Guidelines for Dredged Material
Noise EPP	<i>Environmental Protection (Noise) Policy 2008</i>
NT Act	<i>Native Title Act 1993</i>
NTU	Nephelometric Turbidity Units
OH&S	Occupational Health & Safety
OLS	Obstacle Limitation Surface
ORP	Oxidation Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbons
PASS	Potential Acid Sulphate Soil
PCB	Polychlorinated Biphenyl
PCCC	Port Curtis Coral Coast



PCIMP	Port Curtis Integrated Monitoring Program
pH _{KCL}	pH of the soil before oxidation (laboratory)
pH _F	Field pH (laboratory)
pH _{FOX}	Field pH following oxidation with peroxide (laboratory)
PHA	Preliminary Hazard Analysis
PIFU	Planning Information and Forecasting Unit
PNCG	Planning for Noise Control Guideline, 2004
PNL	Planning Noise Level
Port Land Use Plan	GPC Land Use Plan 1999
Port Strategic Plan	Gladstone Port strategic Plan 1997 – 2047
PPE	Personal Protective Equipment
ppm	Parts per million (by volume)
PQL	Practical Quantification Limit
QA	Quality Assurance
QAS	Queensland Ambulance Service
QASSIT	Queensland Acid Sulphate Soil Investigation Team
QFRS	Queensland Fire and Rescue Service
QGEOP	Queensland Government Environmental Offsets Policy
QHA	<i>Queensland Heritage Act 1992</i>
QPWS	Queensland Parks and Wildlife Services
QWQG	Queensland Water Quality Guidelines
RE	Regional Ecosystem
ROKAMBA	Republic of Korea-Australia Migratory Bird Agreement
RPDM	Road Planning and Design Manual
RTA	NSW Roads and Traffic Authority
SCR	Chromium Reducible Sulphur
SD	Statistical Division
SDPWO Act	<i>State Development and Public Works Organisation Act 1971</i>
Sea Dumping Act	<i>Environment Protection (Sea Dumping) Act 1981</i>
SED	State Electoral Division
SES	State Emergency Services
SIA	Social Impact Assessment



SPB	<i>Sustainable Planning Bill 2009</i>
SPP 1/02	State Planning Policy 1/02 for Development in the Vicinity of Certain Airports and Aviation Facilities
SPP 1/03	State Planning Policy 1/03 for Mitigating the Adverse Impacts of Flood, Bushfire and Landslide
SPP 2/02	State Planning Policy 2/02 for Planning and Managing Development involving Acid Sulphate Soils
SPP 2/07	State Planning Policy 2/07 for Protection of Extractive Resources
SS	Suspended Solids
State Coastal Plan	State Coastal Management Plan – Queensland’s Coastal Policy
TAA	Titrateable Actual Acidity (mol H ⁺ /tonne)
TBT	Tributyl tin
TDS	Total Dissolved Solids
The Port	Port of Gladstone
The Project	Western Basin Dredging and Disposal Project
ToR	Terms of Reference
TPH	Total Petroleum Hydrocarbons
TSHD	Trailer Suction Hopper Dredge
TSS	Total Suspended Solids
TWA	Time Weighted Average
UNESCO	United Nations Educational, Scientific and Cultural Organisation
VIA	Visual Impact Assessment
VMA	<i>Vegetation Management Act 1999</i>
VTS	Vessel Tracking System
Waste EPP	<i>Environmental Protection (Waste Management) Policy 2000</i>
Water Act	<i>Water Act 2000</i>
Water EPP	<i>Environmental Protection (Water) Policy 1997</i>
WICT	Wiggins Island Coal Terminal



Glossary of Terms

Background (VIA)	6 km – 16 km - Textures are no longer visible, but mountain and valley forms, skylines and ridgelines are important (Forest Practice Board Tasmania, 2006)
Cumulative Impact	The interaction of impacts arising from a development in conjunction with other past, present and reasonably foreseeable future actions
Foreground (VIA)	0 – 1 km is the visual zone where colour contrasts and textural detail are most clearly perceived (Forest Practice Board Tasmania 2006)
Landscape Feature	A component, part or feature of the landscape that is prominent or eye-catching, e.g., hills, buildings, vegetation
Landscape Quality	Largely subjective judgement based on particular characteristics that influence the way in which the environment is experienced, including special interests such as cultural associations or heritage interests, the presence and/or type of elements and condition
Landscape Sensitivity	The extent to which landscape can accept a change of a particular type and scale without unacceptable adverse impacts on its character
Landscape Value	Areas of formally designated landscape that through national or local consensus, reflect the value placed by society on particular environments and/or their features
$L_{A10}(\text{Time})$	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured
$L_{A10}(1 \text{ hour})$	The L_{A10} level measured over a 1 hour period
$L_{A10}(18 \text{ hour})$	The arithmetic average of the L_{A10} levels for the 18 hour period between 0600 and 2400 hours on a normal working day. It is a common traffic noise descriptor
$L_{Aeq}(\text{Time})$	Equivalent sound pressure level: the steady sound level that, over a specified period of time would produce the same energy equivalence as the fluctuating sound level actually occurring. This is considered to represent ambient noise
$L_{Aeq}(15 \text{ hour})$	The L_{Aeq} noise level for the period 7 am to 10 pm (Day and Evening)
$L_{Aeq}(9 \text{ hour})$	The L_{Aeq} noise level for the period 10 pm to 7 am (Night)
$L_{Aeq}(1 \text{ hour})$	The L_{Aeq} noise level for a 1 hour period. It represents the highest tenth percentile hourly A-weighted L_{eq} during the period 7 am to 10 pm, or 10 pm to 7 am, (whichever of relevant)
$L_{A90}(\text{Time})$	The A-weighted sound pressure level that is exceeded for 90 % of the time over which a given sound is measured. This is considered to represent the background noise e.g., $L_{A90}(15 \text{ min})$
Middleground	1 km – 6 km. Different elements in the landscape are visually apparent (Forest Practice Board Tasmania 2006)



Mitigation	Measures, including any process, activity or design to avoid, reduce, remedy or compensate for adverse landscape and visual impacts of a development project
Noise Sensitive Place	<p>Noise sensitive place means any of the following places:</p> <ul style="list-style-type: none"> ▶ A dwelling; ▶ A library, childcare centre, kindergarten, school, college, university or other educational institution; ▶ A hospital, surgery or other medical institution; ▶ A protected area, or an area identified under a conservation plan as a critical habitat or an area of major interest, under the <i>Nature Conservation Act 1992</i>; ▶ A marine park under the <i>Marine Parks Act 1982</i>; and ▶ A park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.
Project	Western Basin Dredging and Disposal Project
Project Area	<p>The Project Area encompasses the Western Basin Reclamation Area, the areas of capital and maintenance dredging, and the areas with the potential to be directly impacted by the construction and operation of the proposed Project.</p> <p>The Project Area is generally defined as the subtidal and intertidal areas between the RG Tanna Coal Terminal and the entrance to The Narrows and the area landward of the proposed Western Basin Reclamation Area to the north of the existing Fisherman's Landing Reclamation.</p> <p>Within the Project Area, the bay to the north of the existing Fisherman's Landing Reclamation has generally been referred to as the Western Basin in the technical studies.</p>
Project footprint	<p>The Western Basin Reclamation Area, which is a 235 ha site in the area to the north of the existing Fisherman's Landing Reclamation; and</p> <p>The Dredging Stages 1A, 1B, 2, 3 and 4, which consist of channels, swing basins and berth pockets.</p>
Rating Background Level (RBL)	<p>The overall single-figure background level representing each assessment period (day/evening/night) over the whole monitoring period (as opposed to over each 24 hour period used for the assessment background level). This is the level used for assessment purposes. It is defined as the median value of:</p> <ul style="list-style-type: none"> ▶ All the day assessment background levels over the monitoring period for the day (7 am to 6 pm); ▶ All the evening assessment background levels over the monitoring period for the evening (6 pm to 10 pm); or ▶ All the night assessment background levels over the monitoring period for the night (10 pm to 7 am).



Residual Impact	Changes in the appearance of the landscape or in the composition of available views as a result of development, to people's responses to these changes, and to the overall impacts in regard to visual amenity. This can be positive (i.e., beneficial or an improvement) or negative (i.e., adverse or a detraction)
Sound Pressure Level (SPL)	20 times the logarithm to the base 10 of the ratio of the RMS sound pressure level to the reference sound pressure level of 20 micropascals
Study Area	<p>A Study Area is defined by each of the specialist studies and is specific to the particular impacting process being considered.</p> <p>The Study Area is generally broader than the Project Area, taking in areas that have the potential to be indirectly impacted by the Project and reference areas for ecological studies.</p> <p>The Study Area generally includes the Western Basin Reclamation Area, the existing channels, the proposed capital and maintenance Dredging Stages and offsite areas in The Narrows, the area between Fisherman's Landing and Wiggins Island, Pelican Banks, and the area southeast of Curtis Island.</p>
Visual Catchment	Extent of potential visibility to or from a specific area, feature or proposal