



## **SECTION 11**

Abbreviations, Acronyms and Glossary

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## 11 ABBREVIATIONS, ACRONYMS AND GLOSSARY

### 11.1 ABBREVIATIONS AND ACRONYMS

% per cent

°C degrees Celsius

µg/m<sup>3</sup> micrograms per cubic metre

µm micrometres

µS/cm microSiemens per centimetre

AADT Annual Average Daily Traffic

AAQ NEPM National Environment Protection Ambient Air Quality Measure

ACCC Australian Competition and Consumer Commission

ACHA Aboriginal Cultural Heritage Assessment

ACHCRs Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010

ADG Code Australian Dangerous Goods Code

AEMR Annual Environmental Management Reports

AHIMS Aboriginal Heritage Information Management System

AHMP Aboriginal Heritage Management Plan

AIE Australian Industrial Energy

AIP Aquifer Interference Policy

ALS Airborne Laser Scanning

ANZECC Australian and New Zealand Environmental and Conservation Council

Approved Methods Approved methods for the Modelling and Assessment of Air Pollutants in New South Wales.

AQMP Air Quality Management Plan

ARTC Australian Rail Track Corporation

AS/NZ Australian/New Zealand Standard

AUSRIVAS Australian River Assessment System

BARBOS Biodiversity Assessment Report and Biodiversity Offset Strategy

BC Act NSW *Biodiversity Conservation Act, 2016*

BC Savings Regulation *Biodiversity Conservation (Savings and Transitional) Regulation 2017.*

BCT Biodiversity Conservation Trust

BFMC Bush Fire Management Committee

BlueScope BlueScope Steel Pty Ltd

BoM Bureau of Meteorology

CCL Consolidated Coal Lease

CMSC Act *Coal Mine Subsidence Compensation Act, 2017*

CO<sub>2</sub>-e Carbon dioxide equivalent

CPP Coal Preparation Plant

dB<sub>(Lin)</sub> Linear Decibels

dBA A-weighted decibels

DCCC Dendrobium Community Consultative Committee

DCEC Dendrobium Community Enhancement Committee

DCEP Dendrobium Community Enhancement Program

DEC Department of Environment and Conservation

DECC Department of Environment and Climate Change

DECCW Department of Environment, Climate Change and Water

DEM Dust Extinction Moisture

DI Water	Department of Industry – Water	FBA	NSW Framework for Biodiversity Assessment
DoE	Department of the Environment		
DoEE	Department of the Environment and Energy	FM Act	NSW <i>Fisheries Management Act 1994</i>
DIIS	Department of Industry, Innovation and Science	FSLs	Full Supply Levels
DMR	Department of Mineral Resources	g/m <sup>2</sup> /month	grams per square metre per month
DoP	Department of Planning	GDE	Groundwater Dependant Ecosystems
DP&I	Department of Planning and Infrastructure	GHG Protocol	Greenhouse Gas Protocol
DPE	Department of Planning and Environment	ha	hectares
DRE	Department of Resources and Energy	HEC	Hydro Engineering & Consulting Pty Ltd
DRG	Division of Resources and Geoscience	HVAS	High Volume Air Samples
DSC	Dams Safety Committee	IBRA	Interim Biogeographic Regionalisation of Australia
EGP	Eastern Gas Pipeline	ICNG	<i>Interim Construction Noise Guideline</i> (DECCW, 2009)
EIS	Environmental Impact Statement	ICOMOS	Australian International Council on Monuments and Sites
EMS	Environmental Management Strategy	IEP	Independent Expert Panel for Mining in the Catchment
EP&A Act	<i>Environmental Planning and Assessment Act, 1979</i>	Illawarra Coal	Illawarra Coal Holdings Pty Ltd
EP&A Regulation	<i>Environmental Planning and Assessment Regulation, 2000</i>	INP	Industrial Noise Policy
EPA	Environment Protection Authority	IPART	Independent Pricing and Regulatory Tribunal
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act, 1999</i>	IPC	Independent Planning Commission
EPL	Environment Protection Licence	IPM	Incremental Profile Method
ERA	Environmental Risk Assessment	JBS&G	JBS&G Australia Pty Ltd
ERM	Environmental Resource Management	KFH	Key Fish Habitat
ESD	Ecologically Sustainable Development	km	kilometres
		km <sup>2</sup>	square kilometres
ETL	Electricity Transmission Line	kV	kiloVolt

L	litres	NEPC	National Environment Protection Council
L/s	litres per second		
L <sub>Aeq</sub>	equivalent continuous noise level	NGAF	National Greenhouse Accounts Factors
LALC	Local Aboriginal Land Council	NGER Act	Commonwealth <i>National Greenhouse and Energy Reporting Act, 2007</i>
L <sub>an</sub>	statistical noise exceedance level		
LEP	local environmental plans	NGERS	National Greenhouse Energy Reporting Scheme
LGA	Local Government Area	Niche	Niche Environment and Heritage
LMP	Lighting Management Plan	NMP	Noise Management Plan
m	metres	NNTT	National Native Title Tribunal
m AHD	metres Australian Height Datum	NorBE Test	Net Neutral or Beneficial Effects Test
m <sup>3</sup>	cubic metres		
mBGL	metres below ground level	NPfl	NSW <i>Noise Policy for Industry</i> (EPA, 2017)
Mining SEPP	<i>State Environmental Planning Policy (Mining, Petroleum and Extractive Industries), 2007</i>	NPI	National Pollutants Inventory
		NPV	Net Present Value
ML	megalitres	NPW Act	<i>National Parks and Wildlife Act, 1974</i>
ML	Mining Lease		
ML/annum	megalitres per annum	NPW Regulation	<i>National Parks and Wildlife Regulation, 2009</i>
ML/day	megalitres per day		
mm	millimetres	NPWS	NSW National Parks and Wildlife Service
mm/m	millimetres per metre	NRAR	Natural Resources Access Regulator
MOP	Mining Operations Plan		
MSEC	Mine Subsidence Engineering Consultants	NSESD	National Strategy for Ecologically Sustainable Development
		NSW	New South Wales
Mt	million tonnes	NSW Offset Policy	<i>NSW Biodiversity Offset Policy for Major Projects</i> (OEH, 2014)
Mtpa	million tonnes per annum		
MUSIC	Model for Urban Stormwater Improvement Conceptualisation	NTS Corp Limited	Native Title Services Corporation Limited
NCS	Newcastle Coal Shippers Pty Limited	OEH	Office of Environment and Heritage
NDC	Nationally Determined Contributions	OU	odour units



PCI	Pulverised Coal Injection	SEPP 33	<i>State Environmental Planning Policy No. 33 (Hazardous and Offensive Development)</i>
PCT	Plant Community Type		
PEA	Preliminary Environmental Assessment	SEPP 44	<i>State Environmental Planning Policy No. 44 – Koala Habitat Protection</i>
pH	power of Hydrogen	SEPP 55	<i>State Environmental Planning Policy No. 55 (Remediation of Land)</i>
PHA	Preliminary Hazard Analysis		
PoEO Act	<i>Protection of the Environment Operations Act, 1997</i>	SIDRA	Signalised and Unsignalised Inters Design and Research Aid
Pphm	parts per hundred million	SILO	Scientific Information for Landowners
PSM	Pells Sullivan Meynink		
PSMP	Property Subsidence Management Plan	SIMMCP	<i>Dendrobium Area 3B Swamp Impact Monitoring, Management and Contingency Plan (South32, 2017b)</i>
PSTL	Project Specific Trigger Level		
PUR	Polyurethane Resin	SMP	Subsidence Management Plan
Ramboll	Ramboll Environ Australia Pty Ltd	South32	South32 Limited
RAPs	Registered Aboriginal Parties	SRMS	scaled root mean squared
RBL	Rating Background Level	State and Regional Development SEPP	<i>State Environmental Planning Policy (State and Regional Development) 2011</i>
REF	Review of Environmental Factors		
RING	<i>Rail Infrastructure Noise Guideline (EPA, 2013)</i>	Swamp Offset Policy	<i>Addendum to NSW biodiversity Offsets Policy for Major Projects: Upland swamps impacted by longwall mining subsidence (OEH, 2016)</i>
RMS	NSW Roads and Maritime Services		
RNP	<i>NSW Road Noise Policy (DECCW, 2011)</i>	t	tonnes
ROM	run-of-mine	TARP	Trigger Action Response Plan
SA3	Statistical Area Level 3	TCLP	toxicity characteristics leaching procedure
SCC	specific contaminant concentration	TECs	Threatened Ecological Communities
SDS	Safety Data Sheet		
SEARs	Secretary's Environmental Assessment Requirements	the Minister	NSW Minister for Planning
SEPPs	State Environmental Planning Policy	the Project	Dendrobium Mine – Plan for the Future: Coal for Steelmaking

the proposed action	EPBC 2017/7855	<b>11.2 GLOSSARY</b>	
Three Ports	<i>State Environmental Planning Policy (Three Ports) 2013</i>	Alluvial	A general term for clay, silt, sand and gravel transported by water and deposited, on the bed of a flood plain, river or stream.
SEPP	<i>Policy (Three Ports) 2013</i>		
TMP	Traffic Management Plan		
TSC Act	<i>Threatened Species Conservation Act, 1995</i>	Ambient air quality	The all-encompassing air quality associated with a given environment. It is the cumulative result of emissions (e.g. dust, particulates) from many sources, both near and far.
TSP	total suspended particulates		
Voluntary Land Acquisition and Mitigation Policy	<i>Voluntary Land Acquisition and Mitigation Policy – For State Significant Mining, Petroleum and Extractive Industry Developments (EPA, 2018)</i>	Amenity	Useful and enjoyable quality.
UNFCCC	United Nations Framework on Climate Change	Aquatic	Living in or on water, or concerning water.
WAL	Water Access Licence	Aquifer	A sub-surface rock formation containing water in recoverable quantities.
WBCSD	World Business Council for Sustainable Development		
WIMMCP	<i>Dendrobium Area 3B Watercourse Impact Monitoring, Management and Contingency Plan (South32, 2017a)</i>	Background	The condition (e.g. noise levels) already present in an area before the commencement of a specific activity.
Wingecarribee LEP	Wingecarribee Local Environmental Plan 2010	Baseflow	The discharge of sub-surface water into a stream (i.e. groundwater seepages).
Wollondilly LEP	Wollondilly Local Environmental Plan 2011		
Wollongong LEP	Wollongong Local Environmental Plan 2009	Baseline monitoring	Monitoring conducted over time to collect a body of information to define specific characteristics of an area (e.g. species occurrence or noise levels) prior to commencement of a specific activity.
WRI	World Resources Institute		
		Biological diversity	The diversity of different species of plants, animals and micro-organisms, including the genes they contain, in the ecosystem of which they are part.

Catchment	The entire land area from which water (e.g. rainfall) drains to a specific watercourse or water body.	Drift	An underground passage driven through rock to access or intersect a coal seam.
Coal Wash	By-product of the coal washing process generally comprising a mixture of carbonaceous shale and mudstone with minor quantities of sandstone and low-quality coal.	Dyke	A sheet-like vertical intrusion of igneous rock cutting across the strata of older rocks.
Coking Coal	Self-coking coal with ash of less than 10% and volatile matter of 21-23%, excellent capacity for carrying 'soft' coking coals in a blend.	Ecologically Sustainable Development (ESD)	Development that improves the quality of life, in a way that maintains the ecological processes on which life depends.
Conveyor	Fixed mechanical apparatus consisting of a continuous moving belt used to transport coal from one place to another.	Ecosystem	An interacting system of animals, plants, other organisms and non-living parts of the environment.
Cross Section	A two-dimensional diagram of an object presented as if the object had been cut along its length.	Electrical Conductivity (EC)	The ability of a substance (either solid, liquid or gas) to transmit electricity.
Crusher	That part of a preparation plant where material is mechanically crushed into smaller pieces.	Emission	The discharge of a substance (e.g. dust) into the environment.
Cyclone	A conical vessel that uses centrifugal action to separate particulate matter of differing specific gravity.	Fault	Major fracture of the earth's crust caused by the relative movement of the rock masses on either side.
dBA	Decibels (A-weighted scale); unit used for most measurements of environmental noise; the scale is based upon typical responses of the human ear to sounds of different frequencies.	Fracturing	Fractures formed in a stream bed or rockbar which result in water diversion and reduced pool water levels.
dB(L <sub>in</sub> )	Linear decibels; measurable effect of an event (e.g. blast) on air pressure including measurement of generated energy which is below the limit of human hearing.	Gate roads	An underground roadway (tunnel) that provides access to a working longwall for continuous mining.
		Greenhouse gases	Gases with potential to cause climate change (e.g. methane, carbon dioxide and non-methane volatile organic compounds). Usually expressed in terms of carbon dioxide equivalent.



Groundwater	All waters occurring below the land surface; the upper surface of the soils saturated by groundwater in any particular area is called the watertable.	Inter-generational equity	That the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations.
Habitat	The particular local environment occupied by an organism.	Intra-generational equity	The concept that the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of their own generation.
Hardstand areas	Flat or gently sloping surface that has been engineered such that it is suitable for trafficking by vehicles and/or infrastructure.	$L_{Aeq}$	The equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.
Hopper	A container/bin used for holding coal material.	Land capability	A method of land use assessment used to estimate the ability of the land to support a particular land use. Classification is based on an assessment of the land's biophysical characteristics.
Hydraulic properties	Parameters which measure the rate at which water moves through a soil/rock mass.	Macroinvertebrate	Larger invertebrates (animals without backbones) which can be studied without a microscope.
Igneous	A rock which originated as molten magma from beneath the earth's surface and subsequently came to the surface as an extrusion, or remained below ground as an intrusion.	Permeability	The ability of a rock or soil to allow fluid to pass through it.
Income	The amount of money or its equivalent received during a period of time in exchange for labour or services, from the sale of goods or property, or as profit from financial investments.	pH	A measure of the degree of acidity or alkalinity of a solution; expressed numerically (logarithmically) on a scale of 1 to 14, on which 1 is most acid, 7 is neutral, and 14 is most basic (alkaline).
Infrastructure	The supporting installations and services that supply the needs of the Project.	Population	A group of individuals of one species in an area.
<i>In-situ</i>	A term used to distinguish material (e.g. soils, minerals, fossils, etc.) found in its original position of formation, deposition, or growth, as opposed to transported material.	Portal	The surface entry or exit point of an underground access passage.

Potable water	Water of quality suitable for human consumption.	Spontaneous Combustion	Self-heating and ignition of a combustible material such as coal.
Recharge	The addition of water to an aquifer, directly from the surface, indirectly from the unsaturated zone, or by discharge from overlying or underlying aquifer systems.	Stratigraphic	Stratigraphy – The branch of geology concerned with the origin, composition, sequence, and correlation of rock strata.
Rehabilitation	The restoration of a landscape and especially the vegetation following its disturbance.	Substrate	An underlying layer (e.g. of sediment under water).
Relative humidity	The ratio of actual moisture in the air to the amount the air could hold if saturated, at a given temperature.	Terrestrial	Living or growing on the land.
Remnant vegetation	Native vegetation remaining after widespread clearing has taken place.	Total suspended particulates (TSP)	Particulate matter suspended in solution of air.
Riparian	Pertaining to, or situated on, the bank of a body of water, especially a watercourse such as a river.	Total suspended solids (TSS)	A common measure used to determine suspended solids concentrations in a waterbody and expressed in terms of mass per unit of volume (e.g. milligrams per litre).
Run-of-mine (ROM)	Raw coal, stockpiled and used to feed the crusher in the coal preparation plant.	Value-added	The difference between the value of a firm's output and the cost of the inputs of raw materials, components or services brought in to produce that output.
Runoff	A portion of precipitation (rain, hail and snow) that flows across the ground surface as water.	Ventilation Shaft	An opening on the land surface down to the underground workings in which fresh air is introduced or ventilation air is exhausted.
Salinity	The total content of dissolved solids in groundwater or surface water, commonly expressed as parts of dissolved solids per million parts of solution, or milligrams of dissolved solids per litre of solution (mg/L).		
Seepage	Liquid or fluid such as water, seeping or flowing from beneath the ground to the surface.		