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EGI	Environmental Geochemistry International	HFC	hydroflurocarbon
EMP	Environmental Monitoring	HVAS	high volume air sampler
	Programme	IBRA	Interim Biogeographic Regionalisation of Australia
ENCM	Environmental Noise Control Manual	i.e.	that is
EPA	Environment Protection Authority	Illawarra BFMC	Illawarra Bush Fire Management Committee
EP&A Act	Environmental Planning and Assessment Act, 1979	Illawarra REP	Illawarra Regional Environmental Plan No 1
EP&A Regulation	Environmental Planning and Assessment Regulation, 2000	INP	Industrial Noise Policy
EPBC Act	Environment Protection and Biodiversity Conservation Act, 1999	IPCC	Intergovernmental Panel on Climate Change
EPL	Environment Protection Licence	K	potassium
ERA	Environmental Risk Analysis	kg	kilogram
	·	km	kilometre
ESAP	Energy Savings Action Plan	km^2	square kilometre
ESCMP	Erosion and Sediment Control Plan	km/hr	kilometre per hour
ESD	Ecologically Sustainable	kV	kilovolt
EWG	Development Executive Working Group	L _{Aeq}	equivalent continuous sound pressure level
F	fluoride	LGA	local government area
Fe	iron	m	metre
FEL	front end loader	М	million
FFMP	Flora and Fauna Management Plan	m ³ /s	cubic metres per second
g/m ² /month	grams per square metre per month	Major Projects SEPP	State Environmental Planning Policy (Major Projects) 2005
GHG	greenhouse gas	MCP	Mine Closure Plan
GRP	Gross Regional Product	Mg	magnesium
Greater	Greater Metropolitan Regional	mg/L	milligrams per litre
Metropolitan REF	Environmental Plan No 2— Georges River Catchment	Mining SEPP	State Environmental Planning Policy (Mining, Petroleum Production and Extractive
Gt	Giga tonnes		Industries) 2007
H ₂ SO ₄	sulphuric acid	ML	megalitre
ha	hectare	MLA	Mining Lease Application
HCO ₃	bicarbonate	ML/day	megalitre per day
HCPL	Helensburgh Coal Pty Ltd	mm	millimetre
Heggies	Heggies Pty Ltd	mm/s	millimetres per second



mm/m	millimetres per metre	PFC	perhydroflurocarbon	
Mn	manganese	рН	measure of acid/alkaline condition	
MOP	Mining Operations Plan	PHA	Preliminary Hazard Analysis	
MREMP	Mining, Rehabilitation and Environmental Management	PM ₁₀	particulate matter less than 10 microns in size	
MSB	Process Mine Subsidence Board	PO ₄	phosphate	
MSDS	Material Safety Data Sheet	POEO Act	Protection of the Environment Operations Act, 1997	
MSEC	Mine Subsidence Engineering Consultants	PRP	Pollution Reduction Programme	
Mt	million tonnes	PUR	polyurethane	
		RMZ	Risk Management Zone	
Mtpa	million tonnes per annum	ROM	run-of-mine	
MW N₂O	megawatt nitrous oxide	RoTAP	Rare or Threatened Australian Plants	
Na	sodium	RTA	Roads and Traffic Authority	
NAF	non-acid forming	SADA	SADA Services Pty Limited	
NEPM	National Environment Protection	SCA	Sydney Catchment Authority	
NOA Fastana	Measure National Greenhouse Accounts Factors	SCI	Southern Coalfield Inquiry	
NGA Factors		SCPR	Southern Coalfield Panel Report	
NGER Act	National Greenhouse and Energy	SD	Statistical Division	
NGO	Reporting Act, 2007 non-government organisation	SEPP	State Environmental Planning Policy	
NH ₄ -N	ammonium nitrogen	SEPP 33	•	
NHMRC	National Health and Medical	OLIT 33	State Environmental Planning Policy No. 33 – Hazardous and Offensive Development	
	Research Council	SEPP 44	State Environmental Planning	
NPWS	National Parks and Wildlife Service	OLIT 44	Policy No. 44 - Koala Habitat Protection	
NSESD	National Strategy for Ecologically Sustainable Development, 1992	SEPP 55	State Environmental Planning Policy No. 55 (Remediation of	
NSW	New South Wales	SESIAHS	Land) South East Sydney and Illawarra Area Health Service	
NTU	nephelometric turbidity units			
OHS	Occupational Health and Safety	SF ₆	sulphur hexafluoride	
OTDR	Optical Time Domain Reflector	SLA	statistical local area	
ou	odour units	SMCMA	Sydney Metropolitan Catchment	
PAD	potential archaeological deposit	OMB	Management Authority	
Peabody	Peabody Pacific Pty Limited	SMP	Subsidence Management Plan	
Pacific		So ₄	sulphate	



Sydney Water Catchment **SWCM Act**

Management Act, 1998

SWGMP Surface Water and Groundwater

Monitoring Programme

SWMP Surface Water Management Plan

tonne

TAPM The Air Pollution Model

TARP Trigger and Response Plan

tonnes per annum tpa

tonnes per hour tph

TSC Act Threatened Species Conservation

Act. 1995

TSP total suspended particulates

TWG Technical Working Group

UNFCC United Nations Framework

Convention on Climate Change

٧ volt

viz. namely

WBCSD World Business Council for

Sustainable Development

WCC Wollongong City Council

Wollongong Local Environmental Wollongong

LEP Plan, 1990

Wollongong Wollongong City Council Section

Contributions 94A Development Contributions

Plan Plan

WRI World Resources Institute

WRMP Waratah Rivulet Management

WSAP Water Savings Action Plan

micrometre μm

μg/m³ micrograms per cubic metre

μS/cm microSiemens per centimetre

٥С degrees Celsius 8.2 **GLOSSARY**

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.

Ambient noise

The all-ecompassing noise associated with a given environment. It is the cumulative

result of sounds from many sources, both near and far.

Amenity

Useful and enjoyable quality.

Aquatic

Living in or on water, or

concerning water.

Aquifer

A sub-surface rock formation containing water in recoverable

quantities.

Background

The condition (e.g. noise levels) already present in an area before the commencement of a specific activity (e.g. the Snapper Mine).

Backfilling

The refilling of mined areas.

Baseflow

The discharge of sub-surface water into a stream (i.e. groundwater seepages).

Baseline studies

Studies 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 an activity

(e.g. a mining operation).

Biological diversity

The diversity of different species of plants, animals and microorganisms, including the genes they contain, in the ecosystem of

which they are part.

Bund

An earth, rock or concrete wall or mound constructed to restrict the inflow or outflow of liquids or

noise.

Catchment

The entire land area from which water (e.g. rainfall) drains to a specific watercourse or water body.

Coking coal

Coal with more than 15% volatile matter and 80% carbon, which can produce a crush resistant

coke.

Conveyor

Fixed mechanical apparatus consisting of a continuous moving belt used to transport coal from one place to another.

Cross section

A two-dimensional diagram of an object presented as if the object had been cut along its length.

Crusher

That part of a processing plant where material is mechanically crushed into smaller pieces.

Cyclone

A conical vessel that uses centrifugal action to separate particulate matter of differing specific gravity.

dB

Decibel; unit used to express sound intensity.

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.

dBL

Linear decibels; measurable effect of event (e.g. blast) on air pressure including measurement of generated energy which is below the limit of human hearing. Drift

A passage driven through country rock to intersect a vein or seam.

Dyke

A sheetlike vertical intrusion of igneous rock cutting across the strata of older rocks.

Ecologically Sustainable Development (ESD)

Development that improves the quality of life, in a way that maintains the ecological processes on which life depends.

Ecosystem

An interacting system of animals, plants, other organisms and nonliving parts of the environment.

Electrical Conductivity (EC)

The ability of a substance (either solid, liquid or gas) to transmit electricity.

Emission

The discharge of a substance (e.g. dust) into the environment.

Endemic

Native plant or animal restricted to a specific locality or geographic region.

Fault

Major fracture of the earth's crust caused by the relative movement of the rock masses on either side.

Floristics

(phytogeography) The study of the geography of plants, particularly their distribution at different taxonomic levels, i.e. family, genus and species. Patterns of distribution are interpreted in terms of climatic and anthropogenic influence, but above all in terms of earlier continental configurations and migration routes.

Gateroads

An underground roadway (tunnel) that provides access to a working longwall panel 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 global warming potential 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 water table.

Habitat

The particular local environment occupied by an organism.

Hardstand areas

Flat or gently sloping surface that has been engineered such that it is suitable for trafficking by vehicles and/or for the construction of structures on it.

Herpetofauna

Collective term for reptiles and amphibians.

Hopper

A container/bin used for holding broken ore.

Hydraulic Conductivity

A measure of the rate at which water moves through a soil mass. It is the volume of water that moves within a unit of time under a unit hydraulic gradient through a unit cross-sectional area that is perpendicular to the direction of flow.

ibid.

In the same place.

Igneous

A rock which originated as molten magma from beneath the earth's surface and subsequently cam to the surface as an extrusion, or remained below ground as an intrusion.

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.

Indirect Regional Output

The gross value of business turnover that arises in other enterprises through production-induced linkages (other businesses supplying inputs to production) and consumption-induced linkages (other businesses supplying goods and services demand by employees of the enterprise).

Infrastructure

The supporting installations and services that supply the needs of the Project.

Input-output analysis

The analysis of the flows of good among industries.

In-situ

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.

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.

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.

L_{Aeq}

The equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.





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.

Lithology

Characteristics of rock including mineral composition, structure, grain-size and arrangement.

Macroinvertebrate

Larger invertebrates (animals without backbones) which can be studied without a microscope.

Overburden

Overburden material overlying target minerals that must be removed prior to mining of the target minerals.

Permeability

The ability of a rock or soil to allow fluid to pass through it.

A measure of the degree of

рΗ

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 acid, and 14 is most basic

(alkaline).

Population

A group of individuals of one species In an area.

Portal

The surface entry or exit point of an underground access passage.

Potable water

Water of quality suitable for human consumption.

Quartz

The most abundant and common mineral, consisting of crystalline silica (silicon dioxide, SiO₂), crystallizing in the trigonal system. Reagents

Chemicals used as part of an industrial/mining process.

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.

Rehabilitation

The restoration of a landscape and especially the vegetation following its disturbance.

Relative humidity

The ratio of actual moisture in the air to the amount the air could hold if saturated, at a given

temperature.

Remnant vegetation

Native vegetation remaining after widespread clearing has taken

place.

Riparian

Pertaining to, or situated on, the bank of a body of water, especially a watercourse such as a river.

Run-of-mine (ROM)

Run-of-mine ore, stockpiled and used to feed the crusher.

Runoff

That portion of precipitation (rain, hail and snow) that flows across the ground surface as water.

Salinity

The total content of dissolved solids in groundwater, commonly expressed as parts of dissolved solids per million parts of solution, or milligrams of dissolved solids per litre of solution (mg/L); the significance of salinity depends on the nature as well as the amount

of the dissolved solids.





Seepage

Liquid or fluid such as water, seeping or flowing from beneath the ground to the surface.

Spontaneous Combustion

Self heating and ignition of a combustible material such as coal.

Stratigraphic

Stratigraphy – The branch of geology concerned with the origin, composition, sequence, and correlation of rock strata.

Substrate

An underlying layer (e.g. of sediment under water).

Temperature inversion

An atmosphere phenomenon in which air temperature increases with height over a particular interval.

Terrestrial

Living or growing on the land.

Thermal Coal

The general term for coal used in energy generation.

Total suspended particulates (TSP)

Particulate matter suspended in solution of air.

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).

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.

Ventilation Shaft

An opening on the land surface down to the underground workings in which fresh air is introduced.



