

6 ABBREVIATIONS

Abbreviation	Description
AAO	Australian Astronomical Observatory
AADT	Average Annual Dailey Traffic
ABARES	Australian Bureau of Agricultural and Resource Economics and Sciences
ABS	Australian Bureau of Statistics
ADWG	<i>Australian Drinking Water Guideline (ADWG) (NHMRC, 2011)</i>
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
AIP	<i>Aquifer Interference Policy (NOW, 2012)</i>
AM	Morning period
AMD	Acid Mine Drainage
ANFO	Ammonium Nitrate and Fuel Oil
ANZECC	Australian and New Zealand Environment Conservation Council
Approved Methods	<i>Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA, 2005)</i>
ARI	Average Recurrence Interval
ARTC	Australian Rail Track Corporation
AS	Australian Standard
AUD	Australian Dollar
AWBM	Australian Water Balance Model
BAR	Basic right turn
Basin Plan	<i>Basin Plan (Commonwealth of Australia, 2012)</i>
BCA	Benefit Cost Analysis
BCA Guidelines	<i>Guideline for the use of Cost Benefit Analysis in Mining and Coal Seam Gas Proposals (DP&I, 2012c)</i>
BDL	Baseline Diversion Limit
Biobanking Assessment Methodology	<i>BioBanking Assessment Methodology and Credit Calculator Operational Manual (DECC, 2009)</i>
BOM	Bureau of Meteorology
BPPA	Breeza Plains Progress Association
BSAL	Biophysical Strategic Agricultural Land
CCAG	Caroona Coal Action Group
CEEC	Critically Endangered Ecological Communities
CFMEU	Construction, Forestry, Mining and Energy Union
CH ₄	Methane
CHPP	Coal Handling and Preparation Plant

Abbreviation	Description
cm	Centimetres
CMA	Namoi Catchment Management Authority
CO ₂	Carbon dioxide
CO _{2-e}	Carbon dioxide equivalent
COAG	Council of Australian Governments
CPP	Coal Preparation Plant
Crown Lands	NSW Crown Lands
dB	Decibels
dBA	Decibels (A-weighted scale)
DEEWR	Commonwealth Department of Education, Employment and Workplace Relations
Demographic Profile	<i>Analysis of Changing Resident Demographic Profile of Australia's Mining Communities</i> (KPMG, 2013)
DGRs	Director-General's Requirements
DOE	Commonwealth Department of Environment
DOS	Degree of Saturation
DP&I	NSW Department of Planning and Infrastructure
DRE	NSW Division of Resources and Energy
DSE	Dry Sheep Equivalent
DTIRIS	NSW Department of Trade and Investment, Regional Infrastructure and Services
EC	Electrical Conductivity
EEC	Endangered Ecological Communities
EIS	<i>Watermark Coal Project Environmental Impact Statement</i>
EL	Exploration Licence
enHealth	Environmental Health Committee
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPA	NSW Environment Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Commonwealth)
EPL	Environmental Protection Licence
ESD	Ecologically Sustainable Development
FC NSW	Forestry Corporation NSW
g	Gram
GDE	Groundwater Dependent Ecosystem
GHG	Greenhouse gas

Abbreviation	Description
GL	Gigalitres
GSC	Gunnedah Shire Council
ha	Hectare
Hansen Bailey	Hansen Bailey Environmental Consultants
HEL	Hunter Environmental Lobby
HVAS	High Volume Air Sampler
Hz	Hertz
IESC	Commonwealth Department of Environment – Independent Expert Scientific Committee
INP	<i>NSW Industrial Noise Policy (EPA, 2000)</i>
Interim Protocol	<i>Interim Protocol for Site Verification and Mapping of Biophysical Strategic Agricultural Land (OEH and OAS&FS, 2013)</i>
IO analysis	Input-Output analysis
KLC	Kinetic Leachate Column
kg	Kilogram
kHz	Kilohertz
kL	Kilolitre
km	Kilometres
km ²	Square kilometres
KPI	Key Performance Indicator
L	Litre
LGA	Local Government Area
LOS	Level of Service
LPSC	Liverpool Plains Shire Council
m	Metre
M	Million
m ²	Square metre
m ³	Cubic metre
mg	Milligram
Mining Act	<i>Mining Act 1992</i>
ML	Megalitre
mm	Millimetre
MMPA	Marys Mount Protection Alliance
MNES	Matters of National Environmental Significance
MOP	Mining Operations Plan
Mt	Million tonne
Mtpa	Million tonnes per year

Abbreviation	Description
NAF	Non-Acid Forming
NPCA	National Plan for Clean Air
NCN	Namoi Community Network
NEPM	National Environment Protection Measure
NFA	NSW Farmers Association
NFA – Gunnedah	NSW Farmers Association – Gunnedah District Council
NGER	National Greenhouse Gas and Energy Reporting
NICE	Northern Inland Council for the Environment
NMD	Neutral Mine Drainage
NO ₂	Nitrogen dioxide
NOW	NSW Office of Water
NSW	New South Wales
NTSCorp	Native Title Services Corporation
NZS	New Zealand Standard
OAS&FS	NSW Office of Agricultural Sustainability and Food Security
OEA	Overburden Emplacement Area
OEH	NSW Office of Environment and Heritage
PAF	Potential Acid Forming
PCI	Pulverised Coal Injection
PEL	Petroleum Exploration Licence
PM	Afternoon period
PM _{2.5}	Particulate Matter with a diameter of less than 2.5 µm
PM ₁₀	Particulate Matter with a diameter of less than 10 µm
ppm	Parts per million
The Project	Watermark Coal Project
PSNL	Project Specific Noise Limit
Q _R	Volume of traffic turning right
Q _M	Volume of traffic turning left
RAP	Registered Aboriginal Party
RL	Reduced Level
RMS	NSW Roads and Maritime Services
Roads Act	<i>Roads Act 1993</i>
ROM	Run-of-Mine
RTS	Response to Submissions document
s	Second
Santos	Santos QNT Pty Ltd.

Abbreviation	Description
Shenhua Watermark	Shenhua Watermark Coal Pty Ltd
SOSLP	SOSLP Liverpool Plains
SRLUP	<i>Strategic Regional Land Use Plan – New England North West (DP&I, 2012a)</i>
Study Area	Gunnedah, Liverpool Plains, Tamworth Regional, Narrabri and Upper Hunter LGAs
Sub Regional Study Area	Gunnedah, Liverpool Plains and Tamworth Regional LGAs
SDL	Sustainable Diversion Limit
t	Tonne
TARP	Trigger Action Response Plan
TDS	Total Dissolved Solids
TEOM	Tapered Element Oscillation Microbalance
TNSW	NSW Transport
TRC	Tamworth Regional Council
TSC Act	<i>Threatened Species Conservation Act 1995</i>
TSP	Total Suspended Particulates
TSS	Total Suspended Solids
USD	United States Dollar
VPA	Voluntary Planning Agreement
VWP	Vibrating Wire Piezometer
WAD	Work Authorisation Deed
WAL	Water Access Licence
Water Act	<i>Water Act 1912</i>
WM Act	<i>Water Management Act 2000</i>
Working Draft	<i>Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities (DEC, 2004)</i>
WS	Wilderness Society
Symbols	
°	Degrees
\$	Dollar
µg	Microgram
µm	Micrometre
µS	Microsiemens
%	Percent