



PART I

Glossary of Technical Terms, Acronyms and Symbols



I.1 Glossary of Terms

Term	Definition
Alternative waste technology	Technology that diverts waste away from landfill, recovers more resources from the waste stream and minimises the impact on the environment. Provides a more sustainable solutions and can include mechanical separation, biological processes, thermal technologies and mechanical biological treatment.
Aquifer	Rock or soil formation containing groundwater
Aquitard	A layer of material that confines the aquifer.
Biogas	A clean gas and source of renewable energy that is produced by the biological breakdown of organic matter in the absence of oxygen.
Biological treatment	Covers a range of technologies to deal with residual municipal waste.
Catchment	The area drained by a stream, lake or other body of water.
Cumulative impact	A significant impact created by accumulation or successive additions of individual impacts, which may not in themselves be significant.
Ecologically sustainable development	Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
Effluent	Liquid industrial waste or wastewater, which may or may not have been passed through a type of purification process.
Emission	The release of material into the atmosphere (e.g. gas, noise).
Environmental management plan	A document setting out the management, control and monitoring measures to be implemented during construction (a construction environmental management plan) and /or operation (operational environmental management plan) of a development, to avoid or minimise the potential environmental impacts identified during an environmental assessment process.
Flora and fauna	Plants and animals.
Greenhouse gases	Gases that accumulate within the earth's atmosphere (primarily water vapour, carbon dioxide and methane) and contribute to global climatic change/global warming (the 'greenhouse effect').
Greenhouse gases (scope 1 and 2)	<p>Scope 1: Direct greenhouse gas emissions from sources falling within the operational boundary of the assessment, from sources that are owned and/or operated by the organisation in question. Scope 1 emissions include direct carbon dioxide emissions from the combustion of stationary or transportation fuels (natural gas, coal, petrol and diesel) in boilers, furnaces, vehicles etc, and fugitive emissions of greenhouse gases from chemical processes, such as wastewater treatment and some product manufacturing.</p> <p>Scope 2: Indirect greenhouse gas emissions associated with purchased electricity, heat or steam. These emissions physically occur at the facility where the electricity, heat or steam is generated.</p>
Hydrology	The science dealing with water on the land or under the surface, its properties and distribution.
Material recycling facility	A place where kerbside recyclables are sorted into paper, metals and plastics.
Material separation	Separation of a combined waste stream into different materials.



Particulate	Small particles, usually occurring in suspension.
pH	Measure of acidity (or alkalinity).
Project approval	A approval granted under Section 75J of the NSW <i>Environmental Planning and Assessment Act 1979</i> .
Putrescible	Capable of biological decomposition.
Sewer	A conduit for carrying of wastewater (sewage).
The Project	Orange Resource Recovery and Waste Management Project
The Proponent	Orange City Council
Threatened species	Species of animals or plants that are at risk of extinction (also known as 'endangered species') or becoming endangered within the next 25 years ('vulnerable species'), defined by the <i>Threatened Species Conservation Act 1995</i> .
Water balance	Modelling the use of water in a development.



I.2 List of Abbreviations

Abbreviation	Name
AFB	American Foul Brood
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
AWS	Automatic Weather Station
AWT	Alternative Waste Technology
BOD	Bathurst, Orange, Dubbo
CEMP	Construction Environmental Management Plan
C&I	Commercial and Industrial
C&D	Construction and Demolition
CPRS	Carbon Pollution Reduction Scheme
DA	Development Application
DECC	NSW Department of Environment and Climate Change (now DECCW)
DECCW	NSW Department of Environment and Climate Change and Water (incorporating the former NSW Environment Protection Authority/EPA)
DG	Director-General
DOP	Department of Planning
DPI	Department of Primary Industries (now Industry and Investment NSW)
DWE	Department of Water and Energy (now DECCW)
EA	Environmental Assessment
EAT	Emerson Aggregate Test
EC	Electrical Conductivity
ECRTN	Environmental Criteria for Road Traffic Noise
EIS	Environmental Impact Statement
EMP	Environmental Management Plan
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPBC Act	Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i>
EPL	Environment Protection Licence
ESD	Ecologically Sustainable Development
GCO	Golden Cross Operations Pty Ltd
GHD	GHD Pty Ltd
GPT	Gross Pollutant Trap
HDPE	High Density Polyethylene
INP	Independent Noise Policy
LALC	Local Aboriginal Land Council



LCA	Life Cycle Assessment
LEMP	Landfill Environmental Management Plan
LEP	Local Environmental Plan
LGA	Local Government Area
LLDPE	Low Linear Density Polyethylene
LOS	Level of Service
LP1	Leachate Pond 1
MRF	Materials Recovery Facility
MSW	Municipal Solid Waste
NEPC	National Environmental Protection Council
NEPM	National Environment Protection Measure
NPW Act	<i>National Parks and Wildlife Act 1974</i>
NPWS	National Parks and Wildlife Service
NSW	New South Wales
OEMP	Operational Environmental Management Plan
OH&S	Occupational Health and Safety
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
PPE	Personal Protective Equipment
PSA	Particle Size Analysis
PSNL	Project Specific Noise Levels
RBL	Rating Background Levels
RL	Reduced Level
RRC	Resource Recovery Centre
RRMP	NetWaste Regional Resource Management Plan
RWC	R W Corkery & Co Pty Ltd
SEPP	State Environmental Planning Policy
SF	Service Flow
SMU	Soil Mapping Unit
SWAP	Surface Water Assessment Plan
TDS	Total Dissolved Solids
TPHs	Total Petroleum Hydrocarbons
TSC Act	<i>Threatened Species Conservation Act 1995</i>
TSP	Total Suspended Particulates
TEOM	Tapered Element Oscillating Microbalance
VENM	Virgin Excavated Natural Materials
WARR Act	<i>Waste Avoidance and Resource Recovery Act 2001</i>
WARRS	Waste Avoidance and Resource Recovery Strategy
WCS	Wright Corporate Strategy Pty Ltd

I.3 Units of Measure

Length	mm	Millimetres
	m	Metres
	km	Kilometres
	RL	Reduced Level
Area	m ²	Square metres
	ha	Hectares
Volume	L	Litres
	kL	Kilolitres
	v/v	Volume for volume
	m ³	Cubic metres
Mass	µg	Micrograms
	mg	Milligrams
	g	Grams
	kg	Kilogram
Noise	dB	Decibel – unit of sound measurement
	dB(A)	Unit used to measure 'A-weighted' sound pressure levels
	Hz	Hertz – unit used to measure frequency
	L _N	Noise exceedance level (N = percentage of sampling period)
Time	s	Seconds
Odour	OU	Odour Units
Miscellaneous	%	Percentage
	\$	Australian dollars
	@	At
	°C	Degrees Celsius
	°	Degree (angle between slope and horizontal)
	pH	Measure of acidity or alkalinity