Googong Township water cycle project

Environmental assessment Volume 1





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Statement of validity

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Statement of validity

Statement of validity: I certify that I have prepared the contents of the environmental assessment and to the best of my knowledge:

 It is in accordance the Director-General's requirements dated 12 January 2009.

· The information contained in the document is neither false nor misleading.

Signature:

Date: 11 November 2010

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List of abbreviations

Abbreviation	Definition
AEC	Areas of environmental concern
ANZECC	Australian and New Zealand Environment Conservation Council
AS	Australian standard
ВС	Brown Consulting
BNAC	The Buru Ngunawal Aboriginal Corporation
BNR	Biological nutrient removal
BOD	Biological oxygen demand
ВоМ	Bureau of Meteorology
BWPS	Bulk water pumping station
CBLDA	Consultative Body on Land Development and Artefacts
CEMP	Construction environmental management plan
CIC	CIC Australia Ltd
СМЈА	C. M. Jewell & Associates
COD	Chemical oxygen demand
DA	Development application
DECCW	Department of Environment, Climate Change and Water
DEWHA	Department of Environment, Water, Heritage and the Arts
DGRs	Director General Requirements
DO	Dissolved oxygen
DoP	Department of Planning
DWE	Department of Water and Energy
EC	Elton Consulting
EA	Environmental assessment
ECRTN	Environmental Criteria for Road Traffic Noise
EEC	Endangered ecological communities
EIS	Environmental impact statement
EM	Electromagnetic
ENCM	Environmental Noise Control Manual
EP	Equivalent population
EPI	Environmental planning instrument
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999

Abbreviation	Definition
EP&A Act	Environmental Planning and Assessment Act 1979
ESD	Ecologically sustainable development
GDA	Googong Dam Area
GDE	Groundwater-dependent ecosystems
GSAHS	Greater Southern Area Health Service
HLZ	High-level zone
INP	Industrial Noise Policy
IPART	Independent Pricing and Regulatory Tribunal
IWC	Integrated water cycle
IWCMS	Integrated water cycle management strategy
L	Litre
LAeq	Equivalent continuous noise level
LEP	Local Environmental Plan
LES	Local Environmental Study
LoS	Level of Service
m	Metre
m ²	Square metre
MBR	Membrane bioreactor
ML	Megalitre
MoU	Memoranda of understanding
MR	Manidis Roberts
MSDS	Material safety data sheet
MUSIC	Model for Urban Stormwater Improvement Conceptualisation
NES	National environmental significance
NH ₄	Ammonium
NH1A	Neighbourhood 1A
NLALC	Ngunnawal Local Aboriginal Land Council
NSW	New South Wales
NTU	Turbidity
NOx	Oxides of nitrogen
O/E	Observed and expected ratio
OEMP	Operational environmental management plan
ou	Odour units
PAC	Planning Assessment Commission
PAD	Potential archaeological deposits

Abbreviation	Definition
PC	Palerang Council
PEA	Preliminary environmental assessment
PoEO Act	Protection of the Environment Operations Act 1997
PER	Public environment report
PFM	Planning focus meeting
РНА	Preliminary hazard analysis
PLC	Program logic controller
PPR	Preferred project report
PSNL	Project specific noise level
QCC	Queanbeyan City Council
REP	Regional Environmental Plan
RTA	NSW Roads and Traffic Authority
SCADA	Supervisory Control and Data Acquisition
SEPP	State Environmental Planning Policy
SoC	Statement of commitments
SPS	Sewage pumping stations
STP	Sewage treatment plant
TDS	Total dissolved solids
TN	Total nitrogen
TNE	Traditional Ngarigo Elders
TP	Total phosphorous
TSR	Traveling stock reserves
TSS	Total suspended solids
UV	Ultraviolet
VIA	Visual impact assessment
VPA	Voluntary Planning Agreement
WARR Act	Waste Avoidance and Resource Recovery Act 2001
WRP	Water recycling plant
WSA	Title prefix for codes developed by Water Services Association of Australian
WSAA	Water Services Association of Australia
WSUD	Water-sensitive urban design
WTP	Water treatment plant