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Terminals Australia

Parkes Intermodal Terminal

Environmental Assessment for Concept
Approval

February 2006



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Appendices

- A Director General's Requirements
- B Design Brief for Road Traffic Infrastructure
- C Noise Assessment
- D Water Management Assessment
- E Preliminary Risk Screening
- F Heritage Assessment
- G Ecological and Bushfire Assessment
- H Sustainability Report



Certification by Author

Submission of Environmental Assessment

Prepared under the Environmental Planning and
Assessment Act 1979, Section 75H

Environmental assessment prepared by:

Name	Andrew Ginns
Qualifications	Bachelor of Science
Address	GHD Pty Ltd 10 Bond Street Sydney NSW 2000

In respect of:

Project to which Part 3A applies

Applicant name	Terminals Australia Pty Ltd
Applicant address	47 Phillip Street, Sydney, 2000
Land to be developed	Lot 1 DP 859593, Lot 1 DP 1082995, Lot 6 DP 857631, Lot 98 & 99 DP 750179, Lot 360 DP 750179, Brolgan Road, Parkes, NSW.
Proposed development	Seek Concept Approval for the construction and operation of an intermodal terminal for the large-scale transport and warehousing/storage of freight.

Environmental assessment	An environmental assessment is attached
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Certificate

I certify that I have prepared the contents of this document
and to the best of my knowledge:

- » It is in accordance with the requirements of Part 3A;
- » It contains all available information that is relevant to
the environmental assessment of the development to
which it relates; and
- » The information contained in the document is neither
false nor misleading.

Signature

Name Andrew Ginns

Date 16/02/2006



Glossary of terms

Aboriginal place	A place which is of contemporary, spiritual or mythological importance according to Aboriginal culture or custom, but which has no physical remains.
Aboriginal site	A place with evidence of Aboriginal occupation.
Acoustic	Pertaining to the sense or organs of hearing, or the science of sound.
AUR intersection	Auxillary lane right turn - pavement widening with an unprotected turn.
Bulk freight	Major commodities such as coal, iron, metallic minerals, fertilisers, grains and liquid and gas product.
Bunding	A barrier designed to contain liquids within a confined area, e.g. around liquid storage containers.
CadnaA	Computer program for the calculation, assessment and prognosis of noise exposure. It calculates environmental noise propagation according to ISO 9613.
CH intersection	Channelised turn - pavement widening with a protected turn (can be a right or left turn).
Construction environmental management plan	A document setting out the management, control and monitoring measures to be implemented during construction of a development to avoid or minimise the potential environmental impacts identified during an environmental assessment process.
Development consent	Approval to undertake a development received from a consent authority. Also referred to as development approval.
Emission	The release of a substance into the atmosphere (e.g. gas, noise).
Environmental management plan	A document setting out the management, control and monitoring measures to be implemented during operation of a development to avoid or minimise the potential environmental impacts identified during an environmental assessment process.
Flora and fauna	Plants, animals, reptiles and birds.



Initial stage	Concept plan for initial facilities and associated infrastructure to be delivered over a five-year period from project initiation, with an estimated throughput of approximately 240,000 TEU at the end of this period.
Intermodal	Being or involving transportation by more than one form of carrier during a single journey.
Non-bulk freight	Unitised goods such as those within containers or pallets, and break-bulk products such as steel coils.
Multimodal	The carriage of goods (containers) by at least two different modes of transport.
Preliminary hazard analysis	A hazard analysis is used to develop an understanding of the hazards and risks associated with an operation or facility and of the adequacy of safeguards. A preliminary hazard analysis occurs at an early stage of a project.
Preliminary risk screening	An assessment of the likelihood of risk, required under State Environmental Planning Policy No. 33, to determine the need for a preliminary hazard analysis.
Rating Background Level	<p>The overall single-figure background level representing each assessment period (day/evening/night) over the whole monitoring period (as opposed to over each 24 hour period used for the assessment background level). This is the level used for assessment purposes. It is defined as the median value of:</p> <ul style="list-style-type: none">- All the day assessment background levels over the monitoring period for the day; (7 am to 6 pm);- All the evening assessment background levels over the monitoring period for the evening; (6 pm to 10 pm) or; and- All the night assessment background levels over the monitoring period for the night. (10 pm to 7 am).
Rollingstock	Is locomotives, passenger carriages and goods wagons comprising a train
Ultimate stage	Concept plan for remaining facilities and associated infrastructure to be delivered during years 10-15 of the project with an estimated throughput of approximately 530,000 TEU at completion.



List of abbreviations

AADT	Annual average daily traffic
ADT	Average daily traffic
AHD	Australian Height Datum
AHIMS	Aboriginal heritage information management system
APZ	Asset Protection Zone
ARI	Average recurrence interval
ARTC	Australian Rail Track Corporation
AS 1940	Australian Standard 1940: <i>The storage and handling of flammable and combustible liquids</i>
CadnaA	Computer aided noise abatement
CBD	Central Business District
CBR	California Bearing Ratio
CEMP	Construction Environmental Management Plan
CO ₂	Carbon Dioxide
CoRTN	Calculation of road traffic noise
dB	Decibel, which is 10 times the logarithm (base 10) of the ratio of a given sound pressure to a reference pressure; used as a unit of sound.
dB(A)	Unit used to measure 'A-weighted' sound pressure levels
DEC	Department of Environment and Conservation
DEH	Department of Environment and Heritage
DG	Dangerous Goods
DGC	Dangerous Goods Codes
DoP	Department of Planning
DP	Deposited plan
ECRTN	Environmental Criteria for Road Traffic Noise
ENCM	Environmental Noise Control Manual
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
ESD	Ecologically sustainable development



GFA	Gross Floor Area
GPTs	Gross Pollutant Traps
ha	Hectare
HV	Heavy vehicle
Hvph	Heavy vehicles per hour
INP	Industrial Noise Policy
ISO 9613	International Standard 9613: <i>Acoustics - Attenuation of sound during propagation outdoors</i>
Km	Kilometre
kPa	Kilopascal
L	Litre
L _{A10} (1 hour)	The L _{A10} level measured over a 1-hour period
L _{A10} (18 hour)	The arithmetic average of the L _{A10} levels for the 18-hour period between 0600 and 2400 hours on a normal working day. It is a common traffic noise descriptor.
L _{A10} (Time)	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.
L _{A90} (Time)	The A-weighted sound pressure level that is exceeded for 90% of the time over which a given sound is measured. This is considered to represent the background noise e.g. L _{A90} (15 min)
L _{Aeq} (1 hr)	The L _{Aeq} noise level for a one-hour period. It represents the highest tenth percentile hourly A-weighted L _{eq} during the period 7 am to 10 pm, or 10 pm to 7 am, (whichever is relevant).
L _{Aeq} (15 hr)	The L _{Aeq} noise level for the period 7 am to 10 pm. (Day and Evening)
L _{Aeq} (9 hr)	The L _{Aeq} noise level for the period 10 pm to 7 am. (Night)
L _{Aeq} (Time)	Equivalent sound pressure level: the steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring.
LALC	Local Aboriginal Land Council
L _{AMax} (Time)	The maximum sound level recorded during a specified time interval
L _{AMin} (Time)	The minimum sound level recorded during a specified time interval
L _{AN}	Statistical sound measurement recorded on the “A” weighted scale
LEP	Local environmental plan
LES	Local environmental study



LGA	Local government area
L _N	Statistical sound measurement recorded on the linear scale
LOS	Level of Service
LP	Leaded petrol
MLRVMP	Mid Lachlan Regional Vegetation Management Plan
MSDS	Material safety data sheet
NES	National environmental significance
Nox	Nitrous Oxide
NPW Act	<i>National Parks and Wildlife Act 1974</i>
OMC	Optimum Moisture Content
OSD	On site detention
PFM	Planning focus meeting
PHA	Preliminary hazard analysis
PIT	Parkes Intermodal Terminal
PM ₁₀	Particulate Matter
POEO Act	<i>Protection of Environment Operations Act 1997</i>
PSC	Parkes Shire Council
RBL	Rating background level
REP	Regional environmental plan
RF Act	<i>Rural Fires Act 1997</i>
RTA	NSW Roads & Traffic Authority
SEPP	State Environmental Planning Policy
SIS	Species Impact Statement
SWL	Sound Power Level
TEU	Twenty foot equivalent units
TSC Act	<i>Threatened Species Conservation Act 1995</i>
ULP	Unleaded petrol
vpd	vehicles per day
vph	vehicles per hour
WARR Act	<i>Waste Avoidance and Recovery Act 2001</i>