## Glossary

Ambient Noise  The all-encompassing noise associated within a given environment. It is the composite of sounds from many sources, both near and far.  A layer of underground sediments that holds water and allows water to flow through it.  A rock, gravel or sand layer that holds water and through which water can move and/or allows movement of groundwater.  A collection of tools, bones etc. together in a small area that are the product of human activities.  Archaeology  The methodological process by which archaeologists collect information about the location, distribution and organisation of past human cultures across an area of land.  A surface scatter of cultural material. Aboriginal artefact scatters are defined as being the occurrence of five or more items of cultural material within an area of 100 sq. metres (AAV 1993:1j). Artefact scatters are often the only physical remains of places where people have lived, camped, prepared and eaten meals and worked.  Articulated Heavy Vehicle  An articulated vehicle is a vehicle which has a permanent or semi-permanent pivoting joint in its construction, allowing the vehicle to turn more sharply, i.e. Semi-trailer.  Ecological, social, economic, cultural or heritage features considered important and that have been identified assessing the impacts of the Project.  At grade crossing  The underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is described using the LA90 descriptor.  Benefit Cost Analysis  Benefit Cost Analysis is (BCA) is the tool adopted for assessing the direct benefits and costs of this Project. It aims to express, in monetary terms, all the direct gains and losses (benefits and costs) created by the Project to all members of society, and to combine the gains and losses into a single measure.  The combination of techniques, methods, processes or technology used in an industry sector or activity that demonstrably minimises the environmental impa of that industry sector	Acid Sulphate Soils	Acid sulphate soils are naturally occurring soils that contain elevated levels of metal sulphides. Upon exposure to air and water, for example during excavation or drainage, these soils can generate sulphuric acid. This acidic runoff can result in acidification of soils, groundwater and surface water.
Animorent Noise composite of sounds from many sources, both near and far.  A layer of underground sediments that holds water and allows water to flow through it.  A rock, gravel or sand layer that holds water and through which water can mow A geological formation, group of formations, or part of a formation that stores and/or allows movement of groundwater.  Archaeological site A collection of tools, bones etc. together in a small area that are the product of human activities.  The methodological process by which archaeologists collect information about the location, distribution and organisation of past human cultures across an area of land.  A surface scatter of cultural material. Aboriginal artefact scatters are defined as being the occurrence of five or more items of cultural material within an area of 100 sq. metres (AAV 1993:11). Artefact scatters are often the only physical remains of places where people have lived, camped, prepared and eaten meals and worked.  Articulated Heavy Vehicle An articulated vehicle is a vehicle which has a permanent or semi-permanent pivoting joint in its construction, allowing the vehicle to turn more sharply, i.e. Semi-trailer.  Ecological, social, economic, cultural or heritage features considered important and that have been identified assessing the impacts of the Project.  At grade crossing A crossing of a rail line and roadway at one level, without an overpass or underpass.  Background Noise Benefit Cost Analysis (BCA) is the tool adopted for assessing the direct benefits and costs of this Project. It aims to express, in monetary terms, all the direct gains and losses (benefits and costs) created by the Project to all members of society, and to combine the gains and losses into a single measure.  The combination of techniques, methods, processes or technology used in an industry sector or activity that demonstrably minimises the environmental impa of that industry sector or activity that demonstrably minimises the environmental impa of that industry sector or activity.	Activity area	area or areas to be used or developed for an activity. Refer to Section 14.2.2 for
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	Best practice	industry sector or activity that demonstrably minimises the environmental impact
the genes they contain and the ecosystems of which they form a part.	Biodiversity	The variety of all life forms – the different plants, animals and micro-organisms, the genes they contain and the ecosystems of which they form a part.

Ecosystem	A dynamic complex of plant, animal, fungal, and micro-organism communities and the associated non-living environment interacting as an ecological unity.
Ecology	Study of organisms' relations to one another and their surroundings.
Ecological Vegetation Classes	One or a number of floristic communities or associations confined to a particular ecological setting (e.g. soil type, topography or climate zones) as defined in Victoria's Native Vegetation Management: A Framework for Action.
Ecological communities	Any naturally occurring group of species inhabiting a common environment, interacting with each other especially through food relationship and relatively independent of other groups. Ecological communities may vary in size, and larger ones may contain smaller ones. In the <i>Environment Protection and Biodiversity Conservation Act 1999</i> they are defined as assemblages of native species that inhabit particular areas in nature.
Discharge	The outflow drainage of aquifer waters.
dB(A)	Unit used to measure 'A-weighted' sound pressure levels.
Critically endangered species	A threatened native species listed in the EPBC Act is critically endangered if it is facing an extremely high risk of extinction in the wild in the immediate future.
Critically endangered ecological community	A threatened ecological community listed in the <i>Environment Protection and Biodiversity Conservation Act 1999</i> is critically endangered if it is facing an extremely high risk of extinction in the wild in the immediate future.
Contaminated land/site	Contamination of land is often a result of current or historical activities that have taken place at a site, or adjacent to it including: industry, mining, agriculture, the storage of chemicals, gas, wastes or liquid fuel, or contamination from surrounding landfill using contaminated soil.
Contaminants	Substances that, when present in the environment, have the potential to cause adverse biological effects.
Construction area	The area defined for the Project that will be directly impacted by construction activities.
Complex assessment	A complex assessment undertaken as part of a Cultural Heritage Management Plan means an evaluation of an activity area by means of subsurface testing and excavation with a view to identifying and recording buried Aboriginal cultural heritage.
Clear zones	A clear zone is within a recovery area beside a traffic lane required for run-off-road vehicles to stop safely or be brought under control.
	An area which is kept clear of hazards (or within which unmovable hazards are shielded).
Chainage	The linear distance as measured from a known starting point.
Catchment	An area of land where run-off from rainfall goes into one river system.
Bioregion	The bioregions and sub-regions are the reporting unit for assessing the status of native ecosystems, their protection in the national reserve system and for use in monitoring and evaluation framework in the Federal Government's current Natural Resource Management initiatives.
	A geographical area defined by ecological criteria.

Environment	For the purpose of the EES, environment incorporates physical, biological, cultural, economic and social aspects.
Environment Effects Statement	A report prepared in accordance with the requirements of the <i>Environment Effects Act 1978</i> investigating the potential environmental, social and economic effects of a proposal.
Fauna	The assemblage of animal species within a defined collection or area.
Floodplain	The relatively smooth valley floors adjacent to and formed by alleviating rivers subject to overflow during flood events.
	A large shallow area of land, lower than an alluvial plain in which streams occasionally overflow their banks, causing active erosion and deposition across the plain.
	Lands subject to overflow during flood events. Often valuable for their ecological assets.
Flora	The assemblage of plant species within a defined collection or area.
FFG-listed species	Any flora and fauna species on the <i>Flora and Fauna Guarantee Act 1988</i> listing of taxa and communities of flora and fauna which are threatened or potentially threatened.
Fluvial	Relating to or occurring in a river.
	A geomorphic process whereby sediments are transported and deposited by flowing river water.
Freehold land	Privately owned land.
Geology	General term referring to all geological materials including surficial geology and consolidated rock. Includes the composition, age and origin of mineral and non-mineral components and their structural characteristics.
Groundwater	All subsurface water, generally occupying the pores and crevices of rock and soil.
Habitat	The place in which an organism lives; comprising its physical structure, such as reef, sediments or water column properties, as well as biological structure, such as the dominant plant types.
	Specific place where plants or animals live.
Heritage Place	Aesthetic, historic, scientific or social value for past, present or future generations.
Hydrology	The science dealing with surface waters and groundwaters of the Earth; their occurrence, circulation and distribution; their chemical and physical properties; and their reaction with the environment.
Indigenous	Existing, growing, or produced naturally in a region.
LA10 (Time)	The arithmetic average of the sound pressure level that is exceeded for 10 percent of the time specified. This is considered representative of the average maximum noise.

	An 'M' road is a duplicated carriageway which provides the primary road link to
`M' road	sustain economic and regional development. They connect Melbourne with other capital cities and major provincial centres, and they link major centre s of production and manufacturing with Victoria's export terminals. They provide consistently high standard driving conditions on divided roads with at least four traffic lanes, sealed shoulders, and delineation and line marking which is easily visible in all weather conditions.
Native Vegetation	Plants that are indigenous to Victoria, including trees, shrubs, herbs and grasses.
Net Gain	The main goal of Victoria's Native Vegetation Management: A Framework for Action is to achieve a reversal, across the entire landscape of the long-term decline in the extent and quality of native vegetation, leading to net gain. Net Gain is achieved when the overall gains in native vegetation are greater than overall losses and where individual losses are avoided where possible.
Overlay	An overlay is a planning provision, but one which is in addition to the zone provision. Overlays ensure that important aspects of the land are recognised (such as areas of significant vegetation or special heritage significance). Overlays indicate the type of development and/or protection that may be appropriate in that area. When land has more than one important aspect, multiple overlays can be applied.
Potable water	Water that is fit for human consumption.
Project area	A corridor defined for the Project extending 1500 metres either side of the road reserve, widened around Buangor to incorporate all alignment options considered.
Public acquisition	Acquiring privately held land for a public purpose by a public authority.
Priority control intersection	The intersection of two or more roads with right of way for traffic managed by signage or line markings rather than traffic signals.
Remediation	Action to return a landform, vegetation, or water body to as near as original condition as practical. Implies making land and water resources useful again after disturbance.
Remnant vegetation	Vegetation remaining after an area has been cleared.
Risk assessment	The chance of something happening that will have an impact; measured in terms of consequences and likelihood.
Sensitive Receptor Category A (noise)	VicRoads policy defines Category A sensitive receptors as residential dwellings, aged person homes, hospitals, motels, caravan parks and other buildings of a residential nature. The noise level objective is 63 dB(A) L10 (12hr), and this is measured between 6 am and midnight.
Sensitive Receptor Category B (noise)	VicRoads policy defines Category B sensitive receptors as schools, kindergartens, libraries and other noise sensitive community buildings. The noise level objective is 63 dB(A) L10 (12hr), and this is measured between 6 am and 6 pm.
Spoil	Dirt or rock removed from its original location and destroying the composition of the soil in the process
Standard assessment	A standard assessment undertaken as part of a Cultural Heritage Management Plan is an evaluation of an activity area by means of a survey with a view to identifying and recording Aboriginal cultural heritage and/or determining the probability that buried Aboriginal cultural heritage may be present.

Study area	The area used for a specialist assessment. This may be different to the project area for some studies (i.e. the Groundwater Assessment looks at a wider catchment area). The study area for each assessment is defined in each section of the EES.
Surface waters	All waters whose surface is naturally exposed to the atmosphere, for example, rivers, lakes, reservoirs, streams, seas, estuaries.
Threatened ecological communities	The EPBC Act lists threatened ecological communities as: critically endangered; endangered; or vulnerable.
Threatened species	Any species that is likely to become an endangered species within the foreseeable future, throughout all or a significant part of its range. A species of wildlife or plants listed as 'threatened' in a specific Act (in this EES, the EPBC Act and/or the FFG Act).
Total Dissolved Solids	TDS are used as a measure of salinity (water quality). They include inorganic salts including sodium, potassium, calcium, magnesium, chloride, sulphate, bicarbonate, carbonate and nitrate ions and often a small amount of organic matter dissolved in water.
Victorian Heritage Register	A comprehensive listing of Victoria's most significant historic places, objects and shipwrecks.
Visual amenity	The composite of basic terrain, geological features, hydrological features, vegetation patterns, and land use effects that typify a land unit and influence the visual appeal that the unit may have for visitors.
Water quality	A description of the condition of water in the context of one or more beneficial uses. Usually described in terms of water quality indicators (such as pH, temperature and concentrations of nutrients or contaminants).
Waterway	A general term for any stream, river or watercourse, either flowing or dry. Also includes artificial cuts, canals and channels.
Zone	A zone is a planning provision. Zones reflect the primary character of land (such as residential, industrial or rural), and indicates the type of use and development that may be appropriate in that zone.

## **Abbreviations**

AAQ Ambient Air Quality

AASS Actual Acid Sulphate Soils
AAV Aboriginal Affairs Victoria

ABS Australian Bureau of Statistics

ADWG Ausralian Drinking Water Guidelines

AH Act Aboriginal Heritage Act 2006

AHD Australian Height Datum

ALA Andrew Long and Associates

AMP Access Management Policy (VicRoads)

AMP1 VicRoads Access Management Policy 1 (Freeway)

AMP3 VicRoads Access Management Policy 3 (Highway)

AQ Air Quality

AQM Air Quality Management

ARI Average Recurrence Interval

ASS Acid Sulphate Soil

ATHRW Alluvial Terraces Herb-rich Woodland

AUL Auxiliary left-turn treatment on the major road, i.e. additional short left-turn

only lane

AUR Auxiliary right-turn treatment on the major road, i.e. shared through and

right-turn lane and additional through-lane for overtaking vehicles

AVW Atlas of Victorian Wildlife

BAL Basic left-turn treatment on the major road, i.e shared left-turn and through

lane with minor widening of the shoulder

BAR Basic right-turn treatment on the major road, i.e. shared through and right-

turn lane with minor widening of the shoulder

BCA Benefit Cost Assessment

BCR Benefit Cost Ratio

BoM Bureau of Meteorology

BPEM Best Practice Environmental Management

BPG Best Practice Guidelines

CALP Act Catchment and Land Protection Act 1984

CASS Coastal Acid Sulphate Soils
CCDs Census Collection Districts

CEMP Construction Environmental Management Plan

Ch. Chainage

CHL Channelised left-turn treatment on the major road, i.e. additional short left-

turn only lane seperated from through traffic by painted chevrons and island.

CHMP Cultural Heritage Management Plan

CHR Channelised right-turn treatment on the major road, i.e. additional short right-

turn only lane seperated from through traffic by painted chevrons and island.

CHRSP Central Highlands Regional Strategic Plan

cm Centimetre

CMA Catchment Management Authority

dB Decibel

dB(A) Unit of Measurement for Sound Pressure Level

DO Dissolved Oxygen

DPCD Department of Planning and Community Development

DPI Department of Primary Industries

DSE Department of Sustainability and Environment

dse/ha Dry sheep equivalents per hectare

EE Act Environmental Effects Act 1978

EES Environment Effects Statement

EMF Environmental Management Framework

EMP Environmental Management Plan

EM Strategy Environmental Management Strategy
EMS Environmental Management System

ENMM Environmental Noise Management Manual

EPA Environment Protection Authority
EP Act Environmental Protection Act 1994

EPBC Environment Protection and Biodiversity Conservation Act 1999

(Commonwealth)

ESO Environment Significance Overlay

EVCs Ecological Vegetation Classes

FFG Act Flora and Fauna Guarantee Act 1988

FIS Flora Information System

FTE Full Time Equivalent

GDEs Groundwater Dependent Ecosystems

GDF Grassy Dry Forest

GEWVVP Grassy Eucalypt Woodland of the Victorian Volcanic Plain

GHCMA Glenelg Hopkins Catchment Management Authority

GIS Geographic Information System
GMU Groundwater Management Unit

GoV Groundwaters of Victoria
GWM Grampians Wimmera Mallee
HHRW Hills Herb-rich Woodland

ha Hectares

Habha Habitat hectares
HI Heritage Inventory
HO Heritage Overlay
HV Heritage Victoria
HW Heathy Woodland

ICOMOS International Council of Monuments and Sites

ILUA Indigenous Land Use Agreement

ISC Index of Stream Condition

IWRG Industial Waste Resource Guideline

kg Kilogram km Kilometres

km/h Kilometres per hour L/s Litre per second

LACA Land Acquisition and Compensation Act 1986

LESPS Local Environment Sustainability Priority Statement

LGA Local Government Area

LOT Large Old Tree

LSIO Land Subject to Inundation Overlay

m Metres

m2 Square metres

M Million

mg/L Milligrams per litre

mm Millimetres

 $\mu$ g/m3 Micro grams per cubic metre  $\mu$ S/cm Micro Siemens per centimetre

NEPM National Environment Protection Measure

NES National Environmental Significance as defined by the Environment Protection

and Biodiversity Conservation Act 1999 (Commonwealth)

NT Act Native Title Act 1993

NTGVVP Natural Temperate Grasslands of the Victorian Volcanic Plain

NTU Nephelometric Turbidity units

PAH Polycyclic Aromatic Hydrocarbons

PAO Public Acquisition Overlay
PASS Potential Acid Sulphate Soils

PEPS Project Environment Protection Strategy

PGW Plains Grassy Woodland

PLSG Professional and Local Services Group
PM2.5 Particulate matter less than 2.5 microns
PM10 Particulate matter less than 10 microns

PMST Protected Matters Search Tool
PSA Planning Scheme Amendment

P&E Act Planning and Environment Act 1987

PV Parks Victoria

RAP Registered Aboriginal Party

RHS River Health Strategy
RSA Road Safety Audit

RTA Roads and Traffic Authority

Section 1 Duplication between Ballarat to Beaufort
Section 2 Duplication between Beaufort to Ararat

Section 3 Duplication between Ararat to Stawell **SEPP** State Environment Protection Policy

**SEWPaC** (Department of) Sustainability, Environment, Water, Population and

Communities

SIA Social Impact Assessment

SPPF State Planning Policy Framework

SS Suspended Solids

SuMS Surveillance and Management System

**TDS** Total Dissolved Solids t/ha Tonnes per hectare

The Project Western Highway Project

TIA Transport Integration Act 2010

**TMP** Traffic Management Plan

TOS Act Traditional Owner Settlement Act 2010

TRG **Technical Reference Group** 

VAHR Victorian Aboriginal Heritage Register

**VBA** Victorian Biodiversity Atlas VHI Victorian Heritage Inventory VHR Victorian Heritage Register

VLOT Very Large Old Tree Vehicles per Day vpd Vehicles per Hour vph

VPO Vegetation Protection Overlay VPP Victoria Planning Provisions VVP Victorian Volcanic Plains

**WCMA** Wimmera Catchment Management Authority

WHAC Western Highway Action Committee

WHP Western Highway Project

WoV Waters of Victoria