APPENDIX A ENVIRONMENTAL PERFORMANCE REQUIREMENTS

The EES included an extensive list of EPRs that set the environmental standards the project must achieve. The EPRs were refined by the proponent throughout the course of the IAC hearing in response to submissions and evidence. The proponent tabled 'Version 6' of the EPRs to the IAC on the final day of the hearing. The IAC produced a table at Appendix F of its report, where it set out its recommended changes to this version of the EPRs. Both versions of the EPRs are presented in Table A2 (overleaf), along with further recommendations that I have made, as a result of my assessment. All versions are presented to provide readers an insight into the evolution of the EPRs over the course of the EES process. EPRs are provided in categories as indicated by an identifier listed in Table A1.

The EPRs use the phrases 'to the satisfaction of' and 'in consultation with'. An example is 'The Environmental Management Strategy covers the construction and operations phases of the Project and is to be prepared to the satisfaction of the Minister for Planning'. This example means that the Minister for Planning needs to approve the Environmental Management Strategy. An example for 'in consultation with' is 'Develop and undertake an ambient air quality monitoring program in consultation with EPA to measure the air quality impacts'. This example means that the proponent must consult EPA to inform its development and implementation of the ambient air quality monitoring program.

The incorporated document will require the proponent's Environmental Management Strategy to outline how the EPRs will be implemented including setting out the process and timing for development of plans and procedures required by the EPRs.

Table A1. Environmental	performance ree	quirement ID.
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ID	EPR
EMP	Environmental management framework
AQP	Air quality
BP	Business
CHP	Cultural heritage (historical)
CSP	Contaminated soil and spoil
EP	Ecology
GGP	Greenhouse gas
GMP	Ground movement and land stability
GWP	Groundwater
LPP	Land use and planning
LVP	Landscape and visual
NVP	Noise and vibration
SP	Social and community
SW	Surface water
TP	Transport
WMP	Waste management

Table A2: Assessment of environmental performance requirements.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		Environmental management framework			
EMP1	All	 Environmental Management Strategy Prepare an Environmental Management Strategy to provide an overarching framework to address Environmental Requirements including relevant environmental Laws, Key Approvals, Approval conditions, the Environmental Performance Requirements (EPRs). The Environmental Management Strategy covers the construction and operations phases of the Project and is to be prepared to the satisfaction of the Minister for Planning under the Incorporated Document applicable to the Project. The Environmental Management Strategy must incorporate an Environmental Management System that complies with AS/NZS ISO 14001: Environmental management systems – requirements with guidance for use for construction and operation. 	Environmental Management Strategy Prepare an Environmental Management Strategy to provide an overarching framework to address Environmental Requirements including relevant environmental Laws, Key Approvals, Approval conditions, the Environmental Performance Requirements (EPRs). The Environmental Management Strategy covers the construction and operations phases of the Project and is to be prepared to the satisfaction of the Minister for Planning under the Incorporated Document applicable to the Project. The Environmental Management Strategy must incorporate an Environmental Management System that complies with AS/NZS ISO 14001: Environmental management systems – requirements with guidance for use for construction and operation. <u>The approved EMS must be made publicly available.</u>	IAC recommendation supported with minor amendment to ensure that the EMS is publicly available on a website.	Environm Prepare al overarchir including r conditions Environme operations satisfactio Document The Environ Environme 14001: En guidance f The appro made pub years after
EMP2	All	Environmental Management Plans Prepare and implement a Construction Environmental Management Plan (CEMP), Worksite Environmental Management Plans (WEMPs), Operations Environmental Management Plan (OEMP) and other plans as required by the Environmental Performance Requirements (EPRs) in accordance with the Environmental Management Strategy. The development of the Environmental Management Strategy, the CEMP, the WEMPs and OEMP must include consultation with relevant councils, VicRoads, Melbourne Water, EPA Victoria and other authorities as relevant. These consultation processes must be described in the Environmental Management Strategy. The CEMP must be prepared in accordance with EPA Victoria Publication 480, Environmental Guidelines for Major Construction Sites (EPA 1996).	Environmental Management Plans Prepare and implement a Construction Environmental Management Plan (CEMP), Worksite Environmental Management Plans (WEMPs), Operations Environmental Management Plan (OEMP) and other plans as required by the Environmental Performance Requirements (EPRs) in accordance with the Environmental Management Strategy. The development of the Environmental Management Strategy, the CEMP, the WEMPs and OEMP must include consultation with relevant councils, VicRoads, Melbourne Water, EPA Victoria and other authorities as relevant. These consultation processes must be described in the Environmental Management Strategy. The CEMP must be prepared in accordance with EPA Victoria Publication 480, Environmental Guidelines for Major Construction Sites (EPA 1996) and must be to the satisfaction of the IREA.	IAC recommendation supported with minor amendment.	Environm Prepare an Plan (CEM Operations as require in accorda The develo CEMP, the councils, \ authorities described The CEMI Publication (EPA 199/ <u>satisfactio</u>
EMP3	Pre- construction, construction, operation	Environmental compliance Appoint an Independent Reviewer and Environmental Auditor to review and approve the CEMP and OEMP to ensure compliance with the Environmental Management Strategy and EPRs and to undertake environmental audits of compliance with the approved Environmental Management Strategy, CEMP, WEMPs and OEMP. The IREA must produce six monthly audit reports to the State during construction for provision to the Minister of Planning and other approval authorities as appropriate.	Environmental compliance Appoint an Independent Reviewer and Environmental Auditor to review and approve the CEMP and OEMP to ensure compliance with the Environmental Management Strategy and EPRs and to undertake environmental audits of compliance with the approved Environmental Management Strategy, CEMP, WEMPs and OEMP. The IREA must produce six monthly audit reports to the <u>Minister for Planning</u> during construction for provision to the <u>Minister of Planning</u> and other approval authorities as appropriate. <u>Audit reports must be made</u> <u>publicly available.</u>	IAC recommendation supported with minor amendment.	Environm Appoint ar and appro Environme Managem produce si <u>must forwa</u> approval a publicly av
EMP4	Pre- construction, construction	Complaints management system Prior to the commencement of works, other than preparatory works as referred to in the Incorporated Document), develop and implement a process for the recording, management, and resolution of complaints from affected stakeholders consistent with Australian Standard AS/NZS 100002: 2014 Guidelines for Complaint Management in Organisations. The complaints management system must be consistent with the Communications and Community Engagement Plan required under EPR SP2.	EPR supported.	Version 6 EPR supported.	Complain Prior to the referred to process for from affec AS/NZS 1 Organisati The comp Communic EPR SP2.
				B	
AQP1	Detailed design, operation	Design and implement a tunnel ventilation system to meet the requirements of the SEPP (AQM) and in accordance with the	Design, and implement and maintain a tunnel ventilation system to meet the requirements of the SEPP (AQM) and in accordance with the	Recommend that the EPR is confined to design and construction as tunnel ventilation will	Design , in system to

ended wording

ental Management Strategy

n Environmental Management Strategy to provide an ng framework to address environmental requirements relevant environmental laws, key approvals, approval , the environmental performance requirements (EPRs). The ental Management Strategy covers the construction and s phases of the project and is to be prepared to the n of the Minister for Planning under the Incorporated t applicable to the project.

conmental Management Strategy must incorporate an ental Management System that complies with AS/NZS ISO wironmental management systems – requirements with for use for construction and operation.

ved EMS Environmental Management Strategy must be licly available on a clearly identifiable website for at least five r the commencement of operation of the project.

ental Management Plans

Ind implement a Construction Environmental Management MP), Worksite Environmental Management Plans (WEMPs), is Environmental Management Plan (OEMP) and other plans ed by the Environmental Performance Requirements (EPRs) ance with the Environmental Management Strategy.

opment of the Environmental Management Strategy, the e WEMPs and OEMP must include consultation with relevant /icRoads, Melbourne Water, EPA Victoria and other as relevant. These consultation processes must be in the Environmental Management Strategy.

P must be prepared in accordance with EPA Victoria n 480, Environmental Guidelines for Major Construction Sites 6). <u>The CEMP and OEMP must be prepared to the</u> n of the IREA.

ental compliance

n Independent Reviewer and Environmental Auditor to review we the CEMP and OEMP to ensure compliance with the ental Management Strategy and EPRs and to undertake ental audits of compliance with the approved Environmental ent Strategy, CEMP, WEMPs and OEMP. The IREA must ix monthly audit reports which Western Distributor Authority and to the Minister for Planning during construction and other authorities as appropriate. Audit reports must be made vailable.

ts management system

e commencement of works, other than preparatory works as on the Incorporated Document), develop and implement a or the recording, management, and resolution of complaints ted stakeholders consistent with Australian Standard 00002:2014 Guidelines for Complaint Management in ions.

laints management system must be consistent with the cations and Community Engagement Plan required under

entilation system design

nplement and maintain and construct a tunnel ventilation meet the requirements of the SEPP (AQM) and in we with the requirements of the EPA Victoria Works Approval,

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		requirements of the EPA Victoria Works Approval.	requirements of the EPA Victoria Works Approval.	be operated in accordance with the EPA discharge license. Pollution control equipment is discussed in this EPR as it is a design matter.	including (equipmen
AQP2	Detailed design, operation	Zero portal emissions Design and implement a tunnel ventilation system to achieve zero portal emissions.	EPR supported.	Version 6 EPR supported.	Zero port Design an portal emi
AQP3	Detailed design, operation	 In tunnel air quality Design and implement a tunnel ventilation system to introduce and remove air from the tunnels to meet in tunnel air quality requirements for carbon monoxide (CO) listed below including provision for the retrofitting of pollution control equipment. Achieve a longitudinal air velocity in the Tunnels not exceeding 10 metres/second. In tunnel air quality must meet the following CO standards: Maximum peak value of 150ppm 15 min. average of 50ppm. 	 In tunnel air quality Design and implement a tunnel ventilation system to introduce and remove air from the tunnels to meet in tunnel air quality requirements for carbon monoxide (CO) and best practice standards for NO₂ listed below including provision for the retrofitting of pollution control equipment. installation of tunnel ventilation pollution control equipment to reduce pollutant emission levels at the tunnel exhaust to the metropolitan background level; or another level agreed with the EPA. Achieve a longitudinal air velocity in the Tunnels not exceeding 10 metres/second. In tunnel air quality must meet the following CO standards: Maximum peak value of 150ppm 2-hour average of 50ppm. In tunnel air quality standard for NO₂ of 0.5 ppm as a rolling 15-minute average. Apply best practice Australian management techniques to minimise impact on health from in tunnel exposure to PM_{2.5} and PM₁₀. 	Remove reference to installation of tunnel pollution control equipment. Retrofitting pollution control equipment is provided for in EPR AQP1.	In tunnel Design an remove ai for carbon below <u>-ine equipment</u> the metrop EPA. Achieve a metres/se In tunnel a Maxin 15-mi 2-hou <u>15-mi</u> Apply bes impact on
AQP4	Construction, operation	Ambient air quality monitoring Develop and undertake an ambient air quality monitoring program to measure the air quality impacts of West Gate Tunnel Project, including at least one year of monitoring before operation, and five years post opening of the Freeway, or such lessor period as agreed with EPA Victoria. Results of the monitoring are to be made publicly available on a website related to the project, or through EPA Victoria's Air Watch website on a quarterly basis.	Ambient air quality monitoring Develop and undertake an ambient air quality monitoring program in <u>consultation with the EPA</u> to measure the air quality impacts of West Gate Tunnel Project, including at least one year of monitoring before operation, and five years post opening of the Freeway-Project, or such lessor period as agreed with EPA Victoria. Results of the monitoring are to be made publicly available on a website related to the Project, or through EPA Victoria's Air Watch website on a quarterly basis.	Recommend monitoring during the entire construction period and inclusion of specific monitoring sites.	Ambient a Develop a consultatio Tunnel Pro <u>constructio</u> Project, or <u>the followi</u> <u>Millers</u> <u>Primul</u> <u>Donale</u> <u>Franci</u> <u>Woods</u> <u>Yarray</u> Results of website re website or
AQP5	Operation	In-tunnel air quality and ventilation structure emissions compliance Monitor the in-tunnel air quality and ventilation structure emissions during operation of the ventilation system to demonstrate compliance with EPR AQP3, SEPP (Air Quality Management) and the EPA Victoria licence to the satisfaction of EPA Victoria. Report the monitoring results publicly on a quarterly basis for five years post opening of the Freeway or such lessor period as agreed with EPA Victoria. Take remedial action if Environmental Requirements are not met, in consultation with EPA Victoria.	In-tunnel air quality and ventilation structure emissions compliance Monitor the in-tunnel air quality and ventilation structure emissions during operation of the ventilation system to demonstrate compliance with EPR AQP3, SEPP (Air Quality Management) and the EPA Victoria licence to the satisfaction of EPA Victoria. Report the monitoring results publicly on a quarterly basis for five years post opening of the Freeway Project or such lessor period as agreed with EPA Victoria. Take remedial action if Environmental Requirements are not met, in consultation with to the satisfaction of EPA Victoria.	Recommend direct cross- reference to standards set out in APQ3.	In-tunnel complian Monitor th during ope with EPR licence to results pul Project or Take reme outlined in satisfactio

provision for retrofitting of tunnel ventilation pollution control t if subsequently required.

tal emissions

nd implement a tunnel ventilation system to achieve zero issions.

air quality

nd implement a tunnel ventilation system to introduce and ir from the tunnels to meet in tunnel air quality requirements in monoxide (CO) and best practice standards for NO₂ listed studing installation of tunnel ventilation pollution control it to reduce pollutant emission levels at the tunnel exhaust to politan background level; or another level agreed with the

longitudinal air velocity in the Tunnels not exceeding 10 cond.

air quality must meet the following GO standards:

num peak <u>CO</u> value of 150ppm

n. average <u>CO value</u> of 50ppm

r average CO value of 25ppm

nute average NO2 value of 0.5 ppm.

t practice Australian management techniques to minimise health from in tunnel exposure to $PM_{2.5}$ and PM_{10} .

air quality monitoring

and undertake an ambient air quality monitoring program in on with EPA to measure the air quality impacts of West Gate roject, including at least one year of monitoring <u>during</u> <u>on before operation</u>, and five years post opening of the r such <u>lessor lesser</u> period as agreed with EPA Victoria <u>at</u> <u>ing air quality monitoring station locations:</u>

Road (north of the West Gate Freeway), Brooklyn

la Avenue, Brooklyn

d McLean Reserve, Spotswood

is Street, Yarraville

s Street, Yarraville

ville Gardens, Yarraville.

f the monitoring are to be made publicly available on a elated to the project, or through EPA Victoria's Air Watch n a monthly basis.

air quality and ventilation structure emissions

he in-tunnel air quality and ventilation structure emissions eration of the ventilation system to demonstrate compliance AQP3, SEPP (Air Quality Management) and the EPA Victoria the satisfaction of EPA Victoria. Report the monitoring iblicly on a quarterly basis for five years post opening of the such lessor lesser period as agreed with EPA Victoria.

edial action, to the satisfaction of EPA Victoria, if <u>standards</u> <u>AQP3</u>Environmental Requirements are not met, to the on of EPA Victoria.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
AQP6	Construction	Air quality during construction	Air quality during construction	IAC recommendation	Air qualit
		Manage construction activities in accordance with EPA Victoria Publication 480 Guidelines for Major Construction Sites, to maintain air quality to a standard which does not prejudice the health and amenity of nearby residents, open spaces and community facilities.	Manage construction activities in accordance with EPA Victoria Publication 480 Guidelines for Major Construction Sites, to maintain air quality to a standard which does not prejudice the health and amenity of nearby residents, open spaces and community facilities.	supported.	Manage of Publicatio quality to of nearby
		Develop and implement an Air Quality Management and Monitoring Plan (AQMMP) including in respect of dust, odour, and construction vehicle emissions to minimise impacts during construction, including setting out requirements and methods for:	Develop and implement an Air Quality Management and Monitoring Plan (AQMMP) <u>as part of the CEMP</u> including in respect of dust, odour, and construction vehicle emissions to minimise impacts during construction, including setting out requirements and methods for:		Develop a Plan (AQI and const constructi
		Identifying sources and nature of airborne pollutants	Identifying sources and nature of airborne pollutants		 Identi
		Identifying the location of sensitive receptors	Identifying the location of sensitive receptors		Identi
		Monitoring Mitigation options to minimize imposts on local sin sublity	Monitoring		Monit
		Mitigation options to minimise impacts on local air quality Procedures for record keeping and reporting	Mitigation options to minimise impacts on local air quality Procedures for record keeping and reporting		Iviitiga Droop
105					• FIUCE
AQP	<u>Operation</u>		Roadside air qualityImplement a roadside monitoring program for PM2.5 that is designed in consultation with EPA and the community (program co-design).Results of the monitoring are to be made publicly available daily on an accessible website or through EPA's Air Watch website.	IAC recommendation not supported. The amended AQP4 will adequately address roadside monitoring.	
<u>AQP7</u>	<u>Operation</u>		Roadside air quality mitigation strategy Develop and implement a roadside air quality mitigation strategy, to the satisfaction of the EPA, for specific locations that are shown to have deteriorating air quality as a result of the Project.	IAC recommendation supported.	Roadside Develop a satisfactio monitoring deteriorati
		Business			
BP1	Detailed	Damage or impacts on third party property and infrastructure	Damage or impacts on third party property and infrastructure	IAC recommendation	Damage of
	design, construction	Through detailed design and construction, design and construct the works to minimise, to the extent practicable, impacts to, and interference with, third party property and infrastructure and to ensure that infrastructure and property is protected during construction and operation. Any damage caused to property or infrastructure as a result of the Project must be appropriately remedied in consultation with the property or asset owner.	Through detailed design and construction, and in consultation with relevant land owners and parties as necessary, design and construct the works to minimise, to the extent practicable, impacts to, and interference with, third party property and infrastructure and to ensure that infrastructure and property is protected during construction and operation. Any damage caused to property or infrastructure as a result of the Project must be appropriately remedied in consultation with the property or asset owner.	supported.	Through c relevant la the works interference that infras operation. of the Pro property c
BP2	Detailed	Access and amenity for business and commercial facilities	Access and amenity for business and commercial facilities	IAC recommendation	Access a
	design, construction	Access to and amenity for potentially affected business and commercial facilities must be protected, where practicable, by responding to the Project urban design principles and vision and implementing the principles of Crime Prevention Through Environmental Design.	Access to, and amenity of, for potentially affected business and commercial facilities must be protected, where practicable, by responding to the Project urban design principles and vision and implementing the principles of Crime Prevention Through Environmental Design.	supported.	Access to commerci respondin implemen Environme
		Any reduction in the level of access, amenity or function of any business or commercial facility must be minimised to the duration necessary to carry out the relevant construction related works. Potentially affected business and commercial facilities must be provided with adequate notification of potential impacts and temporary access arrangements.	Any reduction in the level of access, amenity or function of any business or commercial facility must be minimised to the <u>extent and</u> duration necessary to carry out the relevant construction related works. Potentially affected business and commercial facilities must be provided with adequate notification of potential impacts and temporary access arrangements. <u>Emergency access must be maintained at all</u> times.		Any reduct business of duration n Potentially provided v access and times.
		the works is to be restored, or relocated as agreed with the relevant property owner, including associated landscaping and restoration works, and temporary access arrangements put in place for the duration of construction must be removed when construction has ceased.	All permanent access to business and commercial facilities affected by the works is to be restored, or relocated as agreed with the relevant property owner, including associated landscaping and restoration works, and temporary access arrangements put in place for the duration of construction must be removed when construction has ceased.		All perman the works property o works, and duration o ceased.
BP3	Construction	Screening	Screening	IAC recommendation	Screening
		Screening must be erected at the boundary of construction sites that adjoin residential or commercial properties, consistent with the	Screening must be erected at the boundary of construction sites that adjoin residential or commercial properties, consistent with the	supported.	Screening adjoin res

y during construction

construction activities in accordance with EPA Victoria on 480 Guidelines for Major Construction Sites, to maintain air a standard which does not prejudice the health and amenity residents, open spaces and community facilities.

and implement an Air Quality Management and Monitoring MMP) as part of the CEMP including in respect of dust, odour, ruction vehicle emissions to minimise impacts during on, including setting out requirements and methods for:

fying sources and nature of airborne pollutants

- fying the location of sensitive receptors
- oring

ation options to minimise impacts on local air quality

edures for record keeping and reporting.

air quality mitigation strategy

and implement a roadside air quality mitigation strategy, to the on of the EPA, for specific locations <u>where post-construction</u> <u>g shows</u> are shown to have deteriorating <u>a significant</u> <u>ion of</u> air quality as a result of the Project.

or impacts on third party property and infrastructure

detailed design and construction, and in consultation with and owners and parties as necessary, design and construct to minimise, to the extent practicable, impacts to, and ce with, third party property and infrastructure and to ensure structure and property is protected during construction and . Any damage caused to property or infrastructure as a result ject must be appropriately remedied in consultation with the or asset owner.

nd amenity for business and commercial facilities

 and amenity of, potentially affected business and ial facilities must be protected, where practicable, by ing to the Project urban design principles and vision and ting the principles of Crime Prevention Through ental Design.

ction in the level of access, amenity or function of any or commercial facility must be minimised to the extent and necessary to carry out the relevant construction related works. y affected business and commercial facilities must be with adequate notification of potential impacts and temporary rangements. Emergency access must be maintained at all

nent access to business and commercial facilities affected by is to be restored, or relocated as agreed with the relevant owner, including associated landscaping and restoration d temporary access arrangements put in place for the of construction must be removed when construction has

g

must be erected at the boundary of construction sites that idential or commercial properties, consistent with the

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		surrounding context, in consultation with affected property owners and occupiers.	surrounding context, in consultation with <u>the relevant local councils</u> , affected property owners and occupiers.		surroundi affected p
BP4	All	Impacts on operation of community, private recreation and council facilities Where the operation of community, private recreation and council facilities is directly impacted by the Project, mitigation and management measures must be implemented in consultation with the appropriate stakeholders including the relevant local council to minimise these impacts to the extent practicable.	Impacts on operation of community, private recreation and council facilities and services Where the operation of community, private recreation and council facilities and services are is directly impacted by the Project, mitigation and management measures must be implemented in consultation with the appropriate stakeholders including the relevant local council to minimise these impacts to the extent practicable.	IAC recommendation supported.	Impacts of council facilities a and mana the appro minimise
BP5	Pre- construction, construction	 Business Involvement Plan As part of the Communications and Community Engagement Plan (see EPR SP2), develop and implement a Business Involvement Plan, in consultation with affected local Councils, affected businesses, relevant local trader association, and other affected stakeholders, in advance of works (other than preparatory works as referred to in the Incorporated Document) commencing. Councils and affected stakeholders (including affected businesses and relevant local trader association) are to be consulted on progress of construction activities, including significant milestones, potential impacts, mitigation measures, changed traffic and parking conditions, and other matters which are of interest or concern to them. The plan must also include but not be limited to: Identification of relevant stakeholders Procedures to disseminate information regarding the construction schedule, construction progress, key milestones, changes in traffic and parking conditions and environmental management measures Procedures to engage with stakeholders including affected businesses and relevant local trader associations, and through which affected businesses and relevant local trader associations can provide comment or feedback in relation to environmental management or delivery of the Project Procedures that would be implemented to resolve any issues or disputes that may arise between parties relating to the environmental management or delivery of the Project Procedures to minimise impact on access to business and commercial premises during construction and to restore permanent access (refer BP2). 	 Business Involvement Plan As part of the Communications and Community Engagement Plan (see EPR SP2), develop and implement a Business Involvement Plan, in consultation with affected local Councils, affected businesses, relevant local trader association, and other affected stakeholders, in advance of works (other than preparatory works as referred to in the Incorporated Document) commencing. Councils and affected stakeholders (including affected businesses and relevant local trader association) are to be consulted on progress of construction activities, including significant milestones, potential impacts, mitigation measures, changed traffic and parking conditions, and other matters which are of interest or concern to them. The plan must also include but not be limited to: Identification of relevant stakeholders Procedures to disseminate information regarding the construction schedule, construction progress, key milestones, changes in traffic and parking conditions and environmental management measures Procedures to engage with stakeholders including affected businesses and relevant local trader associations, and through which affected businesses and relevant local trader associations can provide comment or feedback in relation to environmental management or delivery of the Project Procedures that would be implemented to resolve any issues or disputes that may arise between parties relating to the environmental management or delivery of the Project Procedures to minimise impact on access to business and commercial premises during construction and to restore permanent access (refer BP2). 	EPR supported with minor amendments to include publication of the plan on the project website.	Business As part of SP2), dev consultati local trade works <u>cor</u> Incorpora Councils a relevant lo constructi impacts, r and other must <u>be p</u> <u>constructi</u> • Identi • Identi • Proce schee and p • Proce dispu envire • Proce
BP6	Detailed design, construction	 Utility assets Through detailed design and construction, minimise impacts on utility assets, to the extent practicable, including but not limited to: Stormwater and sewer assets Electricity transmissions assets (overhead and underground lines) Gas and fuel pipelines Communications lines (e.g. fibre optic cables). To the extent relocations are required to facilitate the Project, protect and where required, modify utility assets to the satisfaction of asset owners. 	Utility assets Through detailed design and construction, minimise impacts on utility assets, to the extent practicable, including but not limited to: • Stormwater and sewer assets • Electricity transmissions assets (overhead and underground lines) • Gas and fuel pipelines • Communications lines (e.g. fibre optic cables and VicRoads trunk fibre). To the extent relocations are required to facilitate the Project, protect and where required, modify utility assets to the satisfaction of asset owners.	IAC recommendation supported.	Utility as Through of assets, to Storm Electri Gas a Comr fibre) To the ex and where owners.
BP7	Detailed design, construction	 Gas utilities Unless agreed otherwise with the asset owner, ensure that: No works are undertaken within 3.0 metres of any licensed transmission gas pipeline or underground regulating station Subject to the requirement below, clearances to all gas assets are as per the Conditions of Works as detailed in SP AusNet Technical Standards TS2607.1, TS2607.2 and TS2607.3, as amended or 	EPR supported.	Version 6 EPR supported.	Gas utilit Unless ag No w trans Subje as pe

ng context, in consultation with the relevant local councils, property owners and occupiers.

on operation of community, private recreation and facilities and services

e operation of community, private recreation and council and services are directly impacted by the Project, mitigation agement measures must be implemented in consultation with opriate stakeholders including the relevant local council to these impacts to the extent practicable.

Involvement Plan

f the Communications and Community Engagement Plan (see velop and implement a Business Involvement Plan, in ion with affected local Councils, affected businesses, relevant er association, and other affected stakeholders, in advance of <u>mmencing</u> (other than preparatory works as referred to in the ited Document) commencing.

and affected stakeholders (including affected businesses and local trader association) are to be consulted on progress of tion activities, including significant milestones, potential mitigation measures, changed traffic and parking conditions, r matters which are of interest or concern to them. The plan published on the project website for the duration of tion and also include but not be limited to:

fication of relevant stakeholders

edures to disseminate information regarding the construction dule, construction progress, key milestones, changes in traffic parking conditions and environmental management measures

edures to engage with stakeholders including affected nesses and relevant local trader associations, and through h affected businesses and relevant local trader associations provide comment or feedback in relation to environmental agement or delivery of the Project

edures that would be implemented to resolve any issues or utes that may arise between parties relating to the conmental management or delivery of the Project

edures to minimise impact on access to business and mercial premises during construction and to restore nanent access (refer BP2).

sets

detailed design and construction, minimise impacts on utility the extent practicable, including but not limited to:

water and sewer assets

ricity transmissions assets (overhead and underground lines)

and fuel pipelines

munications lines (e.g. fibre optic cables and VicRoads trunk

tent relocations are required to facilitate the Project, protect re required, modify utility assets to the satisfaction of asset

ies

greed otherwise with the asset owner, ensure that:

orks are undertaken within 3.0 metres of any licensed mission gas pipeline or underground regulating station

ect to the requirement below, clearances to all gas assets are er the Conditions of Works as detailed in SP AusNet Technical dards TS2607.1, TS2607.2 and TS2607.3, as amended or

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		 replaced from time to time Risk assessments and safety studies detailing the impact on gas network infrastructure are completed in accordance with AS2885, which is the Standards Australia standard for the design, construction, testing, operations and maintenance of gas and petroleum pipelines that operate at pressure in excess of 1050 kPa, as amended or replaced from time to time. 			replac Risk asse network in which is th testing, op that opera replaced f
BP8	Detailed design, construction	Business disruption Minimise disruption to businesses to the extent practicable from temporary occupation of land.	EPR supported.	Version 6 EPR supported.	Business Minimise of temporary
BP9	Detailed design, construction	Business acquisition process Minimise disruption to businesses to the extent practicable from the acquisition of interests in land, and work with business and land owners to endeavour to reach agreement on the terms for possession of the land.	EPR supported.	Version 6 EPR supported.	Business Minimise of acquisition owners to of the land
		Cultural heritage			
CHP1	Detailed design, construction	Cultural Heritage Management Plan Comply with and implement the Cultural Heritage Management Plan (CHMP) approved under the <i>Aboriginal Heritage Act 2006</i> .	EPR supported.	Version 6 EPR supported.	Cultural H Comply wi (CHMP) a
CHP2	Detailed design, pre- construction, construction	 Design and construction to minimise impacts on heritage Undertake detailed design of the permanent and temporary works to minimise impacts where practicable, on historic cultural heritage in consultation with Heritage Victoria and relevant local councils. Prior to commencement of works that affect heritage structures, features or places, develop and implement in consultation with the relevant heritage authority: Physical protection measures for heritage structures, features and places as appropriate A methodology for any required dismantling, storage or reinstatement of heritage fabric (with reference to the ICOMOS Burra Charter 2013). 	 Design and construction to minimise impacts on heritage Undertake detailed design of the permanent and temporary works to minimise impacts where practicable, on historic cultural heritage in consultation with Heritage Victoria and relevant local councils. Prior to commencement of works that affect heritage structures, features or places, develop and implement in consultation with the relevant heritage authority: Physical protection measures for heritage structures, features and places as appropriate A methodology for any required dismantling, storage or reinstatement of heritage fabric (with reference to the ICOMOS Burra Charter 2013). 	Recommend use of the phrase 'heritage places' to ensure consistency with the Burra Charter and reference to the Heritage Act 2017.	Design ar Undertake minimise i <u>cultural he</u> Victoria ar Prior to co features o relevant he Physic places • A met reinsta Burra <u>Note: The</u> (formerly /
CHP3	Pre- construction, construction	 Archaeological Management Plan Develop an Archaeological Management Plan detailing measures to avoid, minimise, mitigate or manage disturbance of archaeological sites and values affected by the works. Undertake investigations in accordance with the Guidelines for Investigating Historical Archaeological Artefacts and Sites, Heritage Victoria 2014 and to the satisfaction of the Executive Director, Heritage Victoria. The Management Plan must include: Requirements for background historical research, excavation methodology, research design, reporting and artefact management and analysis The incorporation of strategies relating to the protection of sites of archaeological interest in relevant master plans Protocols for managing previously unidentified historical archaeological sites discovered during the works. 	EPR supported.	Version 6 EPR supported.	 Archaeolo Develop a avoid, min sites and v accordance Archaeolo satisfaction The Mana Requi metho and ai The ir archae Protoco archaeolo
CHP4	Construction	Monitoring of heritage sites and places Undertake vibration monitoring during construction within an appropriate distance (as determined by a technical assessment) of heritage sites and places on the Victorian Heritage Register (VHR) at risk of impact and monitor their condition during and post construction for settlement and structural integrity disturbance as a result of the proposed works. Report the results to the Executive Director, Heritage	Monitoring of heritage sites and places Undertake vibration monitoring during <u>demolition</u> , <u>excavation</u> and construction within an appropriate distance (as determined by a technical assessment) of heritage sites and places on the Victorian Heritage Register (VHR) at risk of impact and monitor their condition during and post construction for settlement and structural integrity disturbance as a result of the proposed works. Report the results to the	IAC recommendation supported. Recommend consistent wording with Heritage Act.	Monitorin Undertake construction technical a Heritage F during and disturband

ed from time to time

ssments and safety studies detailing the impact on gas frastructure are completed in accordance with AS2885, ne Standards Australia standard for the design, construction, perations and maintenance of gas and petroleum pipelines te at pressure in excess of 1050 kPa, as amended or rom time to time.

disruption

disruption to businesses to the extent practicable from occupation of land.

acquisition process

disruption to businesses to the extent practicable from the n of interests in land, and work with business and land endeavour to reach agreement on the terms for possession d.

leritage Management Plan

ith and implement the Cultural Heritage Management Plan pproved under the *Aboriginal Heritage Act 2006*.

nd construction to minimise impacts on heritage

e detailed design of the permanent and temporary works to mpacts where practicable, on historic cultural heritage the eritage values of heritage places in consultation with Heritage nd/or relevant local councils (as applicable).

mmencement of works that affect heritage structures, r places, develop and implement in consultation with the eritage authority:

cal protection measures for heritage structures, features and s as appropriate

hodology for any required dismantling, storage or atement of heritage fabric (with reference to the ICOMOS Charter 2013).

project must meet the requirements of the Heritage Act 2017 Heritage Act 1995)

ogical Management Plan

n Archaeological Management Plan detailing measures to imise, mitigate or manage disturbance of archaeological values affected by the works. Undertake investigations in which the Guidelines for Investigating Historical gical Artefacts and Sites, Heritage Victoria 2014 and to the n of the Executive Director, Heritage Victoria.

gement Plan must include:

rements for background historical research, excavation odology, research design, reporting and artefact management nalysis

ncorporation of strategies relating to the protection of sites of eological interest in relevant master plans

cols for managing previously unidentified historical eological sites discovered during the works.

g of heritage sites and places

e vibration monitoring during demolition, excavation and on within an appropriate distance (as determined by a assessment) of heritage sites and places <u>on in</u> the Victorian Register (VHR) at risk of impact and monitor their condition d post construction for settlement and structural integrity as a result of the proposed works. Report the results to the

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		Victoria and take remedial action, if required, to the satisfaction of the Executive Director, Heritage Victoria. (Also refer to GMP3 and NVP7)	Executive Director, Heritage Victoria and take remedial action, if required, to the satisfaction of the Executive Director, Heritage Victoria. (Also refer to GMP3 and NVP7)		Executive required, (Also refe
CHP5	Pre- construction	Archival photographic records Prior to construction, undertake archival photographic recording (interior and exterior) of all heritage buildings, streetscapes or places disturbed by the works in accordance with Heritage Victoria's specification for the archival photographic recording of heritage places.	EPR supported.	Version 6 EPR supported.	Archival Prior to co (interior a disturbed specificat
CHP6	Detailed design, construction	Port Phillip Monument Develop and implement an approach to maintain a link between the Port Phillip Monument and the Maribyrnong River, including establishing an appropriate setting in consultation with the City of Melbourne which allows for interpretation, either on the existing or an alternative site.	EPR supported.	Version 6 EPR supported.	Port Phil Develop a Port Philli establishi Melbourn alternative
CHP7	Pre- construction, construction	Heritage interpretation strategy In consultation with the relevant local councils, develop and implement a heritage interpretation strategy for the Project which seeks to explore historical and Aboriginal cultural heritage themes. The strategy must include an audit of existing heritage interpretation. The strategy may include installation of signage regarding local heritage places and is to have a particular focus on the Kororoit Creek area, Footscray/ Maribyrnong River area, and the Moonee Ponds Creek area.	Heritage interpretation strategy In consultation with the relevant local councils, develop and implement a heritage interpretation strategy for the Project which seeks to explore historical and Aboriginal cultural heritage themes. The strategy must include an audit of existing heritage interpretation. The strategy may include installation of signage regarding local heritage places and is to have a particular focus on the Kororoit Creek area, Footscray/ Maribyrnong River area, and the Moonee Ponds Creek area.	Recommend consultation with the Aboriginal community.	Heritage In consult communit for the Pr heritage t heritage i regarding Kororoit (Moonee F
CHP8	Pre- construction, construction	 Shipwrecks To confirm the presence of shipwrecks at the Maribyrnong River crossing, including the Hilaria (S331) which is thought to be located on the west bank of the river, undertake preliminary high-resolution sonar scan of river environs within the area to be affected by the works and targeted diving for sub-surface anomalies within the area affected by the works. Based on the results of investigations, as appropriate develop management measures in consultation with Heritage Victoria; these could include consideration in the detailed design and a detailed program of archaeological investigation. If the Edina (S199) is affected by works, record appropriately and relocate, if practicable, to a more secure location within the Maribyrnong riverine landscape or include as part of an interpretation strategy for display in the local area, to the satisfaction of Heritage Victoria. Engage a suitably qualified and experienced maritime archaeologist to undertake these tasks. 	EPR supported.	Version 6 EPR supported.	Shipwred To confirr crossing, the west I scan of rit targeted of the works develop rit these cou program of If the <i>Edil</i> relocate, Maribyrnd strategy fi Victoria. Engage a undertake
CHP9	Detailed design	Maribyrnong River front (Footscray) Where practicable in detailed design retain evidence of historical infrastructure and services in the vicinity of the Maribyrnong River front (Footscray), including rail tracks and the bluestone drain (Billy Button Creek). If removal is required, record in accordance with EPR CHP5.Apply the heritage interpretation strategy (CHP7) as appropriate.	EPR supported.	Version 6 EPR supported.	Maribyrn Where prinfrastruc (Footscra Creek). If Apply the
CHP10	Construction	Bluestone bridge Undertake any works at and/or in the immediate vicinity of the bluestone bridge over Kororoit Creek (HO259) in a manner which avoids to the extent practicable disturbing surviving evidence of early road surfacing, including to the approaches to the bridge.	EPR supported.	Version 6 EPR supported.	Blueston Undertake bluestone avoids to road surfa
CHP11	Detailed design	Rail turntables Through detailed design, consideration must be given to minimising impacts on the rail turntables to the extent practicable. If it is necessary to remove both of the rail turntables, develop and implement a methodology for the salvage and storage of one of the turntables to provide the opportunity for future reinstatement at an alternative site.	Rail turntables Through detailed design, <u>avoid impacts to the consideration must be</u> given to minimising impacts on the rail turntables. <u>Make every effort to</u> maintain rail turntables in situ. If it is necessary to remove one of the rail turntables, develop to the extent practicable. If it is necessary to remove both of the rail turntables, develop and implement a methodology for the salvage and storage of one of the turntables to	Recommend modification to provide that impact avoidance should be adopted to the extent practicable.	Rail turn Through o practicabl necessar a method provide th

e Director, Heritage Victoria and take remedial action, if to the satisfaction of the Executive Director, Heritage Victoria. er to GMP3 and NVP<u>11</u>)

photographic records

onstruction, undertake archival photographic recording and exterior) of all heritage buildings, streetscapes or places I by the works in accordance with Heritage Victoria's tion for the archival photographic recording of heritage places.

llip Monument

and implement an approach to maintain a link between the ip Monument and the Maribyrnong River, including ing an appropriate setting in consultation with the City of he which allows for interpretation, either on the existing or an re site.

interpretation strategy

tation with the relevant local councils <u>and Aboriginal</u> <u>ty</u> develop and implement a heritage interpretation strategy roject which seeks to explore historical and Aboriginal cultural themes. The strategy must include an audit of existing interpretation. The strategy may include installation of signage g local heritage places and is to have a particular focus on the Creek area, Footscray/Maribyrnong River area, and the Ponds Creek area.

cks

m the presence of shipwrecks at the Maribyrnong River including the *Hilaria* (S331) which is thought to be located on bank of the river, undertake preliminary high-resolution sonar iver environs within the area to be affected by the works and diving for sub-surface anomalies within the area affected by s. Based on the results of investigations, as appropriate management measures in consultation with Heritage Victoria; uld include consideration in the detailed design and a detailed of archaeological investigation.

ina (S199) is affected by works, record appropriately and if practicable, to a more secure location within the ong riverine landscape or include as part of an interpretation for display in the local area, to the satisfaction of Heritage

suitably qualified and experienced maritime archaeologist to e these tasks.

nong River front (Footscray)

racticable in detailed design retain evidence of historical eture and services in the vicinity of the Maribyrnong River front ay), including rail tracks and the bluestone drain (Billy Button f removal is required, record in accordance with EPR CHP5. e heritage interpretation strategy (CHP7) as appropriate.

ne bridge

te any works at and/or in the immediate vicinity of the e bridge over Kororoit Creek (HO259) in a manner which the extent practicable disturbing surviving evidence of early acing, including to the approaches to the bridge.

tables

detailed design, avoid impacts to rail turntables to the extent <u>de</u>. Make every effort to maintain rail turntables in situ. If it is y to remove one of the rail turntables, develop and implement lology for the salvage and storage of one of the turntables to he opportunity for future reinstatement at an alternative site.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
			provide the opportunity for future reinstatement at an alternative site.		
CHP12	Construction	Flinders Street Undertake any works in the vicinity of the two VHR heritage places (No. 2 Goods Shed and the Flinders Street Retaining Wall) in a manner which avoids disturbance to the extent practicable.	EPR supported.	Version 6 EPR supported.	Flinders S Undertake (No. 2 Goo manner w
		Contaminated soil and spoil			
CSP1	Construction	 Contaminated soil requirements The CEMP must include processes and measures to manage contaminated soil that comply with relevant standards, guidelines, statutory requirements and best practice including but not limited to: SEPP – Prevention and Management of Contaminated Land, 2002 SEPP – Air Quality Management, 2001 (in respect of odour) Environment Protection (Industrial Waste Resource) Regulations 2009 Industrial Waste Management Policy (Waste Acid Sulphate Soils) 1999 National Environment Protection (Assessment of Site Contamination) Measures 2013 Environment Protection (Schedule Premises and Exemptions) Regulations 2007 WorkSafe Occupational Health and Safety Regulations 2007 (Asbestos) Relevant Industrial Waste Resource Guidelines. 	 Contaminated soil requirements The CEMP must include processes and measures to manage contaminated soil (including paste) that comply with relevant standards, guidelines, statutory requirements and best practice including but not limited to: SEPP – Prevention and Management of Contaminated Land, 2002 SEPP – Air Quality Management, 2001 (in respect of odour) Environment Protection (Industrial Waste Resource) Regulations 2009 Industrial Waste Management Policy (Waste Acid Sulphate Soils) 1999 National Environment Protection (Assessment of Site Contamination) Measures 2013 Environment Protection (Schedule Premises and Exemptions) Regulations 2007 WorkSafe Occupational Health and Safety Regulations 2007 (Asbestos) Relevant Industrial Waste Resource Guidelines. 	IAC recommendation supported.	Contamin The CEMF contamina standards including b • SEPP • Enviro 2009 • Indust 1999 • Natior Conta • Enviro Regul • Works (Asbe • Relev
CSP2	Pre- construction, construction	 Contaminated soil and spoil management The CEMP must include a sub-management plan that sets out the requirements and methods for contaminated soil and spoil management developed in consultation with EPA Victoria. This must include undertaking a detailed assessment prior to any excavation of potentially contaminated areas to identify location, types and extent of any contaminated land and properties within or adjacent to the Project boundary, and sensitive land uses affected by construction activity outside the Project boundary, and assessing the potential impact for human health, environmental risk and odour. This assessment must include but not be limited to consideration of the following: Potential contamination risks at the former quarry locations and landfills Potential contamination risks associated with any alteration of the 220kV power lines and any other utilities Potential contamination risks and waste classification of the sediments in the Maribyrnong River and Moonee Ponds Creek Potential impacts posed by contamination sources adjacent to the northern portal area Presence of soil contamination where excavations are proposed in the South Dynon rail yards Potential contamination risks in locations where public open spaces are proposed. The CEMP must also include requirements and methods for: Characterising soil prior to disposal or reuse including PFAS chemicals EPA waste classification to enable reuse, transport and temporary 	 Contaminated soil and spoil management The CEMP must include a sub-management plan that sets out the requirements and methods for contaminated soil and spoil management developed in consultation with to the satisfaction of EPA Victoria. This The contaminated soil and spoil management plan must include undertaking a detailed assessment prior to any excavation of potentially contaminated areas to identify location, types and extent of any contaminated land and properties within or adjacent to the Project boundary, and sensitive land uses affected by construction activity outside the Project boundary, and assessing the potential impact for human health, environmental risk and odour. This assessment must include but not be limited to consideration of the following: Potential contamination risks, including landfill gas migration at the former quarry locations and landfills in accordance with Landfill BEPM publication 788 Potential contamination risks associated with any alteration of the 220kV power lines and any other utilities Potential contamination risks and waste classification of the sediments in the Maribyrnong River and Moonee Ponds Creek Potential impacts posed by contamination sources adjacent to the northern portal area Presence of soil contamination where excavations are proposed in the South Dynon rail yards Potential contamination risks in locations where public open spaces are proposed. 	IAC recommendation supported.	Contamin The CEMF requireme managem The conta undertakin potentially any contar boundary, outside the human he This asses following: • Poten 220kV • Poten 220kV • Poten North • Poten North • Poten sedim • Poten northe • Poten sedim

Street

e any works in the vicinity of the two VHR heritage places ods Shed and the Flinders Street Retaining Wall) in a hich avoids disturbance to the extent practicable.

nated soil requirements

P must include processes and measures to manage ated soil (including paste) that comply with relevant b, guidelines, statutory requirements and best practice but not limited to:

Prevention and Management of Contaminated Land, 2002
 Air Quality Management, 2001 (in respect of odour)

onment Protection (Industrial Waste Resource) Regulations

trial Waste Management Policy (Waste Acid Sulphate Soils)

nal Environment Protection (Assessment of Site mination) Measures 2013

onment Protection (Schedule<u>d</u> Premises and Exemptions) ations 20<u>1</u>7

Safe Occupational Health and Safety Regulations 2007 stos)

ant Industrial Waste Resource Guidelines.

ated soil and spoil management

P must include a sub-management plan that sets out the ents and methods for contaminated soil and spoil ment developed to the satisfaction of EPA Victoria.

iminated soil and spoil management plan must include ing a detailed assessment prior to any excavation of *v* contaminated areas to identify location, types and extent of minated land and properties within or adjacent to the Project , and sensitive land uses affected by construction activity e Project boundary, and assessing the potential impact for ealth, environmental risk and odour.

ssment must include but not be limited to consideration of the

tial contamination risks, including landfill gas migration at the r quarry locations and landfills in accordance with Landfill 1 publication 788

tial contamination risks associated with any alteration of the / power lines and any other utilities

tial contamination risks associated with any works to the Yarra Main Sewer

itial contamination risks and waste classification of the nents in the Maribyrnong River and Moonee Ponds Creek

itial impacts posed by contamination sources adjacent to the ern portal area

nce of soil contamination where excavations are proposed in buth Dynon rail yards

itial contamination risks in locations where public open as are proposed.

via the contaminated soil and spoil management plan must de requirements and methods for:

cterising soil prior to disposal or reuse including PFAS

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
No.	Phase	 WDA Version 6 storage Identifying, and where practicable adopting, options for the reuse of spoil in accordance with the Environment Protection Act 1970 waste management hierarchy Identifying soil containing asbestos and if present, developing management strategies in accordance with the WorkSafe Regulations Assessing geological formations with naturally enriched metals and applicable spoil management options and or off-site disposal to the satisfaction of EPA Victoria, in particular, tunnel spoil and the West Gate Freeway embankment material Identifying suitably licensed facilities for the disposal or treatment of contaminated soil Management of dust, potential stormwater run-off and seepage from stockpiled materials, including the enclosure of the spoil handling facility at the former pivot site near the northern portal Assessing potential for accumulation of potentially harmful gases and vapours during tunnelling from soil and groundwater contamination zones Undertaking a baseline site assessment of areas proposed for construction laydown prior to use Management of SEPP (AQM) Minimising cut and cover construction techniques in areas containing asbestos contamination Protection of the beneficial uses of land associated with current and planned future use. 	 IAC recommendation Characterising soil prior to disposal or reuse including PFAS chemicals EPA waste classification to enable reuse, transport and temporary storage Identifying, and where practicable adopting, options for the reuse of spoil in accordance with the Environment Protection Act 1970 waste management hierarchy Identifying soil containing asbestos and if present, developing management strategies in accordance with the WorkSafe Regulations Assessing geological formations with naturally enriched metals and applicable spoil management options and or off-site disposal to the satisfaction of EPA Victoria, in particular, tunnel spoil and the West Gate Freeway embankment material Identifying suitably licensed facilities for the disposal or treatment of contaminated soil Management of wastewater Management of dust, potential stormwater run-off and seepage from stockpiled materials, including the enclosure of the spoil handling facility at the former pivot site near the northern portal Assessing potential for accumulation of potentially harmful gases and vapours during tunnelling from soil and groundwater contamination zones Undertaking a baseline site assessment of areas proposed for construction laydown prior to use Management of any air pollutants released as a result of disturbance of contaminated land, in accordance with requirements of SEPP (AQM) Minimising cut and cover construction techniques in areas containing asbestos contamination 	Minister's assessment	 Recomme Chem EPA v storag Identi of spo waste Identi mana Regul Asses and a to the the W Identi of cor Mana from s handl Asses and v conta Unde const Mana distur requi Minin conta Prote
CSP3	Pre- construction, construction	Acid sulphate soil The CEMP must include requirements and methods for the management of waste acid sulphate soil material in accordance with EPA Victoria publication IWRG 2009, EPA Victoria Publication 655.1 Acid Sulfate Soil and Rock 2009, Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soil. This will include undertaking an acid sulphate soils risk identification process in accordance with the Victorian Coastal Acid Sulphate Soil Strategy, if soil and rock within the Project boundary are suspected to be acid sulphate soil and rock.	EPR supported.	Version 6 EPR supported.	Acid sulp The CEM managem EPA Victo Acid Sulfa Assessing This will in process in Strategy, be acid su
CSP4	Construction	Odour management The CEMP must include requirements and methods for odour management during the excavation, stockpiling and transportation of contaminated material including: Identifying the areas of contamination that may pose an odour risk; Monitoring of the excavated material for possible odour risk Management measures to minimise odour. Ecology	EPR suppoted.	Version 6 EPR supported.	Odour ma The CEM managem contamina • Identi • Monit • Mana
EP1	Detailed design, pre- construction, construction	Minimise vegetation removal and disturbance Develop and implement measures to avoid, where practicable, and otherwise minimise to the extent practicable impacts on native vegetation and fauna habitat through detailed design and construction, including:	Minimise vegetation removal and disturbance Develop and implement measures to avoid, where practicable, and otherwise minimise to the extent practicable impacts on native vegetation and fauna habitat through detailed design and construction, including:	IAC recommendation supported.	Minimise Develop a otherwise vegetatior including:

cals

- waste classification to enable reuse, transport and temporary ge
- fying, and where practicable adopting, options for the reuse bil in accordance with the Environment Protection Act 1970 e management hierarchy
- fying soil containing asbestos and if present, developing gement strategies in accordance with the WorkSafe lations
- ssing geological formations with naturally enriched metals applicable spoil management options and/or off-site disposal e satisfaction of EPA Victoria, in particular, tunnel spoil and /est Gate Freeway embankment material
- fying suitably licensed facilities for the disposal or treatment ntaminated soil
- gement of wastewater
- agement of dust, potential stormwater run-off and seepage stockpiled materials, including the enclosure of the spoil ling facility at the former pivot site near the northern portal
- ssing potential for accumulation of potentially harmful gases apours during tunnelling from soil and groundwater mination zones
- rtaking a baseline site assessment of areas proposed for ruction laydown prior to use
- agement of any air pollutants released as a result of bance of contaminated land, in accordance with rements of SEPP (AQM)
- nising cut and cover construction techniques in areas ining asbestos contamination
- ction of the beneficial uses of land associated with current lanned future use

ohate soil

- P must include requirements and methods for the nent of waste acid sulphate soil material in accordance with oria publication IWRG 2009, EPA Victoria Publication 655.1 ate Soil and Rock 2009, Victorian Best Practice Guidelines for g and Managing Coastal Acid Sulfate Soil.
- nclude undertaking an acid sulphate soils risk identification n accordance with the Victorian Coastal Acid Sulphate Soil if soil and rock within the Project boundary are suspected to ulphate soil and rock.

anagement

- P must include requirements and methods for odour ent during the excavation, stockpiling and transportation of ated material including:
- fying the areas of contamination that may pose an odour risk;
- oring of the excavated material for possible odour risk
- gement measures to minimise odour.

vegetation removal and disturbance

and implement measures to avoid, where practicable, and minimise to the extent practicable impacts on native n and fauna habitat through detailed design and construction,

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		Minimising footprint and surface disturbance of temporary and permanent works and constrain works on or near the north side of the West Gate Freeway and Kororoit Creek intersection, Hyde Street Reserve, Yarraville Gardens, Stony Creek and Stony Creek Reserve, Maribyrnong River, Moonee Ponds Creek, Kororoit Creek, Dynon Road and areas of amenity planting including Footscray Road	Minimising footprint and surface disturbance of temporary and permanent works and constrain works on or near the north <u>and</u> <u>south</u> side of the West Gate Freeway and Kororoit Creek intersection, Hyde Street Reserve, Yarraville Gardens, Stony Creek and Stony Creek Reserve, Maribyrnong River, Moonee Ponds Creek, Kororoit Creek, Dynon Road and areas of amenity planting including Footscray Road		Minim perma south interse Creek Ponds plantir
		 Minimising works in or near wetlands and EVC habitats (such as the Kororoit Creek Riparian Woodland, Stony Creek Coastal Saltmarsh, Moonee Ponds Creek Brackish Wetlands and Plains Grassy Woodland and Swamp Scrub patches along Dynon Road) 	 Minimising works in or near wetlands and EVC habitats (such as the Kororoit Creek Riparian Woodland, Stony Creek Coastal Saltmarsh, Moonee Ponds Creek Brackish Wetlands and Plains Grassy Woodland and Swamp Scrub patches along Dynon Road) 		Minim the Ko Saltm Grass
		Minimising footprint and disturbance of potential foraging habitat for Swift Parrot, Powerful Owl and Grey-headed Flying Fox	Minimising footprint and disturbance of potential foraging habitat for Swift Parrot, Powerful Owl and Grey-headed Flying Fox		Minim for Sw
		 Minimising the removal of mature trees, planted and remnant native trees and remnant vegetation, particularly large amenity trees (>30 cm DBH) and those within or connected to public reserves and parks 	 Minimising the removal of mature trees, planted and remnant native trees and remnant vegetation, particularly large amenity trees (>30 cm DBH) and those within or connected to public reserves and parks 		Minim native trees reserv
		 Arboricultural assessments to inform detailed design and maximise tree retention and long-term viability of amenity plantings. A pre-construction site assessment must be carried out to confirm the area and number of trees proposed to be impacted. Area and number 	Arboricultural assessments to inform detailed design and maximise tree retention and long-term viability of amenity plantings <u>in</u> accordance with Australian Standard 4970-2009 Protection of <u>Trees on Development Sites</u>		Arbori tree re accore Trees
		of trees actually removed is to be confirmed through a post- construction assessment.	Explore potential relocation of palm trees removed from Yarraville Gardens.		Explo Garde
			A pre-construction site assessment must be carried out to confirm the area and number of trees <u>and other vegetation</u> proposed to be impacted. Area and number of trees <u>and other vegetation</u> actually removed is to be confirmed through a post-construction assessment.		A pre-cons area and r impacted. removed is
EP2	Pre- construction,	Vegetation protection measures	<u>Native</u> Vegetation and <u>Tree</u> protection measures	Recommend retention of Version 6 EPR heading,	Native Ve
	construction	construction requirements and methods for: requirements and methods for: • Identification of areas of important flora and fauna habitat to be protected during construction • Identification of areas of important flora and fauna habitat to be protected during construction	requirements and methods for:	otherwise IAC recommendation	requireme
			Identification of areas of important flora and fauna nabitat to be protected during construction	supported.	Identin protect
		 Fencing protected areas and no go zones to prevent access during construction. Fencing should be to a standard agreed with the relevant land manager 	Fencing protected areas and no go zones to prevent access during construction. Fencing should be to a standard agreed with the relevant land manager		Fencin constr releva
		Pre-construction site assessment to confirm that vegetation and trees to be retained have been adequately protected from impact	• Pre-construction site assessment to confirm that vegetation and trees to be retained have been adequately protected from impact		Pre-contrees
		Vegetation clearing controls and protection measures	Vegetation clearing controls and protection measures		Veget
	 Development and implementation of a Tree Protection Plan for protection of retained trees based on the recommendations of Australian Standard 4970-2009 Protection of Trees on Development Sites. The Tree Protection Plan must respond to the detailed design and construction methodology and identify all trees to be retained, their condition, significance, and measures to protect them from the impact of construction activities Implementation of appropriate measures to manage the risk of the spread and introduction of weeds and pathogens during construction 	 Development and implementation of a Tree Protection Plan for protection of retained trees based on the recommendations of Australian Standard 4970-2009 Protection of Trees on Development Sites. The Tree Protection Plan must respond to the detailed design and construction methodology and identify all trees to be retained, their condition, significance, and measures to protect them from the impact of construction activities Implementation of appropriate, measures to manage the risk of the 	Development and implementation of a Tree Protection Plan for protection of retained trees based on the recommendations of Australian Standard 4970-2009 Protection of Trees on Development Sites. The Tree Protection Plan must respond to the detailed design and construction methodology and identify all trees to be retained, their condition, significance, and measures to protect them from the impact of construction activities including identification of the tree protection zone		Devel protect Austra Devel detailet to be protect identif
		Implementation of appropriate measures to manage the risk of the spread and introduction of weeds and pathogens during construction		Implei spread constr	
		threatened species are identified .	Procedures if unexpected endangered ecological communities or threatened species are identified.		Proce threat
EP3	Construction	Reinstatement	EPR supported.	Version 6 EPR	Reinstate
		Areas affected by temporary works must be reinstated and appropriate vegetation selected for planting to tolerate the microclimate conditions including under new road structures, such as the elevated structure over Footscray Road, in consultation with the relevant council and the land manager.		supported.	Areas affe vegetation including u over Foots land mana

anising footprint and surface disturbance of temporary and anent works and constrain works on or near the north and side of the West Gate Freeway and Kororoit Creek ection, Hyde Street Reserve, Yarraville Gardens, Stony and Stony Creek Reserve, Maribyrnong River, Moonee s Creek, Kororoit Creek, Dynon Road and areas of amenity ng including Footscray Road

ising works in or near wetlands and EVC habitats (such as proroit Creek Riparian Woodland, Stony Creek Coastal arsh, Moonee Ponds Creek Brackish Wetlands and Plains y Woodland and Swamp Scrub patches along Dynon Road)

ising footprint and disturbance of potential foraging habitat vift Parrot, Powerful Owl and Grey-headed Flying Fox

ising the removal of mature trees, planted and remnant trees and remnant vegetation, particularly large amenity (>30 cm DBH) and those within or connected to public res and parks

icultural assessments to inform detailed design and maximise etention and long-term viability of amenity plantings in dance with Australian Standard 4970-2009 Protection of on Development Sites

re potential relocation of palm trees removed from Yarraville ens.

struction site assessment must be carried out to confirm the number of trees and other vegetation proposed to be Area and number of trees and other vegetation actually s to be confirmed through a post-construction assessment.

getation and Tree protection measures

^D must include a sub-management plan that sets out the nts and methods for:

fication of areas of important flora and fauna habitat to be cted during construction

ng protected areas and no go zones to prevent access during ruction. Fencing should be to a standard agreed with the int land manager

onstruction site assessment to confirm that vegetation and to be retained have been adequately protected from impact

ation clearing controls and protection measures

opment and implementation of a Tree Protection Plan for ction of retained trees based on the recommendations of alian Standard 4970-2009 Protection of Trees on

opment Sites. The Tree Protection Plan must respond to the ed design and construction methodology and identify all trees retained, their condition, significance, and measures to at them from the impact of construction activities including fication of the tree protection zone

mentation of appropriate measures to manage the risk of the d and introduction of weeds and pathogens during ruction

dures if unexpected endangered ecological communities or ened species are identified.

ment

acted by temporary works must be reinstated and appropriate a selected for planting to tolerate the microclimate conditions under new road structures, such as the elevated structure scray Road, in consultation with the relevant council and the ager.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
EP4	Pre- construction, construction	 Fauna management measures The CEMP must include requirements and methods for: Undertaking pre-clearing surveys and inspections to confirm the on-site location of native fauna species Relocating native fauna from pre-clearance survey areas as appropriate Preparation of a translocation strategy for relocation of any significant fauna species including, where non-listed species are encountered; any individuals will be encouraged to leave the vegetation; and where nests are encountered, they will be relocated to a similar tree / habitat in close proximity Reporting and actions to follow for management and offsetting purposes The surveys and inspections to must be undertaken under the guidance of a suitably qualified ecologist, as well as any subsequent management or offset measures if required Minimise lighting impacts in known fauna habitats Incidental or unanticipated threatened flora and fauna finds to be reported immediately and any clearing works in the vicinity must be stopped until an evaluation of an appropriate response can be established. 	 Fauna management measures The CEMP must include requirements and methods for: Undertaking pre-clearing surveys and inspections to confirm the on-site location of native fauna species Relocating native fauna from pre-clearance survey areas as appropriate Preparation of a translocation strategy for relocation of any significant fauna species including, where non-listed species are encountered; any individuals will be encouraged to leave the vegetation; and where nests are encountered, they will be relocated to a similar tree / habitat in close proximity Reporting and actions to follow for management and offsetting purposes The surveys and inspections to must be undertaken under the guidance of a suitably qualified ecologist, as well as any subsequent management or offset measures if required Minimise lighting impacts in known fauna habitats Incidental or unanticipated threatened flora and fauna finds to be reported immediately and any clearing works in the vicinity must be stopped until an evaluation of an appropriate response can be established. 	Recommend removing reference to a translocation strategy. Translocation of native fauna is only supported on conservation grounds in some circumstances. Instead the EPR should refer to a strategy for managing native fauna displaced due to tree removal in compliance with the Wildlife Act and in consultation with public land managers where relevant.	Fauna ma The CEMF Manage in com public prepar cleara Under on-site Reloca approf Prepar signific encour vegeta reloca Report purpos The su guidar subset Minimi Incider reported The survey undertaker authorisatii manageme be reported
EP5	Detailed design, construction	Works on waterways Through detailed design and construction, design, locate and construct structures to minimise, to the extent practicable, short and long term impacts on riparian, riverbed and aquatic habitat in Kororoit Creek, Stony Creek, Maribyrnong River and Moonee Ponds Creek.	Works on waterways Through detailed design and construction, design, locate and construct structures to minimise, to the extent practicable, short and long term impacts on riparian, riverbed and aquatic habitat in Kororoit Creek, Stony Creek, Maribyrnong River and Moonee Ponds Creek, <u>in</u> <u>consultation with Melbourne Water and relevant authorities</u> .	IAC recommendation supported.	Works on Through de structures impacts on Stony Cree consultatio
EP6	Detailed design, pre- construction, construction	Landscaping PlanPrepare and implement the Landscaping Plan that includes replacement of affected planted vegetation to achieve a canopy of equal (or greater) size of healthy, mature examples of the species. The plan must ensure the reinstatement of soils is of sufficient quality and volumes to support the long-term viability of replacement plantings. The plan must achieve a minimum tree replacement ratio of 3:1.The plan must be developed in consultation with the relevant council and Melbourne Water (where appropriate) with regard to local policies, strategies and relevant existing vegetation enhancement initiatives including, as applicable:Greening the West Strategic PlanCity of Maribyrnong Street Planting StrategyCity of Maribyrnong Footscray River Edge Master PlanCity of Hobsons Bay Donald McLean Reserve Master Plan	Landscaping PlanPrepare and implement the Landscaping Plan that includes replacement of affected planted vegetation to achieve a canopy of equal (or greater) size of healthy, mature examples of the species.The plan must ensure the reinstatement of soils is of sufficient quality and volumes to support the long-term viability of replacement plantings. Ensure ongoing supply of water to tree root zones, especially during their establishment stage. Employ water sensitive urban design principles (WSUD) where possible.The plan must achieve a minimum tree replacement ratio of 3:1 5:1 and replacement trees should be planted in areas determined in consultation with the relevant Councils and authorities. Tree reinstatement and offset planting should take into account the amenity, shade and heritage value of the canopy trees to be removed for local residents. Tree replacement to be undertaken to benefit such residents, rather than offset elsewhere in the Project.The plan must consider the contribution that vegetation and the planted replacement trees can make to the creation of habitat corridors and	Recommend that City West Water is added to list of authorities to be consulted and clauses adopted from SP1.	Landscap Prepare ar replaceme equal (or g The plan m and volum plantings. especially urban desi The plan m replaceme consultatio reinstatem shade and residents. residents.

anagement measures

P must include requirements and methods for:

ging native fauna that may be displaced due to tree removal, npliance with the Wildlife Act 1975 and in consultation with and managers where relevant. The strategy should be red by a qualified wildlife ecologist prior to vegetation ance.

taking pre-clearing surveys and inspections to confirm the e location of native fauna immediately prior to tree removal

ating native fauna from pre-clearance survey areas as priate

ration of a translocation strategy for relocation of any cant fauna species including, where non-listed species are intered; any individuals will be encouraged to leave the ation; and where nests are encountered, they will be ited to a similar tree / habitat in close proximity

ting and actions to follow for management and offsetting ses

urveys and inspections to must be undertaken under the nce of a suitably qualified ecologist, as well as any equent management or offset measures if required

ise Minimising lighting impacts in known fauna habitats

ntal or unanticipated threatened flora and fauna finds to be ed immediately and any clearing works in the vicinity must upped until an evaluation of an appropriate response can be lished.

diate reporting of incidental or unanticipated threatened flora auna finds with any clearing works in the vicinity stopped until aluation and appropriate response can be established.

ys, inspections and management actions must be n by a qualified wildlife ecologist with all necessary ions obtained prior to removal of relevant habitat. All ent actions and any accidental fauna injuries or deaths must id to the IREA.

waterways

letailed design and construction, design, locate and construct to minimise, to the extent practicable, short and long-term n riparian, riverbed and aquatic habitat in Kororoit Creek, ek, Maribyrnong River and Moonee Ponds Creek, in on with Melbourne Water and relevant authorities.

oing Plan

nd implement the Landscaping Plan that includes ent of affected planted vegetation to achieve a canopy of greater) size of healthy, mature examples of the species. nust ensure the reinstatement of soils is of sufficient quality

hes to support the long-term viability of replacement Ensure ongoing supply of water to tree root zones, during their establishment stage. Employ water sensitive ign principles (WSUD) where possible.

nust achieve a minimum tree replacement ratio of 5:1 and ent trees should be planted in areas determined in on with the relevant Councils and authorities. Tree nent and offset planting should take into account the amenity, d heritage value of the canopy trees to be removed for local Tree replacement to be undertaken to benefit such rather than offset elsewhere in the Project.

must specify the locations where installations of advanced indicated to minimise impact of tree removal, in consultation

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		 City of Maribyrnong Yarraville Gardens Conservation Plan City of Melbourne Draft Urban Ecology and Biodiversity Strategy City of Melbourne's Tree Retention and Removal policy, Urban Forest Strategy, and Nature in the City Strategy The relevant City of Melbourne Urban Forest Precinct Plan. The re-establishment of trees must also consider the contribution that the replacement trees can make to the creation of habitat corridors and linkages where practicable. 	linkages.The plan must be reviewed by the IREA and developed in consultationwith the relevant council and Melbourne Water (where appropriate)with regard to local policies, strategies and relevant existing vegetationenhancement initiatives including, as applicable:Greening the West Strategic PlanCity of Maribyrnong Street Planting StrategyCity of Maribyrnong Stony Creek Directions PlanCity of Maribyrnong Footscray River Edge Master PlanCity of Hobsons Bay Donald McLean Reserve Master PlanCity of Maribyrnong Yarraville Gardens Conservation PlanCity of Melbourne Draft Urban Ecology and Biodiversity StrategyCity of Melbourne's Tree Retention and Removal policy, Urban Forest Strategy, and Nature in the City StrategyThe relevant City of Melbourne Urban Forest Precinct Plan.The relevant City of Melbourne Urban Forest Precinct Plan.Images where practicable.		with releva The plan r replaceme linkages. The plan r replaceme linkages. The plan r with the re (where ap relevant e applicable Greer City o City o
EP7	Construction	Vegetation Offsets Native vegetation offsets must be provided in accordance with the Permitted Clearing of Native Vegetation – Biodiversity Assessment Guidelines (Department of Environment and Primary Industries, September 2013), except as otherwise agreed by the Secretary to the Department of Environment, Land Water and Planning.	EPR supported.	Version 6 EPR supported.	Vegetatio Native veg Permitted Guidelines Septembe Departme
		Greenhouse gas			
GGP1	Detailed design	Greenhouse gas emissions Integrate sustainable design practices into the design process to minimise, to the extent practicable, greenhouse gas emissions arising from construction, operations and maintenance of the West Gate Tunnel Project. Include mandatory actions under the Protocol for Environmental Management (Greenhouse Gas Emissions and Energy Efficiency in Industry) for selection of best practice energy usage for the Tunnel ventilation and lighting systems.	EPR supported.	Version 6 EPR supported.	Greenhou Integrate s minimise, from cons Tunnel Pre Environme Efficiency the tunnel
GGP2	Detailed design, construction	Emissions reduction In detailed design, consider the selection of materials and monitor energy and carbon during construction, to target reductions for GHG emission impacts of materials and energy consumption in accordance with Mat-1 (Level 2) and Ene-1 (Level 2) credits of the Infrastructure Sustainability (IS) rating tool (v1.2). Investigate opportunities to use green power sourced from renewable energy and bio diesel where practicable.	Emissions reduction In detailed design, consider the selection of materials and monitor energy and carbon during construction, to target reductions for GHG emission impacts of materials and energy consumption in accordance with Mat-1 (Level 2) and Ene-1 (Level 2) credits of the Infrastructure Sustainability (IS) rating tool (v1.2). Investigate opportunities to use green power sourced from renewable energy and bio diesel where practicable. Target Ene-1 (Level 2.7) credits of the Infrastructure Sustainability (IS) rating tool (v1.2), above the minimum Project requirement of Level 2.	IAC recommendation supported.	Emission In detailec energy an emission i with Mat-1 Sustainab green pow practicable Target En rating tool

ant local council.

must identify locations for planting prior to construction works asible to do so.

must consider the contribution that vegetation and the planted ent trees can make to the creation of habitat corridors and

must be reviewed by the IREA and developed in consultation elevant council, <u>City West Water</u> and Melbourne Water propriate) with regard to local policies, strategies and existing vegetation enhancement initiatives including, as e:

ning the West Strategic Plan

f Maribyrnong Street Planting Strategy

f Maribyrnong Stony Creek Directions Plan

f Maribyrnong Footscray River Edge Master Plan

f Hobsons Bay Donald McLean Reserve Master Plan

f Maribyrnong Yarraville Gardens Conservation Plan

f Melbourne Draft Urban Ecology and Biodiversity Strategy

f Melbourne's Tree Retention and Removal policy, Urban t Strategy, and Nature in the City Strategy

elevant City of Melbourne Urban Forest Precinct Plan.

andscape Plan

on Offsets

getation offsets must be provided in accordance with the I Clearing of Native Vegetation – Biodiversity Assessment is (Department of Environment and Primary Industries, er 2013), except as otherwise agreed by the Secretary to the ent of Environment, Land Water and Planning.

use gas emissions

sustainable design practices into the design process to to the extent practicable, greenhouse gas emissions arising struction, operations and maintenance of the West Gate roject. Include mandatory actions under the Protocol for ental Management (Greenhouse Gas Emissions and Energy in Industry) for selection of best practice energy usage for I ventilation and lighting systems.

s reduction

d design, consider the selection of materials and monitor nd carbon during construction, to target reductions for GHG impacts of materials and energy consumption in accordance 1 (Level 2) and Ene-1 (Level 2) credits of the Infrastructure bility (IS) rating tool (v1.2). Investigate opportunities to use wer sourced from renewable energy and bio diesel where e.

ne-1 (Level 2.7) credits of the Infrastructure Sustainability (IS) I (v1.2), above the minimum Project requirement of Level 2.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm	
		Ground movement and land stability				
GMP1	Pre- construction, construction	Geotechnical model and assessment Prepare a geotechnical model of representative geological and groundwater conditions prior to excavation and tunnelling in subject area(s) to identify geological structures and groundwater features. This model must include details of proposed excavations and tunnels, construction staging, and identify surface (including road and rail infrastructure) and sub-surface structures and infrastructure (including utilities) which could be impacted by the Project, including the specific attributes of those structures. This model must be used to assess the predicted settlement, ground movement, stress redistribution and horizontal strain profiles caused by excavation and tunnelling on adjacent property and infrastructure. Maintain the predictive model throughout the construction period and review against monitoring data (EPR GMP5), to regularly assess potential ground movement impacts.	EPR supported.	Version 6 EPR supported.	Geotechr Prepare a groundwa area(s) to model mu constructi infrastruct utilities) w attributes predicted horizontal adjacent p Maintain t review ag potential g	
GMP2	Detailed design, construction	Tunnel and portal drainage Through detailed design and construction, design tunnel and portal drainage and adopt construction methods which minimise adverse changes to groundwater levels during construction and operation to prevent or manage the effects of ground subsidence. In addition to the above, for the northern and southern portal areas design and implement engineering control measures to ensure dewatering does not result in adverse ground movement impact on property or infrastructure.	EPR supported.	Version 6 EPR supported.	Tunnel au Through of drainage a changes t prevent of In additior design an dewaterin property of	
GMP3	Pre- construction, construction, operation	Condition surveys and determination of settlement criteria for property and infrastructure Before works commence, and subject to receiving landowner consent on suitable terms, undertake condition surveys of property and infrastructure identified in the geotechnical model and assessment (EPR GMP1) as being at risk of damage by a suitably qualified professional. Post-construction condition surveys of those properties and infrastructure must be undertaken after construction of the Project is completed. The results of the condition surveys and the modelling undertaken under GMP1 must be used to determine appropriate settlement criteria for the relevant property and infrastructure. Where potential for ground movement impacts could occur, consult with affected stakeholders. Any damage caused to property or infrastructure as a result of the Project must be rectified or the landowner or asset owner compensated. Establish an independent mediation process for the assessment of claims for property and infrastructure damage to operate up to three years post opening of the Freeway.	Condition surveys and determination of settlement criteria for property and infrastructure Before works commence, and subject to receiving landowner consent on suitable terms, undertake condition surveys of property and infrastructure identified in the geotechnical model and assessment (EPR GMP1) as being at risk of damage by a suitably qualified professional. Post-construction condition surveys of those properties and infrastructure must be undertaken after construction of the Project is completed. The results of the condition surveys and the modelling undertaken under GMP1 must be used to determine appropriate settlement criteria for the relevant property and infrastructure. Where potential for ground movement impacts could occur, consult with affected stakeholders. Any damage caused to property or infrastructure as a result of the Project must be rectified or the landowner or asset owner compensated. Establish an independent mediation process for the assessment of claims for property and infrastructure damage to operate up to three years post opening of the Freeway.	 Recommend that EPR is amended to include provision for: Extent of precondition surveys expanded sharing results of condition surveys with the property owners consultation with stakeholders undertaken in accordance with the project's CCEP. 	Condition property a Before wo on suitable infrastruct (EPR GMI qualified p ground or project acc may be af surveys of construction The result under GM for the relat forwarded undertake Where po with affect infrastruct landowne Establish claims for years pos Ensure al accordance	
GMP4	Pre- construction	Settlement criteria for utilities Settlement criteria for individual utility structures and infrastructure must be determined in consultation with the relevant authorities prior to commencement of any construction potentially affecting the individual utility or infrastructure.	EPR supported.	Version 6 EPR supported.	Settlemen Settlemen must be d commenc utility or in	
GMP5	Pre- construction,	Ground movement monitoring	Ground movement monitoring	Recommend that the EPR is amended to	Ground r	

ical model and assessment

a geotechnical model of representative geological and ther conditions prior to excavation and tunnelling in subject identify geological structures and groundwater features. This ist include details of proposed excavations and tunnels, on staging, and identify surface (including road and rail ture) and sub-surface structures and infrastructure (including which could be impacted by the Project, including the specific of those structures. This model must be used to assess the settlement, ground movement, stress redistribution and I strain profiles caused by excavation and tunnelling on property and infrastructure.

he predictive model throughout the construction period and ainst monitoring data (EPR GMP5), to regularly assess ground movement impacts.

nd portal drainage

detailed design and construction, design tunnel and portal and adopt construction methods which minimise adverse o groundwater levels during construction and operation to r manage the effects of ground subsidence.

n to the above, for the northern and southern portal areas d implement engineering control measures to ensure g does not result in adverse ground movement impact on or infrastructure.

n surveys and determination of settlement criteria for and infrastructure

orks commence, and subject to receiving landowner consent e terms, undertake condition surveys of property and ture identified in the geotechnical model and assessment P1) as being at risk of damage by an suitably independent professional. Condition surveys are to include property, land, infrastructure reasonably accessible and within 50 metres of trivities or other property, land, ground or infrastructure that ffected by project activities. Post-construction condition f those properties and infrastructure must be undertaken after on of the Project is completed.

ts of the condition surveys and the modelling undertaken IP1 must be used to determine appropriate settlement criteria evant property and infrastructure. <u>Condition surveys must be</u> <u>I to the property owner within four weeks of the survey being</u> en.

tential for ground movement impacts could occur, consult ted stakeholders. Any damage caused to property or sure as a result of the Project must be rectified or the r or asset owner compensated.

an independent mediation process for the assessment of property and infrastructure damage to operate up to three t opening of the Freeway Project.

I stakeholder engagement activities are undertaken in ce with the project's Communications and Community ent Plan (SP2).

nt criteria for utilities

nt criteria for individual utility structures and infrastructure determined in consultation with the relevant authorities prior to cement of any construction potentially affecting the individual infrastructure.

novement monitoring

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
	construction, operation	Develop and implement a pre-construction, construction and post- construction program to monitor subsidence and lateral movement during construction activities and during operation.	Develop and implement a pre-construction, construction and post- construction program to monitor subsidence and lateral movement during construction activities and during operation.	include provision for monitoring of water table and soil moisture	Develop a constructio during con
		Implement a baseline ground movement monitoring plan prior to commencement of construction, in locations where construction activities with the potential to cause ground movement will occur, to assess background fluctuations.	Implement a baseline ground movement monitoring plan prior to commencement of construction, in locations where construction activities with the potential to cause ground movement will occur, to assess background fluctuations.	interactions in potentially sensitive areas.	Implement provision f prior to co activities v assess ba
GMP6	Construction, operation	Mitigation of ground movement impact Implement appropriate mitigation measures should the geotechnical model (EPR GMP1), predictive groundwater model (EPR GWP4), or subsequent monitoring program identify exceedances of criteria identified in EPR GMP3 and EPR GMP4.	EPR supported.	Version 6 EPR supported.	Mitigation Implement model (EP subsequer identified i
		Groundwater			
GWP1	Pre- construction, construction operation	 Groundwater management measures Prepare and implement a CEMP and an OEMP including a submanagement plan which sets out the measures for management, monitoring, reuse and disposal of groundwater inflows during construction and operation that comply with relevant legislation and guidelines, including but not limited to: State Environment Protection Policy Groundwaters of Victoria 1997 (Vic) State Environment Protection Policy Waters of Victoria 2003 (Vic) State Environment Protection Policy Prevention and Management of Contaminated Land 2002 (Vic) Water Industry Regulations 2006 (Vic). The groundwater sub-management plan must include details of: Hydrogeological conceptual model Baseline conditions Beneficial uses Monitoring plan Management, mitigation and performance measures Disposal of groundwater Triggers for action Reporting. 	 Groundwater management measures Prepare and implement a CEMP and an OEMP including a submanagement plan which sets out the measures for management, monitoring, reuse and disposal of groundwater inflows during construction and operation that comply with relevant legislation and guidelines, including but not limited to: State Environment Protection Policy Groundwaters of Victoria 1997 (Vic) State Environment Protection Policy Waters of Victoria 2003 (Vic) State Environment Protection Policy Prevention and Management of Contaminated Land 2002 (Vic) Water Industry Regulations 2006 (Vic). The groundwater sub-management plan, developed in consultation with EPA Victoria, must include details of: Hydrogeological conceptual model Baseline conditions Beneficial uses Monitoring plan Management, mitigation and performance measures Disposal of groundwater Triggers for action Reporting. 	IAC recommendation supported.	Groundwa Prepare an manageme monitoring constructio guidelines • State 1997 (• State of Cor • Water The groun with EPA V • Hydro • Baseli • Monito • Manag • Dispos • Trigge
GWP2	Construction	 Protection of groundwater quality The CEMP must include requirements and construction methods that maintain groundwater quality, for example: Use sealing products, caulking products, lubricating products and chemical grouts applied during tunnelling construction that do not diminish the groundwater quality Use fluids for artificial recharge activities that do not diminish the groundwater quality Ensure compatibility of construction material with groundwater quality to provide long term durability for infrastructure design life Develop drainage infrastructure that provides for the propensity of dissolved constituents in groundwater to precipitate out of solution and create clogging and maintenance risks Develop a plan to assess, remove and dispose of contaminated groundwater and impacted soils associated with pile and pile cap excavation and construction. 	EPR supported.	Version 6 EPR supported.	 Protection The CEMF maintain g Use such cheminical diminical Use flug ground Ensur- quality Develop and cr Develop a groundwate Ensur- and cr
	design, pre-	Design long term tunnel drainage and adopt construction methods		supported.	Design lor

nd implement a pre-construction, construction and poston program to monitor subsidence and lateral movement astruction activities and during operation.

t a baseline ground movement monitoring plan, including for monitoring of water table and soil moisture interactions, mmencement of construction, in locations where construction vith the potential to cause ground movement will occur, to ckground fluctuations.

n of ground movement impact

t appropriate mitigation measures should the geotechnical PR GMP1), predictive groundwater model (EPR GWP4), or nt monitoring program identify exceedances of criteria in EPR GMP3 and EPR GMP4.

ater management measures

Ind implement a CEMP and an OEMP including a subtent plan which sets out the measures for management, g, reuse and disposal of groundwater inflows during on and operation that comply with relevant legislation and s, including but not limited to:

- Environment Protection Policy Groundwaters of Victoria (Vic)
- Environment Protection Policy Waters of Victoria 2003 (Vic)
- Environment Protection Policy Prevention and Management ntaminated Land 2002 (Vic)
- Industry Regulations 2006 (Vic).
- ndwater sub-management plan, developed in consultation Victoria, must include details of:
- geological conceptual model
- ine conditions
- icial uses
- oring plan
- gement, mitigation and performance measures
- sal of groundwater
- ers for action
- ting.

n of groundwater quality

[•] must include requirements and construction methods that proundwater quality, for example:

ealing products, caulking products, lubricating products and ical grouts applied during tunnelling construction that do not ish the groundwater quality

uids for artificial recharge activities that do not diminish the dwater quality

e compatibility of construction material with groundwater y to provide long term durability for infrastructure design life

op drainage infrastructure that provides for the propensity of ved constituents in groundwater to precipitate out of solution reate clogging and maintenance risks

plan to assess, remove and dispose of contaminated ter and impacted soils associated with pile and pile cap n and construction.

ainage design and construction methods ng term tunnel drainage and adopt construction methods

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
	construction,	which minimise changes to groundwater levels during construction and			which min
	concuración de la concerna de	Mobilisation of contaminated groundwater			Mobil
		Dewatering and potential impacts of acid sulphate soils including			Dewa
		both unconsolidated sediments and lithified sedimentary rock			both u
		Protection of waterways and potential groundwater dependent			Prote
		ecosystems, including terrestrial ecosystems			ecosy
		Avoid any other adverse impacts of groundwater level changes such as subsidence.			 Avoid such
		Design contingency measures and/or controls as required to:			Design co
		 Ensure maintenance of the base flow associated with a reduction or loss of groundwater discharge to Stony Creek or loss of water availability for terrestrial ecosystems. 			Ensur or los availa
		 Limit acidification should monitoring indicate a potential adverse impact to water levels or quality. 			Limit impact
		Design contingency measures and/or controls as required should movement of contamination be identified. Contingency measures to include consideration of:			Design co movemen include co
		Improvements to barrier system and ground treatments at the portal to reduce inflows and drawdowns			Impro portal
		Hydraulic control of the movement of the contaminated groundwater.			 Hydra groun
		Implement engineering control measures and/or ground treatment to minimise to the extent practicable groundwater inflow during excavation, construction and operation of tunnels, cross passages and subsurface excavations.			Implemen minimise excavation subsurfac
		Implement measures to limit groundwater inflow during construction to excavations and drawdown should monitoring indicate acidification is occurring.			Implemen excavation occurring.
		Develop and implement a plan to mitigate and manage potential future displacement of contaminated groundwater in the vicinity of the NYM sewer, in accordance with State Environment Protection Policy Groundwaters of Victoria 1997(Vic) and State Environment Protection Policy Prevention and Management of Contaminated Land 2002(Vic), including:			Develop a displacem sewer, in a Groundwa Policy Pre including:
		• Investigate the properties identified as potentially contaminated and likely to be influenced by the changed groundwater conditions			 Invest and li
		 Assess the influence of changed conditions on potentially contaminated groundwater at these properties 			Asses conta
		• Assess the risk posed to human health and the environment, including the potential for vapour intrusion to indoor air of buildings			Asses incluc
		Develop contingency measures to control any adverse risks			Devel
GWP4	Pre-	Predictive groundwater model	EPR supported.	Version 6 EPR	Predictiv
	construction, construction	Develop and maintain a predictive groundwater model throughout the construction period to assess the potential impacts of dewatering during construction and develop potential contingency measures.		supported.	Develop a construction during cor
GWP5	Pre-	Groundwater monitoring	EPR supported.	Version 6 FPR	Groundw
	construction, construction, operation	Develop and implement a pre-construction, construction and post- construction groundwater monitoring program to calibrate the predictive model prior to commencement of construction and verify the model predictions post-construction, manage construction activities and monitor during operation that as a minimum:		supported.	Develop a construction predictive model pre and monit
		• Establishes a baseline condition for groundwater (quality, level, flow and GDE health) prior to the commencement of construction			Estab flow a
		 Can be used to identify (and manage) changes to groundwater (quality, level, flow and GDE health) during construction and operation activities. 			Can b (quali opera

- imise changes to groundwater levels during construction and to manage, mitigate and minimise:
- isation of contaminated groundwater
- atering and potential impacts of acid sulphate soils, including unconsolidated sediments and lithified sedimentary rock ction of waterways and potential groundwater dependent ystems (GDE), including terrestrial ecosystems
- any other adverse impacts of groundwater level changes as subsidence.
- ntingency measures and/or controls as required to:
- re maintenance of the base flow associated with a reduction as of groundwater discharge to Stony Creek or loss of water ability for terrestrial ecosystems.
- acidification should monitoring indicate a potential adverse ct to water levels or quality.
- ntingency measures and/or controls as required should t of contamination be identified. Contingency measures to onsideration of:
- vements to barrier system and ground treatments at the to reduce inflows and drawdowns
- aulic control of the movement of the contaminated ndwater.
- at engineering control measures and/or ground treatment to to the extent practicable groundwater inflow during n, construction and operation of tunnels, cross passages and the excavations.
- t measures to limit groundwater inflow during construction to ns and drawdown should monitoring indicate acidification is
- and implement a plan to mitigate and manage potential future nent of contaminated groundwater in the vicinity of the NYM accordance with State Environment Protection Policy aters of Victoria 1997 (Vic) and State Environment Protection evention and Management of Contaminated Land 2002 (Vic),
- tigate the properties identified as potentially contaminated kely to be influenced by the changed groundwater conditions ss the influence of changed conditions on potentially minated groundwater at these properties
- ss the risk posed to human health and the environment, ling the potential for vapour intrusion to indoor air of buildings
- lop contingency measures to control any adverse risks.

e groundwater model

and maintain a predictive groundwater model throughout the on period to assess the potential impacts of dewatering nstruction and develop potential contingency measures.

ater monitoring

- and implement a pre-construction, construction and poston groundwater monitoring program to calibrate the model prior to commencement of construction and verify the edictions post-construction, manage construction activities for during operation that as a minimum:
- lishes a baseline condition for groundwater (quality, level, and GDE health) prior to the commencement of construction
- be used to identify (and manage) changes to groundwater ty, level, flow and GDE health) during construction and ition activities.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		 Can be used to assess (and manage) the impact of construction on: Groundwater beneficial uses (or users of surface water, groundwater and land) Areas considered a high contamination risk Groundwater Dependant Ecosystems (e.g. Stony Creek, Yarraville Gardens) North Yarra Main Sewer Acid Sulphate Soils Compressible materials Portal, tunnel, and cross passage construction Can be used to determine the requirement for intervention, and assess the effectiveness of mitigation measures proposed or implemented to protect groundwater Can be used to calibrate and verify a predictive numerical model developed as part of the Project Groundwater sampling undertaken consistent with EPA Victoria Publications 668 (2006) Hydrogeological Assessment (Groundwater Quality) Guidelines and 669 (2000) Groundwater Sampling Guidelines. 			 Can b on: G G G A C A C Can b asses imple Can b devel Groundwa Publicatic Quality) C
GWP6	Construction	 Interception of groundwater The CEMP must include requirements and methods for management of groundwater interception during construction, including: Identification, treatment, disposal and handling of contaminated seepage water and/or slurries including vapours in accordance with relevant legislation and guidelines Assessment of barrier/damming effects Subsidence management Dewatering and potential impacts on acid sulphate soils, including both unconsolidated sediments and lithified sedimentary rock Protection of waterways and potential groundwater dependent ecosystems including Yarraville Gardens Contingency actions when interventions are required. 	EPR supported.	Version 6 EPR supported.	Intercept The CEM of ground Identi seep with r Asse Subs Dewa both Prote ecosy Conti
GWP7	Pre- construction, construction	Impacts on groundwater users Conduct a review and confirm the status of potential use of extraction bores within the estimated construction drawdown area. Develop and implement if required a plan to maintain water supply to identified groundwater users.	EPR supported.	Version 6 EPR supported.	Impacts of Conduct a bores with implemen groundwa
		Land use and planning			
LPP1	Detailed design	 Minimise design footprint Through detailed design, minimise the permanent footprint of the Project to the extent practicable to reduce adverse impacts on potentially affected land uses, particularly: Parks Reserves/ gardens Recreational and community facilities Residential properties in proximity to the construction area Commercial and industrial sites. 	Minimise design footprint Through detailed design, minimise the permanent footprint of the Project to the extent practicable to reduce adverse impacts on potentially affected land uses in consultation with the relevant local Council, particularly: Parks Reserves/ gardens Waterways Recreational and community facilities Residential properties in proximity to the construction area Commercial and industrial sites.	IAC recommendation supported.	Minimise Through of Project to potentially Council, p • Parks • Reset • Water • Resid • Resid • Comr
LPP2	Detailed design, construction	Recreation facilities Through detailed design and construction, minimise to the extent practicable any impacts on users of recreational facilities including	Recreation facilities Through detailed design and construction, minimise to the extent practicable any impacts on users of recreational facilities including	IAC recommendation supported with minor amendment to correctly	Recreation

- be used to assess (and manage) the impact of construction
- Froundwater beneficial uses (or users of surface water, roundwater and land)
- reas considered a high contamination risk
- Groundwater Dependant Ecosystems (e.g. Stony Creek, 'arraville Gardens)
- Jorth Yarra Main Sewer
- cid Sulphate Soils
- compressible materials
- Portal, tunnel, and cross passage construction
- be used to determine the requirement for intervention, and ss the effectiveness of mitigation measures proposed or emented to protect groundwater
- be used to calibrate and verify a predictive numerical model oped as part of the Project
- ater sampling undertaken consistent with EPA Victoria ns 668 (2006) Hydrogeological Assessment (Groundwater Guidelines and 669 (2000) Groundwater Sampling Guidelines.

ion of groundwater

- P must include requirements and methods for management water interception during construction, including:
- ification, treatment, disposal and handling of contaminated age water and/or slurries including vapours in accordance elevant legislation and guidelines
- ssment of barrier/damming effects
- dence management
- tering and potential impacts on acid sulphate soils, including unconsolidated sediments and lithified sedimentary rock
- ction of waterways and potential groundwater dependent /stems including Yarraville Gardens
- ngency actions when interventions are required.

on groundwater users

a review and confirm the status of potential use of extraction nin the estimated construction drawdown area. Develop and t if required a plan to maintain water supply to identified ter users.

design footprint

- detailed design, minimise the permanent footprint of the the extent practicable to reduce adverse impacts on affected land uses in consultation with the relevant local particularly:
- rves/ gardens
- rways
- eational and community facilities
- lential properties in proximity to the construction area
- nercial and industrial sites.

on facilities

letailed design and construction, minimise to the extent e any impacts on users of recreational facilities including

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme	
		Westgate Public Golf Course, Crofts Reserve, Hyde Street Reserve, Donald McLean Reserve, Moonee Ponds Creek (Capital City Trail), Railway Place and Miller Street Reserve, and McIvor Reserve. Access to, and amenity and function of recreation facilities is to be maintained to the extent practicable in consultation with the land manager.	Westgate Public Golf Course, Crofts Reserve, Hyde Street Reserve, Donald McLean Reserve, Moonee Ponds Creek (Capital City Trail), Railway Place, <u>Yarraville Gardens</u> , and Miller Street Reserve, and McIvor Reserve. Access to, and amenity and function of recreation facilities is to be maintained to the extent practicable in consultation with the land manager.	identify reserves.	Westgate Donald Mo Railway P <u>Yarraville</u> function of practicable	
LPP3	Detailed design	 Future development opportunities Do not preclude the possibility of a future road connection between Precinct 15 (Hobsons Bay Council) and Bradmill Precinct (Maribyrnong Council). Manage, to the extent practicable, the impacts on the Railway Place and Miller Street Reserve Concept Plan in consultation with City of Melbourne. Manage, to the extent practicable, the impacts on future built form of 48–54 Digital Drive, Digital Harbour in consultation with the landowner/developer. 	Future development opportunities Do not preclude the possibility of a future road connection between Precinct 15 (Hobsons Bay Council) and Bradmill Precinct (Maribyrnong Council). Manage, to the extent practicable, the impacts on the Railway Place and Miller Street Reserve Concept Plan in consultation with City of Melbourne. In consultation with the relevant Council and authorities, minimise to the extent practicable, the impacts on urban renewal areas, identified in relevant planning schemes, and proposed open space areas. Manage, to the extent practicable, the impacts on future built form of 48–54 Digital Drive, Digital Harbour in consultation with the landowner/developer.	IAC recommendation supported.	Future de Do not pre Precinct 14 (Maribyrno Manage, tu Miller Stre Melbourne In consulta the extent in relevant Manage, tu 48–54 Dig landowner	
LPP4	Detailed design	 Pedestrian connections Do not preclude the possibility of future pedestrian connections between: North and West Melbourne, E-Gate and Docklands to Moonee Ponds Creek (the Moonee Ponds Creek Trail / Capital City Trail) Digital Harbour and West Melbourne by upgrading pedestrian crossings at the intersection of Wurundjeri Way and Dudley Street. 	 Pedestrian and bicycle connections Actively facilitate the possibility of a high amenity, accessible and convenient Do not preclude the of future pedestrian and bicycle connections between: North and West Melbourne, E-Gate and Docklands to Moonee Ponds Creek (the Moonee Ponds Creek Trail / Capital City Trail) Digital Harbour and West Melbourne by upgrading pedestrian crossings at the intersection of Wurundjeri Way and Dudley Street. 	Recommend use of the term 'do not preclude' as the re-designed Wurundjeri Way extension actively facilitates the connection.	Pedestria Actively fa convenien and conve • North Ponds • Digita crossi	
LPP5	Detailed design, construction	Public Land Through detailed design and construction reduce the disruption to the extent practicable, to current uses of public and council land resulting from temporary occupation.	Public Land Through detailed design and construction reduce the disruption to the extent practicable, to current uses of public and council land resulting from temporary occupation.	Recommend that EPR include reinstatement at completion.	Public La Through d extent pra- from temp temporary	
		Landscape and visual				
LVP1	Detailed design <u>,</u> <u>construction</u>	 Urban design approach Detailed design development must respond to the West Gate Tunnel Project urban design principles and vision. In doing so it must minimise, to the extent practicable, landscape and visual impacts, and maximise opportunities for enhancement of public amenity, open space and facilities, resulting from the Project, in consultation with relevant stakeholders, particularly in relation to: Heritage values and assets Bridges and structures Existing roads, streets, cycle paths, trails and footpaths Existing landmark natural and urban elements across the Project, including CityLink Open space including, Yarraville Gardens, Hyde Street Reserve, Donald McLean Reserve, Railway and Millers Street Reserve Community and recreational assets including the, Yarraville Community Centre, Yarraville Gardens, Westgate Golf Club, Spotswood Cricket/ Football Oval, W.L.J. Crofts Reserve, shared paths along Kororoit Creek, Maribyrnong River, Stony Creek, and Moonee Ponds Creek, various bowls and tennis clubs in the vicinity of the Project Residential interfaces Business interfaces. 	 Urban design approach Detailed design development must respond to the West Gate Tunnel Project urban design principles and vision. In doing so it must minimise, to the extent practicable, landscape and visual impacts, and maximise opportunities for enhancement of public amenity, open space and facilities, resulting from the Project, in consultation with relevant stakeholders, particularly in relation to: Heritage values and assets Bridges and structures Existing roads, streets, cycle paths, trails and footpaths Existing landmark natural and urban elements across the Project, including CityLink Significant views from the public domain Existing vegetation including street trees and vegetation along waterways Open space including, Yarraville Gardens, Hyde Street Reserve, Donald McLean Reserve, Railway and Millers Street Reserve, and along Maribyrnong River and Moonee Ponds Creek Community and recreational assets including the, Yarraville Community Centre, Yarraville Gardens, Westgate Golf Club, Spotswood Cricket/ Football Oval, W.L.J. Crofts Reserve, shared paths along Kororoit Creek, Maribyrnong River, Stony Creek, and Moonee Ponds Creek, various bowls and tennis clubs in the vicinity of the Project 	IAC recommendations adopted with minor amendments to emphasise that the design must respond to the design principles and vision for existing and proposed project aspects, and that overshadowing be minimised given that noise wall height will be refined to provide noise attenuation during detailed design.	Urban des Detailed d Project urb The design practicable for enhance from the P in relation • Landm • Herita • Bridge • Existin footpa • Existin across • Signifi • Existin vegeta • Open Donal Reser and p	

Public Golf Course, Crofts Reserve, Hyde Street Reserve, cLean Reserve, Moonee Ponds Creek (Capital City Trail), lace,<u>Yarraville Gardens</u>, and Miller Street Reserve, <u>Gardens</u>, and McIvor Reserve. Access to, and amenity and f recreation facilities is to be maintained to the extent e in consultation with the land manager.

evelopment opportunities

eclude the possibility of a future road connection between 5 (Hobsons Bay <u>City</u> Council) and Bradmill Precinct ong <u>City</u> Council).

to the extent practicable, the impacts on Railway Place and eet Reserve Concept Plan in consultation with City of e.

ation with the relevant Council and authorities, minimise to practicable, the impacts on urban renewal areas, identified t planning schemes, and proposed open space areas.

o the extent practicable, the impacts on future built form of ital Drive, Digital Harbour in consultation with the /developer.

in and bicycle connections

cilitate the possibility of high amenity, accessible and t <u>Do not preclude</u> the possibility of high amenity, accessible enient future pedestrian and bicycle connections between:

and West Melbourne, E-Gate and Docklands to Moonee s Creek (the Moonee Ponds Creek Trail/Capital City Trail)

I Harbour and West Melbourne by upgrading pedestrian ngs at the intersection of Wurundjeri Way and Dudley Street.

nd

detailed design and construction reduce the disruption to the acticable, to current uses of public and council land resulting porary occupation. Reinstate public land upon completion of a occupation as per LVP2.

sign approach

lesign development must respond to the West Gate Tunnel ban design principles and vision.

n response In doing so it must minimise, to the extent e, landscape and visual impacts, and maximise opportunities cement of public amenity, open space and facilities, resulting Project, in consultation with relevant stakeholders, particularly to:

nark elements

age values and assets

es and structures

ng <u>and proposed</u> roads, streets, cycle paths, trails and ths

ng <u>and proposed</u> landmark natural and urban elements s the Project, including CityLink

icant views from the public domain

ng <u>and proposed</u> vegetation including street trees and ation along waterways

space including, Yarraville Gardens, Hyde Street Reserve, Id McLean Reserve, Railway <u>Place</u> and Millers Street rve, and along Maribyrnong River and Moonee Ponds Creek roponent-proposed new open spaces

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
			 Residential interfaces Business interfaces Crime Prevention Through Environmental Design, including effects on safe movements of pedestrians and cyclists; including within undercroft and open spaces areas Detailed design to ensure landmark elements balance visual impact with minimal overshadowing Detailed design to ensure there is no further overshadowing of residential properties to the south of the freeway as a result of the proposed noise walls. Design of acoustic sheds, used during construction, to contribute to the image and identity of the area. 		 Comr Comr Spots paths Moon vicinit Resid Busin Crime on sa under Detail reside water overs as a r Desig have
LVP2	Detailed design, construction	Reinstatement following temporary worksAvoid direct impacts on the Yarraville Gardens unless agreed by the City of Maribyrnong.Reinstate public open spaces, vegetation cover and facilities disturbed by temporary works to the reasonable satisfaction of the land manager.	EPR supported.	Version 6 EPR supported.	Reinstate Avoid dire City of Ma Reinstate by tempor
LVP3	Detailed design, construction	Light spillage Detailed design of the works must minimise light spillage to protect the amenity of adjacent land uses and any known significant native fauna habitat to the extent practicable. The CEMP must include requirements and methods to minimise light spillage, to the extent practicable, during construction to protect the amenity of adjacent surrounding neighbourhoods, parks and community facilities including urban environments, in consultation with relevant stakeholders.	EPR supported.	Version 6 EPR supported.	Light spil Detailed d amenity o habitat to The CEMI spillage, to amenity o communit relevant s
LVP4	Construction	Vegetation screening As part of the Landscaping Plan (refer EPR EP6), implement vegetation screening for visually impacted public realm areas, community spaces, including residential areas and public open spaces. The plan must include measures to ensure vegetation screening is used where practicable if Project infrastructure would be visible from residential areas and public open spaces.	Vegetation screening As part of the Landscaping Plan (refer EPR EP6), implement vegetation screening for visually impacted public realm areas, community spaces, including residential areas, and public open spaces and the Altona Memorial Park. The plan must <u>be prepared in</u> <u>consultation with the relevant Councils and</u> include measures to ensure vegetation screening is used where practicable if Project infrastructure would be visible from residential areas and public open spaces.	Recommend minor amendment to remove repetition.	Vegetation As part of screening communit Memorial relevant C screening visible from
LVP5	<u>Detailed</u> <u>design</u>		Design review OVGA to review existing and future plans, having consideration to the relevant EPRs.	IAC recommendation supported with OVGA reviews to further reference to the West Gate Tunnel Project urban design principles and vision.	Design re WDA mus the releva

munity and recreational assets including the, Yarraville munity Centre, Yarraville Gardens, Westgate Golf Club, swood Cricket/Football Oval, W.L.J. Crofts Reserve, shared s along Kororoit Creek, Maribyrnong River, Stony Creek, and nee Ponds Creek, various bowls and tennis clubs in the ity of the Project

dential interfaces

ness interfaces

e Prevention Through Environmental Design, including effects afe movements of pedestrians and cyclists; including within ercroft and open spaces areas

iled design to <u>minimise overshadowing by noise walls of</u> ential properties, community facilities, open spaces, rways and valuable natural habitats ensure there is no further shadowing of residential properties to the south of the freeway result of the proposed noise walls.

gn of acoustic sheds, used during construction, to contribute regard to the image and identity <u>character</u> of the area.

ement following temporary works

ect impacts on the Yarraville Gardens unless agreed by the aribyrnong.

e public open spaces, vegetation cover and facilities disturbed orary works to the reasonable satisfaction of the land manager.

llage

design of the works must minimise light spillage to protect the of adjacent land uses and any known significant native fauna the extent practicable.

IP must include requirements and methods to minimise light to the extent practicable, during construction to protect the of adjacent surrounding neighbourhoods, parks and ity facilities including urban environments, in consultation with stakeholders.

on screening

f the Landscaping Plan (refer EP6), implement vegetation g for visually impacted residential areas, public realm areas, ty spaces, including public open spaces and the Altona Park. The plan must be prepared in consultation with the Councils and include measures to ensure vegetation g is used where practicable if Project infrastructure would be m residential areas and public open spaces.

eview

st refer urban design plans to the OVGA for review against ant EPRs and the Project's urban design principles and vision.

No.	Phase	WDA Version 6	WDA Version 6 IAC recommendation	Minister's assessment	Recomm
		Noise and vibration	Noise and vibration		
NVP1A NVP1	Detailed design, construction	Traffic noise limits Design and construct the works to meet the following limits on traffic noise levels.	Traffic noise limits Traffic noise limits Design and construct the works to meet the following limits on traffic noise levels. Design and construct the works to meet the following limits on traffic noise levels.	Recommend adoption of Version 6 EPR for alignment with current VicRoads Traffic Noise	Traffic no Design an noise leve
		Aspect External Traffic Noise Levels	Aspect External Traffic Noise Levels Aspect External Traffic Noise Levels	Reduction Policy.	Aspect
		External traffic noise levelsaExternal traffic noise levels from the freeway* and Local Roads* at Category A Buildings and Category B Buildings' facing the traffic noise, being those adjacent to or with a direct line of sight to the freeway*, must be no greater than: iii 63dB(A) L10(18h) measured between 6am and midnight for Category A Buildings; and iv 63dB(A) L10(12h) measured between 6am and 6pm for Category B Buildings; and bbExternal traffic noise levels from the freeway* and Local Roads* at Category A Buildings and Category B Buildings which do not fall within paragraph (a) above and which are adjacent to an identified section of Local Road*, must be no greater than the predicted traffic noise attributable to the West Gate Freeway (without the project) is: - 63dB(A) L10(18h) measured between 6am and midnight for the relevant Category A Buildings; and - 63dB(A) L10(12h) measured between 6am and 6pm for the relevant Category A Buildings; 	External traffic noise levelsaExternal traffic noise levels from the freeway* and Local Roads* at Category A Buildings facing the traffic noise, being those adjacent to or with a direct line of sight to the freeway*, must be no greater than: iii 63dB(A) Lingthen measured between 6am and % 5dB(A) Lingthen measured between 6am and 6pm for Category B Buildings; and bExternal traffic noise, levels to the freeway*, must be no greater than: iii 63dB(A) Lingthen measured between 6am and Gategory B Buildings; and bExternal traffic noise, levels to the freeway* and Local Roads* at Category A Buildings; and bExternal traffic noise, levels to the freeway* and Local Roads* at Category A Buildings; and iii 63dB(A) Lingthen measured between 6am and Gategory B Buildings; which do not fall within paragraph (a) above and which are adjacent to an must also assume that the road traffic noise antibutable to the West Gate Freeway (without the project) is:External traffic noise adjacent to an difficencies andApplies at The noise criteria in paragraph (a) above and to apply to the lowest habitable level of Category A Buildings; and equivalent internal level of category A and buildings; andExternal traffic noise and midnight for the relevant Category A Buildings; andApplies at * The noise criteria in paragraphs (a) and (b) above are to apply to the lowest habitable level of Category A or Category B Building; train any include implementation of noise attenuation may be requivalent internal level of attenuation with the or or of the relevant category B Buildings to with the proided is noise attenuation with the or or category B Buildings to with the ord of the thereway and to apply to the lowest habitable level of Category A buildings and Category B B	<pre></pre>	External traffic noise levels
		 (from the M80 interchange) with the Port of Melbourne, CityLink and the city to be constructed as a result of the Project and excludes: The sections of the West Gate Freeway east of the Williamstown rail line; and The sections of the Project which comprise widening of arterial roads, but includes: 	 (from the M80 interchange) with the Port of Melbourne, CityLink and the city to be constructed as a result of the Project and excludes: The sections of the West Gate Freeway east of the Williamstown rail line; and The sections of the Project which comprise widening of arterial roads, but includes: The sections of the Project which comprise widening of arterial roads, but includes: 	or h	
		 The Dynon Road eastbound exit ramp and Dynon Road westbound entry ramp to the western abutment of the existing Dynon Road bridge over the railway lines; and The Wurundjeri Way Extension from Dynon Road to the point a which the elevated section of the road ties into Wurundjeri Way south of Dudley Street. 	 The Dynon Road eastbound exit ramp and Dynon Road westbound entry ramp to the western abutment of the existing Dynon Road bridge over the railway lines; and The Wurundjeri Way Extension from Dynon Road to the point at which the elevated section of the road ties into Wurundjeri Way south of Dudley Street. Freeway means the primary road connecting the West Gate Freeway (from the M80 interchange) with the Port of Melbourne, CityLink and the city to be constructed as a result of the Project and excludes: The sections of the West Gate Freeway east of the Williamstow rail line, but includes the Hyde Street ramps; and The sections of the Project which comprise widening of arterial 	n	 * Freeway (from the the city to The s rail lin
		 Local Road means The sections of Grieve Parade, Millers Road, Williamstown 	 Local Road means The sections of Grieve Parade, Millers Road, Williamstown but includes: 		roads but in

oise limits

nd construct the works to meet the following limits on traffic els.

External Traffic Noise Levels

	а	External traffic noise levels from the freeway* and Local Roads ⁺ at Category A Buildings and Category B Buildings [^] facing the traffic noise, being those adjacent to or with a direct line of sight to the freeway*, must be no greater than:
		i 63dB(A) L _{10(18h15h)} measured between <u>6am</u> <u>and-midnight-7am and 10pm</u> for Category A Buildings; <u>and</u>
		ii 58dB(A)- _{L10(9h)} measured between 10pm and 7am for Category A Buildings; and
		 63dB(A) L_{10(12h)} measured between 6am and 6pm for Category B Buildings.
	b	External traffic noise levels from the freeway* and Local Roads ⁺ at Category A Buildings and Category B Buildings [^] which do not fall within paragraph (a) above and which are adjacent to an identified section of Local Road ⁺ , must be no greater than the predicted traffic noise level under a 'no project' scenario. The 'no project' scenario must also assume that the road traffic noise attributable to the West Gate Freeway (without the project) is:
		 63dB(A) L_{10(8h15h)} measured between <u>6am and</u> <u>midnight-7am and 10pm</u> for the relevant Category A Buildings; and
		 63dB(A) L_{10(12h)} measured between 6am and 6pm for the relevant Category B Buildings.
at	The to a Bui occ ann The to b Bui exp Bui	e noise criteria in paragraphs (a) and (b) above are apply to the lowest habitable level of Category A Idings and Category B Buildings existing and upied or capable of being occupied at the time of nouncing the design on 29 May 2017. The noise criteria in paragraphs (a) and (b) above are the measured one metre from the centre of the most osed window of all habitable levels of Category A Idings and Category B Buildings existing and upied or capable of being occupied at the time of ase of the EES on 29 May 2017.
	In s req Cat of n owr equ the	some cases off-site noise attenuation may be uired to meet the noise criteria at any Category A or egory B Building. This may include implementation noise attenuation measures in consultation with the her of the relevant building to ensure that an livalent internal level of attenuation is provided to building.
' me M80	eans) inte	the primary road connecting the West Gate Freeway erchange) with the Port of Melbourne, CityLink and

b be constructed as a result of the Project and excludes: sections of the West Gate Freeway east of the Williamstown ne<u>, but includes the Hyde Street ramps</u>; and

sections of the Project which comprise widening of arterial s,

cludes:

No.	Phase	WDA Version 6	AC recommendation Minister's assessment				
No.	Phase Detailed design, construction	 WDA Version 6 Road/Melbourne Road, Hyde Street, MacKenzie Road, Simcock Avenue and Dynon Road which extend 100 metres from the interchange of the relevant road with the Freeway; and The sections of Footscray Road between the intersection of Footscray Road with the Footscray Road ramps and the Sims Street loop intersection with Footscray Road. Category A Buildings and Category B Buildings means Category A Buildings: - Residential dwellings, aged persons homes, hospitals, motels, caravan parks and other buildings of a residential nature Category B Buildings: - Schools, kindergartens, libraries and other noise-sensitive community buildings Traffic noise reduction at open space Construct noise barriers to reduce noise levels at the following open space areas: Crofts Reserve: extend the 8.25 metre high barrier on the south of the freeway, to the west for approximately 85 metres McIvor Reserve: extend the 8.75 metre high barrier opposite Melver Deorema on the pace the provise to the west for approximately 85 metres 	 IAC recommendation The Dynon Road eastbound exit ramp and Dynon Road westbound entry ramp to the western abutment of the existing Dynon Road bridge over the railway lines; and The Wurundjeri Way Extension from Dynon Road to the point at which the elevated section of the road ties into Wurundjeri Way south of Dudley Street. Local Road means The sections of Grieve Parade, Millers Road, Williamstown Road/Melbourne Road, Hyde Street, MacKenzie Road, Simcock Avenue and Dynon Road which extend 100 metres from the interchange of the relevant road with the Freeway; and The sections of Footscray Road between the intersection of Footscray Road with the Footscray Road. Category A Buildings and Category B Buildings means Category A Buildings: - Residential dwellings, aged persons homes, hospitals, motels, caravan parks and other buildings of a residential nature Category B Buildings: - Schools, kindergartens, libraries and other noise-sensitive community buildings Traffic noise reduction at open space Design and construct the works to meet the following limits on traffic noise levels for areas zoned for Public Parks and Recreation use, including new parks created by the Project, adjacent to the West Gate Freeway between the western extent of Crofts Reserve to Hyde Street. Passive open space: 63dB(A)L10(15hr) measured between 7am and 10pm 	Minister's assessment	Recomme - The wes Dyr - The whi sou ⁺ Local Ro • The se Road/ Avenu interch • The se Footse Street [^] Category • Categ homes reside Category B noise-sens Traffic no Design an noise leve including r Freeway B • Passin and 10		
		 McIvor Reserve, on the north side of the freeway, to the west for approximately 150 metres Hyde Street Reserve: a 4.5 metre high noise barrier along the Hyde Street off ramp and shared use path adjacent to the Hyde Street Reserve for approximately 440 metres. 	 and 10pm Active open space: 68dB(A)L10(15hr) measured between 7am and 10pm. In meeting the above noise limits for open space, as a minimum the following noise barriers must be included in the Project: Construct noise barriers to reduce noise levels at the following open space areas: Crofts Reserve: extend the 8.25 metre high barrier on the south of the freeway, to the west for approximately 85 metres McIvor Reserve: extend the 8.75 metre high barrier opposite McIvor Reserve, on the north side of the freeway, to the west for approximately 150 metres Hyde Street Reserve: a 4.5 metre high noise barrier along the Hyde Street off ramp and shared use path adjacent to the Hyde Street Reserve for approximately 440 metres 		 and 10 Active and 10 In meeting following r Construct space area Crofts the free Precin barried extended McIvo McIvo approx Hyde Street 		
	Operation	Operational noise limite	Operational noise limits	Performent adaption of	Street		
NVP3		Traffic noise mitigation measures must be maintained to ensure that the traffic noise levels in NVP1A are not exceeded for 20 years after opening of the freeway for the same sensitive receptors used at the time of the design.	Traffic noise mitigation measures must be maintained to ensure that the traffic noise levels in NVP1A and NVP1B are not exceeded for 20 years after opening of the freeway for the same sensitive receptors used at the time of the design.	Version 6 EPR in light of changes to NVP6 and with heading change to <i>Maintenance of noise</i> <i>mitigation measures</i> to more accurately reflect EPR intent.	Traffic nois the traffic r opening of the time of		
NVP1D NVP4	Pre- operation	Traffic noise reduction at Millers Road north of West Gate Freeway Subject to the timely agreement of the relevant property owners prior to opening of the freeway, agreed noise mitigation measures must be implemented at the residential properties that front Millers Road	Traffic noise reduction at Millers Road north of West GateFreewaySubject to the timely agreement of the relevant property owners prior to opening of the freeway, agreed noise mitigation measures must be implemented at the residential properties that front Millers Road	Recommend adoption of Version 6 EPR (as the appropriate test is the difference between 2031 scenarios).	Traffic no Freeway Subject to opening of be implem		

- e Dynon Road eastbound exit ramp and Dynon Road stbound entry ramp to the western abutment of the existing non Road bridge over the railway lines; and
- e Wurundjeri Way Extension from Dynon Road to the point at ich the elevated section of the road ties into Wurundjeri Way uth of Dudley Street.
- bad means
- ections of Grieve Parade, Millers Road, Williamstown /Melbourne Road, Hyde Street, MacKenzie Road, Simcock ue and Dynon Road which extend 100 metres from the hange of the relevant road with the Freeway; and
- ections of Footscray Road between the intersection of cray Road with the Footscray Road ramps and the Sims toop intersection with Footscray Road.
- A Buildings and Category B Buildings means
- ory A Buildings: Residential dwellings, aged persons s, hospitals, motels, caravan parks and other buildings of a ential nature
- B Buildings: Schools, kindergartens, libraries and other sitive community buildings

ise reduction at open space

- d construct the works to meet the following limits on traffic Is for areas zoned for Public Parks and Recreation use, new parks created by the Project, adjacent to the West Gate between the western extent of Crofts Reserve to Hyde Street.
- ve open space: 63dB(A)L10(15hr) measured between 7am 0pm
- eopen space: 68dB(A)L10(15hr) measured between 7am Opm.
- the above noise limits for open space, as a minimum the project:
- noise barriers to reduce noise levels at the following open as:
- Reserve: extend the 8.25 metre high barrier on the south of eeway, to the west for approximately 85 metres
- nct 15 (frontage): provision of an additional 3 metre high r on the south of the freeway, approximately 210 metres ding to the west
- r Reserve: extend the 8.75 metre high barrier opposite r Reserve, on the north side of the freeway, to the west for ximately 150 metres
- Street Reserve: a 4.5 metre high noise barrier along the Street off ramp and shared use path adjacent to the Hyde Reserve for approximately 440 metres.

nce of noise mitigation measures

se mitigation measures must be maintained to ensure that noise levels in <u>NVP1</u> are not exceeded for 20 years after f the freeway <u>Project</u> for the same sensitive receptors used at f the design.

bise reduction at Millers Road north of West Gate

the timely agreement of the relevant property owners prior to f the freeway Project, agreed noise mitigation measures must nented, during construction, at the residential properties that

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		 between the West Gate Freeway and Geelong Road (to the extent NVP1A is not otherwise applicable to such properties). Relevant property owners are to be consulted and provided with: An acoustic report predicting traffic noise levels from Millers Road in 2031 both with the project and without the project (with the difference in these being 'the predicted traffic noise increase') Details of practicable internal noise reduction options such as fencing, double glazing and mechanical ventilation (or a combination of these) to achieve to the extent practicable an equivalent reduction to the predicted traffic noise increase for the relevant property The process for documenting and implementing agreed noise mitigation measures. 	between the West Gate Freeway and Geelong Road and alongside roads off this section of Millers Road for 100 metres (to the extent NVP1A is not otherwise applicable to such properties). Relevant property owners are to be consulted and provided with: • An acoustic report predicting traffic noise levels from Millers Road in 2031 both with the project and without the project and existing noise measurements in the area (with the difference in these being "the predicted traffic noise increase") • Details of practicable internal noise reduction options such as fencing, double glazing and mechanical ventilation (or a combination of these) to achieve to the extent practicable an equivalent reduction to the predicted traffic noise increase for the relevant property to meet the following limits on traffic noise levels • The process for documenting and implementing agreed noise mitigation measures. Aspect External Traffic Noise Levels External traffic noise a Road and within 100 metres of side roads off Millers Road being those adjacent to or with a direct line of sight to Millers Road must be no greater than: iii 68dB(A) L10(th) measured between 7am and 100m; and iv 65dB(A)_L10(th) measured between 10pm and 7am. Applies at The noise criteria in paragraphs (a) and (b) above are to be measured one metre from the centre of the most exposed window of all habitable levels of Category A Buildings and Category B Buildings existing and occupied or capable of being occupied at the time of release of the EES on 29 May 2017. Off-site noise attenuation may be required to meet the noise criteria a		front Mille and along the extent Relevant • An ac in 203 noise the p • Detai such comb equiv releva • The p mitiga Aspect External traffic noise levels
NVP1E	Construction	Construction of noise barriers	FPR supported	Version 6 FPR	Construc
NVP5		Permanent noise attenuation must, where feasible, be installed in advance of adjacent works.		supported.	Permaner advance o
NVP2	Pre-	Traffic noise monitoring	Traffic noise monitoring	IAC recommendation	Traffic no
NVP6	operation, operation	Traffic noise must be measured prior to and upon opening of the Freeway and during operation of the freeway, in accordance with the VicRoads Traffic Noise Measurement Requirements for Acoustic Consultants – September 2011, to verify conformance with the external traffic noise performance requirements set out in NVP1A above. Remedial action must be taken as soon as practicable in the event that the measured traffic noise levels demonstrate that the external traffic noise performance requirements set out in NVP1A are not met.	Traffic noise must be measured prior to and upon opening of the Freeway and during operation of the freeway, in accordance with the VicRoads Traffic Noise Measurement Requirements for Acoustic Consultants – September 2011 and at the most exposed window of the most exposed habitable level of multi-storey buildings, to verify conformance with the external traffic noise performance requirements set out in NVP1A and NVP1D above.Remedial action must be taken as soon as practicable in the event that the measured traffic noise levels demonstrate that the external traffic noise performance requirements set out in NVP1A and NVP1D are not met.Monitoring results must be made publicly available.	supported with removal of cross-references to NVP1D.	Traffic noi Freeway I with the V Acoustic (window of verify com requirement Remedial the measu noise perf met. Monitoring
NVP3	Pre-	Construction noise, vibration management, and monitoring	Construction noise, vibration management, and monitoring	IAC recommendation	Construc
<u>NVP7</u>	construction, construction	Prepare and implement a Construction Noise and Vibration Management Plan (CNVMP) in accordance with the limits and	Prepare and implement a Construction Noise and Vibration Management Plan (CNVMP) in accordance with the limits and	supported with approval requirements specified	Prepare a Managem

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7		u	e	u	v			u	ч		У	

rs Road between the West Gate Freeway and Geelong Road side roads off this section of Millers Road for 100 metres (to : NVP1A is not otherwise applicable to such properties) property owners are to be consulted and provided with:

coustic report predicting traffic noise levels from Millers Road 31 both with the project and without the project and existing measurements in the area (with the difference in these being redicted traffic noise increases')

ils of practicable internal on-property noise reduction options as fencing, double glazing and mechanical ventilation (or a bination of these) to achieve to the extent practicable an valent reduction to the predicted traffic noise increase for the ant property to meet the following limits on traffic noise levels

process for documenting and implementing agreed noise ation measures.

External Traffic Noise Levels

	 a External traffic noise levels from Millers Road and the freeway at Category A Buildings along Millers Road and within 100 metres of side roads off Millers Road being those adjacent to or with a direct line of sight to Millers Road must be no greater than: iii 68dB(A)-L10(15h) measured between 7am and 10pm; and iv 65dB(A)-L10(9h) measured between 10pm and 7am.
at	The noise criteria in paragraphs (a) and (b) above are to be measured one metre from the centre of the most exposed window of all habitable levels of Category A Buildings and Category B Buildings existing and occupied or capable of being occupied at the time of release of the EES on 29 May 2017. Off site noise attenuation may be required to meet the noise criteria at any Category A building. This may include implementation of noise attenuation measures in consultation with the owner of the relevant building to ensure that an equivalent internal level of attenuation is provided to the building.

tion of noise barriers

nt noise attenuation must, where feasible, be installed in of adjacent works.

oise monitoring

ise must be measured prior to and upon opening of the <u>Project</u> and during operation of the freeway, in accordance /icRoads Traffic Noise Measurement Requirements for Consultants – September 2011 and at the most exposed <u>f the most exposed habitable level of multi storey buildings</u>, to iformance with the external traffic noise performance ents set out in NVP1A and NVP1D above.

action must be taken as soon as practicable in the event that ured traffic noise levels demonstrate that the external traffic formance requirements set out in NVP1A and NVP1D are not

results must be made publicly available.

tion noise, vibration management, and monitoring and implement a Construction Noise and Vibration ent Plan (CNVMP) in accordance with the limits and

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		methodologies outlined in the Noise and Vibration EPRs.	methodologies outlined in the Noise and Vibration EPRs.	for unavoidable works.	methodolo
		The CNVMP must be informed by monitoring and modelling undertaken by a suitably qualified acoustic and vibration consultant prior to the construction works and include (but not be limited to) the following:	The CNVMP must be informed by monitoring and modelling undertaken by a suitably qualified acoustic and vibration consultant prior to the construction works and include (but not be limited to) the following:		The CNVM undertaken prior to the following:
		A. Noise and vibration management levels	A. Noise and vibration management levels		A. Noise
		• The construction noise, vibration and regenerated noise targets as defined in EPRs NVP4, 6, 7, 8	• The construction noise, vibration and regenerated noise targets as defined in EPRs NVP4, 6, 7, 8		The co define
		Updated noise and vibration modelling of the noise and vibration impacts	Updated noise and vibration modelling of the noise and vibration impacts		Update impact
		B. Noise and vibration mitigation measures	B. Noise and vibration mitigation measures		B. Noise
		Identification of sensitive receptors potentially impacted by the construction stage of the Project	Identification of sensitive receptors potentially impacted by the construction stage of the Project		Identif constr
		Identification of the scheduling, duration, activities and equipment with the potential to generate airborne noise or surface vibration impacts at the identified sensitive receptors	Identification of the scheduling, duration, activities and equipment with the potential to generate airborne noise or surface vibration impacts at the identified sensitive receptors		Identif with th impact
		Implementation of construction noise and vibration targets including management measures, where practicable to achieve these targets such as:	Implementation of construction noise and vibration targets including management measures, where practicable to achieve these targets such as:		Impler includi these
		– Scheduling	– Scheduling		– Se
		 Measures to manage night works 	 Measures to manage night works 		– M
		 Vehicle and traffic management related to any relevant traffic management plan prepared under EPR TP3 	 Vehicle and traffic management related to any relevant traffic management plan prepared under EPR TP3 		– Ve m
		 Temporary structures to attenuate noise impacts at the tunnel portals if required to achieve Noise and Vibration EPRs. 	 Temporary structures to attenuate noise impacts at the tunnel portals if required to achieve Noise and Vibration EPRs. 		– Te po
		 Detail of practicable measures that will be adopted to manage noise and vibration impacts that exceed the targets or values set out in the EPRs and CNVMP including: 	 Detail of practicable measures that will be adopted to manage noise and vibration impacts that exceed the targets or values set out in the EPRs and CNVMP including: 		Detail noise out in
		 Engagement and notification measures 	 Engagement and notification measures 		– Er
		 Off-site measures (eg temporary relocation or respite offers) 	 Off-site measures (eg temporary relocation or respite offers) 		- O
		C. Vibration	C. Vibration		C. Vibrat
		 Procedures for condition surveys to be undertaken, with the prior approval of the relevant property owner and/or occupier, for property, land, ground and infrastructure that is reasonably accessible and that may be affected by the project activities 	 Procedures for condition surveys to be undertaken, with the prior approval of the relevant property owner and/or occupier, for property, land, ground and infrastructure that is reasonably accessible and that may be affected by the project activities 		Procee approv proper access
		Any alternative vibration guideline values identified under EPR NVP7 (refer Note 2 of NVP7).	Any alternative vibration guideline values identified under EPR NVP7 (refer Note 2 of NVP7).		Any al NVP7
		D. Blasting	D. Blasting		D. Blasti
		 If blasting is proposed, the values and management measures as defined in EPRs NVP 5, 12 and 13. 	If blasting is proposed, the values and management measures as defined in EPRs NVP 5, 12 and 13.		If blast define
		E. Monitoring	E. Monitoring		E. Monit
		 Noise and vibration monitoring commitments (including real time monitoring in high risk areas) and response protocols for managing noise complaints and remedial action (with reference to procedures required by EPR EMP4) 	 Noise and vibration monitoring commitments (including real time monitoring in high risk areas) and response protocols for managing noise complaints and remedial action (with reference to procedures required by EPR EMP4) 		Noise monito noise proceo
		F. Community consultation	F. Community consultation		F. Comn
		Details of the communication plan to be adopted throughout construction as part of SP2 including any specific measures related to particular locations or activities	Details of the communication plan to be adopted throughout construction as part of SP2 including any specific measures related to particular locations or activities		Details constr related
		• Detail of the complaints management system for noise complaints, consistent with the requirements under EPR EMP4.	• Detail of the complaints management system for noise complaints, consistent with the requirements under EPR EMP4.		Detail consis
			G. Unavoidable works		G. Unavoi
			A qualification rationale or list of planned works that constitute 'unavoidable works'; and response strategies best suited to mitigation of the impacts of those unavoidable works, consistent with ERA Publication 4254. Naira Control Outletimese		A qua 'unavo mitiga
			with EPA Publication 1254 - Noise Control Guidelines.		with E

- gies outlined in the Noise and Vibration EPRs.
- AP must be informed by monitoring and modelling n by a suitably qualified acoustic and vibration consultant construction works and include (but not be limited to) the

and vibration management levels

- onstruction noise, vibration and regenerated noise targets as ed in EPRs NVP4, 6, 7, 8<u>, 9, 10, 11 and 12</u>
- ed noise and vibration modelling of the noise and vibration ts

and vibration mitigation measures

- fication of sensitive receptors potentially impacted by the ruction stage of the Project
- fication of the scheduling, duration, activities and equipment ne potential to generate airborne noise or surface vibration ts at the identified sensitive receptors
- mentation of construction noise and vibration targets ing management measures, where practicable to achieve targets such as:
- cheduling
- leasures to manage night works
- ehicle and traffic management related to any relevant traffic anagement plan prepared under EPR TP3
- emporary structures to attenuate noise impacts at the tunnel ortals if required to achieve Noise and Vibration EPRs.
- of practicable measures that will be adopted to manage and vibration impacts that exceed the targets or values set the EPRs and CNVMP including:
- ngagement and notification measures
- ff-site measures (eg temporary relocation or respite offers) tion

- dures for condition surveys to be undertaken, with the prior val of the relevant property owner and/or occupier, for rty, land, ground and infrastructure that is reasonably sible and that may be affected by the project activities
- Iternative vibration guideline values identified under EPR 11 (refer Note 2 of NVP711).

ing

ting is proposed, the values and management measures as ed in EPRs NVP5, 12 and 139, 16 and 17.

oring

and vibration monitoring commitments (including real time oring in high risk areas) and response protocols for managing complaints and remedial action (with reference to dures required by EPR EMP4)

nunity consultation

- s of the communication plan to be adopted throughout ruction as part of SP2 including any specific measures d to particular locations or activities
- of the complaints management system for noise complaints, stent with the requirements under EPR EMP4.

idable works

lification rationale or list of planned works that constitute oidable works'; and response strategies best suited to tion of the impacts of those unavoidable works, consistent PA Publication 1254 – Noise Control Guidelines.

No.	Phase	WDA Version 6		IAC recommendation		Minister's assessment	Recommended wording	
							Prior approval must be obta unavoidable work to be und to avoid the loss of life or da environmental harm).	ined from the IREA for planned ertaken (except for emergency works mage to property, or to prevent
NVP4	Construction	Construction noise targets		Construction noise targets		IAC recommendation	Construction noise targets	
NVP8		1 Sensitive areas (non-reside	ential)	1. Sensitive areas (non-reside	ntial)	supported.	1. Sensitive areas (non-reside	ntial)
		For sensitive land uses (based or management actions if construct exceed the internal and external sensitive receptor is adversely im	nsitive land uses (based on AS/NZS 2107:2016) implement ement actions if construction noise is predicted to or does If the internal and external noise levels below, and a noise we receptor is adversely impacted.		n AS/NZS 2107:2016) implement ion noise is predicted to or does noise levels below, and a noise npacted.		For sensitive land uses (based or management actions if construct exceed the internal and external sensitive receptor is adversely in	n AS/NZS 2107:2016) implement ion noise is predicted to or does noise levels below, and a noise npacted.
		If construction exceeds the noise	levels below:	If construction exceeds the noise	levels below:		If construction exceeds the noise	e levels below:
		Consider the duration of con	struction noise	Consider the duration of con	struction noise		Consider the duration of cor	struction noise
		Consider the existing ambier	nt noise levels	Consider the existing ambier	nt noise levels		Consider the existing ambie	nt noise levels
		Consult with the owner or op	erator of the noise sensitive receptor	Consult with the owner or op	erator of the noise sensitive receptor		Consult with the owner or op	perator of the noise sensitive receptor
		Consider any specific acoust below	ic requirements of land uses listed	Consider any specific acoust below	tic requirements of land uses listed		Consider any specific acous below	tic requirements of land uses listed
		To determine whether a noise se	nsitive receptor is adversely impacted.	To determine whether a noise se	nsitive receptor is adversely impacted.		To determine whether a noise se	ensitive receptor is adversely impacted.
		Land use	Construction noise management level, L _{Aeq} (15 min) (applies when properties are in use)	Land use	Construction noise management level, L _{Aeq} (15 min) (applies when properties are in use)		Land use	Construction noise management level, L _{Aeq} (15 min) (applies when properties are in use)
		Classrooms in schools and other educational institutions	Internal noise level 45 dB(A)	Classrooms in schools and other educational institutions including kindergartens	Internal noise level 45 dB(A)		Classrooms in schools and other educational institutions including kindergartens	Internal noise level 45 dB(A)
		Places of worship	Internal noise level 45 dB(A)	Places of worship	Internal noise level 45 dB(A)		Places of worship	Internal noise level 45 dB(A)
		Active recreation areas	External noise level 65 dB(A)		External poise level 65 dB(Λ)			
		activities and activities which generate their own noise, making them less sensitive to external noise intrusion		characterised by sporting activities and activities which generate their own noise, making them less sensitive to external noise intrusion			characterised by sporting activities and activities which generate their own noise, making them less sensitive to external noise intrusion	
		Passive recreation areas characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example reading, meditation	External noise level 60 dB(A)	Passive recreation areas characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example reading meditation	External noise level 60 dB(A)		Passive recreation areas characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example reading meditation	External noise level 60 dB(A)
		Community centres	Depends on the intended use of the centre. Refer to the recommended maximum internal levels in AS/NZS 2107:2016 for specific uses.	Community centres	Depends on the intended use of the centre. Refer to the recommended maximum internal levels in AS/NZS 2107:2016 for specific uses.		Community centres	Depends on the intended use of the centre. Refer to the recommended maximum internal levels in AS/NZS 2107:2016 for specific uses.
		Industrial premises	External noise level 75 dB(A)	Industrial premises	External noise level 75 dB(A)		Industrial premises	External noise level 75 dB(A)
		Offices, retail outlets	External noise level 70 dB(A)		External poise level 70 dB(A)			
		Other noise sensitive land uses as identified in AS/NZS 2107:2016	Refer to the noise levels in AS/NZS 2107:2016 for specific uses.	Other noise sensitive land uses as identified in AS/NZS 2107:2016	Refer to the noise levels in AS/NZS 2107:2016 for specific uses.		Other noise sensitive land uses as identified in AS/NZS 2107:2016	Refer to the noise levels in AS/NZS 2107:2016 for specific uses.
		2 Residential dwellings		2 Residential dwellings	1		2 Residential dwellings	
		For residential dwellings, implement management actions if construction noise is predicted to or does exceed the noise targets in EPA Victoria Publication 1254 or the daytime management levels specified for noise at residences during recommended standard hours in Part 4.1.1 of the NSW Interim Construction Noise Guidelines (ICNG) with the hours amended to correspond to the EPA Victoria Publication 1254 hours as shown in the table below.		 2. Residential dwellings at residences during recommended standard hours at residences during recommended standard hours by NSW Interim Construction Noise Guidelines (ICNG) construction are table below. 2. Residential dwellings construction noise is predicted to or does exceed the noise targets in EPA Victoria Publication 1254 or the daytime management levels specified for noise at residences during recommended standard hours in Part 4.1.1 of the NSW Interim Construction Noise Guidelines (ICNG) 			For residential dwellings, implem construction noise is predicted to EPA Victoria Publication 1254 or specified for noise at residences in Part 4.1.1 of the NSW Interim with the hours amended to corre	ent management actions if or does exceed the noise targets in the daytime management levels during recommended standard hours Construction Noise Guidelines (ICNG) spond to the EPA Victoria Publication

No.	Phase	WDA Version 6				IAC recommendation		Minister's assessment	Recommended wording				
			Construction noise	manageme	nt level.	1254 hours as shown in th	e table below.		1254 hours as shown in the	e table be	low.		
		Time of day	L _{Aeq} (15 min) (appli are in use)	es when pro	operties	Time of day	Construction noise management level, L _{Aeq} (15 min) (applies when properties are in use)		Time of day	Constru L _{Aeq} (15 are in u	ction noise min) (applie se)	manageme es when pro	nt level, operties
		Friday 7am–1pm Saturday	Background LA90+ Source: NSW ICNC 2, page 12	10dB G Chapter 4.	1.1 Table	7am–6pm Monday to Friday 7am–1pm Saturday	Noise affected Background LA90+10dB Source: NSW ICNG Chapter 4.1.1 Table		7am–6pm Monday to Friday 7am–1pm Saturday	Noise a Backgro Source:	ffected ound LA90+ NSW ICNG	10dB 6 Chapter 4	.1.1 Table
		7am–6pm Monday to Friday 7am–1pm Saturday	Highly noise affecte 75 dB(A) Source: NSW ICNC 2, page 12	ed 6 Chapter 4.	1.1 Table	7am–6pm Monday to Friday 7am–1pm Saturday	Highly noise affected 75 dB(A) Source: NSW ICNG Chapter 4.1.1 Table		7am–6pm Monday to Friday 7am–1pm Saturday	Highly r 75 dB(A Source:	noise affecte	ed 6 Chapter 4	.1.1 Table
		6pm–10pm Monday to Friday 1pm–10pm Saturday 7am–10pm Sunday and public holidays	 Noise level at any r not to exceed back by: 10 dB(A) or mor months 5 dB(A) or mor Source: EPA Public 	esidential p ground nois ore for up to e after 18 m cation 1254	remises e (L _{A90}) 18 onths Section 2	6pm–10pm Monday to Friday 1pm–10pm Saturday 7am–10pm Sunday and public holidays	 2, page 12 Noise level at any residential premises not to exceed background noise (L_{A90}) by: 10 dB(A) or more for up to 18 months 5 dB(A) or more after 18 months 		6pm–10pm Monday to Friday 1pm–10pm Saturday 7am–10pm Sunday and public holidays	 2, page Noise le not to e: by: 10 e moi 5 dl 	dB(A) or more B(A) or mo	esidential p ground nois re for up to e after 18 m	remises le (L _{A90}) 18 nonths
		10pm–7am Monday to Sunday	Noise inaudible with of any residential p Source: EPA Victor Section 2	hin a habital remises ia Publicatio	ble room on 1254	10pm–7am Monday to Sunday	Source: EPA Publication 1254 Section 2 Noise inaudible within a habitable room of any residential premises Source: EPA Victoria Publication 1254 Section 2		10pm–7am Monday to Sunday	Source: Noise in of any re Source:	EPA Public naudible with esidential pr EPA Victori	ation 1254 hin a habita remises ia Publicatio	Section 2 ble room on 1254
		 The noise affected lev may be some communication The highly noise affected lev there may be strong c For the purpose of pre consideration of inaudibility 	rel represents the poir nity reaction to noise. ted level represents to ommunity reaction to dictive modelling, the y should be based on	nt above wh he point abo noise. noise level background	ich there ove which for 1 +0	Notes1The noise affected lev may be some communication2The highly noise affect there may be strong comparison3.For the purpose of pre- consideration of inaudibility	el represents the point above which there nity reaction to noise. ted level represents the point above which ommunity reaction to noise. dictive modelling, the noise level for y should be based on background +0		 Notes 1 The noise affected lever may be some communities 2 The highly noise affect there may be strong of the purpose of preconsideration of inaudities 	l represe hity reaction ted level r community dictive mo ibility shou	ents the poin on to noise. epresents th reaction to odelling, the uld be based	nt above wh he point abo noise. noise level d on backgr	ich there ove which I for round +0
NVP5 NVP9	Construction	Blasting trials and asses Where blasting is propose must be conducted prior to specific blast response cha sizes to meet air blast over blasting is required, an ass impacts, and a strategy to be prepared, including pre information program.	sment d, a series of initial tria production blasting t aracteristics and to de rpressure and ground sessment of the poter minimise and manag paration of an approp	als at reduc o determine fine allowat vibration lir tial noise ar e those imp riate comm	ed scale site- ole blast nits. If nd vibration acts must unity	Blasting trials and asses Where blasting is proposed must be conducted prior to specific blast response cha sizes to meet air blast over blasting is required, an ass impacts, and a strategy to be prepared, including pre information program.	sment d, a series of initial trials at reduced scale o production blasting to determine site- aracteristics and to define allowable blast rpressure and ground vibration limits. If sessment of the potential noise and vibration minimise and manage those impacts must paration of an appropriate community	Recommend the addition of cross-reference to targets set out in NVP10- 13 and NVP16-17.	Blasting trials and assess Where blasting is proposed must be conducted prior to specific blast response cha sizes to meet air blast over blasting is required, an ass impacts, and a strategy to targets set out in NVP10-11 including preparation of an program.	sment d, a series productio pressure essment minimise <u>3 and NV</u> appropria	of initial tria on blasting to cs and to de and ground of the poten and manage <u>P16-17,</u> mus ate commun	als at reduc o determine fine allowal vibration lir tial noise an e those imp st be prepa ity informat	ed scale ⇒ site- ble blast mits. If nd vibration acts, to the red, tion
NVP6 NVP10	Construction	Construction vibration ta Implement management a for continuous vibration fro comfort of occupied buildir achieved (levels are calcul 1:2008).	argets (amenity) ctions if the following om construction activit ngs (including heritage lated from the British	guideline ta y to protect e buildings) Standard BS	rget levels human are not S6472-	EPR supported.		Version 6 EPR supported.	Construction vibration ta Implement management ac for continuous vibration fro comfort of occupied buildin achieved (levels are calcula 1:2008).	rgets (an ctions if th m constru gs (incluc ated from	nenity) le following (liction activit ling heritage the British S	guideline ta y to protect buildings) Standard B	irget levels human are not S6472-
			Vibration Dose Valu Day (7am to 10pm)	ues (m/s1.7 Night (10 7am)	5) om to					Vibratio Day (7a 10pm)	n Dose Valu m to	ues (m/s1.7 Night (10 7am)	5) pm to
		Type of space occupancy Residential	Preferr ed Maximu Value m Value 0.2 0.4	Preferre d Value 0.1	Maximu m Value 0.2				Type of space occupancy Residential	Preferr ed Value 0.2	Maximu m Value 0.4	Preferre d Value 0.1	Maximu m Value 0.2

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		Offices, schools, educational institutions, places of worship	0.4	0.8	0.4	0.8			Offices, schools, educational institutions, places of worship	0.4	0.8	0.4	0.8
		Workshops	0.8	1.6	0.8	1.6			Workshops	0.8	1.6	0.8	1.6
		 Notes 1 The Guideline Target should be sought to b practicable mitigation actions would be required 2 The VDVs may be co construction manager 	ts are no be achiev measur uired pnverted ment pla	n-mandator ved through es. If excee to PPVs wit n.	y; they are g the applicat ded then ma thin a noise	goals that tion of anagement and vibration			 Notes 1 The Guideline Targets should be sought to be practicable mitigation actions would be requised 2 The VDVs may be con construction manager 	s are non e achieve measure ired nverted te nent plar	e-mandator ed through s. If excee o PPVs wit	y; they are g the applica ded then ma hin a noise	goals that tion of anagement and vibration
NVP7	Construction	Construction vibration t	argets (structures)		EPR supported.	Version 6 EPR	Construction vibration ta	argets (s	tructures)		
<u>NVP11</u>		Construction vibration target tables below.	gets for s	structures a	re summaris	sed in the		supported.	Construction vibration targ tables below.	ets for st	ructures ar	e summaris	sed in the
		Guideline values for the vi the effects of short term vi	ibration ibration	velocity to b on structure	e used whe s.	n evaluating			Guideline values for the vi the effects of short term vi	bration v bration o	elocity to b n structure	e used whe s.	n evaluating
			Guide	line values	for velocity ((mm/s)				Guideli	ne values f	for velocity	(mm/s)
			Vibra	tion at the f at a frequen	oundation	Vibration at horizontal				Vibrati at	on at the fo	oundation cy of	Vibration at horizontal
		Type of structure	1 to 10 Hz	10 to 50 Hz	50 to 100 Hz*	plane of highest floor (Hz)			Type of structure	1 to 10 Hz	10 to 50 Hz	50 to 100 Hz*	plane of highest floor (Hz)
		1. Buildings used for commercial purposes, industrial buildings, and buildings of similar design	20	20 to 40	40 to 50	40			1. Buildings used for commercial purposes, industrial buildings, and buildings of similar design	20	20 to 40	40 to 50	40
		2. Dwellings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15			2. Dwellings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15
		3. Structures that, because of their particular sensitivity to vibration, cannot be classified under lines 1 and 2 and are of intrinsic value (eg. Heritage buildings)	3	3 to 8	8 to 10	8			3. Structures that, because of their particular sensitivity to vibration, cannot be classified under lines 1 and 2 and are of intrinsic value (eg. Heritage buildings)	3	3 to 8	8 to 10	8
		*At frequencies > 100 Hz, as a minimum	, the valu	ies given in	this column	may be used			*At frequencies > 100 Hz, as a minimum	the value	es given in	this column	may be used
		 as a minimum Notes 1 Vibration levels marginally exceeding those vibration levels in the table would not necessarily mean that damage would occur and further investigation would be required to determine if higher vibration levels can be accommodated without risk of damage. 		levels in the d occur and if higher f damage.			Notes 1 Vibration levels margi table would not neces further investigation w vibration levels can be	nally exc sarily me rould be i e accomr	eeding tho ean that da required to nodated wi	se vibration mage would determine i thout risk o	levels in the l occur and f higher f damage.		
		2 For civil engineering s constructions used as for Type 1 buildings n	structure s abutme nay be ii	es (e.g. with ents or foun ncreased by	reinforced c dation pads, / a factor of 2	concrete) the values 2			2 For civil engineering s constructions used as for Type 1 buildings m	tructures abutmen ay be ind	s (e.g. with nts or found creased by	reinforced o dation pads a factor of	concrete) the values 2
		3 Short-term vibration is often enough to caus produce resonance ir	s defined e structu n the stru	d as vibratic Iral fatigue a Icture being	on which doe and which do g evaluated.	es not occur oes not			3 Short-term vibration is often enough to cause produce resonance in	defined structur the struc	as vibratio al fatigue a cture being	n which doe and which d evaluated.	es not occur oes not
		Guideline values for the vi the effects of long term vil	ibration bration o	velocity to b on structures	e used whe s.	n evaluating			Guideline values for the vi the effects of long term vib	bration v pration or	elocity to b structures	e used whe	n evaluating

No.	Phase	WDA Version 6		IAC recommendation	Minister's assessment	Recommended wording	
		C (i Type of structure	Guideline values for velocity mm/s) Vibration at horizontal plane of highest floor All requencies			Type of structure	Guideline values for velocity (mm/s) Vibration at horizontal plane of highest floor All frequencies
		Buildings used for commercial purposes, industrial buildings, and buildings of similar design	0			Buildings used for commercial purposes, industrial buildings, and buildings of similar design	10
		Dwellings and buildings of 5 similar design and/or occupancy	5			Dwellings and buildings of similar design and/or occupancy	5
		Structures that, because of their particular sensitivity to vibration, cannot be classified under lines 1 and 2 and are of intrinsic value (eg. Heritage buildings)	2.5			Structures that, because of their particular sensitivity to vibration, cannot be classified under lines 1 and 2 and are of intrinsic value (eg. Heritage buildings)	2.5
		Notes:				Notes:	
		1 Vibration levels marginally exceed necessarily mean that damage we investigation would be required to levels can be accommodated with	ding those in the table would not ould occur and further o determine if higher vibration hout risk of damage			 Vibration levels marginally exce necessarily mean that damage investigation would be required levels can be accommodated w 	eding those in the table would not would occur and further to determine if higher vibration ithout risk of damage
		2 Targets in the above table may ne deemed necessary and/or approp integrity of structures based on a and/or modelling	eed to be adjusted where briate to protect the structural pre-construction condition survey			2 Targets in the above table may deemed necessary and/or appro- integrity of structures based on and/or modelling	need to be adjusted where opriate to protect the structural a pre-construction condition survey
		3 Long-term vibration relates to eve structural response.	ents that may result in a resonant			3 Long-term vibration relates to e structural response.	vents that may result in a resonant
		Implement management actions if, du 4150.3 Guideline Targets for struc short-term vibration or long-term v	e to construction activity, the DIN ctural damage to buildings (for vibration) are not achieved.			Implement management actions if, due to construction activity, the 4150.3 Guideline Targets for structural damage to buildings (for shr term vibration or long-term vibration) are not achieved.	
NVP8	Construction	Ground-borne (internal) noise targe	ets	EPR supported.	Version 6 EPR	Ground-borne (internal) noise tar	gets
<u>NVP12</u>		Implement management actions as de potentially affected land owners to pro the following ground borne noise guid construction.	etermined in consultation with otect amenity at residences where eline targets are exceeded during		supported.	Implement management actions as potentially affected land owners to p the following ground borne noise gu construction.	determined in consultation with rotect amenity at residences where deline targets are exceeded during
		Internal nois Time of Day of the most	se level measured at the centre affected habitable room			Internal no Time of Day of the mos	bise level measured at the centre at affected habitable room
		Evening (6pm–10pm) L _{Aeq} (15 min	nute) = 40dBA			Evening (6pm–10pm) L _{Aeq} (15 m	inute) = 40dBA
		Night (10pm–6am) L _{Aeq} (15 min	nute) = 35dBA			Night (10pm–6am) L _{Aeq} (15 m	inute) = 35dBA
		Notes				Notes	
		 Levels are only applicable when g higher than airborne noise levels. 	ground borne noise levels are			1 Levels are only applicable wher higher than airborne noise level	ground borne noise levels are s.
		2 Management actions include com acceptable level of disruption and accommodation in some circumst	nmunity consultation to determine I provision of respite tances.			2 Management actions include co acceptable level of disruption an accommodation in some circum	mmunity consultation to determine nd provision of respite stances.
NVP9 NVP13	Pre- construction, construction	Utility asset protection Prior to construction undertake conditi below ground utility assets and establic consultation with asset owners to main construction vibration limits are not age guideline values in the table below ap	ion assessments of above and ish construction vibration limits in ntain asset integrity. Where greed with the asset owner, the ply.	EPR supported.	Version 6 EPR supported.	Utility asset protection Prior to construction undertake conc below ground utility assets and esta consultation with asset owners to ma construction vibration limits are not a guideline values in the table below a	ition assessments of above and olish construction vibration limits in aintain asset integrity. Where agreed with the asset owner, the pply.
		Pipe Material	Guideline values for velocity measured on the pipe			Pipe Material	Guideline values for velocity measured on the pipe
		Steel (including welded pipes)	100mm/s			Steel (including welded pipes)	100mm/s
		Clay, concrete, reinforced concrete, pre stressed concrete, metal (with	80 mm/s			Clay, concrete, reinforced concrete pre-stressed concrete, metal (with	., 80 mm/s

No.	Phase	WDA Version 6	6		IAC recommendation	Minister's assessment	Recommende	d wording	
		or without flan	ge)				or without flan	ge)	
		Masonry, plas	tic	50 mm/s			Masonry, plas	tic	50 mm/s
		Notes					Notes		
		1 These valu of long-tern	es may be reduc n vibration on bι	ced by 50% when evaluating the effects iried pipework			1 I hese valu of long-terr	es may be reduc n vibration on bu	ced by 50% when evaluating the effects iried pipework
		2 It is assume current tech	ed pipes have b hnology.	een manufactured and laid using			2 It is assum current tec	ed pipes have b hnology.	een manufactured and laid using
		Monitor vibratio with agreed vibu implemented if that are attribute	n limits during co ration limits. Iden limits are not me able to the Proje	onstruction to demonstrate compliance ntify contingency measures to be et. Where necessary rectify any defects ct.			Monitor vibratic with agreed vib implemented if that are attribut	n limits during co ration limits. Iden limits are not me able to the Proje	onstruction to demonstrate compliance ntify contingency measures to be et. Where necessary rectify any defects act.
NVP10	Detailed	Tunnel ventilat	tion system noi	se design	EPR supported.	Version 6 EPR	Tunnel ventila	tion system noi	ise design
<u>NVP14</u>	design, operation	Design and imp the Works Appr Protection Polic Trade) No. N-1 of EPA Victoria Works Approva	lement the tunn oval and to achi cy (Control of No (SEPP N-1). Pro prior to commer I.	el ventilation system in accordance with eve compliance with State Environment ise from Commerce, Industry and ovide detailed design to the satisfaction incement of the works permitted by the		supported.	Design and imp the Works App Protection Polic Trade) No. N-1 of EPA Victoria Works Approva	element the tunn oval and to achi y (Control of No (SEPP N-1). Pro prior to commer I.	el ventilation system in accordance with eve compliance with State Environment ise from Commerce, Industry and ovide detailed design to the satisfaction neement of the works permitted by the
NVP11	Operation	Tunnel ventilat	tion system noi	se monitoring	Tunnel ventilation system noise monitoring	IAC recommendation	Tunnel ventila	tion system noi	ise monitoring
<u>NVP15</u>		Measure noise operation and n five years post of Victoria, to verif (Control of Nois N-1). Identify ar targets are not	from the tunnel of nonitor noise fro opening of the F by compliance wi are from Commer and implement co met.	ventilation system on commencing road m the tunnel ventilation system for up to reeway, or as agreed with EPA th State Environment Protection Policy ce, Industry and Trade) No. N-1 (SEPP ntingency measures if noise level	Measure noise from the tunnel ventilation system on commencing road operation and monitor noise from the tunnel ventilation system <u>annually</u> for up to five years post opening of the Freeway, or as agreed with EPA Victoria, to verify compliance with State Environment Protection Policy (Control of Noise from Commerce, Industry and Trade) No. N-1 (SEPP N-1). Identify and implement contingency measures if noise level targets are not met.	supported with the clarification of annual reporting of monitoring results.	Measure noise operation and r report annually agreed with EP Protection Polic Trade) No. N-1 measures if noi	from the tunnel of nonitor noise fro for up to five yea A Victoria, to ver cy (Control of No (SEPP N-1). Ide se level targets	ventilation system on commencing road m the tunnel ventilation system and ars post opening of the Freeway, or as rify compliance with State Environment ise from Commerce, Industry and entify and implement contingency are not met.
NVP12	Construction	Amenity – Blas	st Vibration		EPR supported.	Version 6 EPR	Amenity – Bla	st Vibration	
<u>NVP16</u>		Implement management actions if the following vibration values are not achieved. Blasting activities must comply with Australian Standard AS2187.2-2006, Explosives – Storage and use Part 2 – Use of explosives for all blasting.		s if the following vibration values are not st comply with Australian Standard torage and use Part 2 – Use of		supported.	Implement management actions if the following vibra achieved. Blasting activities must comply with Austra AS2187.2-2006, Explosives – Storage and use Part 2 explosives for all blasting.		s if the following vibration values are not st comply with Australian Standard storage and use Part 2 – Use of
			Type of					Type of	
		Category	blasting operations	Peak component particle velocity (mm/s)			Category	blasting operations	Peak component particle velocity (mm/s)
		Sensitive site	Operations lasting longer than 12 months or more than 20 blasts	5mm/s for 95% blasts per year 10mm/s maximum unless agreement is reached with the occupier that a higher limit may apply			Sensitive site	Operations lasting longer than 12 months or more than 20 blasts	5mm/s for 95% blasts per year 10mm/s maximum unless agreement is reached with the occupier that a higher limit may apply
		Sensitive site	Operations lasting less than 12 months or less than 20 blasts	10mm/s maximum unless agreement is reached with occupier that a higher limit may apply			Sensitive site	Operations lasting less than 12 months or less than 20 blasts	10mm/s maximum unless agreement is reached with occupier that a higher limit may apply
		Occupied non- sensitive sites such as factories and commercial premises	All blasting	25mm/s maximum value unless agreement is reached with occupier that a higher limit may apply. For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or levels that can be shown to adversely affect the equipment operation			Occupied non- sensitive sites such as factories and commercial premises	All blasting	25mm/s maximum value unless agreement is reached with occupier that a higher limit may apply. For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturer's specification or levels that can be shown to adversely affect the equipment operation

No.	Phase	WDA Version 6	6		IAC recommendation	Minister's assessment	Recommended	Recommended wording		
		Note				Note				
		Sensitive site in theatres, schoo	ncludes houses and lo Is and other similar bi	w rise residential buildings, uildings occupied by people.			Sensitive site includes houses and low rise residenti theatres, schools and other similar buildings occupie		w rise residential buildings, uildings occupied by people.	
NVP13	Construction	Amenity – Blas	st Overpressure		EPR supported.	Version 6 EPR	Amenity – Blas	at Overpressure		
<u>NVP17</u>		Implement management actions if the following overpressure values are not achieved. Blasting activities must comply with Australian Standard AS2187.2-2006, Explosives – Storage and use Part 2 – Use of explosives for all blasting.		plement management actions if the following overpressure values e not achieved. Blasting activities must comply with Australian tandard AS2187.2-2006, Explosives – Storage and use Part 2 – Use explosives for all blasting.				agement actions if the d. Blasting activities n 37.2-2006, Explosives r all blasting.	e following overpressure values nust comply with Australian s – Storage and use Part 2 – Use	
		Category	Type of blasting operations	Peak Overpressure Value (dBL)			Category	Type of blasting operations	Peak Overpressure Value (dBL)	
		Sensitive Site	Operations lasting longer than 12 months or more than 20 blasts Operations lasting less than 12 months or less than 20 blasts	115 dBL for 95% blasts per year. 120dBL maximum unless agreement with occupier that a higher limit may apply 120dBL for 95% blasts per year. 125 dBL maximum unless agreement with occupier that a higher limit may apply			Sensitive Site	Operations lasting longer than 12 months or more than 20 blasts Operations lasting less than 12 months or less than 20 blasts	115 dBL for 95% blasts per year. 120dBL maximum unless agreement with occupier that a higher limit may apply 120dBL for 95% blasts per year. 125 dBL maximum unless agreement with occupier that a higher limit may apply	
		Occupied non-sensitive sites such as factories and commercial premises	All blasting	125 dBL maximum value unless agreement is reached with occupier that a higher limit may apply. For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturers specification or levels that can be shown to adversely affect the equipment operation			Occupied non-sensitive sites such as factories and commercial premises All blasting 125 dBL n unless agu with occup may apply containing to vibration should be manufactu levels that adversely operation		125 dBL maximum value unless agreement is reached with occupier that a higher limit may apply. For sites containing equipment sensitive to vibration, the vibration should be kept below manufacturers specification or levels that can be shown to adversely affect the equipment operation	
		Note Sensitive site in theatres, schoo	ncludes houses and lo Is and other similar bi	w rise residential buildings, uildings occupied by people.			Note Sensitive site includes houses and low rise residential buildings, theatres, schools and other similar buildings occupied by people.		w rise residential buildings, uildings occupied by people.	
NVP18	Construction					Recommend new EPR	Construction r	oise management		
						on construction noise	Manage constru	iction noise in accord	ance with EPA Publication 1254	
						Melbourne Metro EPR NV1.	and Vibration M	anagement Plan prep	pared under NVP7.	
<u>NVP19</u>	Construction					Recommend new EPR to	Traffic noise at	t Hyde Street, south	of Francis Street	
						in residences on Hyde Street, Yarraville.	In the event tha the west side of the Project, and	t voluntary acquisition Hyde Street south of subject to the timely	n is not offered for residences on Francis Street in connection with agreement of the relevant	
							property owners prior to opening of the Project, agreed noise mitigati measures must be implemented, during construction, at the residenti properties on Hyde Street where acoustic modelling predicts a difference between noise levels from Hyde Street in 2031 with and without the project (with the difference in these being 'the predicted traffic noise increase'). Relevant property owners are to be consulted and provided with:		ne Project, agreed noise mitigation ing construction, at the residential ustic modelling predicts a Hyde Street in 2031 with and e in these being 'the predicted perty owners are to be consulted	
							An acoustic report predicting traffic noise levels from Hyd in 2031 both with the project and without the project		fic noise levels from Hyde Street without the project	
							Details of p fencing, dou combination equivalent i relevant pro	racticable on-property uble glazing and mech of these) to achieve reduction to the predic operty	/ noise reduction options such as hanical ventilation (or a to the extent practicable an cted traffic noise increase for the	
							 <u>The proces</u> 	s tor documenting and	d implementing agreed noise	

Sector Social and community Social and community Recommend adoption of the Version 3 sector Recommend consume tradeversion adoptin the Version 3 sector <th>No.</th> <th>Phase</th> <th>WDA Version 6</th> <th>IAC recommendation</th> <th>Minister's assessment</th> <th>Recomm</th>	No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
Social and community Social and community Sector and edge of the sector						mitiga
SP1 Detailed design Urban design principles and vision Urban design principles and vision Recommend adoption of the Variance IEPR with the A address of community infrastructure and commendian facilities by responding to the urban design principles are vision and implementing the principles of Cime Prevention Through Environmental Design. Orban design principles and vision and implementing the principles of Cime Prevention Through Environmental Design. Recommend adoption of the Variance IEPR with the A address of advanced to advance instabilized on advanced to advance instabilized on advanced to advanced in the instabilized on advanced with iteRes. Recommend adoption of the Variance IEPR with the Variance			Social and community			
SP2 Pre- construction, operation Communications and Community Engagement Plan in consultation with affected local councils is and Community Engagement Plan in consultation with affected local councils is angagenent Plan (CCEP) Develop and implement a Community is uses identification and potentially affected stateholders and discuss progress of construction activities and operation. The plan must include. Community issues identification, management and resolution approach and procedures Recomment of the plan must include. Recomment of the plan must include. Recomment of the plan must include. Recomment of the and operation of the plan must include. Recomment of the procedures including making averagement and resolution approach and procedures Recomment of the and potentially affected stateholder is and project website Recomment of the procedures including making averagement and upper and procedures Recomment of the procedures including making averagement and upper and procedures Recomment of the procedures including making averagement and upper and procedures Recomment of the proper integement Plan (CCEP) • Approach to attrictive and operation. • Approach to attrictive and operation. • Approach to attrictive and operation. • Approach to attrictive and procedures • Approach to attrictive and operation and the properative weblate of engligation measures. • Approach to attrictive and operation policy • Approach to the decempency communications for affected and potentially affected users, relevant tored authorities • Approach to attrictive and operation policy • Approach to attrictive and operatinticite and properative dowangement and record keeping approach	SP1	Detailed design	Urban design principles and vision Detailed design to protect and, where practicable, improve access to and amenity and safety for potentially affected residents, open space, social and community infrastructure and commercial facilities by responding to the urban design principles and vision and implementing the principles of Crime Prevention Through Environmental Design.	Urban design principles and visionDetailed design to protect and, where practicable, improve access to and amenity and safety for potentially affected residents, open space, social and community infrastructure and commercial facilities by responding to the urban design principles and vision and implementing the principles of Crime Prevention Through Environmental Design.Detailed design to specify the locations where installations of advanced trees are indicated to minimise impact of tree removal, in consultation with relevant local council.Detailed design to identify locations for planting prior to construction works where feasible to do so.	Recommend adoption of the Version 6 EPR with the IAC addition adopted within EP6.	Urban de Detailed o and amer social and respondin the princip <u>Detailed o</u> <u>trees are</u> <u>with relev</u> <u>Detailed o</u> <u>works who</u>
The CCEP must address matters of interest or concern to the following stakeholders:The CCEP must address matters of interest or concern to the following stakeholders:MunicipalitiesMunicipalitiesMunicipalitiesRecreation, sporting and community groupsRecreation, sporting and community groupsRecreation, sporting and community groupsPotentially affected residents and property ownersPotentially affected businessPotentially affected businessOther public facilities in proximityOther public facilities in proximityOther public facilities in proximityReligious and worship groups.Religious and worship groups.Religious and worship groups.	SP2	Pre- construction, construction, operation	 Communications and Community Engagement Plan (CCEP) Develop and implement a Communications and Community Engagement Plan in consultation with affected local councils to engage and consult the community and potentially affected stakeholders and discuss progress of construction activities and operation. The plan must include: Community issues identification, management and resolution approach and procedures Approach to stakeholder identification Enquiry management and record keeping approach and procedures including making available a 24 hour telephone number, postal address, and an email address and publishing these on the project website Approach to mitigating community impacts including dust, noise and light and any relevant policies (e.g. relocations policy) Approach to changes to transport conditions for affected and potentially affected users, relevant stakeholders and relevant road authorities How it will evaluate the effectiveness of community impact mitigation measures, including through noise and vibration monitoring Incident and emergency communications, including notification methods and timeframes in the event of a major incident or overrun Approach to notifying community and stakeholders Approach to notifying community and stakeholders Approach to making relevant project information available to the community and stakeholders Approach to making relevant project information available to the community and stakeholders Approach to ma	 Communications and Community Engagement Plan (CCEP) Develop and implement a Communications and Community Engagement Plan in consultation with affected local councils to engage and consult the community and potentially affected stakeholders and discuss progress of construction activities and operation. The plan must include: Community issues identification, management and resolution approach not stakeholder identification Enquiry management and record keeping approach and procedures including making available a 24 hour telephone number, postal address, and an email address and publishing these on the project website Approach to mitigating community impacts including dust, noise and light and any relevant policies (e.g. relocations policy) Approach to changes to transport conditions for affected and potentially affected users, relevant stakeholders and relevant road authorities How it will evaluate the effectiveness of community impact mitigation measures, including through noise and vibration monitoring Incident and emergency communications, including notification methods and timeframes in the event of a major incident or overrun Approach to notifying community and stakeholders Approach and processes to ensure that the workforce has appropriate community and stakeholders Approach to notifying community and stakeholders Approach to notifying community and stakeholders Approach to notifying community and stakeholders Approach to making relevant project information available to the community The role and function of the Community Liaison Group (CLG) as developed by the State.	Recommend cross- reference to EMP4 (complaints management system), cross-reference to BP5, specified timing for plan development and plan to be published on project website for duration of construction.	Commun Develop a Engagem and consu discuss p must be p of constru • Comr resolu • The E • Appro • Enqu proce numb these • Appro • Appro • Appro • Incide metho overn • Appro • Incide metho overn • Appro • Appro

tion measures.

sign principles and vision

design to protect and, where practicable, improve access to nity and safety for potentially affected residents, open space, d community infrastructure and commercial facilities by ng to the urban design principles and vision and implementing iples of Crime Prevention Through Environmental Design.

lesign to specify the locations where installations of advanced indicated to minimise impact of tree removal, in consultation ant local council.

lesign to identify locations for planting prior to construction ere feasible to do so.

Since times and Community Engagement Plan (CCEP) and implement a Communications and Community tent Plan in consultation with affected local councils to engage ult the community and potentially affected stakeholders and rogress of construction activities and operation. The plan published on the project website prior to and for the duration uction and include:

munity issues identification, complaints management and ution approach and procedures <u>in accordance with EMP4</u> BIP in accordance with BP5

bach to stakeholder identification

uiry management and record keeping approach and edures including making available a 24 hour telephone ber, postal address, and an email address and publishing e on the project website

oach to mitigating community impacts including dust, noise ight and any relevant policies (e.g. relocations policy)

bach to changes to transport conditions for affected and ntially affected users, relevant stakeholders and relevant road prities

it will evaluate the effectiveness of community impact ation measures, including through noise and vibration toring

ification of how stakeholders can access environmental toring data that is to be made publicly available

ent and emergency communications, including notification lods and timeframes in the event of a major incident or run

oach and processes to ensure that the workforce has opriate community awareness and sensitivity

innovative communications tools and methods in the CCEP h would enhance the Project's ability to effectively nunicate with the community and stakeholders

bach to notifying community, business, road user and other holders affected by construction activities about impacts

bach to making relevant project information available to the nunity

ole and function of the Community Liaison Group (CLG) as loped by the State.

P must address matters of interest or concern to the following lers:

cipalities

eation, sporting and community groups

ntially affected residents and property owners

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
					PoterOtherReligion
SP3	Construction	 Community Liaison Group participation Participate in the Community Liaison Group (CLG) that has been established by the State to facilitate community and stakeholder involvement for the construction phase of the Project. Participation must include: Attendance at meetings Regular reporting of design and construction activities Timely provision of relevant information, including response to issues raised by the group Regular reporting and monitoring of community feedback, impacts and discussion of mitigation measures and their effectiveness. 	EPR supported.	Version 6 EPR supported.	Commun Participati establishe involveme must inclu • Atten • Regu • Timel issue • Regu and d
SP4	Pre- construction, construction	 Social and local procurement Develop and implement a Workforce Development Plan and a Local Industry Development Plan to provide: Opportunities for graduates, non-engineering cadets and upskilling short courses for the project workforce Opportunities for young people such as scholarships, and structured workplace learning placements Opportunities for local businesses such as forums to inform local businesses about potential procurement opportunities 	EPR supported.	Version 6 EPR supported.	Social an Develop a Industry E • Oppo short • Oppo struct • Oppo busin
<u>SP5</u>	Pre- construction, construction		<u>Community Involvement and Participation Plan (CIPP)</u> Develop and implement a CIPP in consultation with Council's and representatives of communities affected negatively by the impacts of the Project in order to improve community connectedness and cohesiveness. Social legacy outcomes and tasks that could be considered for funding under the CIPP include: community partnership programs; community support grants; running of community events and festivals; sponsorships of local sporting clubs; small capital works targeting community, sporting and recreation facilities; a wide range of other 'community led' initiatives.	IAC recommendation accepted with the identification of local council's and communities to benefit from the plan.	Commun Develop a <u>Council an</u> communit including <u>J</u> <u>Yarraville</u> cohesiver <u>constructin</u> considere programs and festiv targeting o other 'com
		Surface water			
SWP1	Detailed design	Design of discharges and runoff Meet State Environment Protection Policy (Waters of Victoria) for discharge and run-off from the Project to Kororoit Creek, Stony Creek, Maribyrnong River, Moonee Ponds Creek.	EPR supported.	Version 6 EPR supported.	Design o Meet Stat discharge Maribyrno
SWP2	Detailed design	Water sensitive road design Integrate the stormwater treatment system into the design of the works in accordance with VicRoads Integrated Water Management Guidelines (June 2013) and the EPA Victoria Best Practice Environmental Management Guidelines for Urban Stormwater (2006).	EPR supported.	Version 6 EPR supported.	Water set Integrate in accorda Guideline Environm
SWP3	Pre- construction	Tunnel waste water Any proposed discharge of tunnel waste water from the site must be approved by the relevant authority prior to discharges occurring.	EPR supported.	Version 6 EPR supported.	Tunnel w Any propo approved
SWP4	Pre- construction	Water quality monitoring Develop and implement a baseline surface water monitoring program prior to commencement of construction to assess background water quality in all receiving waters. This should be developed in consultation with the EPA Victoria and Melbourne Water. The baseline surface	EPR supported.	Version 6 EPR supported.	Water que Develop a prior to co quality in with the E

- ntially affected business
- public facilities in proximity
- jious and worship groups.

nity Liaison Group participation

- te in the Community Liaison Group (CLG) that has been ed by the State to facilitate community and stakeholder ent for the construction phase of the Project. Participation ude:
- ndance at meetings
- lar reporting of design and construction activities
- ely provision of relevant information, including response to es raised by the group
- ular reporting and monitoring of community feedback, impacts discussion of mitigation measures and their effectiveness.

nd local procurement

- and implement a Workforce Development Plan and a Local Development Plan to provide:
- ortunities for graduates, non-engineering cadets and upskilling t courses for the project workforce
- ortunities for young people such as scholarships, and tured workplace learning placements
- ortunities for local businesses such as forums to inform local nesses about potential procurement opportunities.

nity Involvement and Participation Plan (CIPP)

- and implement a CIPP in consultation with <u>Hobsons Bay City</u> and <u>Maribyrnong City Council</u>Council's and representatives of tites affected negatively by the impacts of the Project, <u>Altona North, Brooklyn, South Kingsville, Spotswood and</u> a, in order to improve community connectedness and ness. <u>The plan should apply for the period of project</u>
- tion. Social legacy outcomes and tasks that could be ed for funding under the CIPP include: community partnership s; community support grants; running of community events vals; sponsorships of local sporting clubs; small capital works community, sporting and recreation facilities; a wide range of mmunity led' initiatives.

of discharges and runoff

te Environment Protection Policy (Waters of Victoria) for e and run-off from the Project to Kororoit Creek, Stony Creek, ong River, Moonee Ponds Creek.

ensitive road design

the stormwater treatment system into the design of the works ance with VicRoads Integrated Water Management es (June 2013) and the EPA Victoria Best Practice mental Management Guidelines for Urban Stormwater (2006).

vaste water

osed discharge of tunnel waste water from the site must be I by the relevant authority prior to discharges occurring.

ality monitoring

and implement a baseline surface water monitoring program ommencement of construction to assess background water all receiving waters. This should be developed in consultation EPA Victoria and Melbourne Water. The baseline surface

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		water monitoring program is to be used to inform the surface water sub-management plan (SWP7)			water mo sub-mana
SWP5	Detailed design	Spill containment design Design the capacity of the stormwater drainage system for all new roads and ramps to contain hazardous spills at or prior to every stormwater outlet, to the satisfaction of EPA Victoria, and develop procedures to be implemented in response to a hazardous spill.	EPR supported.	Version 6 EPR supported.	Spill con Design th roads and stormwate procedure
SWP6	Construction	 Management of chemicals, fuels, and hazardous materials Minimise chemical and fuel storage on site and store hazardous materials and dangerous goods in accordance with the relevant guidelines and requirements. Comply with the Victorian WorkCover Authority and Australian Standard AS1940 Storage Handling of Flammable and Combustible Liquids and EPA Victoria publications 480 Environmental Guidelines for Major Construction Sites and 347 Bunding Guidelines Develop and implement management measures for dangerous substances, including: Creating and maintaining a dangerous goods register Disposing of any hazardous materials, including asbestos, in accordance with Industrial Waste Management Policies, regulation and relevant guidelines Implementing requirements for the installation of bunds and precautions to reduce the risk of spills Developing contingency and emergency response plans to handle fuel and chemical spills, including availability of on-site hydrocarbon spill kits. 	EPR supported.	Version 6 EPR supported.	Manager Minimise materials guideline: Authority Flammab Environm Bunding Develop a substanc Crea Dispo acco and r Imple preca
SWP7	Construction	 Surface Water Management during construction The CEMP must include a sub-management plan that sets out the Surface Water Management requirements and methods for: Best practice sediment and erosion control and monitoring, in accordance with EPA Victoria publications 275 (1991), 480 (1996), and 960 (2004) Maintenance of existing flow paths, drainage lines and floodplain storage Location and bunding of any contaminated material (including tunnel spoil and stockpiled soil) to the 1% AEP flood level and to the satisfaction of EPA Victoria and the relevant drainage authority A flood emergency management plan including consideration of scheduling works Bunding of the tunnel portals to an appropriate level during the construction phase. The sub-management plan is to be informed by SWP4. 	 Surface Water Management during construction The CEMP must include a sub-management plan that sets out the Surface Water Management requirements and methods for: Best practice sediment and erosion control and monitoring, in accordance with EPA Victoria publications 275 (1991), 480 (1996), and 960 (2004) Management of potential surface water run-off impacts and any disturbance of contaminated bed soil associated with construction Maintenance of existing flow paths, drainage lines and floodplain storage Location and bunding of any contaminated material (including tunnel spoil and stockpiled soil) to the 1% AEP flood level and to the satisfaction of EPA Victoria and the relevant drainage authority A flood emergency management plan including consideration of scheduling works Bunding of the tunnel portals to an appropriate level during the construction phase. 	WDA draft EPR supported as practices in accordance with the cited EPA publications will provide management of runoff and disturbance of contaminated soil.	Surface V The CEM Surface V Best accol and S Mana distur Main stora Loca tunne the s A floo scher Bund cons The sub-
SWP8	Construction	Use of non-potable water Where available and practicable, of suitable quality, and meets health and safety requirements, stormwater, recycled water, groundwater inflow to tunnels or other water sources must be used in preference to potable water for construction activities, including concrete mixing and dust control.	EPR supported.	Version 6 EPR supported.	Use of ne Where av and safet inflow to t potable w dust cont
SWP9	Construction	Bank stability Develop and implement appropriate measures to maintain bank stability of Kororoit Creek, Stony Creek, Maribyrnong River, Moonee Ponds Creek during construction to the satisfaction of Melbourne Water and in consultation with relevant local councils.	EPR supported.	Version 6 EPR supported.	Bank sta Develop a stability o Ponds Cr Water an

nitoring program is to be used to inform the surface water agement plan (SWP7)

tainment design

ne capacity of the stormwater drainage system for all new d ramps to contain hazardous spills at or prior to every er outlet, to the satisfaction of EPA Victoria, and develop es to be implemented in response to a hazardous spill.

ment of chemicals, fuels, and hazardous materials

chemical and fuel storage on site and store hazardous and dangerous goods in accordance with the relevant s and requirements. Comply with the Victorian WorkCover and Australian Standard AS1940 Storage Handling of ble and Combustible Liquids and EPA Victoria publications 480 nental Guidelines for Major Construction Sites and 347 Guidelines

and implement management measures for dangerous es, including:

ting and maintaining a dangerous goods register

osing of any hazardous materials, including asbestos, in rdance with Industrial Waste Management Policies, regulation relevant guidelines

ementing requirements for the installation of bunds and autions to reduce the risk of spills

eloping contingency and emergency response plans to handle and chemical spills, including availability of on-site ocarbon spill kits.

Water Management during construction

IP must include a sub-management plan that sets out the Nater Management requirements and methods for:

practice sediment and erosion control and monitoring, in rdance with EPA Victoria publications 275 (1991), 480 (1996), 960 (2004)

gement of potential surface water run-off impacts and any

bance of contaminated bed soil associated with construction

tenance of existing flow paths, drainage lines and floodplain ige

tion and bunding of any contaminated material (including el spoil and stockpiled soil) to the 1% AEP flood level and to atisfaction of EPA Victoria and the relevant drainage authority

od emergency management plan including consideration of duling works

ling of the tunnel portals to an appropriate level during the truction phase.

management plan is to be informed by SWP4.

on-potable water

vailable and practicable, of suitable quality, and meets health ty requirements, stormwater, recycled water, groundwater tunnels or other water sources must be used in preference to vater for construction activities, including concrete mixing and rol.

ability

and implement appropriate measures to maintain bank of Kororoit Creek, Stony Creek, Maribyrnong River, Moonee reek during construction to the satisfaction of Melbourne d in consultation with relevant local councils.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
SWP10	Detailed design, construction	Waterway modifications Design and undertake modifications to all waterways in a way to mitigate the effects of changes to flow and minimise, to the extent practicable, the potential for erosion, sediment plumes and exposure of contaminated material during construction to the satisfaction of Melbourne Water and in consultation with relevant local councils. Maximise the visual and aesthetic amenity of the waterways having regard to relevant strategies, policies and plans for that waterway and in consultation with Melbourne Water.	Waterway modifications Design and undertake modifications to all waterways in a way to mitigate the effects of changes to flow and minimise, to the extent practicable, the potential for erosion, sediment plumes and exposure of contaminated material during construction to the satisfaction of Melbourne Water and in consultation with relevant local councils. Maximise the visual and aesthetic amenity of the waterways having regard to relevant strategies, policies and plans for that waterway and in consultation with Melbourne Water and relevant Councils.	IAC recommendation supported.	Waterway Design an mitigate th practicable contamina Melbourne Maximise regard to in consulta
SWP11	Detailed design, pre- construction, construction	Flood levels, flows and velocities Permanent works and associated temporary construction works must not increase flood risk (considering flood levels, flows and velocities) associated with overland flow paths to the requirements and satisfaction of Melbourne Water and in consultation with any other relevant drainage authority. Undertake modelling of the design of permanent and temporary works to demonstrate the resultant flood levels and risk profile to the requirements and satisfaction of Melbourne Water and in consultation with any other relevant drainage authority. Consider potential effects of climate change and sea level rise of 0.8m by 2100, with and without the works for both existing and proposed scenarios (for example future redevelopment in relation to Moonee Ponds Creek within the Arden – Macaulay Structure Plan area) in consultation with local councils Ensure that surface water from West Gate Tunnel Project does not encroach into underground SP AusNet electricity or gas assets.	EPR supported.	Version 6 EPR supported.	Flood leve Permanen not increa: associated satisfactio relevant d Undertake to demons requireme with any o Consider µ by 2100, v scenarios Ponds Cre consultatio Ensure tha encroach
SWP12	Detailed design	Floodplain storage capacity Maintain existing floodplain storage capacity for overland flow paths potentially impacted by the Project in consultation with Melbourne Water and any other relevant drainage authority.	EPR supported.	Version 6 EPR supported.	Floodplai Maintain e potentially Water and
SWP13	Detailed design	Tunnel portal flood riskDesign tunnel portals to exclude surface flows from external catchments during the probable maximum flood.Develop and implement measures and plans to manage flood risk to the tunnel portals. Develop operation and maintenance plans for flood protection works.	EPR supported.	Version 6 EPR supported.	Tunnel po Design tur catchment Develop a the tunnel protection
SWP14	Detailed design	Maintenance of Melbourne Water and other drainage assets Provide adequate clearances and access for ongoing maintenance of Melbourne Water and other drainage authority assets to the satisfaction of the relevant drainage authority.	EPR supported.	Version 6 EPR supported.	Maintena Provide ad Melbourne satisfactio
SWP15	Detailed design	North Yarra Main Sewer Design any proposed realignment to the North Yarra Main Sewer to the satisfaction of Melbourne Water.	EPR supported.	Version 6 EPR supported.	North Yar Design an satisfactio

/ modifications

nd undertake modifications to all waterways in a way to ne effects of changes to flow and minimise, to the extent e, the potential for erosion, sediment plumes and exposure of ated material during construction to the satisfaction of e Water and in consultation with relevant local councils.

the visual and aesthetic amenity of the waterways having relevant strategies, policies and plans for that waterway and ation with Melbourne Water and relevant Councils.

els, flows and velocities

nt works and associated temporary construction works must ase flood risk (considering flood levels, flows and velocities) of with overland flow paths to the requirements and on of Melbourne Water and in consultation with any other drainage authority.

e modelling of the design of permanent and temporary works strate the resultant flood levels and risk profile to the ents and satisfaction of Melbourne Water and in consultation other relevant drainage authority.

potential effects of climate change and sea level rise of 0.8m with and without the works for both existing and proposed (for example future redevelopment in relation to Moonee eek within the Arden – Macaulay Structure Plan area) in on with local councils

at surface water from West Gate Tunnel Project does not into underground SP AusNet electricity or gas assets.

in storage capacity

existing floodplain storage capacity for overland flow paths impacted by the Project in consultation with Melbourne d any other relevant drainage authority.

ortal flood risk

nnel portals to exclude surface flows from external ts during the probable maximum flood.

and implement measures and plans to manage flood risk to portals. Develop operation and maintenance plans for flood works.

nce of Melbourne Water and other drainage assets

dequate clearances and access for ongoing maintenance of e Water and other drainage authority assets to the on of the relevant drainage authority.

rra Main Sewer

ny proposed realignment to the North Yarra Main Sewer to the on of Melbourne Water.

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		Transport			
TP1	Detailed design	 Optimise design performance Optimise the design of the works in consultation with appropriate road management authorities as part of the detailed design process to: Minimise adverse impact on travel times for all transport modes, including walking and cycling Maintain, and where practicable, enhance the existing traffic movements at interchanges Design interchanges and intersections to meet relevant road and transport authority requirements Maintain, and where practicable, enhance pedestrian movements, bicycle connectivity, and shared use paths Develop a strategy with Public Transport Victoria to minimise impacts on buses, trams and rail and, where practicable, enhance public transport facilities and services that cross or run parallel to the alignment of the Freeway Minimise loss of car parking in consultation with relevant local councils. 	 Optimise design performance Optimise the design of the works in consultation with appropriate road management authorities, public transport authorities, Melbourne Water and local councils as part of the detailed design process to: Maintain and where practicable reduce Minimise adverse impact on travel times for all transport modes, including walking, and cycling and public transport Maintain, and where practicable, enhance the existing traffic movements at interchanges Design interchanges and intersections to achieve a level of service of D or degree of saturation of 0.9, or better, or as otherwise approved by the to meet relevant road and transport authority requirements Maintain, and where practicable, enhance pedestrian movements, bicycle connectivity, and shared use paths Actively facilitate the provision of a future shared use path link across the E-gate site between North Melbourne Railway Station and Waterfront City Develop a strategy with Public Transport Victoria to minimise impacts on buses, trams and rail and, where practicable, enhance public transport facilities and services that cross or run parallel to the alignment of the Freeway Project or are in any way affected by traffic using the Project Minimise loss of car parking in consultation with relevant local councils. 	IAC recommendation supported with amendment to clarify facilitation of active transport links with the re-designed Wurundjeri Way extension.	 Optimise t managem and local d Maint mode Maint mode Maint move Desig of D c availa road a Maint bicycl Provid betwe urban to/fror the pr betwe Devel impac public the all using Minim cound
TP2	Pre- construction, construction, operation	Traffic monitoringUndertake traffic monitoring in selected streets identified in consultation with the relevant Road Authority and local council pre- construction, at six monthly intervals during construction, and up to two years after construction is complete. Implement local area traffic management works in consultation with the local relevant councils.Develop and implement traffic performance management to monitor conditions along the West Gate Freeway during construction. Real time traffic information must be provided to drivers on the approach to the West Gate Freeway.	EPR supported.	Version 6 EPR supported.	Traffic mo Undertake consultatio constructio years afte managem Develop a conditions traffic infor West Gate
TP3	Pre- construction, construction	 Traffic Management Plans Develop and implement Traffic Management Plans with measures to minimise disruption, to the extent practicable, to motor vehicle traffic including on road public transport, parking, bicycle and pedestrian movements during construction in consultation with relevant road management authorities, including: Management of any temporary or partial closure of traffic and cycle lanes, including along: Local and arterial roads, including provision for suitable routes for vehicles, cyclist and pedestrians to maintain connectivity for road and shared path users CityLink traffic lanes and ramps M1 and Footscray Road Hyde Street, Francis Street, Whitehall Street Management of any temporary diversion of pedestrian or cycle paths to provide a safe, well-sign posted alternative route and minimise impact on commuter travel times for cyclists as far as practicable 	 Traffic Management Plans Develop and implement Traffic Management Plans with measures to minimise disruption, to the extent practicable, to motor vehicle traffic including on road public transport, parking, bicycle and pedestrian movements during construction in consultation with relevant road management authorities on all roads affected by the Project, including: Management of any temporary or partial closure of traffic and cycle lanes, including but not limited to, along: Local and arterial roads, including provision for suitable routes for vehicles, cyclist and pedestrians to maintain connectivity for road and shared path users CityLink traffic lanes and ramps M1 and the M80 and Footscray Road Hyde Street, Francis Street, Whitehall Street Management of any temporary diversion of pedestrian or cycle paths to provide a safe, well-sign posted alternative route and minimise impact on commuter travel times for cyclists as far as practicable 	IAC recommendation supported with minor amendment to include Footscray Road in first dot point.	 Traffic Ma Develop a minimise of including of movement managem Managem Managem C for for for for for for hereita Managem Managem<!--</td-->

design performance

the design of the works in consultation with appropriate road ent authorities, public transport authorities, Melbourne Water councils as part of the detailed design process to:

ain and where practicable reduce travel times for all transport s, including walking, cycling and public transport

ain, and where practicable, enhance the existing traffic ments at interchanges

n interchanges and intersections to <u>achieve</u> a level of service ir degree of saturation of 0.9, <u>where practicable within the</u> <u>ble land</u>, or <u>better</u>, or as otherwise approved by the relevant and transport authority

ain, and where practicable, enhance pedestrian movements, e connectivity, and shared use paths

te evidence that functional and generous pedestrian linkages en North Melbourne Station, West Melbourne and the E-gate renewal site will be facilitated, to support pedestrian flows in North Melbourne, E-gate and Docklands Actively facilitate evision of a future shared use path link across the E-gate site en North Melbourne Railway Station and Waterfront City

op a strategy with Public Transport Victoria to minimise its on buses, trams and rail and, where practicable, enhance transport facilities and services that cross or run parallel to ignment of the-Project or are in any way affected by traffic the Project

ise loss of car parking in consultation with relevant local ils.

onitoring

e traffic monitoring in selected streets identified in on with the relevant Road Authority and local council preon, at six monthly intervals during construction, and up to two r construction is complete. Implement local area traffic ent works in consultation with the local relevant councils.

nd implement traffic performance management to monitor along the West Gate Freeway during construction. Real time rmation must be provided to drivers on the approach to the Freeway.

anagement Plans

nd implement Traffic Management Plans with measures to disruption, to the extent practicable, to motor vehicle traffic on road public transport, parking, bicycle and pedestrian ts during construction in consultation with relevant road ent authorities on all roads affected by the Project, including:

gement of any temporary or partial closure of traffic and cycle including but not limited to, along:

ocal and arterial roads, including provision for suitable routes or vehicles, cyclist and pedestrians to maintain connectivity or road and shared path users

ityLink traffic lanes and ramps

and the M80 and Footscray Road

yde Street, Francis Street, Whitehall Street

gement of any temporary diversion of pedestrian or cycle to provide a safe, well-_sign_posted alternative route and ise impact on commuter travel times for cyclists as far as cable

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		West Gate Freeway, Princes Freeway, M80, Footscray Road, Wurundjeri Way, Dudley Street, Williamstown Road, Millers Road, Grieve Parade	West Gate Freeway, Princes Freeway, M80, Footscray Road, Wurundjeri Way, Dudley Street, Williamstown Road, Millers Road, Grieve Parade, <u>Melbourne Road</u> , <u>Douglas Parade and Hyde Street</u>		A strat during West
		Restrict the number of local roads to be used for construction- related transportation to minimise impacts on amenity, in consultation with the relevant road authorities	Restrict the number of local roads to be used for construction- related transportation to minimise impacts on amenity, in consultation with the relevant road authorities		Grieve Restric
		Reinstate access to open space, community facilities, commercial premises and dwellings if disrupted, as soon as practicable	<u>Measures to minimise construction traffic on New Street, including</u> the provision of access to the Southern Portal Compound from the		related consul
		• Provide suitable parking arrangements to accommodate the construction workforce whilst minimising traffic impacts on local and arterial roads, preventing construction-related parking on local	 freeway or alternative routes approved by the road authority Reinstate access to open space, community facilities, commercial premises and dwellings if disrupted, as soon as practicable 		Measu the pro freewa
		and arterial roads or use of public car parksProvide safe access points to laydown areas and site compounds	Provide suitable parking arrangements to accommodate the construction workforce while minimising traffic impacts on local		Reinst premis
		Implement a communications strategy (as set out in the CCEP) to advise affected users, potentially affected users, relevant	and arterial roads, preventing construction-related parking on local and arterial roads or use of public car parks		Provid constr
		stakeholders and the relevant road authorities of any changes to transport conditions	 Provide safe access points to laydown areas and site compounds Implement a communications strategy (as set out in the CCEP) to 		and ar and ar
		 Maintain, where practicable, current local area traffic management measures during construction or reinstate upon completion in consultation with the relevant local councils 	advise affected users, potentially affected users, relevant stakeholders and the relevant road authorities of any changes to transport conditions		 Provid Impler advise
		Haulage of bulk material to and from the construction areas to within a two km range of the works must be via roads operated by VicRoads, CityLink or the Port Manager or, subject to obtaining	Maintain, where practicable, current local area traffic management measures during construction or reinstate upon completion in consultation with the relevant local councils		stakeh transp • Mainta
		prior agreement by the relevant road authority, other parts of the road network. The Traffic Management Plan may include Worksite Traffic	Haulage of bulk material to and from the construction areas to within a two km range of the works must be via roads operated by VicRoads, CityLink or the Port Manager or, subject to obtaining		measu consul • Haulag
		Management Plans (WTMP) for discrete components or stages of the works having the potential to impact on roads, shared used paths, pedestrian paths or public transport infrastructure.	prior agreement by the relevant road authority, other parts of the road network. The Traffic Management Plan may include Worksite Traffic		within VicRo prior a
		WTMP must address, as applicable:vehicle, bicycle and pedestrian movements;	Management Plans (WTMP) for discrete components or stages of the works having the potential to impact on roads, shared used paths,		road n The Traffic
		 public transport movements; lane, road and public transport route closures; 	wTMP must address, as applicable:		Manageme works havi
		 major traffic control devices; 	 vehicle, bicycle and pedestrian movements; public transport movements; 		WTMP mu
		traffic signal operation;	lane, road and public transport route closures;		vehicle
		• vertical and horizontal alignment;	major traffic control devices;		• public
		• drainage;	traffic signal operation;		 lane, r
		• barrier placement;	vertical and horizontal alignment;		• major
		operating conditions including speed limits;	drainage;		• traffic
		safety of the public and workers;	barrier placement;		 vertica
		events:	operating conditions including speed limits;		draina
		 signing and linemarking: 	safety of the public and workers;		Damer
		 lighting; 	• peak flows and road traffic capacity, including catering for special		 Operation operation
		property access;	events;		 Salety nook f
		 stakeholder communication and media advertising; 	signing and line marking;		 peak i events
		• timing;	lighting;		 signing
		replacement public transport services;	property access;		 lighting
		Utility Infrastructure access;	 stakenolder communication and media advertising; 		 proper
		any interface between the responsibilities and requirements of	timing; replecement public transmet consistent:		 stakeh
		Project Co, its Subcontractors and any other Authority; and	Teplacement public transport services;		• timing
		incident management.	Outiny Initiastructure access, any interface between the reasonabilities and requirements of		• replac
		Draft WTMPs must be distributed to the State, VicRoads, the road	Project Co, its Subcontractors and any other Authority: and		• Utility
		and, where the works affect public transport infrastructure, Public			• any in

tegy for maintaining the current capacity (number of lanes) peak periods for works on the following key State roads -Gate Freeway, Princes Freeway, M80, Footscray Road, ndjeri Way, Dudley Street, Williamstown Road, Millers Road, Parade, Melbourne Road, Douglas Parade and Hyde Street

ct the number of local roads to be used for constructiond transportation to minimise impacts on amenity, in Itation with the relevant road authorities

ures to minimise construction traffic on New Street, including ovision of access to the Southern Portal Compound from the ay or alternative routes approved by the road authority

tate access to open space, community facilities, commercial ses and dwellings if disrupted, as soon as practicable

le suitable parking arrangements to accommodate the ruction workforce while minimising traffic impacts on local rterial roads, preventing construction-related parking on local rterial roads or use of public car parks

le safe access points to laydown areas and site compounds

ment a communications strategy (as set out in the CCEP) to affected users, potentially affected users, relevant nolders and the relevant road authorities of any changes to ort conditions

ain, where practicable, current local area traffic management ures during construction or reinstate upon completion in Itation with the relevant local councils

ge of bulk material to and from the construction areas to a two km range of the works must be via roads operated by ads, CityLink or the Port Manager or, subject to obtaining agreement by the relevant road authority, other parts of the network.

Management Plan may include Worksite Traffic ent Plans (WTMP) for discrete components or stages of the ing the potential to impact on roads, shared used paths, paths or public transport infrastructure.

ust address, as applicable:

e, bicycle and pedestrian movements;

transport movements;

road and public transport route closures;

traffic control devices;

signal operation;

al and horizontal alignment;

ige;

placement;

ting conditions including speed limits;

of the public and workers;

flows and road traffic capacity, including catering for special

g and line marking;

g;

rty access;

nolder communication and media advertising;

ement public transport services;

Infrastructure access;

terface between the responsibilities and requirements of

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomm
		Transport interface parties for their comment.	• incident management. Draft WTMPs must be distributed to the State, VicRoads, the road safety auditor, any other relevant road authority for any affected Roads and, where the works affect public transport infrastructure, Public Transport interface parties for their comment.		Project • incidet Draft WTN safety aud and, wher Transport
TP4	Pre- construction, construction	Public transport Develop and implement measures to minimise to the extent practicable disruption during construction to all impacted railway lines, tram and bus routes in consultation with VicTrack, Yarra Trams and Metro Trains Melbourne and to the satisfaction of Public Transport Victoria.	EPR supported.	Version 6 EPR supported.	Public tra Develop a disruption bus routes Melbourne
TP5	Detailed design, construction	Rail operations Minimise disruption to the rail infrastructure and operations in consultation with the relevant rail infrastructure stakeholders.	EPR supported.	Version 6 EPR supported.	Rail oper Minimise consultation
TP6	Detailed design, construction	Design standards Design new works (including shared use facilities) in accordance with applicable design standards and undertake independent road safety audits after each stage of detailed design and pre-opening and immediately following the opening of the Freeway.	Design standards Design new works (including shared use facilities) in accordance with applicable design standards and undertake independent road safety audits after each stage of detailed design and pre-opening and immediately following the opening of the <u>Freeway works</u> . Standards for the Veloway design must be prepared in consultation with VicRoads, the City of Melbourne and Bicycle Network and include a minimum clear width of 5.0 metres.	IAC recommendation supported with modifications to the width of the veloway from 5.0 metres (minimum clear width) to 4.0 metres (between hand rails).	Design st Design ne applicable audits afte immediate Standards with VicRo Bicycle Ne operating
TP7	Pre- construction, construction	 Traffic Management Liaison Group A Traffic Management Liaison Group (TMLG) must be established and convene prior to the commencement of any works that may impact on existing roads, paths or public transport infrastructure. The TMLG must include representatives from the State, VicRoads and Project Co. Other relevant agencies as nominated by the State may be included as required including relevant local councils. The TMLG will be a forum for exchange of information and discussion of issues associated with Traffic Management Plans. The TMLG must be provided with the Traffic Management Plans, details as to timing of implementation, information about construction traffic monitoring conducted by Project Co, and other reports as relevant. The TMLG must meet at least monthly until the completion of construction. 	EPR supported.	Version 6 EPR supported.	Traffic Ma A Traffic Ma convene p existing ro include re Other rele required in The TMLC of issues a The TMLC details as traffic mor relevant. The TMLC construction
TP8	Construction	River navigation Navigational channel of Maribyrnong River must not be impeded without approval of the relevant authority.	EPR supported.	Version 6 EPR supported.	River nav Navigatior without ap
TP9	Construction	Melbourne Metro Rail Authority interface Consult and coordinate with Melbourne Metro Rail Authority to manage and where possible minimise, cumulative impacts of construction vehicles.	EPR supported.	Version 6 EPR supported.	Melbourn Consult at and where vehicles.
		Waste management			
WMP1	Detailed design, construction, <u>operation</u>	 Waste management Develop and implement management measures for waste (excluding soils) minimisation during construction and operation in accordance with the <i>Environment Protection Act 1970</i> waste management hierarchy and management options, to address: Litter management Construction and demolition wastes including, but not limited to, washing residues, slurries and contaminated water Organic wastes 	EPR supported.	Version 6 EPR supported.	Waste ma Develop a soils) mini with the E hierarchy • Litter • Const washi • Organ

ect Co, its Subcontractors and any other Authority; and ent management.

MPs must be distributed to the State, VicRoads, the road ditor, any other relevant road authority for any affected Roads re the works affect public transport infrastructure, Public t interface parties for their comment.

ansport

and implement measures to minimise to the extent practicable or during construction to all impacted railway lines, tram and s in consultation with VicTrack, Yarra Trams and Metro Trains e and to the satisfaction of Public Transport Victoria.

ations

disruption to the rail infrastructure and operations in ion with the relevant rail infrastructure stakeholders.

tandards

ew works (including shared use facilities) in accordance with e design standards and undertake independent road safety er each stage of detailed design and pre-opening and ely following the opening of the works.

s for tThe Veloway design must be prepared in consultation oads, the City of Melbourne, <u>Maribyrnong City Council</u> and etwork and include a minimum clear width of 5.0 metres an path width (between hand rails) of 4.0 metres.

lanagement Liaison Group

Management Liaison Group (TMLG) must be established and prior to the commencement of any works that may impact on oads, paths or public transport infrastructure. The TMLG must epresentatives from the State, VicRoads and Project Co. evant agencies as nominated by the State may be included as including relevant local councils.

G will be a forum for exchange of information and discussion associated with Traffic Management Plans.

G must be provided with the Traffic Management Plans, s to timing of implementation, information about construction nitoring conducted by Project Co, and other reports as

G must meet at least monthly until the completion of ion.

vigation

nal channel of Maribyrnong River must not be impeded pproval of the relevant authority.

ne Metro Rail Authority interface

nd coordinate with Melbourne Metro Rail Authority to manage e possible minimise, cumulative impacts of construction

anagement

and implement management measures for waste (excluding nimisation during construction and operation in accordance *Environment Protection Act 1970* waste management options, to address:

management

struction and demolition wastes including, but not limited to, ning residues, slurries and contaminated water

nic wastes

No.	Phase	WDA Version 6	IAC recommendation	Minister's assessment	Recomme
		Inert solid wastes.			Inert s

21 November 2017

ended wording

solid wastes.