



WEST GATE TUNNEL PROJECT

Independent Reviewer and Environmental Auditor
Final Report for Submission to the Minister for Planning –
September 2022 to February 2023



WEST GATE TUNNEL PROJECT

Independent Reviewer & Environmental Auditor

Final Audit Report for Minister of Planning

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EXECUTIVE SUMMARY

Introduction

This report summarises the environmental audit findings of the Independent Reviewer and Environmental Auditor (IREA) for the West Gate Tunnel Project (the Project) in Melbourne, Victoria. It covers the six-monthly audit of the Environmental Management Strategy (the Strategy), quarterly Construction Environmental Management Plan (CEMP) audits, and monthly audits of the Worksite Environmental Management Plans (WEMP) which occurred during the construction period from September 2022 to February 2023.

This is the tenth IREA Minister's Report, which is required to be issued every six months to the Victorian Minister for Planning and made available to the public on the Project website.

Construction on the Project has been underway since March 2018. Recent activities have been concentrated on the widening of the West Gate Freeway, operation of the tunnel boring machines and structural works for the various bridges along the eastern and western portions of the Project.

Overview of Findings

Overall, Project Co was found to be meeting their obligations under the Strategy. No adverse findings were raised with Project Co during the Strategy audit.

Project Co / D&C Subcontractor is generally compliant with the Environmental Performance Requirements (EPR).

During this reporting period the IREA approved two revised environmental management plans, namely the Air Quality Management Plan and the Tree Management Plan.

The IREA's future auditing program will continue to focus on how Project Co and the D&C Subcontractor demonstrate compliance with Project environmental requirements. Project Co and the D&C Subcontractor have continued to provide evidence to close out audit findings, including one CEMP finding (one non-conformance), one WEMP finding (one opportunity for improvement) and one EPR finding (one opportunity for improvement) closed out since the previous reporting period.

A summary of the findings raised during this reporting period is below.

Environmental Management Strategy

Project Co is generally meeting their obligations under the Strategy.

No adverse findings were raised during this reporting period.

No findings remain open from previous reporting periods.

These findings are detailed further in Section 3.1 of the report.

Environmental Performance Requirements

During the last six-month reporting period the IREA formally audited 48 EPRs. The majority of EPRs audited during the reporting period were deemed compliant. The findings raised consisted of:

- No non-conformances were raised during this audit period.
- One opportunity for improvement was raised.
- Three observations were raised during this audit period relating to greenhouse gas emissions, noise and vibration and social and community.

One non-conformance was closed against the Groundwater Management Measures (GWP1) from previous reporting periods and three opportunities for improvement were closed against Business (BP3), Greenhouse Gas Emissions (GGP2), Groundwater (GWP3). In total there are 11 findings remaining open at the end of this reporting period, comprising of 11 opportunities for improvement. The IREA will continue to work with Project Co/D&C Subcontractor to close out any outstanding findings.

A full list of EPR findings raised and the status of previous findings is detailed in Section 3.2. Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Construction Environmental Management Plan

The last six-month reporting period focused on auditing a range of CEMP elements and subplans.

The CEMP audit findings for the November 2022 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Two observations were raised.

The CEMP audit findings for the February 2023 quarterly audit is summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- One observation was also raised.

Seven opportunities for improvement were closed from previous reporting periods against the Construction Environmental Management Plan (CEMP), Construction Noise and Vibration Management Plan (CNVMP), Business Involvement Plan (BIP), Lighting Management Plan (LMP) and Ground Movement Management Plan (GMMP). In total there are 11 findings remaining open at the end of this reporting period, comprising 11 opportunities for improvement. The IREA will continue to work with Project Co / D&C Subcontractor to close out any outstanding findings.

Details of the CEMP findings are listed in Section 3.3.

Worksite Environment Management Plans

During the reporting period six WEMP audits were conducted. A total of two findings were raised in this reporting period. These consisted of:

- No non-conformances.
- No opportunities for improvement.
- Two observations.

The D&C Subcontractor has maintained their system processes and environmental management on site, resulting in the reduction of new audit findings from ten findings in the previous reporting period to two during this reporting period. Fourteen opportunities for improvement and one non-conformance were closed during this reporting period. In total there are five WEMP audit findings remaining open, comprising of five opportunities for improvement.

The WEMP findings are further detailed in Section 3.4.

Conclusions

The findings arising from the reporting period by the IREA have not identified any immediate significant or material risks to the environment.

Implementation of the EPRs was found to be generally compliant, with one opportunity for improvement and three observations during the reporting period.

- One opportunity for improvement was raised relating to groundwater.

Twenty-six audit findings from previous reporting periods were closed, including seven CEMP findings (seven opportunities for improvement), 15 WEMP findings (one non-conformance and 14 opportunities for improvement) and four EPR findings (one non-conformance and three opportunities for improvement). In total there are 27 findings remaining open at the end of this reporting period, comprising 27 opportunities for improvement. The IREA will continue to work with Project Co/D&C Subcontractor to close out any outstanding findings.

West Gate Tunnel Project

A full list of EPR findings raised and the status of previous findings is detailed in Section 3.2. Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Progress in closing out audit findings has remained steady. The IREA encourages continued efforts by Project Co and the D&C Subcontractor to close out remaining open audit findings.

GLOSSARY OF TERMS & ABBREVIATIONS

| | |
|-----------|---|
| AQMP | Air Quality Management Plan |
| BIP | Business Improvement Plan |
| BOM | Bureau of Meteorology |
| CPBJH | Design and Construction Subcontractor (D&C Subcontractor) |
| CEMP | Construction Environmental Management Plan |
| CNVMP | Construction Noise and Vibration Management Plan |
| CD | Certified Design |
| CHMP | Cultural Heritage Management Plan |
| CSM | Conceptual Site Model |
| EES | Environment Effects Statement |
| EMF | Environmental Management Framework |
| EMP | Energy Management Plan |
| EMS | Environmental Management Strategy |
| EPA | Environment Protection Authority |
| EPR | Environmental Performance Requirements |
| FFMP | Flora and Fauna Management Plan |
| GHG | Greenhouse Gas |
| GMMP | Ground Movement Management Pan |
| GWMP | Groundwater Management Plan |
| HMP | Heritage Management Plan |
| HSMP | Hazardous Substances Management Plan |
| HPAMP | Historic Places and Archaeological Management Plan |
| IREA | Independent Reviewer and Environmental Auditor |
| ISCA | Infrastructure Sustainability Council Australia |
| LMP | Lighting Management Plan |
| JASANZ | Joint Accreditation System of Australia and New Zealand |
| NML | Noise Management Levels |
| NYMS | North Yarra Main Sewer |
| PPP | Public Private Partnership |
| PSA | Planning Scheme Amendment |
| PSR | Project Scope & Requirements (Project Agreement or Contract) |
| SAQPs | Sampling Analysis and Quality Plans |
| SEPP | State Environment Protection Policy |
| SSMP | Soil and Spoil Management Plan |
| TBM | Tunnel boring machine |
| WEMP | Worksite Environment Management Plan |
| WGTP MTIA | West Gate Tunnel Project Major Transport Infrastructure Authority (the State) |
| WMP | Water Management Plan |

| | |
|-------|-----------------------|
| WstMP | Waste Management Plan |
|-------|-----------------------|

1 INTRODUCTION

1.1 Purpose of this Report

This report summarises the Independent Reviewer and Environmental Auditor (IREA) audit findings from the tenth six-month period of construction of the West Gate Tunnel Project (the Project) in Melbourne, Victoria.

The IREA has been jointly appointed by West Gate Tunnel Project, Major Transport Infrastructure Authority (WGTP MTIA) and Transurban WGT Co Pty (Project Co) to provide independent oversight of design engineering, construction, program and environmental performance of the Project. The IREA undertakes audits, review of documentation and site surveillance of Project activities to assess whether conformance with Project requirements is being achieved. This includes the Environmental Performance Requirements (EPR) issued by the Minister for Planning in December 2017.

During the reporting period the IREA audited Project Co (responsible for delivering the Project and future operator of the road) to determine conformance with the Environmental Management Strategy (the Strategy). Similarly, the IREA has audited the CPB John Holland Joint Venture (D&C Subcontractor) to determine conformance with the Construction Environmental Management Plan (CEMP), EPRs, and Worksite Environment Management Plans (WEMP).

Prior to starting construction, the IREA reviewed the Strategy and approved the CEMP (and associated subplans). The WEMPs are approved by Project Co. The audits considered in this report are identified under the Project's EPRs (specifically EMP3) required by the Project's Planning Scheme Amendment (PSA) (GC93) and the Project Agreement between the State of Victoria (represented by WGTP MTIA) and Project Co.

The IREA is required to provide a six monthly "audit report" for submission to the Minister for Planning which must be made available to the public (this report).

1.2 Project Background

1.2.1 West Gate Tunnel Project

On 11 December 2017, the Victorian State Government (the State), as part of a Public Private Partnership (PPP), entered into contracts with Project Co for the construction and operation of the Project.

Project Co is responsible for the design, partial financing, construction, tolling, operation and maintenance of the Project. Project Co has ultimate responsibility to the State for delivering the Project to the requirements in the contract and for ensuring the D&C Subcontractor fulfils their obligations including the EPRs.

The D&C Subcontractor has been contracted to complete the detailed design and construction of the Project.

The WGTP MTIA is an administrative office established to manage the delivery of the Project in accordance with the contracts on behalf of the State Government. The Project has three components:

1. West Gate Freeway – upgrade and widening works between the M80 Ring Road interchange and Princes Freeway to the southern portals of the tunnels, including connections to Grieve Parade, Millers Road, Williamstown Road, Hyde Street, and the West Gate Bridge.
2. Twin tunnels – two tunnels, one inbound and one outbound, under Yarraville catering for three lanes between the southern and northern portals and connecting to the new bridge over the Maribyrnong River. The outbound tunnel will be approximately 4.0 kilometres long and the inbound tunnel will be approximately 2.8 kilometres long. A tunnel ventilation structure will be located at each exit portal.
3. Port, CityLink, and city connections – connects from the northern tunnel portal to the central city and includes the Maribyrnong River crossing, connections to the Port of Melbourne, elevated roads along Footscray Road, and connections to CityLink and the north west of the central city. Connections are also provided to both sides of the Port of Melbourne via MacKenzie Road and Appleton Dock Road. A widened Wurundjeri Way is connected to Dynon Road.

Early (preparatory) works started in December 2017 in preparation for construction. This included for instance, low environmental impact works such as completion of environmental surveys and investigations required prior to construction start. The Project started full construction in March 2018 on approval of the CEMP. Details on the construction progress over the audit period are described in Section 2.3.1

A publicly accessible Project Information Centre located on Whitehall Street in Yarraville (known as the Pivot site) is usually open to the public. This Project Information Centre includes interactive displays, printed information packs and is staffed during the day by members of the D&C Subcontractor Communications Team. There are a number of ways the public can engage with the Project, including:

- Visiting the Project website at <http://westgatetunnelproject.vic.gov.au/>
- Sending the Project a private message on Facebook Messenger
- Contacting the Project call centre on 1800 105 105 or email info@wgta.vic.gov.au.

1.2.2 Planning and Environment Approvals

The Project was declared 'public works' under the *Environment Effects Act 1978* in December 2015, requiring the preparation of an Environment Effects Statement (EES) to inform the Minister for Planning's assessment of the environmental effects of the Project. The EES was publicly exhibited in late May 2017 and public hearings undertaken between mid-August and late September 2017. The Minister for Planning publicly released his Assessment on 27 November 2017 to complete the EES process – concluding that the Project would deliver substantial transport and related benefits.

Three key (primary) approvals have been granted for the Project under Victorian legislation, including:

- Planning Scheme Amendment (PSA) and Incorporated Document issued by the Victorian Minister for Planning requires the project to be constructed and operated according to the Minister's requirements. The Minister approved the project under PSA GC65 on 7 December 2017. This PSA was revoked by Parliament on 7 March 2018 and remade with PSA GC93 on 8 March 2018. The PSA has been incorporated into six separate local Planning Schemes: Brimbank, Hobsons Bay, Maribyrnong, (City of) Melbourne, Port of Melbourne and Wyndham.
- Works Approval issued by the Victorian Environment Protection Authority (EPA) for design and construction of the tunnel ventilation structures.
- Cultural Heritage Management Plan (CHMP) 14562 issued by Aboriginal Victoria for works potentially affecting known and potential areas of Aboriginal Cultural Heritage Significance. CHMP 14562 amended on 4 April 2018 and 28 February 2020.

These approvals include a range of obligations and conditions, including the PSA which requires the Project to be carried out in accordance with the approved "*West Gate Tunnel Project Environmental Performance Requirements, December 2017*". The EPRs define the project-wide environmental outcomes that must be achieved during design, construction and operation of the Project (refer Appendix A for a summary list of these EPRs and the Project website for a full version –

<http://westgatetunnelproject.vic.gov.au/about/keytopics/planning-approvals>).

The Environmental Management EPRs set out the following requirements:

- EPR EMP1 requires the preparation of an Environmental Management Strategy (the Strategy) to provide an overarching framework to address environmental requirements including relevant environmental laws, key approvals, approval conditions and the EPRs.
- EPR EMP2 requires the preparation and implementation of a CEMP, Worksite Environmental Management Plan (WEMP), Operational Environmental Management Plan (OEMP) and other plans as required by the EPRs in accordance with the Strategy.
- EPR EMP3 requires the appointment of an Independent Reviewer and Environmental Auditor (the IREA) to ensure compliance with the Strategy and EPRs and conduct compliance audits of the approved Strategy, CEMP and WEMPs. The WGTP MTIA must forward the audit reports to the Minister for Planning and other approval agencies as appropriate.

The EPRs set standards for the Project and are put in place to mitigate any adverse local effects of the Project on people and the environment. The EPRs have been incorporated into the Project Agreement between the State and Project Co and are included in the subcontract between Project Co and the D&C Subcontractor.

On 1 July 2021, the new *Environment Protection Act 2017* came into force. The “Compliance Code for Victoria’s Big Build Projects” (EPA Publication 1998, June 2021) applies to the Project and provides practical guidance on how to comply with specific duties and obligations under the *Environment Protection Act 2017* and *Environment Protection Regulations 2021*.

The relationship between the various Project parties and key planning and environment documents, including the Strategy, are summarised in Figure 1 below. This diagram shows the role of the Minister for Planning and other regulatory authorities in issuing approvals for the Project while continuing their role as regulator (blue boxes). These requirements, which include regulatory approvals and EPRs, are then incorporated into a series of Project Agreements (contracts) between WGTP MTIA (representing the State of Victoria), Project Co, and the D&C Subcontractor. Project Co delegate the direct responsibility for delivering these environmental requirements to the D&C Subcontractor via the Strategy.

The Strategy lists the Project environmental requirements and minimum requirements for both Project Co and the D&C Subcontractor. In the case of the D&C Subcontractor, this includes the requirements to develop environmental documentation such as a CEMP which outlines how environmental requirements will be met during design and construction, and WEMPs, which are used on the construction site as a practical guide to manage environmental issues. The D&C Subcontractor is also required to maintain an Environmental Management System that complies with the international standard ISO14001 Environmental Management Systems. This requires the D&C Subcontractor to develop and maintain various management systems, procedures and processes that facilitate continual improvements in environmental management.

The responsibility of WGTP MTIA, Project Co and the D&C Subcontractor for delivery of the environmental management framework is summarised in Figure 2. The figure also shows how environmental requirements are incorporated into design and construction documentation. Project Co is responsible for the preparation and implementation of the Strategy in accordance with EPR EMP1. The obligation for the preparation and implementation of the CEMP (including subplans), WEMP and any other project plans required to achieve the EPRs is the responsibility of the D&C Subcontractor. Design and construction documentation is prepared by the D&C Subcontractor in accordance with relevant environmental requirements and EPRs.

Construction on the Project commenced in March 2018 following the approval of the Strategy by the Minister for Planning and the CEMP (and subplans) by the IREA and WGTP MTIA. Further information on the Strategy, CEMP, WEMP, and the audit and review processes is provided in the following sections.

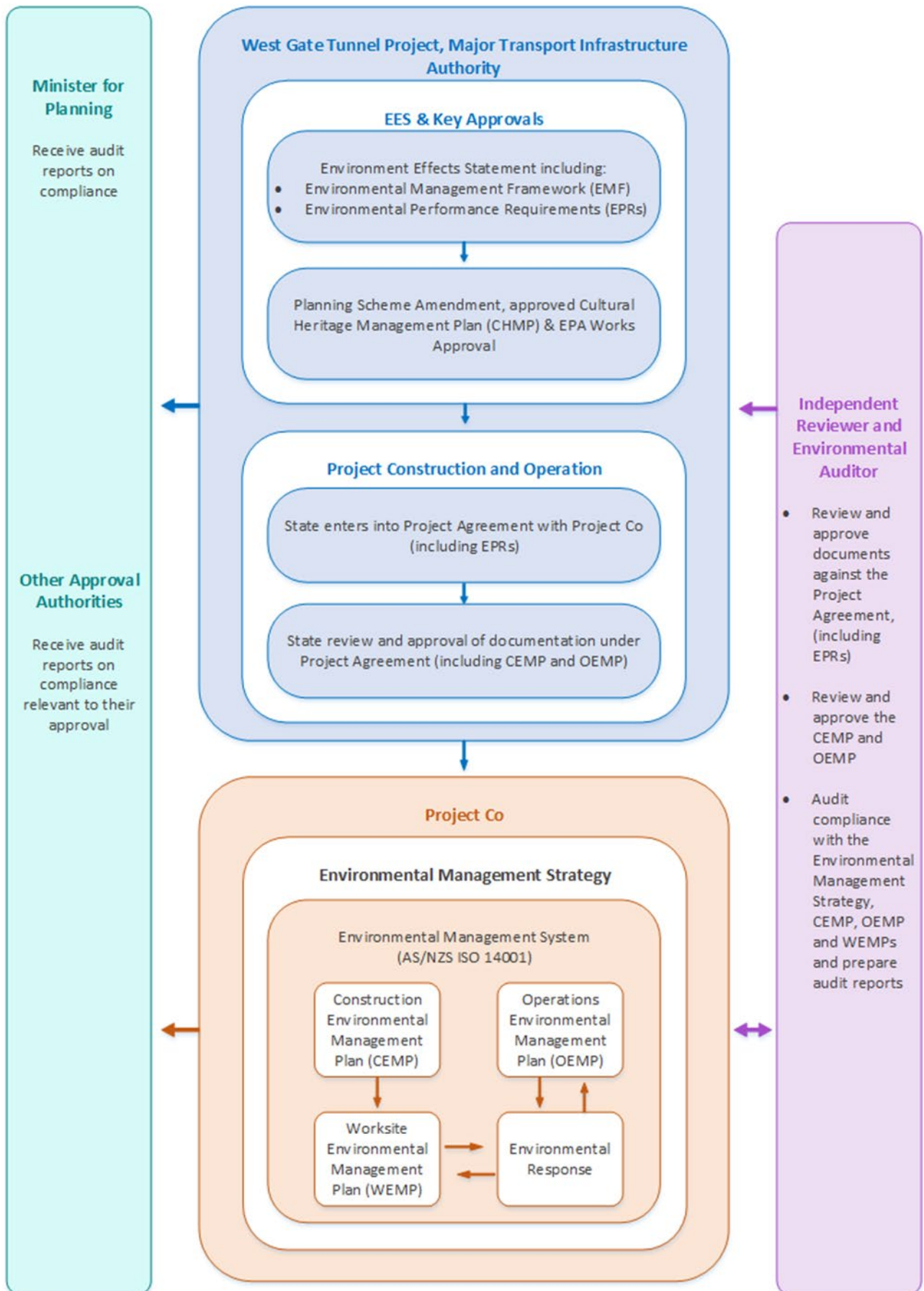


Figure 1 – Governance Framework for the Project Environmental Management Strategy (adapted from Strategy 2018)

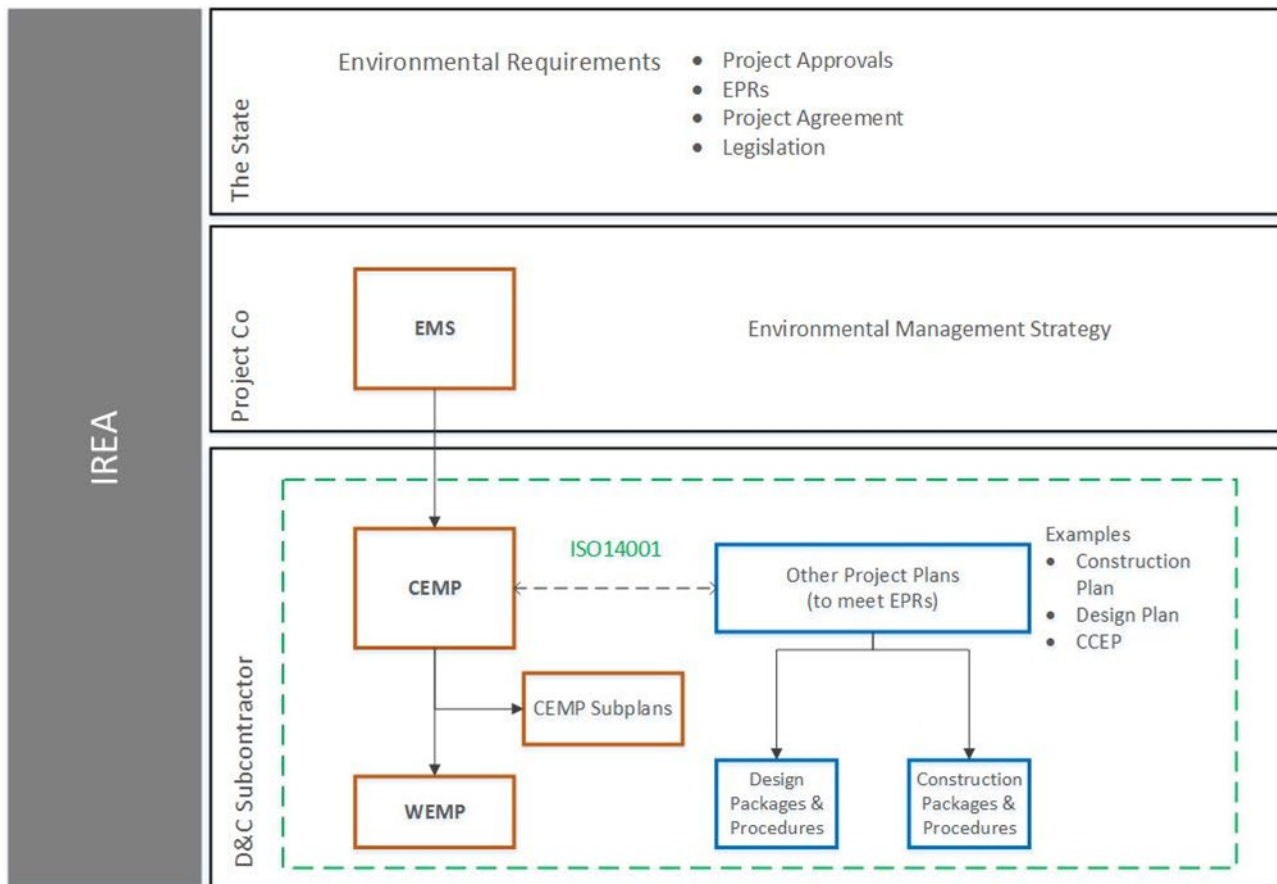


Figure 2 – Relationship between environmental management framework and Project design and construction documentation

1.2.3 Environmental Management Strategy

The Strategy provides an overarching framework to address all environmental requirements and manage environmental outcomes for the Project. Project Co is responsible for ensuring compliance with the Strategy which sets out the framework for delivering and complying with the EPRs, CEMP and other environmental requirements.

The Strategy was developed in early 2018, finalised on 31 January 2018, and approved by the Minister for Planning on 20 February 2018 (under PSA GC65). It was prepared in consultation with councils and other key stakeholders and reviewed by the IREA. PSA GC65 was revoked by the Parliament of Victoria on 7 March 2018, a new PSA (PSA GC93) was approved by the Minister for Planning, including re-approval of the Strategy by the Minister for Planning on 8 March 2018 in exactly the same form.

The Strategy outlines the Project's overall Environmental Management System, including responsibilities shared by the WGTP MTIA, Project Co, and the D&C Subcontractor. The Strategy is consistent with the Australian Standard for Environmental Management Systems (AS/NZ ISO 14001), which includes, but is not limited to project legal requirements, environmental management documents, roles and responsibilities, communication requirements, reporting, auditing, and processes for evaluating compliance. It is designed to provide an overarching framework to address the EPRs, which are largely delegated to the D&C Subcontractor to deliver (via the CEMP and Design Management Plans).

1.2.4 Construction Environmental Management Plan

The D&C Subcontractor's CEMP and subplans were developed in March 2018 and approved by the IREA and WGTP MTIA for implementation. The CEMP outlines how the D&C Subcontractor will achieve the environmental requirements for the construction phase of the Project. This includes requirements outlined under the legislation (including permits and approvals), the Project EPRs, and requirements set out under

the Project Agreement. The CEMP includes control measures for implementation during construction in order to manage, minimise or avoid environmental impacts in carrying out construction activities. Table 1 lists the CEMP and those subplans that have been developed to manage environmental risk associated with D&C Subcontractor activities and to address the requirements of EPRs, and status at the end of February 2023:

Table 1 – Status of CEMP and subplans¹

| Plan | Update status |
|--|-----------------------|
| Construction Environmental Management Plan, Rev 10 – 11 December 2019 | Rev 17 - reviewed |
| Water Management Plan, Rev 10 – 22 October 2019 | Rev 13 – reviewed |
| Flora and Fauna Management Plan, Rev 17 – 31 May 2021 | Rev 19 – reviewed |
| Construction Noise and Vibration Management Plan, Rev 10 – 15 January 2020 | Rev 13 - reviewed |
| Groundwater Management Plan, Rev 16 – 28 April 2022 | Rev 17 – reviewed |
| Heritage Management Plan, Rev 10 - 28 January 2022 | Rev 11 – reviewed |
| Waste Management Plan, Rev 11 – 31 March 2020 | Rev 14 – reviewed |
| Energy Management Plan, Rev 12 – 4 February 2021 | Rev 17 - under review |
| Hazardous Substances Management Plan, Rev 11 – 20 October 2021 | Rev 13 – reviewed |
| Lighting Management Plan, Rev 13 – 13 January 2022 | Rev 14 – reviewed |
| Soil and Spoil Management Plan, Rev 12 - 4 August 2020 | Rev 15 – under review |
| Air Quality Management Plan, Rev 14 - 10 June 2022 | Rev 15 – reviewed |
| Ground Movement Management Plan, Rev 9 - 8 July 2020 | Rev 11 – reviewed |
| Tree Management Plan, Rev 0* - 22 November 2022 | Current |

* Tree Management Plan was previously an appendix of the Flora and Fauna Management Plan (Revision 8)

These sub plans do not address the entire scope of all EPRs for the Project. The CEMP makes reference to a suite of other management plans which are required to demonstrate how these and other EPRs will be complied with e.g. Interface Management Plan, Business Involvement Plan, Design Management Plan, Construction Management Plan, Communications and Community Engagement Plan (CCEP), Construction Communications and Community Engagement Plan (CCCEP). The CEMP (and auditing process) is the main framework document used to audit conformance with the Project EPRs (noting it delegates these requirements to other parts of the D&C Subcontractor Management Systems).

1.2.5 Worksite Environmental Management Plans

The D&C Subcontractor's WEMPs are prepared in order to manage discrete construction stages or work packages (by type) that may have an adverse impact on the environment. The WEMPs are subsidiary to the CEMP and are implemented at specific worksites to minimise potential impacts of construction activities on the environment and community. Each WEMP will include a map showing the location and scope of works to be managed and include environmental management measures (controls) required to be implemented. The

¹ Subplan revisions listed in left column are the latest approved revisions by the IREA and the State.

WEMPs are for use by site personnel, consultants, and subcontractors, and a copy of the relevant WEMP is to be displayed at each site compound. Some EPRs require engagement with regulators (including Councils) where it is considered appropriate e.g. when Council land is affected.

1.3 Role of the IREA

The IREA was jointly appointed by WGTP MTIA and Project Co on 30 May 2017 to provide independent oversight of design engineering, construction, and environmental performance of the Project. The IREA undertakes audits and surveillance of Project activities to assess whether compliance with the Project Documents is being achieved. This includes EPR EMP3 which requires the IREA to complete environmental audits of conformance with the approved Strategy (six-monthly), CEMP (quarterly) and WEMPs (monthly).

The IREA started work on the Project in late 2017, through review of design and construction packages associated with “early works” (limited to low impact investigations and site set up), site surveillance of early works, and reviews of draft environmental management documentation.

Following Financial Close and the issuing of key approvals, the IREA and WGTP MTIA approved the CEMP (including subplans) prior to construction starting in March 2018. The IREA and WGTP MTIA are also responsible for reviewing subsequent revisions of the CEMP and subplans.

With construction well underway, the IREA is responsible for undertaking a number of activities, described in the following sections.

1.3.1 Regular Site Inspections / Surveillance

The IREA undertakes regular inspections of the construction site (at least daily). IREA representatives are based on site in each of the three construction zones – tunnels, east, and west. The surveillance process is not the same as a formal audit as it may only address (in one inspection) part of an EPR. This information is made available to the D&C Subcontractor and summarised in monthly reports by the IREA. This surveillance assists the IREA in identifying key issues and risks which is used to inform future surveillance and auditing effort. These inspections are designated by “CS” in Appendix A, which summarises the activities that the IREA has undertaken over the last six months in relation to checking compliance with the EPRs. This shows that while not every EPR is formally “audited” by the IREA every day, it is subject to regular surveillance.

1.3.2 Design and Construction Documentation Review

The IREA reviews all design and construction packages (designated “DR” and “CR” in Appendix A). This includes, but is not limited to, reviews of documents such as design drawings, technical information packages, design packages (outlining the basis of design), construction packages, and construction procedures. These documents are reviewed by one or more representatives of the IREA considered a specialist in their field e.g. hydrogeologist, bridge engineer, ecologist. The IREA reviews these documents against all Project environmental requirements. These reviews are sent to all Project parties for consideration and action (by the D&C Subcontractor). The IREA is required to certify design packages which means that these are not signed off until the environmental requirements are addressed. Construction packages are reviewed by the IREA and checked for compliance on site during site surveillance (refer Section 1.3.1). The outcomes of these reviews do not represent a formal audit but can provide (in part or in full) inputs into the quarterly CEMP audit which is the formal mechanism for auditing and reporting on EPR conformance.

1.3.3 Management Plan Review

The IREA is responsible for reviewing and/or approving management plans and documentation (designated “MP” in Appendix A). In approving the CEMP and subplans required prior to construction start (in March 2018), the IREA has checked compliance with the EPR linked to these CEMP subplans. Though not a formal audit, these reviews are documented in the EPR compliance table in Appendix A as they go some way to demonstrating conformance. The IREA has also reviewed a number of other plans that do not necessarily need to be included in the CEMP but remain a requirement of the EPR, such as the CCEP. The review process for these plans is similar to the process used for design and construction packages, whereby the

IREA's comments are documented and the D&C Subcontractor is obliged to address these in subsequent revisions of the plan before it is issued for use.

Revised versions of the CEMP and subplans were reissued to all project parties in this audit period and the previous auditing period for review and approval. The CEMP and subplans have been approved by the project parties (refer Table 1).

EPR EMP3 requires formal auditing of the Strategy, the CEMP, and WEMPs (refer Section 2 for further detail on the conduct and scope of auditing). Audits of the CEMP and EPRs are undertaken every quarter (identified under the "Audit" columns in Appendix A). The IREA's indicative 12-month EPR audit schedule is included in Appendix A. Through this program all applicable EPRs are audited at least once over a twelve-month period via the quarterly CEMP audits.

1.3.4 Minister's Report

The IREA in its role as independent auditor is responsible for preparing a summary audit report which, WGTP MTIA must forward to the Minister for Planning during construction and other approval authorities as appropriate. This audit report draws from audits undertaken over a six-month period, in this case the (tenth) six months of construction between September 2022 – February 2023. The formal audits described in this Minister's Report have been undertaken by the IREA Lead Environment Auditor, Hilary Chapman and Assistant Environment Auditors, Camille Boxall, Jamie Crawford, Farzeen Khundkar and Bobbi Simpson. The Lead Auditor was supported by a team of specialists, as listed in Appendix B.

1.4 Report Structure

This report is divided into the following sections:

- Section 2: Conduct of Audits – details the scope of the IREA's audit activities undertaken prior to, during and after the audit.
- Section 3: Audit findings – provides the IREA's findings from audits of the Strategy, CEMP and WEMPs.
- Section 4: Audit Conclusion –on the D&C Subcontractor's conformance with the requirements of the Strategy, CEMP and WEMPs.
- Appendices
 - Appendix A – EPR Auditing Status
 - Appendix B – IREA Specialist Team
 - Appendix C – Limitations.

2 CONDUCT OF AUDITS

2.1 Audit Objectives

The objective of the audits summarised in this report is to assess conformance with the current Strategy, the CEMP, and the WEMPs based on the requirement of EPR EMP3. This includes conformance with the primary approvals (refer Section 1.2.2 above). The objective of these audits is to sample compliance with requirements over the period of September 2022 to February 2023 (inclusive).

2.2 IREA Auditing Process

Figure 3 below details the key steps of the IREA environmental auditing process.

The IREA undertook COVID Safe work practices and protocols in line with prevailing Victorian Government health advice.

2.3 Audit Scope

The IREA determines the scope of these audits, which changes based on which Project issues, activities and environmental risks are considered to be significant at the time of audit. Considerations may include:

- Implementation of the CEMP and associated management system and tools.
- Analyses of environmental monitoring results, focusing on groundwater, noise, vibration, surface water, and air quality.
- Environmental risks relating to current construction activities.
- Concerns of the community.
- Compliance status of EPRs.

The IREA reviews a sample of environmental requirements (and evidence of compliance) over the auditing period. It is not feasible or necessary to fully audit all requirements in a six-month period (there are thousands of requirements e.g. legislation, EPRs, contract, CEMP, subplans). For example, the IREA excludes requirements, such as operational EPRs, which are not part of the current scope of work.

It should be noted that while all environmental requirements are not formally audited over a six-month period, the IREA is required to “check” compliance with environmental requirements through activities such as formal review of documentation and inspection of the construction site (refer Section 1.3). This means that a much larger set of requirements relevant to the Project period will be checked by the IREA for compliance during this period.

In this six-month reporting period, 48 of the 117 EPRs were audited by the IREA. 41 EPRs were audited during the previous reporting period (March 2022 – August 2022), bringing the total EPRs audited for this 12-month period to 89 (refer Appendix A). The remaining EPRs not audited include:

- Five operational EPRs that are not relevant to construction.
- Four EPRs that have been met and deemed closed.
- Three EPRs relating to blasting which are currently outside of the Project's scope.
- Sixteen EPRs relating to complete design components, which are being monitored by the IREA through other established processes, rather than explicit auditing
- EPRs which will be addressed during the rest of the annual audit cycle. The IREA audits all relevant EPRs within its annual audit program on a risk basis. This means that there may be more than one year between audits for some EPRs, and less than one year interval for other EPRs.

The environmental requirements audited and checked by the IREA during this 12-month period are summarised below and shown in Appendix A.

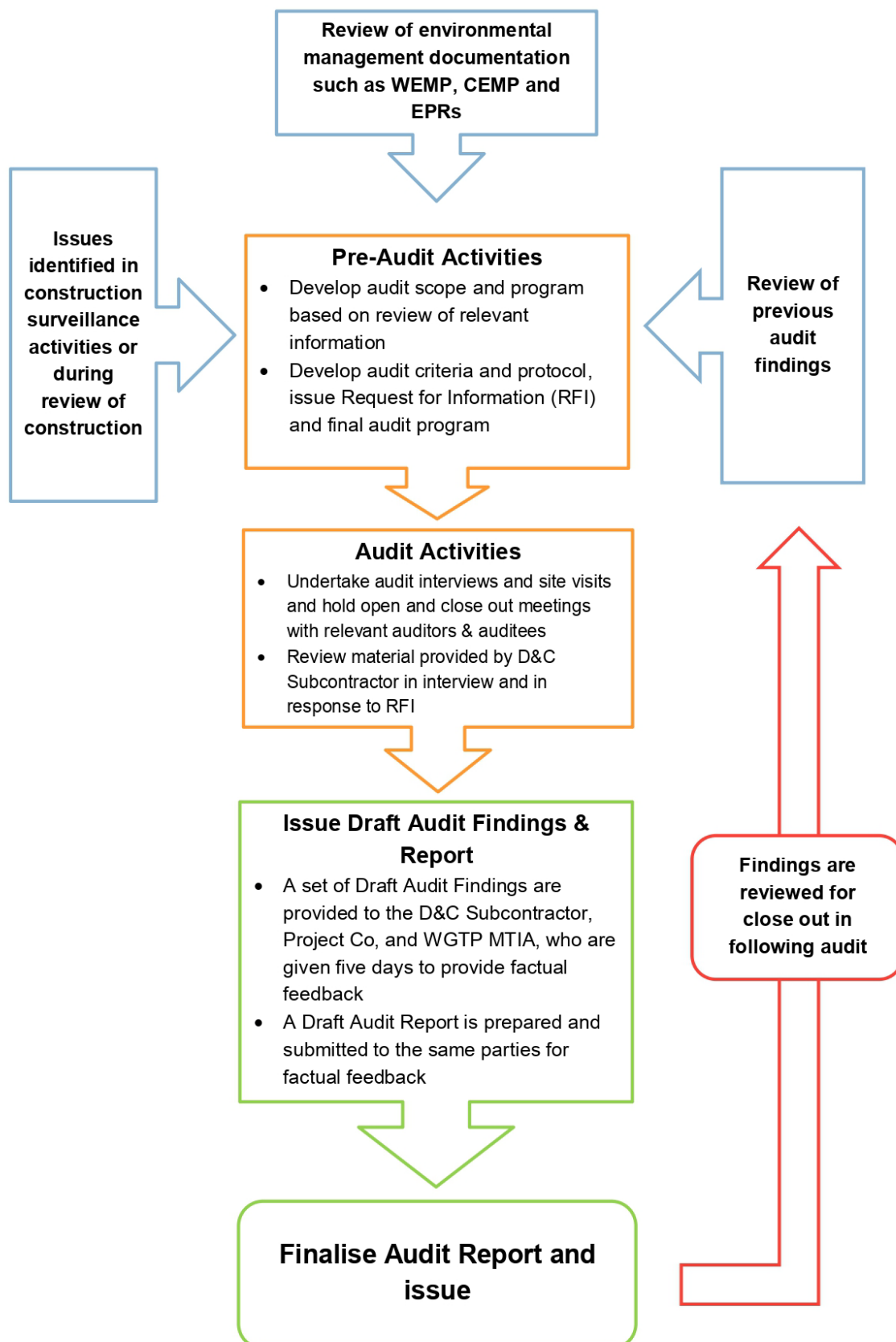


Figure 3 – Overview of environmental audit process

A summary of the scope of the audits conducted by the IREA is provided in Table 2 below.

Table 2 – Summary of Audits Conducted During Reporting Period – September 2022 to February 2023

| Audit Type | Date | Scope |
|---|-------------------------------|---|
| Environmental Management Strategy Audit | February 2023 | <ul style="list-style-type: none"> Strategy (revision 7) dated 31 January 2018 and the legislation, approvals, consents, guidelines and standards relevant to its implementation. |
| CEMP Audit | November 2022 & February 2023 | <ul style="list-style-type: none"> Elements 1, 2, 4, 5, 6, 7, and 11 of the CEMP. Revision 10 (dated 11 December 2019) of the CEMP were audited in the November 2022 and February 2023 audits. Relevant documentation including relevant D&C Subcontractor management plans and subplans such as the Construction Noise and Vibration Management Plan, Landscaping Management Plan, Lighting Management Plan, Heritage Management Plan and Waste Management Plan were also audited. A full overview of CEMP documentation audited during this reporting period is provided in Section 3.3. A selection of EPRs relevant to the current stage of design and construction (as defined in Appendix A). Overview of EPR documentation audited during this reporting period is provided in Section 3.2. |
| WEMP Audit | September 2022 West Zone | <ul style="list-style-type: none"> Site audit at Kororoit Creek to Grieves Parade. |
| | October 2022 East Zone | <ul style="list-style-type: none"> Site audit at Bridge 80 |
| | November 2022 West Zone | <ul style="list-style-type: none"> Site audit at Hyde Street ramps. |
| | December 2022 Tunnels Zone | <ul style="list-style-type: none"> Site audit at Southern tunnel portal outbound |
| | January 2023 East Zone | <ul style="list-style-type: none"> Site audit at Footscray Road Main Viaduct. |
| | February 2023 Tunnels Zone | <ul style="list-style-type: none"> Site audit at Southern tunnel portal inbound |

The IREA's view on conformance was informed by interviews with staff from the D&C Subcontractor, and review of relevant systems, tools and documentation developed and implemented. The IREA has reported on findings raised between 1 September 2022 and 28 February 2023, and on findings closed between 1 October 2022 and 31 March 2023. Findings closed between 1 and 30 September 2022 have been included in the previous reporting period (March 2022 – August 2022).

2.3.1 Design and Construction Activities – September 2022 to February 2023

Construction activities continue across the Project. Recent key activities include:

West

- Subzone 201, works completed for outbound ramp 10 including retaining wall at the pinch point, and Princes Freeway outbound widening are all under live traffic (except for a section near Air Liquide utilities works). The construction of the soil nail wall completed under Bridge 14 abutment at Ramp 11 and 23E along with installation of the covering fascia panels. Pavement works are now progressing on the central existing M80 lanes (ramp 4, 6, & 8). Beaching works at western abutment under Kororoit Creek (Bridge 15). Subzone 202A – Eastern abutment of Kororoit Creek Bridge 15 at last bench of soil nail works. Shared User Path works including associated retaining walls ongoing North of Bridge 15. Millers Road Spring campaign completed, M1 ramp rectification works continue on barrier stitch, noise wall completion will follow. Fascia panel installation ongoing under Millers Road Bridge. Sub Zone 202B - Bridge 22 – Reinstatement of beaching to the east abutment, Bridge 23 – New beaching to east abutment. Bridge 25 – Deck completed to pier 5. Bridge 26 – West abutment retaining wall footing completed. Civil works – Summer campaign works on Williamstown Road, W4 and WGF outbound completed. Sub-zone 203 Bridge 30 – Piling completed to pier 1 and blinding in place, stage 2 stressing works on piers 10 and 11 completed. Bridge 31 – Posts and screens completed during Williamstown rail occupation. Civil works – Stephens Street (in the Socobell area) pavement works are complete. Piling works Noise wall adjacent to Don Mclean Reserve ongoing. At Simcock and Hyde Streets closure in place with site clearance, site proving utilities and boxing out complete.

Tunnel, Buildings and Mechanical, Electrical and Intelligent Transportation Systems (ME&I)

- Outbound Tunnel Boring Machine (TBM) #1 has excavated and built 1425 Rings (3,430m advanced) in increasingly competent NVS bluestone, requiring frequent interventions for mechanical wear and tear and spoil conveyer maintenance. Following Inbound South Portal headwall breakthrough on 16 February 2023, Inbound TBM #2 has successfully advanced into the retrieval pit and disengaged from the tailskin. The remaining rings have been built and temporarily stitched, with cutterhead removal and shield disassembly ongoing. . Real time monitoring is ongoing with Bridge 30 structural movements under design review and groundwater fluctuations within tolerance. Inbound Portal temporary works are substantially complete for TBM retrieval with the step wall currently being shuttered to aid TBM reception and pit bottom manoeuvre. Road and Smoke Deck corbel casting has advanced to Ring 710 (Outbound) and Ring 502 (Inbound) with precast placement, stitches and hinges progressed beyond XP21 in both tunnels to enable segmental lining opening and box jacking of the first cross passage. Tunnel Mechanical and Electrical support fit-out has advanced to Ring 200 and Ring 50 respectively. Cross Passage 1 'XP01' and the Smoke Extraction Ducts ('SXD's') have advanced several rounds from the Inbound South Portal Southern wall with further progress pending TBM arrival. The Northern Portal structural team have largely completed smoke duct connection works to the headwall, removed temporary propping, and continue to advance roof precast and toppings to close the cut and cover box and handover this area to the Buildings Team. Zone 401 Maribyrnong interface embankment retaining walls are ongoing. The Freeway Control Centre has progressed to first floor slab level, the Outbound Vent Structure Form Reinforce and Pour (FRP) work is at second lift and the High Voltage Sub-station stage 1 base slab is cast with conduit tie-ins ongoing. Balston Street Alternative Traffic Control Room (ATCR) refurbishment defect walks are imminent. Viaduct cable containment fit-out is ongoing in completed spans of Bridge 60 ,under Bridge 53 and are planned within the 404 elevated structures next. Kapsch tolling gantry fabrication is underway with Zone 200 open roads Intelligent Transportation Systems cabinetry to be energised in Q1 2023.

East

- Subzone 401 - Bridge 50: Erection of steelwork girders has commenced. CFA piling for traffic diverter structure has commenced. Bridge 51: Continued erection of steelwork girders. Bridge 52: Trans floor (pre-cast concrete) deck installed. Deck pours underway. Bridge 53: Parapet placement continued. Expansion Joints installed. Asphalt work at tie-in to existing completed. Subzone 402 - Bridge 60: Erection of superstructure (with Launching Gantry) over Footscray Road commenced. Ramp P3 complete. Parapet installation, kerb stitching and link-slabs ongoing. Bridge 61 (Ramp P3): Complete Substructure. Steelwork girder nearing completion. Subzone 403 - Bridge 70: Commenced installation of guardrail for eastern widening. Completed new Shared User Path tie-in. Bridge 71: Drive piling complete. Commenced abutment/crosshead construction. Bridge 72; Erected steelwork portals. Commenced steel

girder installation. Bridge 73: Completed removal of demolition platform along southern connection. Bridge 74: Sub-structure construction completed. Erection of steelwork girders underway. Subzone 404 - Bridge 80: In-situ concrete decks completed. Parapet installation commenced. Bridge 81: Pre-stressed concrete girder placement continued. In-situ deck pours continued. Parapet installation commenced. Bridge 83: Completed DN100 rail occupation works, including new steel girders, bearings, deck and parapet. Bridge 84 (Shared User Path): Completed installation of balustrading for the western ramp. Subzone 405 - Bridge 91: Continued with construction of access ramps.



Photo 1 – Southern Portal Inbound – Tunnel Zone (Source: WGTP MTIA, 11 October 2022)

2.4 Audit Findings Classification

Audit findings are classified in each audit according to the following definitions which are aligned with classifications provided by AS/NZS ISO14001: 2015, the Joint Accreditation System of Australia and New Zealand (JAS-ANZ), and audit classifications utilised on previous high-profile Victorian infrastructure projects. The definitions of conformance, non-conformance, opportunity for improvement, observation, and not applicable are provided below.

Conformance

There is suitable evidence to confirm that actions have been undertaken, prepared and/or implemented in full conformance with the requirements of the auditable element. Findings are reported by exception only, and as such conformances are not detailed within this report.

Non-conformance

An instance, event or occurrence that has not fulfilled a requirement that has been specified in the Strategy, CEMP, WEMP, EPRs, legislation, and approval conditions. A situation, which would, on the basis of available objective evidence raise significant doubt as to the effectiveness of environmental management.

Opportunity for Improvement

A deficiency in the implementation of the Strategy, CEMP, WEMPs, or associated documentation judged to be a risk to the environment, or to environmental management, without constituting an overall failure in the area concerned.

Observation

An audit finding which may relate to an incidental or isolated system discrepancy, which does not compromise the effectiveness of environmental management, or constitute an actual or potential environmental risk. Observations are also made to note a positive improvement on the Project.

Not Applicable

The auditable element falls outside the scope of the audit, e.g. work relevant to the element being audited has not yet commenced. Findings are reported by exception only, and as such 'Not Applicable' findings are not detailed within this report.

It should be noted that the audit only reports on non-conformances, areas for improvement and observations against the CEMP findings. All other areas within the scope of the audit should be assumed to be compliant. Where EPRs have been audited, compliance findings are also included.

The IREA does not require observations to be formally closed out after they have been issued and therefore will not report these in subsequent audit reports. It is the responsibility of the D&C Subcontractor and Project Co to address these findings.

Significance of Findings

The nature of findings may vary. In reviewing the results of audit findings, it is necessary to understand the context in which they have been issued. For instance, some findings may be administrative in nature compared with those that pose an immediate and/or significant risk to the environment. An example of an administrative finding might include the requirement for the D&C Subcontractor to use a particular system to record incidents, where this is defined in the CEMP. However, if the D&C Subcontractor has upgraded this system and replaced it with an alternative, this means the CEMP is now out of date and does not reflect current practices. The D&C Subcontractor in this case may not be conforming with the original CEMP (which is captured as a non-conformance in an audit), but it does not necessarily mean that incidents are not being reported. This requirement is likely to be modified in the next version of the CEMP. Administrative findings therefore do not always pose a significant risk to the environment.

Alternatively, if the D&C Subcontractor was found to have caused an incident resulting in a discharge to the river, this would be viewed as an environmental non-conformance of greater significance.

Similarly, some findings are localised (rather than systemic) in nature. For example, a non-conformance raised against a WEMP may reflect an immediate issue at a particular worksite, which can be addressed and closed out by taking immediate on-site action.



Photo 2 – Wurundjeri Way, East Zone (Source: WGTP MTIA, 6 September 2022)

3 SIX-MONTHLY AUDIT FINDINGS

The key findings arising from the IREA's most recent six months of auditing are included in the sub-sections below.

- Section 3.1 summarises audit findings of the Strategy.
- Section 3.2 outlines findings of formal auditing and checking of EPRs.
- Section 3.3 describes audit findings against the CEMP and subplans.
- Section 3.4 provides findings of the WEMP audits.

3.1 Environmental Management Strategy

Audits of the Strategy are conducted six-monthly, with one conducted during this reporting period. Overall, Project Co was found to be meeting their obligations under the Strategy.

No adverse findings were raised against Project Co during the Strategy audit.

Previous reporting periods

No findings remain open from previous reporting periods.

3.2 Environmental Performance Requirements

The majority of EPRs formally audited during this reporting period were considered compliant. No non-conformances and one opportunity for improvement were raised. The following sub-sections focuses on non-conformances and opportunities for improvement raised in this reporting period and previous reporting periods.

Project Co / the D&C Subcontractor is responsible for delivering the majority of EPRs listed below unless otherwise specified as being delivered by the State.

3.2.1 Environmental Management

One environmental management EPR was audited during this reporting period, namely EMP3. This was deemed compliant.

Previous reporting periods

Two opportunities for improvement against EMP4 remain open from previous auditing periods.

Refer also to related CEMP findings in Section 3.3.

3.2.2 Air Quality

No air quality EPRs were audited during this reporting period.

The IREA also notes that two AQP EPRs were not audited in the audit period as they relate to the operational phase, which does not currently relate to the scope of the Project. These inactive EPRs are AQP5 and AQP7.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Air Quality Management Plan findings in Section 3.3.1.

3.2.3 Business

Eight business EPRs were audited this reporting period including BP1, BP2, BP3, BP4, BP5, BP6, BP7, BP8. All were deemed compliant.

Previous reporting periods

Two opportunities for improvement remain open against BP5 from previous reporting periods.

Refer also to related Business Involvement Plan findings in Section 3.3.14.

3.2.4 Cultural Heritage

Ten cultural heritage EPRs was audited during this reporting period, namely CHP2, CHP3, CHP4, CHP5, CHP6, CHP7, CHP8, CHP9, CHP10, and CHP12. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Heritage Management Plan findings in Section 3.3.8.

3.2.5 Contaminated Soil and Spoil Management

No Contaminated Soil and Spoil Management EPRs were audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open against CSP2 from previous reporting periods.

Refer also to related Soil and Spoil Management Plan findings in Section 3.3.10.



Photo 3 – South Portal Inbound - Tunnels Zone (Source: WGTP MTIA, 11 October 2022)

3.2.6 Ecology

Two ecology EPRs were audited during this reporting period, namely EP3 and EP6. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Flora and Fauna Management Plan findings in Section 3.3.4.

3.2.7 Greenhouse Gas Emissions

One greenhouse gas emissions EPR was audited during this reporting period, namely GGP2. No non-conformances or opportunities for improvement were raised.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Energy Management Plan findings in Section 3.3.3.

3.2.8 Ground Movement

Two ground movement EPRs were audited during this reporting period, namely GMP1 and GMP5. All were deemed compliant.

Previous reporting periods

One opportunity for improvement against GMP5 remains open from previous reporting periods.

Refer also to related Ground Movement Management Plan findings in Section 3.3.5.

3.2.9 Groundwater

One groundwater EPR was audited during this reporting period, namely GWP3. One opportunity for improvement was raised during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Groundwater Management Plan findings in Section 3.3.6.

3.2.10 Land Use

Two land use EPRs were audited during this period, namely LPP2 and LPP5. Both EPRs were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Landscape Management Plan findings in Section 3.3.13.

3.2.11 Landscape and Visual

Five landscape and visual EPRs were audited during this reporting period including LVP1, LVP2, LVP3, LVP4, LVP5. All were deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to related Landscape Management Plan findings in Section 3.3.13.

3.2.12 Noise and Vibration

Seven noise and vibration EPRs were audited during this reporting period, namely NVP4, NVP7, NVP8, NVP10, NVP11, NVP13, and NVP18. No non-conformances or opportunities for improvement were raised.\

The IREA also notes that a number of NVP EPRs were not audited in the audit period as they relate to blasting and/or operational phase, which were not relevant to the scope of the Project at the time of auditing. These inactive EPRs are NVP3, NVP6, NVP9, NVP15, NVP16 and NVP17.

Previous reporting periods

One opportunity for improvement remains open against NVP18 from previous reporting periods.

Refer also to Construction Noise and Vibration Management Plan findings in Section 3.3.2.



Photo 4 – Footscray Road – East Zone (Source: WGTP MTIA, 19 January 2023)

3.2.13 Social

Four social EPRs were audited during this reporting period, namely SP1, SP3, SP4, and SP5. No non-conformances or opportunities for improvement were raised.

Previous reporting periods

Two opportunities for improvement remain open against SP2 from previous reporting periods.

3.2.14 Surface Water

One surface water EPR was audited during this reporting period, namely SWP8, which was deemed compliant.

Previous reporting period

One opportunity for improvement remains open against SWP7 from previous reporting periods.

Refer also to Water Management Plan findings in Section 3.3.12.

3.2.15 Transport

Three transport EPRs were audited this reporting period, namely TP4, TP5, and TP8. All were deemed compliant.

Previous reporting periods

No findings remain open from previous periods.

3.2.16 Waste Management

One waste management EPR was audited during this reporting period, namely WMP1, which was deemed compliant.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to Waste Management Plan findings in Section 3.3.11.

3.3 Construction Environmental Management Plan

Overview

CEMP audits are conducted on a quarterly basis, with two CEMP audits conducted during the reporting period.

During the November 2022 audit the following management plans and sections were audited:

- CEMP (Element 2, Element 7, Element 11)
- Construction Noise and Vibration Management Plan (Section 5)
- Landscaping Management Plan (Section 3)
- Lighting Management Plan (Section 4, Section 5)
- Heritage Management Plan (Section 5)
- Water Management Plan.

During the February 2023 audit the following management plans and sections were audited:

- CEMP (Element 1, Element 4, Element 5, Element 6)
- Waste Management Plan (Section 4).

Current Reporting Period

No findings were raised against the CEMP Elements audited during the reporting period.

Previous Reporting Periods

Eleven opportunities for improvement remain open against the CEMP from previous reporting periods.

3.3.1 Air Quality Management Plan

The Air Quality Management Plan (AQMP) was not specifically audited during this reporting period.

Previous reporting periods

Two opportunities for improvement remain open against the Air Quality Management Plan (AQMP) during this reporting period.

Refer to Section 3.2.2 for findings relating to air quality EPRs.

3.3.2 Construction Noise and Vibration Management Plan

No non-conformances or opportunities for improvement were raised against the Construction Noise and Vibration Management Plan (CNVMP) during this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

Refer to Section 3.2.12 for findings relating to noise and vibration EPRs.

3.3.3 Energy Management Plan

The Energy Management Plan (EMP) was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.7 for findings relating to greenhouse gas emissions EPRs.

3.3.4 Flora and Fauna Management Plan

The Flora and Fauna Management Plan (FFMP) was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.6 for findings relating to ecology EPRs.

3.3.5 Ground Movement Management Plan

The Ground Movement Management Plan was not specifically audited during this reporting period.

Previous reporting periods

Two opportunities for improvement remain open from previous reporting periods.

Refer to Section 3.2.8 for findings relating to ground movement EPRs.

3.3.6 Groundwater Management Plan

The Groundwater Management Plan was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.9 for findings relating to groundwater EPRs.

3.3.7 Hazardous Substances Management Plan

The Hazardous Substances Management Plan was not specifically audited during this reported period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.14 for findings relating to hazardous substances EPRs.

3.3.8 Heritage Management Plan

No non-conformances or opportunities for improvement were raised against the Heritage Management Plan (HMP) during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.4 for findings relating to cultural heritage EPRs.

3.3.9 Lighting Management Plan

No adverse findings were raised against the Lighting Management Plan (LMP) during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

3.3.10 Soil and Spoil Management Plan

The Soil and Spoil Management Plan was not specifically audited during this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

Refer also to Section 3.2.5 for findings relating to soil and spoil EPRs.



Photo 5 - Footscray Road – East Zone (Source: WGTP MTIA, 8 February 2023)

3.3.11 Waste Management Plan

No non-conformances or opportunities for improvement were raised against the Waste Management Plan (WMP) during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer also to Section 3.2.16 for findings relating to waste EPR.

3.3.12 Water Management Plan

The Water Management Plan (WMP) was not specifically audited during this reporting period.

Previous reporting periods

No findings remain open from previous reporting periods.

Refer to Section 3.2.14 for findings relating to surface water EPRs.

3.3.13 Landscape Management Plan

No adverse findings were raised against the Landscape Management Plan (LdMP) during this reporting period.

The LdMP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the LdMP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

No findings remain open from previous reporting periods.

3.3.14 Business Involvement Plan

The Business Involvement Plan (BIP) was not specifically audited during this reporting period.

The BIP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the BIP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

No findings remained open against the BIP from previous reporting periods.

Refer to Section 3.2.3 for findings relating to business EPRs.

3.3.15 Construction Communications and Community Engagement Plan

The Construction Communications and Community Engagement Plan (CCCEP) was not specifically audited during this reporting period.

The CCCEP is not a subplan to the CEMP. The CEMP refers to a suite of other management plans, including the CCCEP, which are required to demonstrate how these and other EPRs will be complied with.

Previous reporting periods

No findings remain open from previous reporting periods.

3.4 Worksite Environmental Management Plan

WEMP audits are conducted on a monthly basis, with six WEMP audits conducted during this reporting period. A total of two findings were raised in this reporting period and 10 in the previous reporting period. Findings raised during this reporting period comprised:

- No non-conformances.
- No opportunity for improvement.
- Two observations.

Of all WEMP findings:

- One finding related to hazardous substances management.
- One finding related to noise, vibration and light management

These figures are reflective of the types of works happening across the Project. The D&C Subcontractor has maintained their on-site environmental management, resulting in a decrease by eight findings during this reporting period.

Fourteen opportunities for improvement and one non-conformance were closed during this reporting period, and five opportunities for improvement remain open from previous reporting periods.

The reporting period saw a decrease in the number of findings open compared to the previous reporting period. In total there are five outstanding findings, comprising five opportunities for improvement. Note, one opportunity for improvement raised in previous reporting periods that remain open are project-wide and are not covered in the zone-specific sub-sections below.

3.4.1 West Zone

Refer to Section 2.3.1 for an update on construction activities in the West Zone.

Two observations were raised during WEMP audits of the West Zone in this reporting period which concerned a 20L jerry can being observed in an unbunded area and noise modelling results not being attached to the Share User Pathway Construction Procedure.

Previous reporting periods

Eleven opportunities for improvement were closed from previous reporting periods.

Three opportunities for improvement remain open from previous reporting periods.

3.4.2 Tunnel Zone

No findings were raised during WEMP audits of the Tunnel Zone in this reporting period.

Previous reporting periods

Three opportunities for improvement and one non-conformance were closed from previous reporting periods.

No findings remain open from previous audit reporting periods.



Photo 6 – TBM Vida – Tunnel Zone (Source: WGTP MTIA, 16 February 2023)

3.4.3 East Zone

Refer to Section 2.3.1 for an update on construction activities in the East Zone.

No findings were raised during WEMP audits of the East Zone in this reporting period.

Previous reporting periods

One opportunity for improvement remains open from previous reporting periods.

4 AUDIT CONCLUSIONS

Environmental Management Strategy

Project Co is generally meeting their obligations under the Strategy. No adverse findings were raised during this reporting period.

No findings remain open from previous reporting periods.

These findings are detailed further in Section 3.1 of the report.

Environmental Performance Requirements

During the last six-month reporting period the IREA formally audited 48 EPRs. The majority of EPRs audited during the reporting period were deemed compliant. The findings raised consisted of:

- No non-conformances were raised during this audit period.
- One opportunity for improvement was raised.
- Three observations were raised during this audit period relating to greenhouse gas emissions, noise and vibration and social and community.

One non-conformance was closed against the Groundwater Management Measures (GWP1) from previous reporting periods and three opportunities for improvement were closed against Business (BP3), Greenhouse Gas Emissions (GGP2), Groundwater (GWP3). In total there are 11 findings remaining open at the end of this reporting period, comprising of 11 opportunities for improvement. The IREA will continue to work with Project Co/D&C Subcontractor to close out any outstanding findings.

A full list of EPR findings raised and the status of previous findings is detailed in Section 3.2. Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Construction Environmental Management Plan

The last six-month reporting period focused on auditing a range of CEMP elements and subplans.

The CEMP audit findings for the November 2022 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- Two observations were raised.

The CEMP audit findings for the February 2023 quarterly audit are summarised below:

- No non-conformances were raised during this audit.
- No opportunities for improvement were raised during this audit.
- One observation was also raised.

Seven opportunities for improvement were closed from previous reporting periods against the Construction Environmental Management Plan (CEMP). Construction Noise and Vibration Management Plan (CNVMP), Business Involvement Plan (BIP), Lighting Management Plan (LMP) and Ground Movement Management Plan (GMMP). In total there are 11 findings remaining open at the end of this reporting period, comprising 11 opportunities for improvement. The IREA will continue to work with Project Co / D&C Subcontractor to close out any outstanding findings.

Details of the CEMP findings are listed in Section 3.3.

Worksite Environment Management Plans

During the reporting period six WEMP audits were conducted. A total of two findings were raised in this reporting period. These consisted of:

- No non-conformances.

- No opportunities for improvement.
- Two observations.

The D&C Subcontractor has maintained their system processes and environmental management on site, resulting in the reduction of new audit findings from ten findings in the previous reporting period to two during this reporting period. Fourteen opportunities for improvement and one non-conformance were closed during this reporting period. In total there are five WEMP audit findings remaining open, comprising of five opportunities for improvement.

The WEMP findings are further detailed in Section 3.4.

Conclusions

The findings arising from the reporting period by the IREA have not identified any immediate significant or material risks to the environment.

Implementation of the EPRs was found to be generally compliant, with one opportunity for improvement and three observations during the reporting period:

- One opportunity for improvement was raised relating to groundwater.

Twenty-six audit findings from previous reporting periods were closed, including seven CEMP findings (seven opportunities for improvement), 15 WEMP findings (14 opportunities for improvement and one non-conformance) and four EPR findings (three opportunities for improvement and one non-conformance). In total there are 27 findings remaining open at the end of this reporting period, comprising 27 opportunities for improvement. The IREA will continue to work with Project Co/D&C Subcontractor to close out any outstanding findings.

A full list of EPR findings raised and the status of previous findings is detailed in Section 3.2. Also refer to Appendix A for a summary of EPR compliance status and the upcoming EPR auditing schedule.

Progress in closing out audit findings has remained steady. The IREA encourages continued efforts by Project Co and the D&C Subcontractor to close out remaining open audit findings.



Photo 7 – Hyde Street ramps – West Zone (Source: WGTP MTIA, 16 March 2023)

APPENDIX A- EPR AUDITING STATUS

Phase: D = Design; PC = Pre-construction; C = Construction; PC = Pre-operation; O = Operation

Type of review and surveillance: MP = Management Plan; DP = Design Package; CR = Construction Documentation Review; CS = Construction Surveillance

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|--|-----------------------|----|----|----|--------|--------|--------|--------|----------|---|--|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| ENVIRONMENTAL MANAGEMENT | | | | | | | | | | | | |
| EMP1 | Environmental Management Strategy | X | | | | | | | | All | The IREA audited this EPR in August 2018 and it was deemed compliant. The IREA do not intend to audit this EPR again unless the EMS is updated. | Project Co (WGTP MTIA will publish the Strategy) |
| EMP2 | Environmental Management Plans | X | | X | X | X | | | | All | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C / OpCo |
| EMP3 | Environmental Compliance | | | | | | | | X | PC, C, O | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C / OpCo (WGTP MTIA will forward audit reports to Minister for Planning and will publish audit reports only) |
| EMP4 | Complaints Management System | X | | | | X | | | | PC, C | The IREA audited this EPR in May 2022 and it was deemed compliant, while noting the previous findings remain open. An opportunity for improvement was raised in August 2018 (Aug-18_EPR_04) and another in May 2019 (May-19_EPR_02). Both findings remain open. | D&C |
| AIR QUALITY | | | | | | | | | | | | |
| AQP1 | Tunnel Ventilation System Design | | X | | | X | | | | D, C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| AQP2 | Zero Portal Emissions | | X | | X | | | | | D, O | The IREA audited this EPR in May 2020 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| AQP3 | In Tunnel Air Quality | | X | | X | | | | | D, O | The IREA audited this EPR in May 2020, and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| AQP4 | Ambient Air Quality Monitoring | X | | | X | X | | | | C, O | An observation was raised in May 2022 (May-22_EPR_04). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C / OpCo |
| AQP5 | In Tunnel Air Quality and Ventilation Structure Emissions Compliance | | | | | | | | | O | Not yet audited. Not applicable to construction phase. Ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | OpCo |
| AQP6 | Air Quality During Construction | X | | X | X | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| AQP7 | Roadside Air Quality Mitigation Strategy | | | | | | | | | O | Not yet audited. Not applicable to construction phase. Ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | WGTP MTIA (OpCo) |
| BUSINESS | | | | | | | | | | | | |
| BP1 | Damage or Impacts on Third Party Property and Infrastructure | X | X | X | X | | | X | | D, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| BP2 | Access and Amenity for Business and Commercial Facilities | | X | X | X | | | X | | D, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|---|-----------------------|----|----|----|--------|--------|--------|--------|----------|---|-------------------|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| BP3 | Screening | | X | X | X | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| BP4 | Impacts on Operation of Community, Private Recreation and Council Facilities and Services | | X | X | X | | | X | | All | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C / OpCo |
| BP5 | Business Involvement Plan | X | | X | X | | | | X | PC, C | The IREA audited this EPR in February 2023 and it was deemed compliant, while noting the previous findings remain open. An opportunity for improvement was raised in August 2018 (Aug-18_EPR_07) and another in August 2019 (Aug-19_EPR_26). Both findings remain open. | D&C |
| BP6 | Utility Assets | | X | X | X | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| BP7 | Gas Utilities | | X | X | X | | | X | | D, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| BP8 | Business Disruption | | X | X | X | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| BP9 | Business Acquisition Process | | X | X | X | | | | | D, C | The IREA audited this EPR in November 2021 and it was deemed compliant. MTIA has confirmed that ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | WGTP MTIA |
| CULTURAL HERITAGE | | | | | | | | | | | | |
| CHP1 | Cultural Heritage Management Plan | X | X | X | X | X | | | | D, C | An observation was raised in May 2022 (May-22_EPR_06). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| CHP2 | Design and Construction to Minimise Impacts on Heritage | | X | X | X | | | X | | D, PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP3 | Archaeological Management Plan | X | | X | X | | | X | | PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP4 | Monitoring of Heritage Sites and Places | | X | X | X | | | | X | C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| CHP5 | Archival Photographic Records | | X | | | | | | X | PC | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| CHP6 | Port Phillip Monument | | X | | | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| CHP7 | Heritage Interpretation Strategy | X | X | | | | | X | | PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP8 | Shipwrecks | X | X | X | X | | | X | | PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP9 | Maribyrnong River Front (Footscray) | | X | X | X | | | X | | D | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP10 | Bluestone Bridge | | X | | | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| CHP11 | Rail Turntables | | X | X | X | | | | | D | The IREA audited this EPR in November 2019 and it was deemed compliant. As the design component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| CHP12 | Flinders Street | | | | | | | | X | C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| CONTAMINATED SOIL AND SPOIL MANAGEMENT | | | | | | | | | | | | |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|--|-----------------------|----|----|----|--------|--------|--------|--------|----------|--|-------------------|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| CSP1 | Contaminated Soil Requirements | X | X | X | X | | X | | | C | The IREA audited this EPR in August 2022. An observation was raised (Aug-22_EPR_14). As agreed on 1 February 2019 observations are to be closed once reported on initially | D&C |
| CSP2 | Contaminated Soil and Spoil Management | X | X | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022. No finding was raised, a related finding raised in November 2020 against EPR CSP2 (refer Nov-20_EPR_09) remains open. | D&C |
| CSP3 | Acid Sulphate Soil | X | | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| CSP4 | Odour Management | X | | X | X | | X | | | C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| ECOLOGY | | | | | | | | | | | | |
| EP1 | Minimise Vegetation Removal and Disturbance | | X | X | X | | X | | | D, PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| EP2 | Vegetation Protection Measures | X | X | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| EP3 | Reinstatement | | X | X | X | | | | X | C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| EP4 | Fauna Management Measures | X | X | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| EP5 | Works on Waterways | | X | X | X | X | | | | D, C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| EP6 | Landscaping Plan | | X | | | | | X | | D, PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| EP7 | Vegetation Offsets | X | | X | X | | X | | | C | The IREA audited this EPR in August 2022 and it was deemed compliant. | WGTP MTIA D&C |
| GREENHOUSE GAS EMISSIONS | | | | | | | | | | | | |
| GGP1 | Greenhouse Gas Emissions | | X | X | X | X | | | | D | An observation was raised in May 2022 (May-22_EPR_08). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| GGP2 | Emissions Reduction | | X | X | X | | | X | | D, C | An observation was raised in November 2022 (Nov-22_EPR_13). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| GROUND MOVEMENT | | | | | | | | | | | | |
| GMP1 | Geotechnical Model and Assessment | | X | X | X | | | | X | PC, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| GMP2 | Tunnel and Portal Drainage | | X | X | X | | X | | | D, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| GMP3 | Condition Surveys and Determination of Settlement Criteria for Property and Infrastructure | | X | X | X | | X | | | PC, C, O | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C / OpCo |
| GMP4 | Settlement Criteria for Utilities | | X | X | X | | X | | | PC | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| GMP5 | Ground Movement Monitoring | X | X | X | X | | | X | | PC, C, O | The IREA audited this EPR in February 2023 and it was deemed compliant, while noting the previous findings remains open. An opportunity for improvement was raised in November 2021 (Nov-21_EPR_13) and remains open. | D&C / OpCo |
| GMP6 | Mitigation of Ground Movement Impact | X | X | X | X | | X | | | C, O | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C / OpCo |
| GROUNDWATER | | | | | | | | | | | | |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|---|-----------------------|----|----|----|--------|--------|--------|--------|----------|---|--|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| GWP1 | Groundwater Management Measures | X | X | X | X | | X | | | PC, C, O | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C / OpCo |
| GWP2 | Protection of Groundwater Quality | X | | X | X | | X | | | C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| GWP3 | Tunnel Drainage Design and Construction Methods | | X | X | X | | X | | | D, PC, C | An opportunity for improvement was raised in February 2023 (Feb-23_EPR_12) and remains open. | D&C |
| GWP4 | Predictive Groundwater Model | | X | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| GWP5 | Groundwater Monitoring | | | X | X | | X | | | PC, C, O | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C / OpCo |
| GWP6 | Interception of Groundwater | X | X | X | X | | X | | | C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| GWP7 | Impacts on Groundwater Users | | X | X | X | | X | | | PC, C | An observation was raised in August 2022 (Aug-22_EPR_22). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| LAND USE | | | | | | | | | | | | |
| LPP1 | Minimise Design Footprint | | X | | | X | | | | D | The IREA audited this EPR in May 2022 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| LPP2 | Recreation Facilities | | X | X | X | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| LPP3 | Future Development Opportunities | | X | | | | | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| LPP4 | Pedestrian and Bicycle Connections | | X | | | | | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| LPP5 | Public Land | | X | X | X | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| LANDSCAPE AND VISUAL | | | | | | | | | | | | |
| LVP1 | Urban Design Approach | | X | X | X | | | X | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| LVP2 | Reinstatement Following Temporary Works | | X | | | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| LVP3 | Light Spillage | X | X | X | X | | | X | | D, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| LVP4 | Vegetation Screening | | X | | | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| LVP5 | Design Review | | | | | | | X | | D | The IREA audited this EPR in November 2022 and it was deemed compliant. | WGTP MTIA (on receipt of relevant design documentation in accordance with the design review process) |
| NOISE AND VIBRATION | | | | | | | | | | | | |
| NVP1 | Traffic Noise Limits | | X | X | X | | X | | | D, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| NVP2 | Traffic Noise Reduction of Open Space | | X | X | X | X | | | | D, C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|--|-----------------------|----|----|----|--------|--------|--------|--------|---------|---|--|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| NVP3 | Maintenance of Noise Mitigation Measures | | | | | | | | | O | N/A - operational EPR | OpCo (for the maintenance of noise mitigation measures in accordance with sections 18.4 and 18.5 of Part B, otherwise WGTP MTIA) |
| NVP4 | Traffic Noise Reduction of Millers Road North of West Gate Freeway | | | | | | | | X | PO | The IREA audited this EPR in February 2023 and it was deemed compliant. | State |
| NVP5 | Construction of Noise Barriers | | X | X | X | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| NVP6 | Traffic Noise Monitoring | | X | | | | | | | PO, O | Based on Project status this is currently not relevant. | OpCo (for the O&M phase in accordance with sections 18.4 and 18.5 of Part B, otherwise WGTP MTIA) |
| NVP7 | Construction Noise, Vibration Management, and Monitoring | X | | X | X | | | X | | PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| NVP8 | Construction Noise Targets | | | X | X | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| NVP9 | Blasting Trials and Assessment | | | | | | | | | C | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited at this time as it is not relevant to the current scope. | D&C |
| NVP10 | Construction Vibration Targets (Amenity) | | | X | X | | | X | | C | An observation was raised in November 2022 (Nov-22_EPR_18). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| NVP11 | Construction Vibration Targets (Structures) | | | X | X | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| NVP12 | Ground-borne (Internal) Noise Targets | | | | | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| NVP13 | Utility Asset Protection | | X | X | X | | | X | | PC, C | The IREA audited this EPR in November 2022 and it was deemed compliant. | D&C |
| NVP14 | Tunnel Ventilation System Noise Design | | | | X | | | | | D, O | The IREA audited this EPR in May 2020 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C / OpCo |
| NVP15 | Tunnel Ventilation System Noise Monitoring | | | | | | | | | O | N/A - operational EPR | OpCo |
| NVP16 | Amenity Blast Vibration | | | | | | | | | C | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited at this time as it is not relevant the current scope. | D&C |
| NVP17 | Amenity Blast Overpressure Implement | | | | | | | | | C | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited at this time as it is not relevant to the current scope. | D&C |
| NVP18 | Construction Noise Management | X | | X | X | | | X | | C | The IREA audited this EPR in November 2022 and it was deemed compliant, while noting the previous findings remain open. An opportunity for improvement was raised in August 2020 (Aug-20_EPR_24) and remains open. | D&C |
| NVP19 | Traffic Noise of Hyde Street, South of Francis Street | | | | | | | | | C | The IREA audited this EPR in February 2020 and it was deemed compliant. It will not be audited again as it is considered closed. | WGTP MTIA |
| SOCIAL | | | | | | | | | | | | |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|---|-----------------------|----|----|----|--------|--------|--------|--------|----------|--|-------------------|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| SP1 | Urban Design Principles and Vision | | X | | | | | X | | D | An observation was raised in November 2022 (Nov-22_EPR_22). As agreed on 1 February 2019 observations are to be closed once reported on initially. | D&C |
| SP2 | Communications and Community Engagement Plan (CCEP) | X | | X | X | X | | | | PC, C, O | The IREA audited this in May 2022 and it was deemed compliant, while noting the previous findings remain open. Two opportunities for improvement were raised in May 2019 (May-19_EPR_26, May-19_EPR_27) and remain open. | D&C / OpCo |
| SP3 | Community Liaison Group Participation | | | | | | | | X | C | The IREA audited this in February 2023 and it was deemed compliant. | D&C / WGTP MTIA |
| SP4 | Social and Local Procurement | X | | | | | | | X | PC, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| SP5 | Community Involvement and Participation Plan (CIPP) | X | | | | | | | X | PC, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | WGTP MTIA |
| SURFACE WATER | | | | | | | | | | | | |
| SWP1 | Design of Discharges and Runoff | | X | | | | | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP2 | Water Sensitive Road Design | | X | | | | | | | D | The IREA audited this EPR in November 2019 and it was deemed compliant. It will not again as it is considered closed. | D&C |
| SWP3 | Tunnel Waste Water | | X | X | X | | | | | PC | The IREA audited this EPR in February 2020 and it was deemed compliant. This EPR relates to operations-phase waste water. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP4 | Water Quality Monitoring | X | | X | X | | | | | PC | The IREA audited this EPR in August 2018 and it was deemed compliant. It will not be audited again as it is considered closed. | D&C |
| SWP5 | Spill Containment Design | | X | | X | | | | | D | The IREA audited this EPR in November 2019 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP6 | Management of Chemicals, Fuels, and Hazardous Materials | X | | X | X | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| SWP7 | Surface Water Management During Construction | X | | X | X | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. An opportunity for improvement was raised in May 2020 (May-20_EPR_23) and remains open. | D&C |
| SWP8 | Use of non-potable water | | X | X | X | | | | X | C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| SWP9 | Bank Stability | | X | X | X | X | | | | C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| SWP10 | Waterway Modifications | | X | | | X | | | | D, C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |
| SWP11 | Flood Levels, Flows and Velocities | | X | X | X | X | | | | D, PC, C | The IREA audited this EPR in May 2022 and it was deemed compliant. | D&C |

| Environmental Performance Requirements | | Review & Surveillance | | | | Audit | | | | Phase * | Project and Audit Status (May 2022 to February 2023) ** | Responsible Party |
|--|--|-----------------------|----|----|----|--------|--------|--------|--------|----------|---|-------------------|
| | | MP | DP | CR | CS | May-22 | Aug-22 | Nov-22 | Feb-23 | | | |
| SWP12 | Floodplain Storage Capacity | | X | X | X | | | | | D | The IREA audited this EPR in May 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing, until the operations phase is relevant. | D&C |
| SWP13 | Tunnel Portal Flood Risk | | X | | X | | | | | D, O | The IREA audited this EPR in November 2019 and it was deemed compliant. As relevant design components are component is complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C / OpCo |
| SWP14 | Maintenance of Melbourne water and Other Drainage Assets | | X | X | X | | | | | D | The IREA audited this EPR in May 2020 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| SWP15 | North Yarra Main Sewer | | X | | | | | | | D | The IREA audited this EPR in February 2019 and it was deemed compliant. It will not be audited again as it is considered closed. | D&C |
| TRANSPORT | | | | | | | | | | | | |
| TP1 | Optimise Design Performance | | X | | | | | | | D | An opportunity for improvement was raised in February 2020 (Feb-20_EPR_01) and was closed on September 2021. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| TP2 | Traffic Monitoring | | | X | X | | X | | | PC, C, O | The IREA audited this in August 2022 and it was deemed compliant. | D&C / OpCo |
| TP3 | Traffic Management Plan | X | | X | X | | X | | | PC, C | The IREA audited this in August 2022 and it was deemed compliant. | D&C |
| TP4 | Public Transport | | X | X | X | | | | X | PC, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| TP5 | Rail operations | | X | | | | | | X | D, C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| TP6 | Design Standards | | X | | X | | | | | D, C | The IREA audited this EPR in August 2021 and it was deemed compliant. As relevant design components are complete, ongoing surveillance of the implementation of this EPR will be through other established IREA monitoring processes, rather than explicit auditing. | D&C |
| TP7 | Traffic Management Liaison Group | | | X | X | | X | | | PC, C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| TP8 | River Navigation | | X | X | X | | | | X | C | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C |
| TP9 | Melbourne Metro Rail Authority Interface | | | | | | X | | | C | The IREA audited this EPR in August 2022 and it was deemed compliant. | D&C |
| WASTE MANAGEMENT | | | | | | | | | | | | |
| WMP1 | Waste Management | X | X | X | X | | | | X | D, C, O | The IREA audited this EPR in February 2023 and it was deemed compliant. | D&C / OpCo |

APPENDIX B - IREA SPECIALIST TEAM

The formal audits described in this Minister's Report have been undertaken by the lead IREA Environment Auditor, Hilary Chapman and Assistant Environment Auditors, Camille Boxall, Jamie Crawford, Farzeen Khundkar and Bobbi Simpson. The Lead Auditor was supported by a team of specialists, including (but not limited to):

- IREA Groundwater Subject Matter Expert – Timothy Wilkinson
- IREA Noise Subject Matter Expert – Tim Ryan
- IREA Traffic Noise and Vibration Subject Matter Expert – Mike Cragg
- IREA Technical Lead for Ground Movement, Stuart Oakey
- IREA Technical Lead for Sustainability, Bernadette Fitzgerald.

This report has been reviewed by the IREA Representative, Geoff Shepherd.

APPENDIX C - AUDIT LIMITATIONS

This report was prepared in accordance with generally accepted consulting practice for audit services. The environmental audit requires the IREA to apply a process of “general overview and reasonable checking” of the Project documentation and Design and Construction activities (as required under the contract between the IREA and Project Co / WGTP MTIA). The audit program is risk-based, targeting those Design and Construction activities with a potential for risk to the environment or to environmental management arrangements. Accordingly, it is possible that not all environmental issues will be examined during each audit. However, the IREA maintains a structured program of audits designed to cover all aspects of the Project and to enable the formation of an opinion on whether there is conformance with the requirements of the Strategy, CEMP (and subordinate documentation), WEMPs, and the EPRs (as applicable).