North East Link

Speakers:

• Michael Crossman
  NELA Planning Manager

• Malcolm Short
  Engineering

• Kim Jordan
  NEL Stakeholder Manager
Environment Effects Statement (EES) update
EES status update

- 2017: Project corridor selected
- 2018: Corridor options investigated
- Early design + EES studies (existing conditions)
- 2019: Business case consideration
- Design refined + EES studies (impact assessment)
- Reference design
- We are here
- EES drafted
- EES public display followed by panel hearings
- Preferred builder appointed and construction start (completion expected 2027)
# EES Structure & Content

## Summary report

### EES main report

1. Introduction
2. Project rationale
3. Legislative framework
4. EES assessment framework
5. Communications and engagement
6. Project development
7. Urban design
8. Project description
9. Transport
10. Air quality
11. Surface noise and vibration
12. Tunnel vibration
13. Land use planning
14. Business
15. Arboriculture
16. Landscape and visual social
17. Human health
18. Historical heritage
19. Aboriginal cultural heritage
20. Ground movement
21. Groundwater
22. Contamination and soil
23. Surface water
24. Ecology
25. Greenhouse gas
26. Environmental management framework
27. Conclusions

## Technical reports

- A. Transport
- B. Air quality
- C. Surface noise and vibration
- D. Tunnel vibration
- E. Land use planning
- F. Business
- G. Arboriculture
- H. Landscape and visual
- I. Social
- J. Human health
- K. Historical heritage
- L. Aboriginal cultural heritage
- M. Ground movement
- N. Groundwater
- O. Contamination and soil
- P. Surface water
- Q. Ecology
- R. Greenhouse gas

## Attachments

- I. Sustainability approach
- II. Urban design strategy
- III. Risk report
- IV. Stakeholder consultation report
- V. Planning Scheme Amendment
- VI. Works Approval

## EES Map book
EES status update

- Field investigations largely completed
- EES documentation being finalised
- All 18 EES technical reports have been presented to the Technical Reference Group
- Final TRG meeting on Thursday 13 December 2018
EES investigations update

• Arboriculture surveys completed.
• Aboriginal cultural heritage assessments to be completed in December 2018.
• Business impact assessment consultation has been completed.
• Four air quality monitoring stations established and operating – one will commence operating shortly.
Working with Wurundjeri

- Environment Effect Statement
- Cultural Heritage Management Plan
- Urban Design Strategy
- Cultural Values Mapping
Urban Design - Themes
Theme: Water

Yarra/Birrarung
## EES forward program

<table>
<thead>
<tr>
<th>Date</th>
<th>Milestone</th>
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<tbody>
<tr>
<td>2019 Q2</td>
<td>EES on public exhibition</td>
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<tr>
<td>2019 Q3 or 4</td>
<td>EES public inquiry</td>
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<tr>
<td>2019 Q4</td>
<td>Planning approvals</td>
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<tr>
<td>2020</td>
<td>Construction commences</td>
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Questions?
Constructability
Purpose

Provide an **overview** of the **construction techniques** for the North East Link project
Early works
Elevated ramp interchanges

Artist impression. Subject to change
Elevated ramp interchanges
Trench and land bridges
Top down construction method

01. Installation of Piled Walls

02. Excavation & Strutting

03. Excavation

04. Base Slab, Walls & Roof / Props
Hurstbridge line rail works
Hurstbridge line rail works
Cut and cover construction method
Diaphragm walls

1. Guide wall construction
2. Excavation
3. Installation of stop ends & cage
4. Concreting
Tunnel construction
Tunnel construction
Tunnel construction – cut and cover
Tunnel construction – cut and cover
Tunnel construction – bored tunnels
Tunnel construction – cross passages
Tunnel Construction – mined tunnels
Tunnel construction – TBM launch site
Tunnel construction – TBM launch site
Tunnel construction – fit-out
Other construction support sites

Site – 11ha
Building – 12,000m²
Construction support logistics
Report sections (suggestion)

- Introduction from Chair
- Key themes (TBD – based on CLG’s views and submissions)
- Concerns and opportunities (body of report – initial draft by NELA based on CLG discussions)
- Groups represented on CLG submissions can be attached
Concerns and opportunities

• Link concerns and opportunities, e.g.
  • Concern – loss of open space
  • Opportunity – extending the tunnel, moving vent structures, freeing equivalent space

• Concern on its own
  • Concern – impact because of business acquisition at Bulleen industrial precinct

• Opportunity on its own
  • Opportunity – provide green bridges across the Eastern Freeway
Objectives and principles

Project objectives

Objective 1
Improve business access and growth in Melbourne’s north, east and south east

Objective 2
Improve household access to employment and education in Melbourne’s north, east and south east

Objective 3
Improve freight and supply chain efficiency and industrial growth across the north, east and south east

Objective 4
Improve access, amenity and safety for communities in the north east

Guiding principles

Guiding Principle 1
Minimise impacts on communities

Guiding Principle 2
Minimise impacts on environmental and cultural assets

Guiding Principle 3
Minimise impacts during the construction phase

Guiding Principle 4
Optimise the efficient use of resources
Indicative timeline

• January – February: Group submission preparation
• March – April: Draft report
• April: Finalise report
Questions?