



# ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

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## MEETING 9

7 February 2020



# AGENDA

1. Introductions and welcome
2. Update on Metro Tunnel station name
3. Construction update – Parkville
4. Construction update – Arden
5. Tunnelling update
6. Stakeholder and communications update
7. Intake Substation Development Plan update
8. Presentation on Metro Tunnel Project contact centre
9. Parkville Storytelling Project
10. Metro Tunnel Creative Program update
11. Questions
12. Meeting close



# UPDATE ON METRO TUNNEL STATION NAME

- In 2017, the names of the five new train stations being built as part of the Metro Tunnel Project were announced
- It was announced the new Metro Tunnel station being built in the suburb of North Melbourne near Arden Street would be named North Melbourne, while the existing North Melbourne Station would be re-named West Melbourne
- Technical investigations have highlighted issues associated with this change, predominantly relating to financial and safety considerations
- It has been determined that the existing North Melbourne Station will retain its name and the new Metro Tunnel station will be named Arden
- This was the most responsible decision to make from a financial and safety perspective.



# CONSTRUCTION UPDATE - PARKVILLE



Construction partner:





# PARKVILLE 2020 PROGRAM

Activity	Feb	Mar	Apr	May	Jun	Jul
Grattan Street east: stage 3 excavation						
Grattan Street east: retail and Royal Parade entrance excavation						
Grattan Street west: service relocations						
Grattan Street west: station entrance construction						

*Dates are indicative and subject to change*





**GRATTAN STREET EAST**



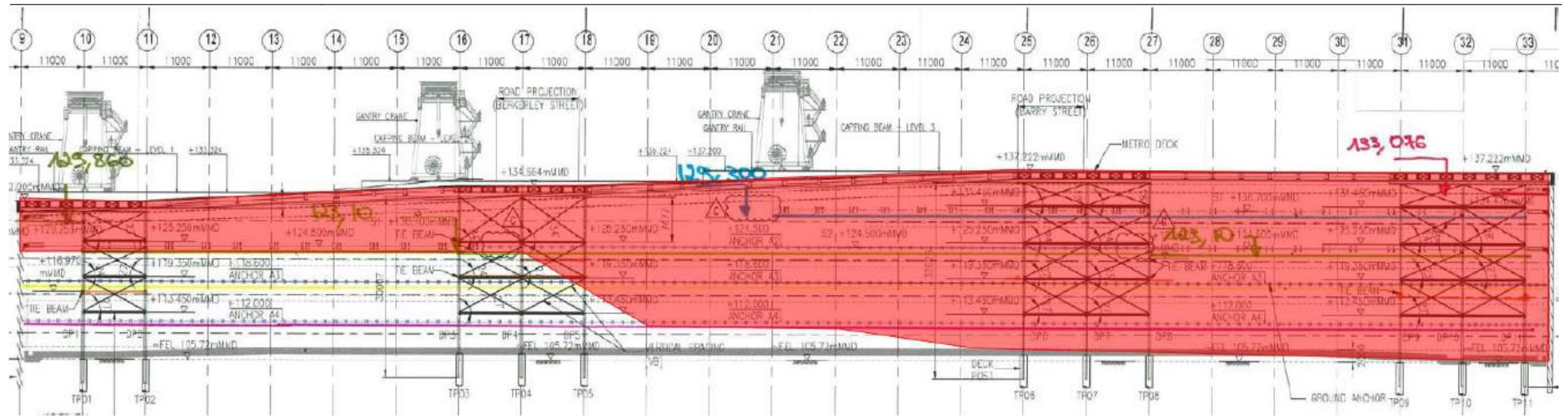
# WHAT'S HAPPENING AT GRATTAN ST EAST

- Station box strutting activities are complete
- Station box bulk excavation expected to be complete by mid-April 2020
- Ground anchor and tension pile works ongoing
- Permanent structure works continue, including base slab construction.





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**GRATTAN STREET WEST**



# SERVICE RELOCATIONS

## **Grattan Street closure between Flemington Road and Elizabeth Street/Royal Parade**

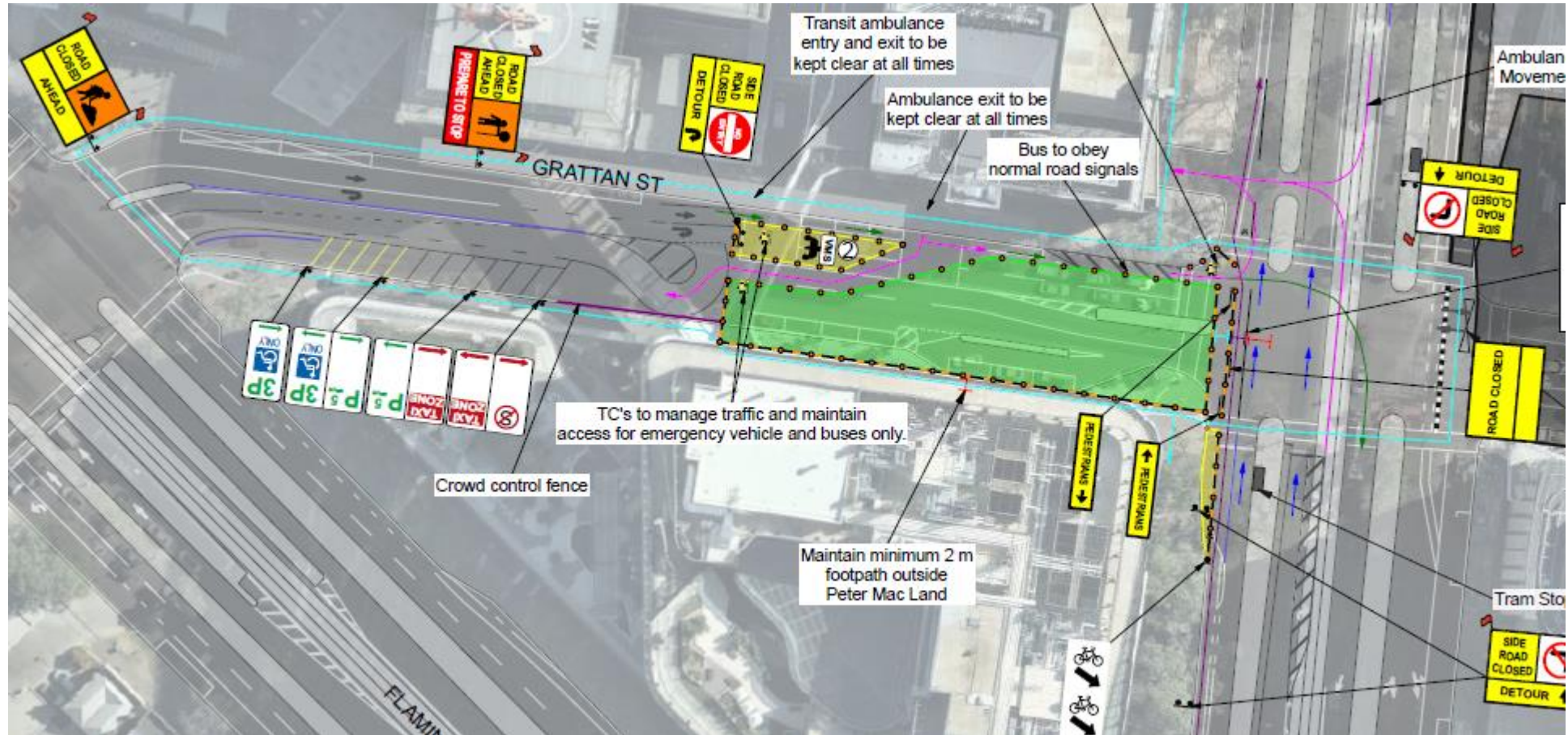
**From 14 February for up to 5 weeks**

- Grattan Street will be closed between Flemington Road and Elizabeth Street/Royal Parade
- Access for buses, cyclists, and emergency vehicles travelling eastbound on Grattan Street to Elizabeth Street/Royal Parade will be maintained under traffic management
- On weekends, the Elizabeth Street/Royal Parade northbound service lane will be closed between Grattan Street to just north of The Royal Melbourne Hospital and there will be additional lane closures in place on Elizabeth Street, Peel Street and Haymarket Roundabout
- Vehicles accessing Grattan Street from Flemington Road for the taxi zone, drop off/pick up parking and disability parking will be required to perform a U-turn and exit via Flemington Road.



# GRATTAN STREET WEST

## Service relocations – weekday arrangements

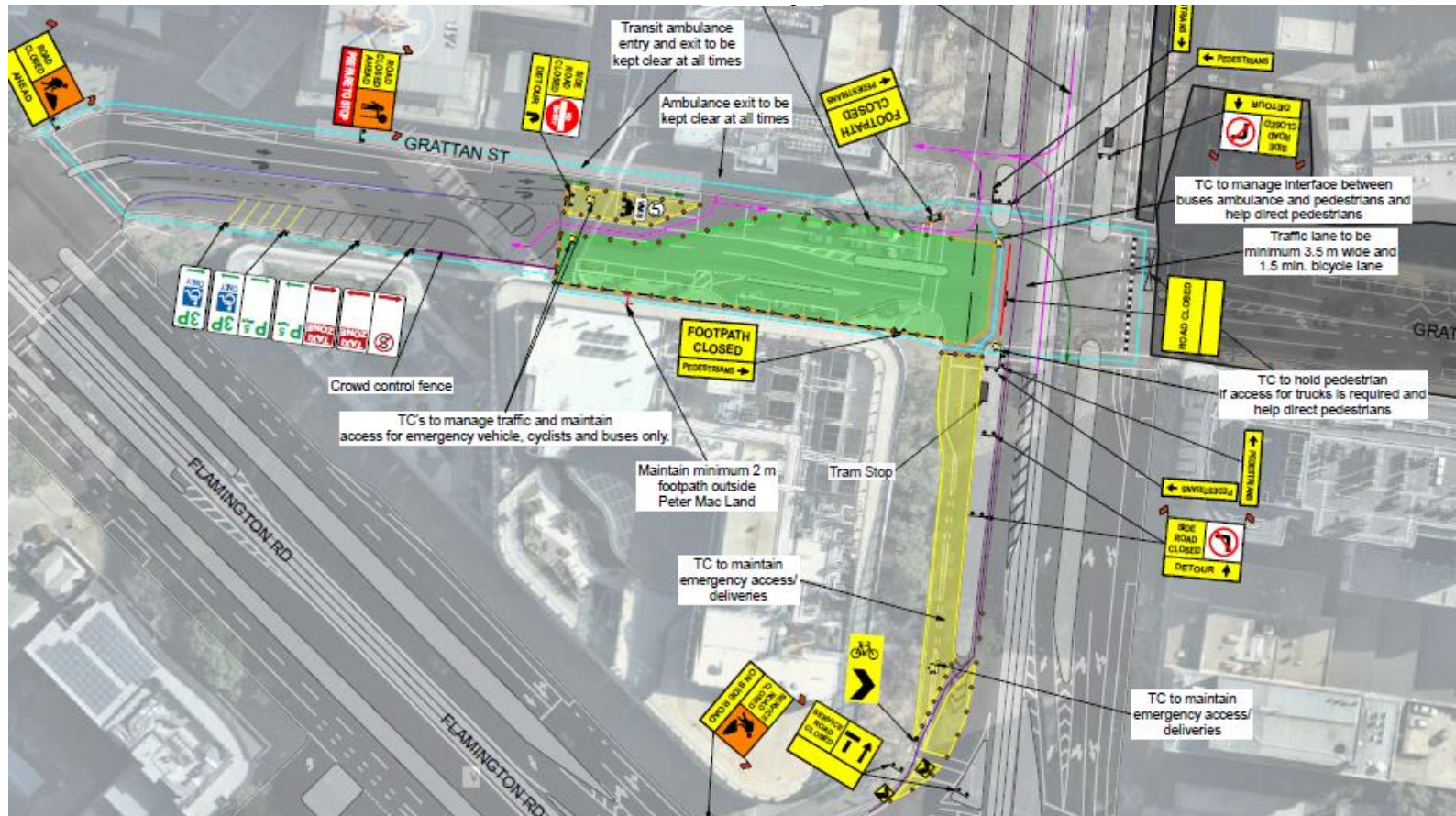


*Indicative only*



# GRATTAN STREET WEST

## Service relocations – weekend arrangements



*Indicative only*



# STATION ENTRANCE CONSTRUCTION

**Traffic and transport changes on Grattan Street, between Flemington Road and Elizabeth Street/Royal Parade**

**From late March 2020 for three years**

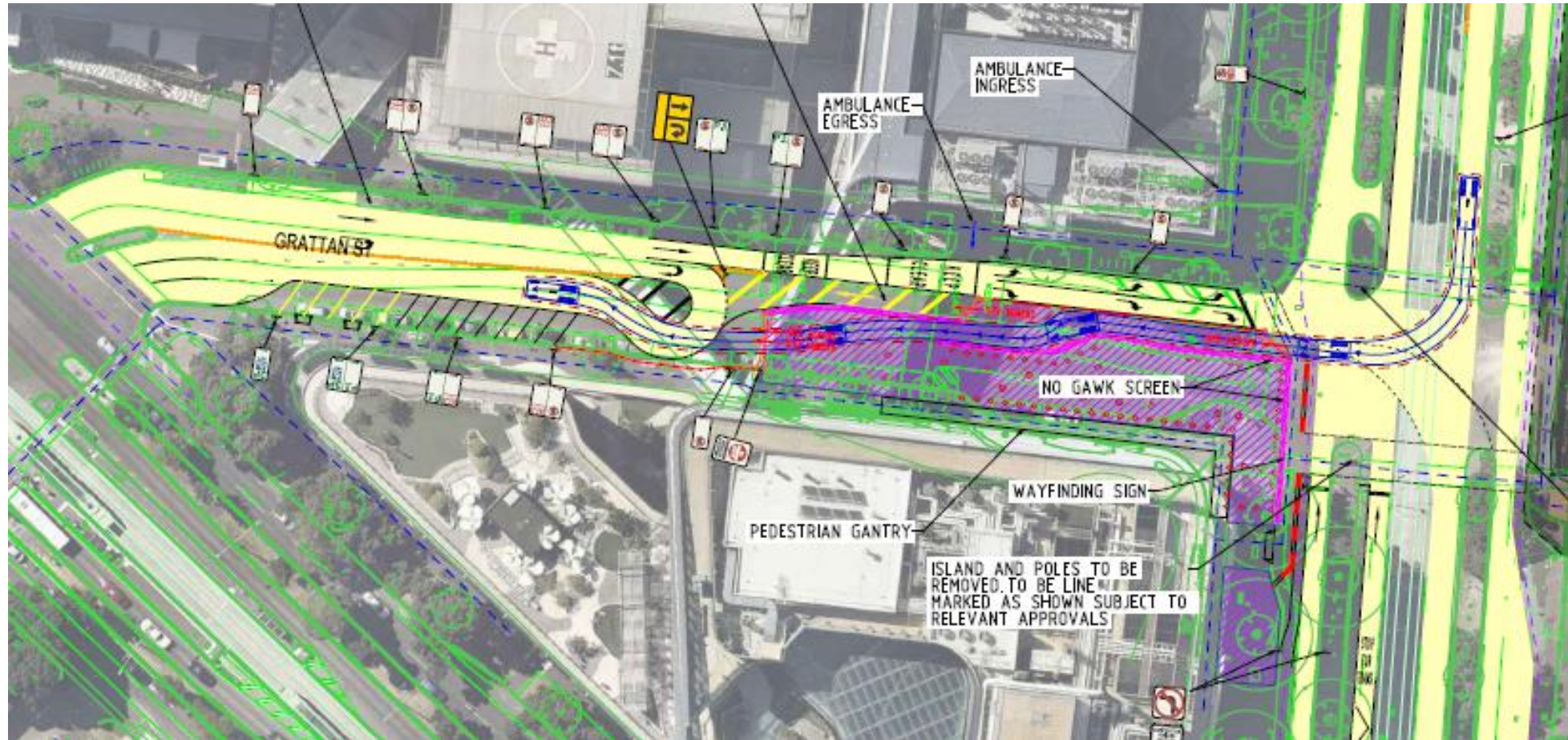
- From late March, site establishment and construction activities will commence on the station entrance adjacent to the Peter MacCallum Cancer Centre
- Grattan Street westbound lanes will be closed between Flemington Road and Elizabeth Street/Royal Parade for three years
- Grattan St eastbound lanes will remain open to vehicles and cyclists
- Emergency vehicle access will be maintained at all times
- Pedestrian access will be maintained
- Cyclists wanting to travel westbound on Grattan Street to Flemington Road can walk their bikes from Elizabeth Street/Royal Parade

**Construction of the station entrance adjacent to Royal Melbourne Hospital will commence from early 2021**



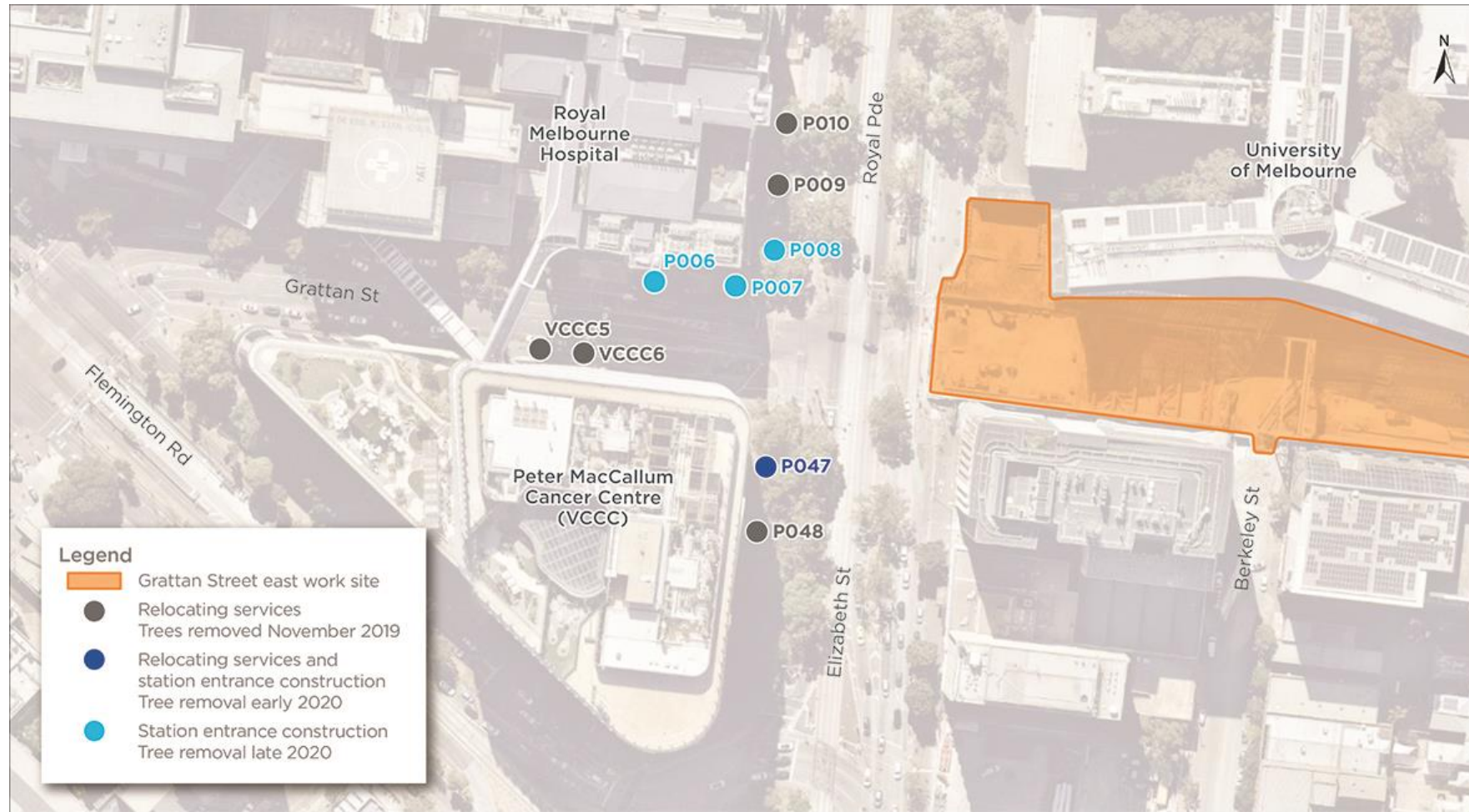
# GRATTAN STREET WEST

Construction of the station entrance adjacent to Peter MacCallum Cancer Centre





# GRATTAN STREET WEST TREE REMOVAL





# CONSTRUCTION UPDATE – NORTH MELBOURNE



# NORTH MELBOURNE PROGRAM

Activity	Feb	Mar	Apr	May	Jun	Jul
East box wall construction						
Cross passage ground improvement, Lothian St (CP5)						
East box concourse slab construction						
West box inner wall construction						
Tunnelling (Arden to Kensington)						
Tunnelling (Arden to Parkville)						
Intake substation demolition, service relocation and construction						

*Program is indicative and subject to change*



# WHAT'S HAPPENING IN NORTH MELBOURNE

## **Arden Station site**

- Inner wall and concourse slab construction
- Strut removal activities underway
- Tunnelling, including operation of slurry treatment plant, grout pump and segment facility
- Construction of TBM gantry turning device
- Operation of concrete batching plant (including transport of concrete to other Metro Tunnel sites)
- Site maintenance activities
- Service proving
- Survey and monitoring activities

## **Cross passage 5 (Lothian Street)**

- Production jet grouting
- Spoil removal and street cleaning

## **Intake substation**

- Trenching and boring works
- Civil structural works



# WHAT'S HAPPENING IN NORTH MELBOURNE

## **North Melbourne electrical (intake) substation**

- Early Works Plan amendment approved 24/12/2019
- Site establishment and demolition works commenced 29/01/20
- Development Plan will be submitted to Minister for Planning in February

## Feedback received during Development Plan public display period

- Importance of retaining amenity and ecology along the Moonee Ponds Creek corridor
- Importance of minimising tree removal
- Importance of minimising impacts to Moonee Ponds Creek trail

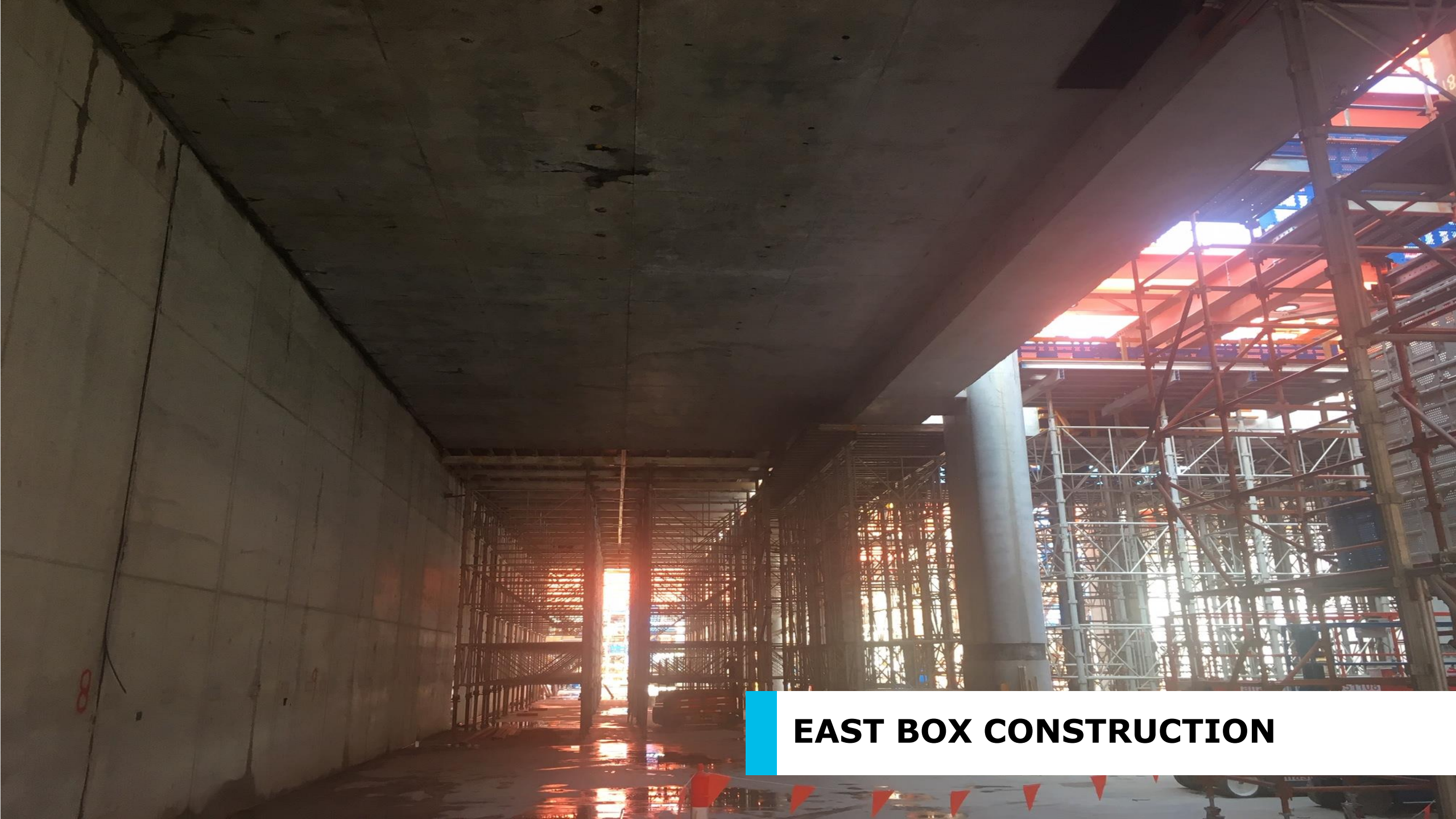


# WHAT'S HAPPENING AT ARDEN STATION

## Out of hours works (Arden Station site)

- 6pm –10pm (evening works), Monday to Friday
  - Inner wall and concourse slab construction (including concrete deliveries), and strut removal (east box)
- 10pm – 7am (night works), Monday to Friday
  - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
  - Inner wall and concourse slab construction
  - Concrete deliveries for inner wall and concourse slab construction
  - Road cleaning on Arden and Laurens streets as required
  - After 6pm, construction vehicles will enter and exit via Arden Street wherever possible
- 24 hours, seven days a week
  - Tunnelling, slurry treatment plant, grout pump and segment facility operation
  - Over-size TBM part deliveries to site and use of a crawler crane to unload parts.





## **EAST BOX CONSTRUCTION**







# WHAT'S HAPPENING AT ARDEN STATION





# TUNNELLING





# TUNNELLING TIMELINE

Indicative timing	Activity
Q1 2020 – Q2 2020	TBM 1 and 2 retrieved and transported back to North Melbourne
Q2 2020 – Q4 2020	TBM 1 and 2 tunnelling North Melbourne to Parkville

*Program is indicative and subject to change*



# TBM PROGRESS

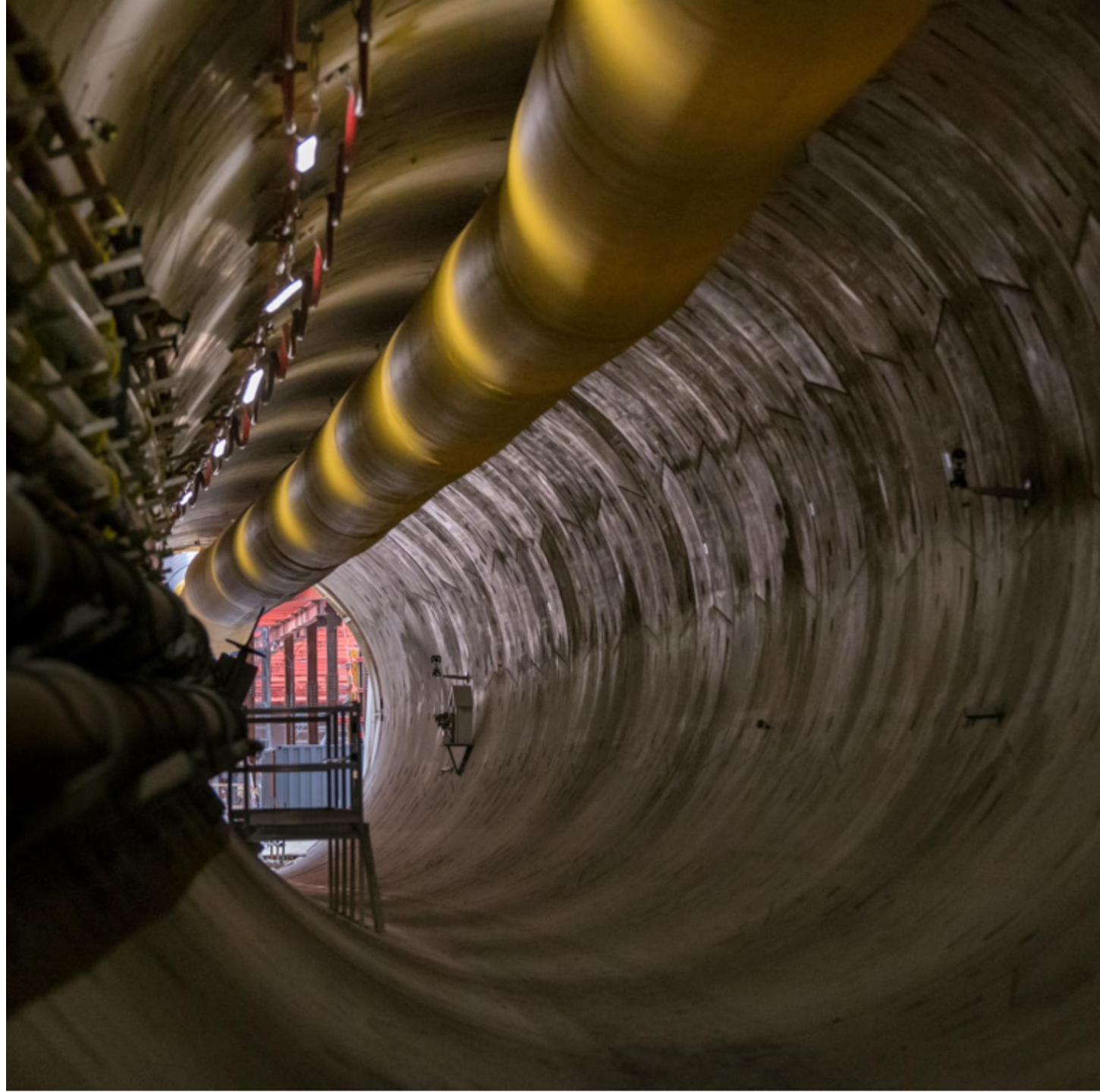
## North Melbourne to Kensington

### TBM Joan

- 1084 metres
- 633 rings installed

### TBM Meg

- 764 metres
- 444 rings installed





# TBM VIBRATION MODELLING

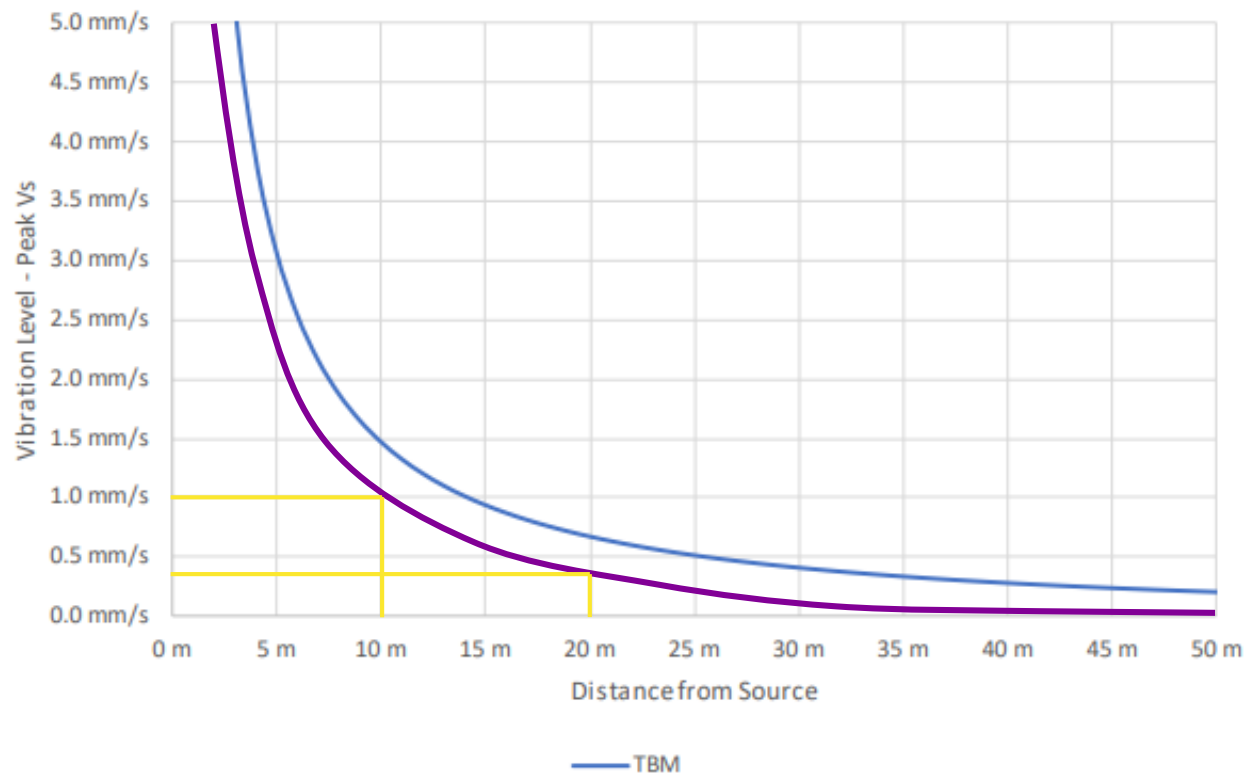


Table NV8-1: Short-term vibration on structures

Type of structure	Vibration at the foundation, mm/s (Peak Component Particle Velocity)			Vibration at horizontal plane of highest floor at all frequencies
	1 - 10 Hz	10 - 50 Hz	50 - 100 Hz <sup>1</sup>	mm/s (Peak Component Particle Velocity)
Type 1: Buildings used for commercial purposes, industrial buildings and buildings of similar design	20	20 - 40	40 - 50	40
Type 2: Dwellings and buildings of similar design and/or occupancy	5	5 - 15	15 - 20	15
Type 3: Structures that have a particular sensitivity to vibration e.g. heritage buildings	3	3 - 8	8 - 10	8

EPR NV8 criteria

Note: this slide demonstrates the information that is inputted into the vibration action and regenerated noise modelling process to determine compliance with the relevant EPRs



# PROPERTY CONDITION SURVEYS

- First round of property pre-condition survey invitation letters to be distributed between North Melbourne and Parkville the week commencing 17 February
- Letters will be distributed in stages, starting from adjacent to the site of the new Arden Station
- Letters will be sent to the registered property owner/s or their nominated representative (e.g. managing agent)
- All survey bookings to be made directly between the property owner and the independent provider
- Recipients have 60 days to have the survey completed
- A copy of the property condition survey report, including photographs, will be provided to the property owner or their nominated representative (e.g. managing agent).



# TBM RETRIEVAL





# TBM RETRIEVAL – TRANSPORT ROUTES



*Indicative only*



# TUNNELLING COMMUNICATIONS AND ENGAGEMENT

## Communications to potentially impacted properties

- TBM arrival four week out letters
- Tunnelling information sessions
- One-on-one meetings
- TBM 1 arrival letter
- TBM 2 arrival letter



# STAKEHOLDER AND COMMUNICATIONS UPDATE



# ENGAGEMENT AND COMMUNICATIONS UPDATE

## NORTH MELBOURNE AND PARKVILLE

### Notifications and communications

- Arden – North Melbourne substation site establishment and demolition notification (15 January)
- Arden – February/March 2020 Construction Update (2 February)
- Parkville – Grattan Street west service relocations notification (4 February)
- Parkville – February/March 2020 Construction Update (5 February)

### Door knocks, meetings, briefings and events

- Parkville - fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, Graduate House and City of Melbourne
- Parkville – Creative Program Working Group (20 January)
- Parkville – ongoing meetings with businesses regarding Grattan Street west works
- Arden – CP5 business stakeholder health check (30 January)
- Parkville Precinct Reference Group (4 February)
- Parkville – Grattan Street west site walk with Ambulance Victoria (4 February)
- Arden – CP5 resident health check (4 February)
- Arden – meeting with North Melbourne Football Club (4 February)
- Parkville – Communications Working Group (5 February)
- Arden – fortnightly meetings with City of Melbourne (11 December, 22 January, 5 February)



# ENGAGEMENT AND COMMUNICATIONS UPDATE

## NORTH MELBOURNE AND PARKVILLE

### Community issues and enquiries

- Tunnel alignment, strata divestment and property condition survey enquiries

### Upcoming engagement

- Ongoing cross passage ground improvement notifications, meetings and health checks with residents and businesses
- Ongoing meetings with stakeholders for Grattan Street west service relocations and station entrance construction
- Commencement of tunnelling health check door knocks with North Melbourne residents and businesses

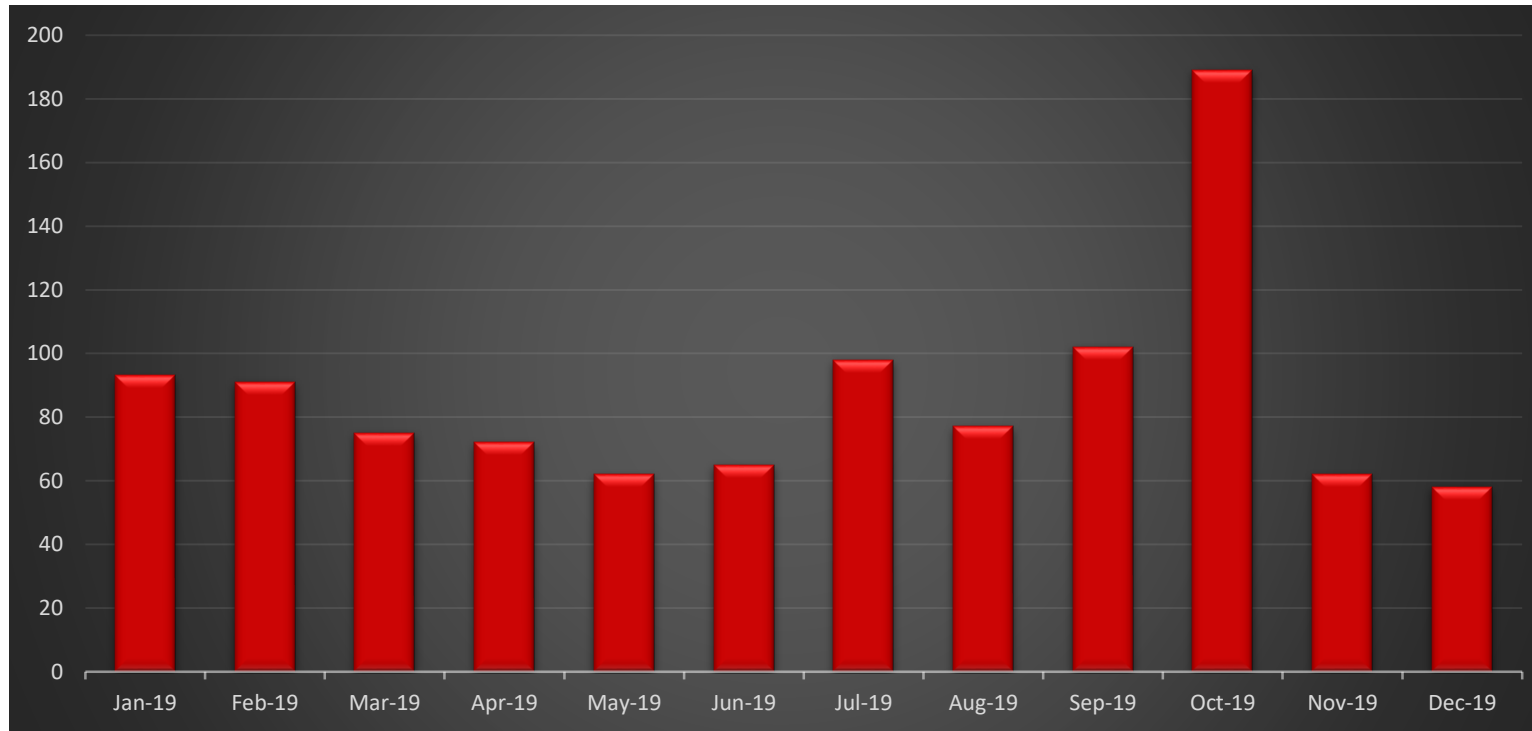


# UPDATE ON METRO TUNNEL PROJECT CONTACT CENTRE





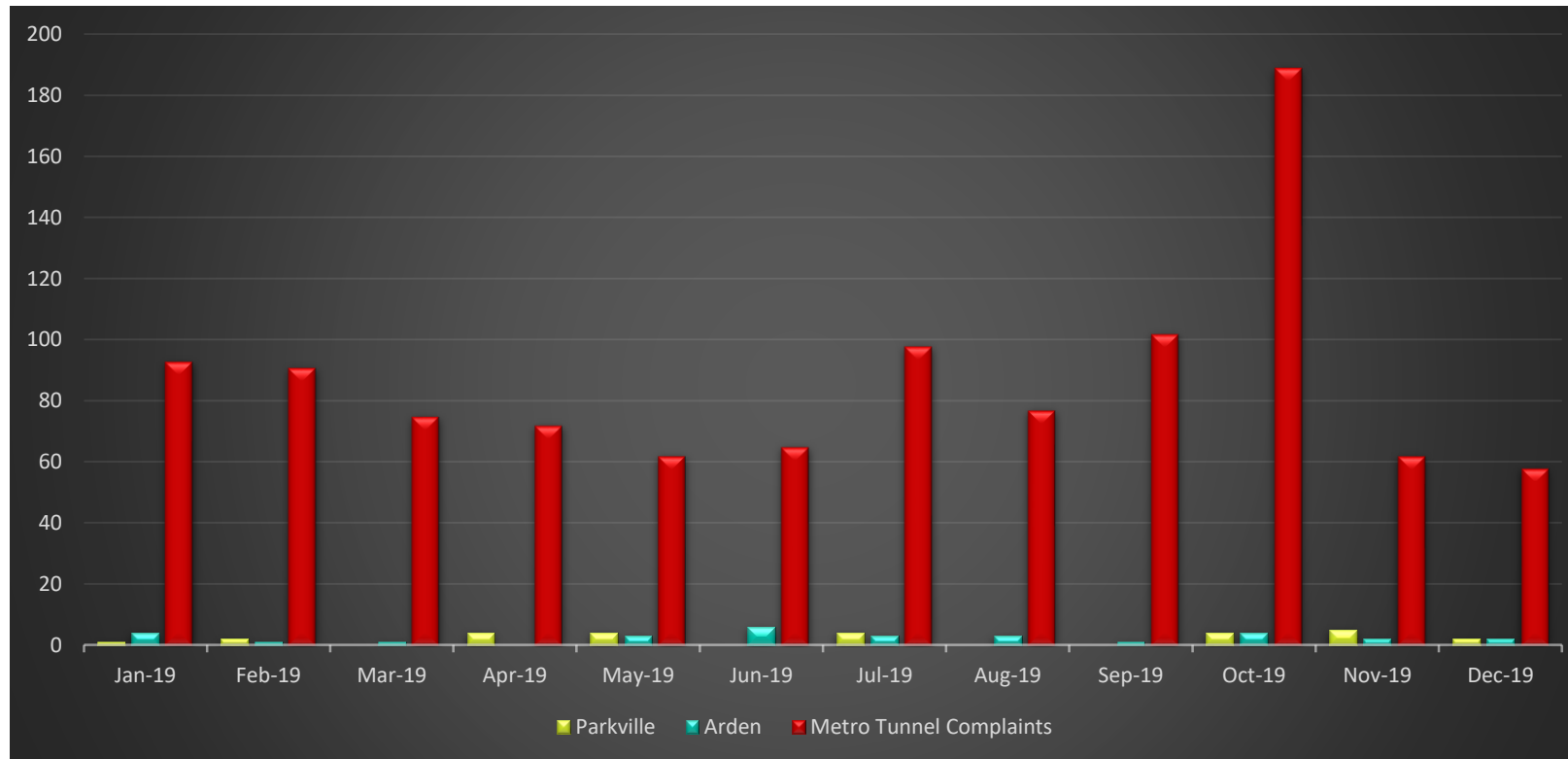
# METRO TUNNEL COMPLAINTS IN 2019



- Total complaints for the whole alignment: 1040 in 2019.

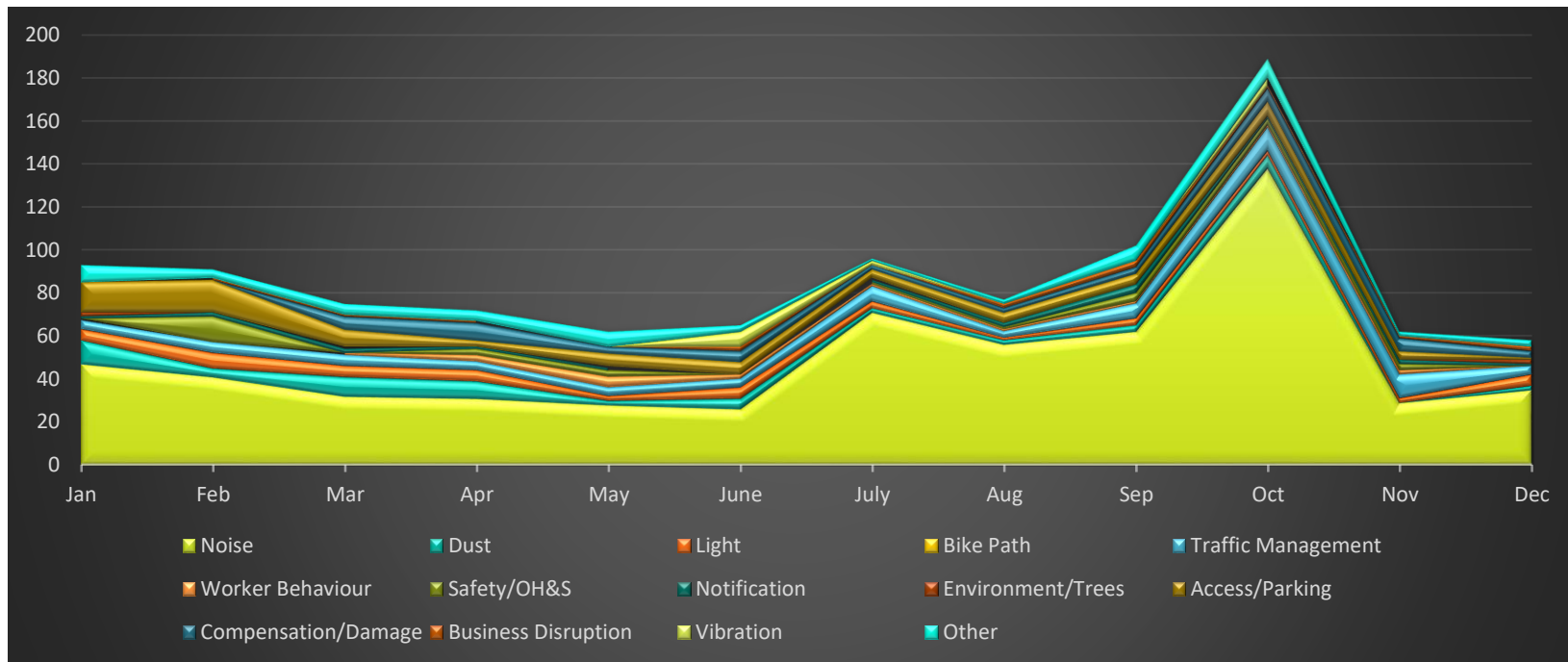


# ARDEN AND PARKVILLE COMPLAINTS IN 2019



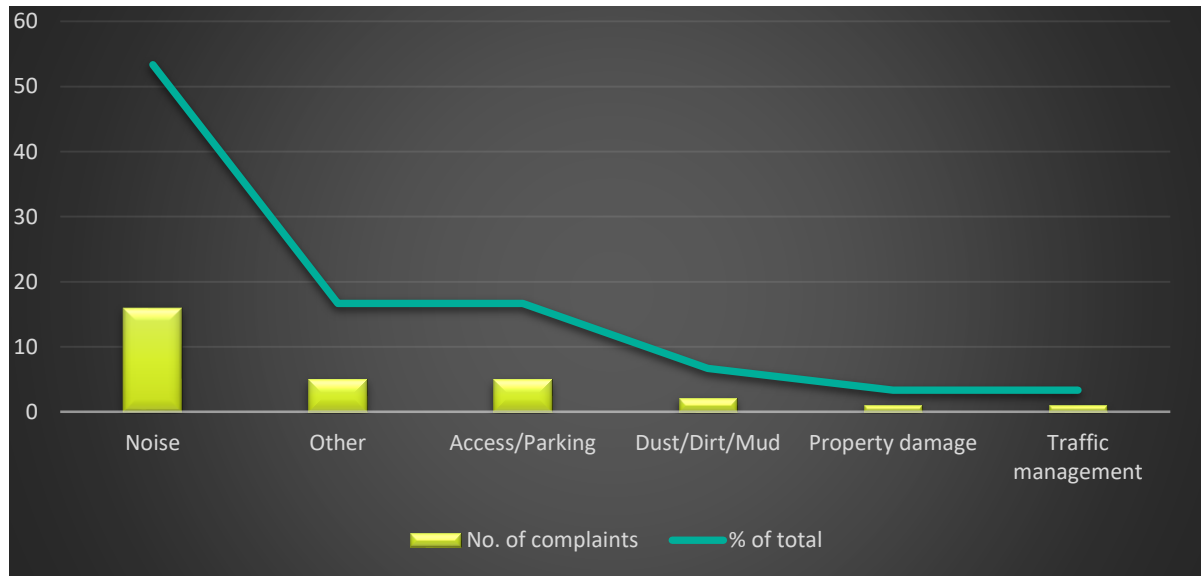
- Parkville 26
- Arden 30
- (approximately 3%)



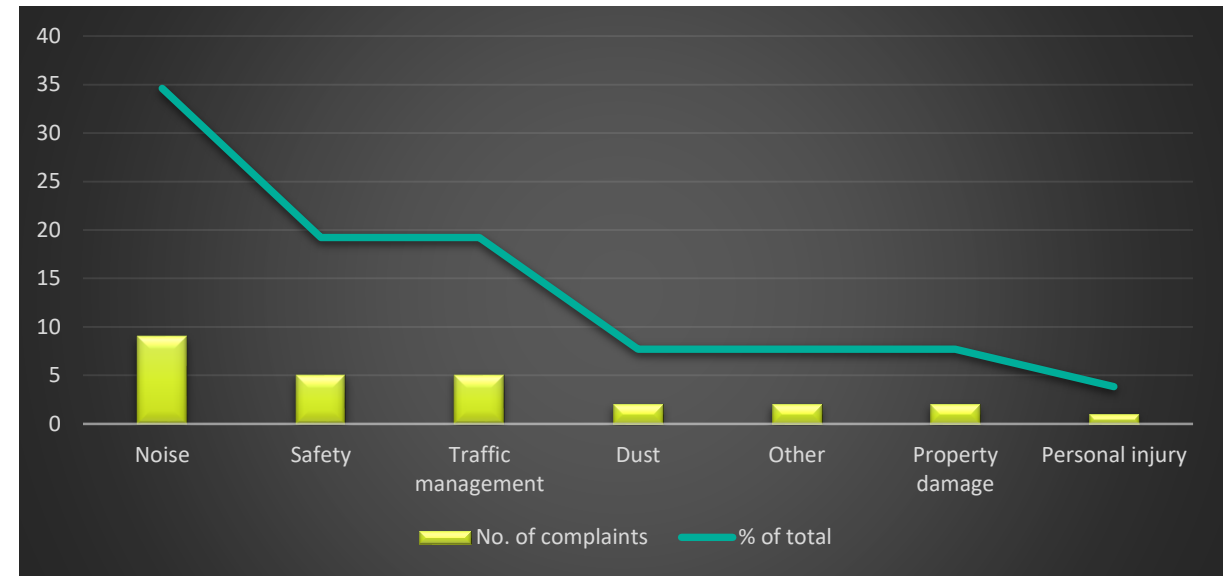




# ARDEN AND PARKVILLE COMPLAINTS IN 2019



Arden complaints (30)



Parkville complaints (26)



# PARKVILLE STORYTELLING UPDATE





# PARKVILLE STORYTELLING PROJECT

- Works are in production
- Install due to commence around Feb 7
- Dedicated webpage with stories at [metrotunnel.vic.gov.au/Parkvillestories](https://metrotunnel.vic.gov.au/Parkvillestories)
- QR codes will link to stories
- Launch event to occur in March 2020, date TBA
- Digital media kits provided to all participating organisations to share on social media channels
- Promotional video to be shot and shared
- Looking into audio recordings of each story by the writer to be loaded onto the webpage.





# CREATIVE PROGRAM UPDATE





# LEGACY ART PROGRAM

## LINE-WIDE ARTIST MAREE CLARKE

- Maree Clarke is a Yorta Yorta / Wamba Wamba / Mutti Mutti / Boonwurrung woman who grew up in Mildura and now lives in Melbourne
- Her line-wide artwork will feature across all five new underground stations – Arden, Parkville, State Library, Town Hall and Anzac
- Other permanent artworks will be installed in the five new stations
- Artists have been shortlisted for Arden, State Library, Parkville and Anzac station artwork commissions. These artists will commence concept development shortly, with the final station artists announced in mid-late 2020.





# LEGACY ART PROGRAM – TOWN HALL EOI

Expressions of interest to create a permanent public artwork for the new Town Hall Station as part of the Metro Tunnel Legacy Artwork Program are open until 5pm 17 February 2020.

<https://metrotunnel.vic.gov.au/about-the-project/creative-program/legacy-artwork/town-hall-station-EOI>

Stakeholders who wish to share precinct specific information to be given to the artists for their consideration can do so here:

<https://www.surveymoz.com/s3/5283679/Metro-Tunnel-Legacy-Arts-Program>

Or you can send information of no more than two pages to:  
[legacyartprogram@metrotunnelcyp-dc.com.au](mailto:legacyartprogram@metrotunnelcyp-dc.com.au)





# QUESTIONS?





# NEXT MEETING

Friday 3 April 2020 at The Larwill, 48 Flemington Road







Western Portal

South Kensington

Arden

Parkville

North Melbourne

Melbourne Central

State Library

Flagstaff

Parliament

Town Hall

Southern Cross

Flinders Street

Richmond

Anzac

South Yarra

Eastern Portal

Sunbury Line

Cranbourne / Pakenham Line