

KENSINGTON COMMUNITY REFERENCE GROUP

MEETING 1 7 FEBRUARY 2019





COMMUNITY REFERENCE GROUPS

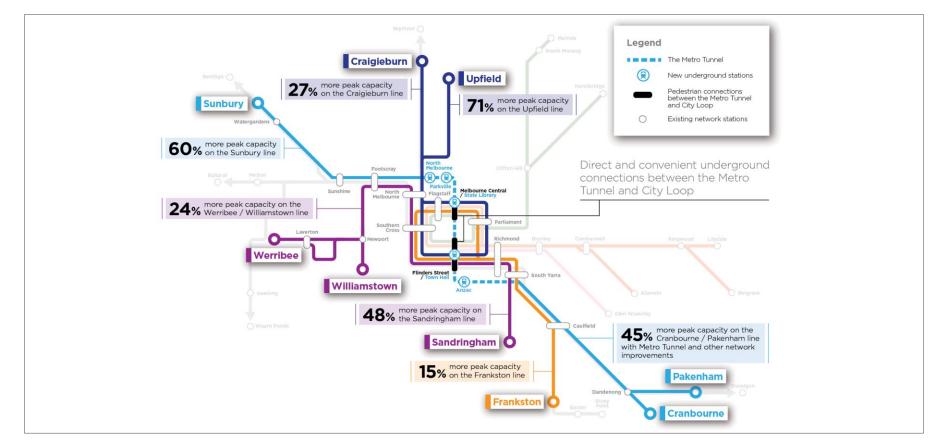
- A Metro Tunnel Environmental Performance Requirement to collectively
 provide for representation of interested and relevant stakeholders
- Kensington and Arden Community Reference Groups (CRG) established October 2017
- Standalone CRG established for Kensington
- Combined Arden and Parkville CRG formed

METRO TUNNEL PROJECT



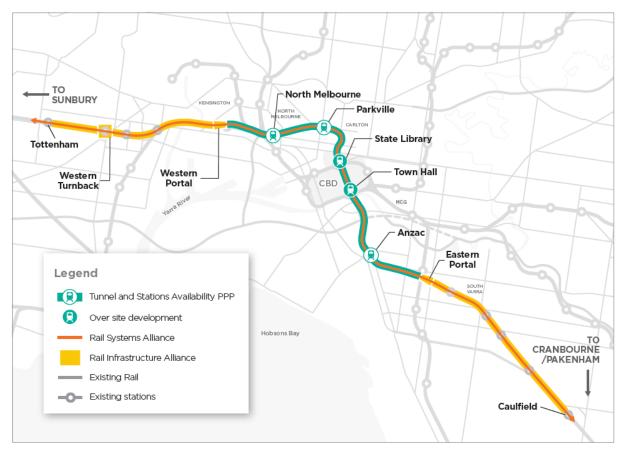


CAPACITY BENEFITS





WORK PACKAGES



TUNNEL AND STATIONS (AVAILABILITY PPP)

- 9km twin tunnels and five underground stations including fit-out
- Mechanical and electrical systems
- Tunnel and stations maintenance
- Rail systems installation within the tunnel

RAIL INFRASTRUCTURE (ALLIANCE)

- Eastern and Western Portals
- Integration of portal with existing rail networks (civil track, overhead line equipment, signalling)
- Eastern and Western Turnback
- Wider network enhancements

RAIL SYSTEMS (ALLIANCE)

- High capacity signalling
- Conventional signalling upgrades and modifications
- Communication systems
- Platform screen doors
- Train control and operational control systems
- Systems integration and end-to-end commissioning



PROJECT TIMELINE

January

Planning approval received for the Metro Tunnel

Preparatory Works commenced

February

Managing Contractor Early Works Plan available for public viewing and comment

April

Approval of Managing Contractor Early Works Plan by the Minister for Planning

Early Works commence

2018

First quarter

Major construction begins on the Tunnel and Stations package

Second quarter

Work begins on the Rail Systems Alliance

2025

Metro Tunnel operational

Tunnel Early Works package

John Holland appointed as

the contractor for the Metro

Metro Tunnel Environment

Effects Statement released

for public exhibition

August

2016

May

June

Public hearings for the Environment Effects Statement commenced

Tunnel and Stations PPP contract bidders shortlisted

September

Rail Systems Alliance contract bidders shortlisted

Third quarter

Rail Systems Alliance contract awarded

Fourth quarter

Tunnel and Stations contract awarded

2017

Third quarter

Rail Infrastructure Alliance contract awarded

Rail Infrastructure Alliance Rail Early Works commence (subject to approval)

Development Plans progressively prepared and displayed for public comment

First quarter

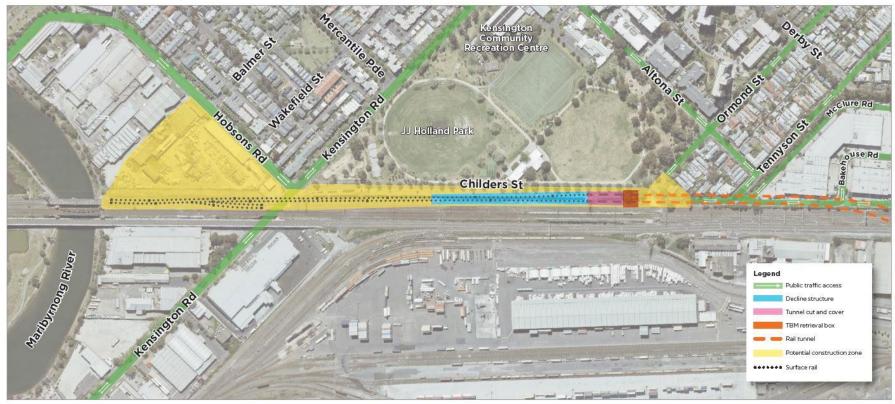
Maior work begins on the Rail Infrastructure Alliance (subject to approval)

2019



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WESTERN TUNNEL ENTRANCE SCOPE



Access maintained through construction site on Childers Street for over-height vehicles accessing the Lloyd Street Business Estate and residents on Childers Street and Tennyson Street (south of the truncation).

DISCUSSION ITEMS

DISCUSSION ITEMS

- Dust management
- Site maintenance

DESIGN DEVELOPMENT

DEVELOPMENT PLAN OVERVIEW

- Mandatory planning approval process for Metro Tunnel contractors
- Contains design sketches and functional layouts detailing legacy

infrastructure and how areas will be reinstated at the end of the project

- Available for public inspection and comment
- Requires approval by the Minister for Planning before major construction works can start

DESIGN PROGRESSION

TIMING	ACTIVITY
May 2018	 Development Plan for the egress building approved (CYP) Stage 1 of major construction, and detailed design, starts
September 2018	 Design integration starts following appointment of RIA
October 2018 – January 2019	 Stakeholder workshops to develop concepts for the western tunnel entrance design (RIA)
February 2019	 Draft Development Plan for the western tunnel entrance on public display (RIA)
Ongoing	Integrated detailed design and refinementCommunity engagement

DRAFT RIA WESTERN PORTAL DEVELOPMENT PLAN

TIMING	ACTIVITY
4 February	Public display period starts Plans available at metrotunnel.vic.gov.au Online survey Letterbox drop and doorknock
6 - 7 February	Community pop-ups at South Kensington station
9 February	Community drop-in information session
22 February	Public display period ends and submissions close
March – April	Collate and respond to public submissions
Mid 2019	Anticipated approval from Minister of Planning

DRAFT DESIGN ELEMENTS



Indicative only

CONCEPT FLOOD WALL ILLUSTRATION



Indicative only

PROGRAM

2018 RECAP

- Tunnel Boring Machine (TBM) retrieval shaft site occupation and establishment – April
- Stage 1 closure of Childers Street August
- Rail-side piling for TBM retrieval shaft July to September
- Start of cross passage ground improvement works September
- Childers Street gas main protection works November to December
- Hobsons Road and Childers Street site preparation and establishment September 2018

2019 MILESTONES

- Major construction on the tunnel entrance infrastructure starts February
- Cross passage ground improvement works in Kensington completed third quarter
- Tunnelling between North Melbourne and Kensington starts mid year
- Retrieval of TBM 1 third to fourth quarter
- Retrieval of TBM 2 fourth quarter



HOBSONS ROAD CAR PARK



CHILDERS STREET SITE ESTABLISHMENT

PROGRESS UPDATE

Recently completed activities

- Car park construction at Hobsons Road
- Childers Street long term closure implemented
- Removal of hedge and seven trees on Childers Street
- Installation of temporary road barriers, site fencing and hoarding
- Gas main protection works
- Cyclist detour line marking and signage
- Road-side pile guide wall construction

PROGRESS UPDATE

Ongoing and upcoming activities

- Site preparation and establishment on Childers Street
- Site and service investigations on Childers Street
- Rail embankment retaining wall
- 24 hour works in rail corridor (10-14 Feb & 23-25 Feb)
- Road-side piling for TBM retrieval shaft
- Cross passage ground improvement works (Lloyd Street, Lloyd Street Business Estate)



CONSTRUCTION PROGRAM

Activity	Feb	Mar	Apr	May	Jun
Childers Street site establishment					
Site and service investigations					
Rail embankment retaining wall piling					
Temporary bentonite plant construction					
Relocation of overhead rail structures & signalling cables					
Driven piling works					
Diaphragm wall works					
Road-side bored piling					
Cross passage ground improvement works					
Hoarding construction & painting					

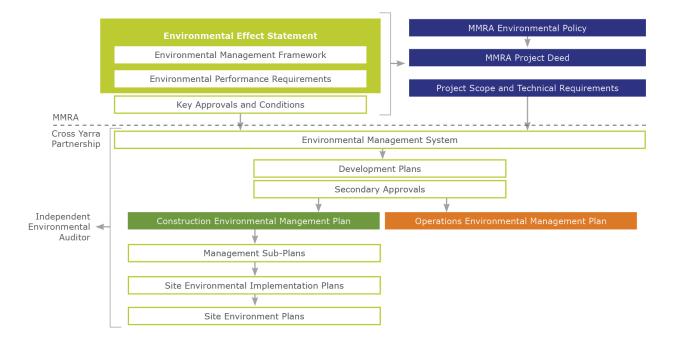
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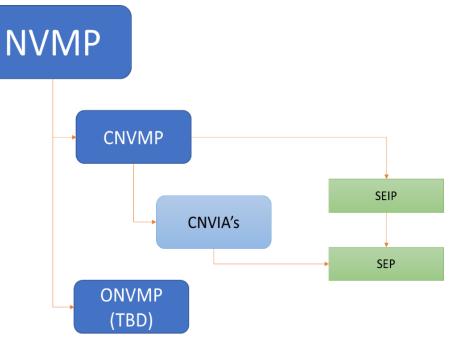
RAIL-SIDE PILING, CHILDERS STREET

ENVIRONMENT UPDATE

ENVIRONMENTAL MANAGEMENT FRAMEWORK



NOISE AND VIBRATION



NOISE AND VIBRATION – CNVIA

Construction Noise & Vibration Impact Assessment (CNVIA)

- · Identification of sensitive receivers
- Description of site specific works
- Baseline measurement results
- Site specific noise and vibration management targets
 - EPR guideline targets
 - Residential Impact Mitigation Guidelines

o EPA 1254

- Predictions of noise and vibration impacts
- Site monitoring regime

NOISE AND VIBRATION – MONITORING

Monitoring:

- Attended:
 - Check change to construction methodology
 - Subjective information to refine construction methods
 - Differentiate between construction noise sources and other sources such as road traffic
- Ongoing during works:
 - Regularly review data
 - Determine if further mitigation required



NOISE AND VIBRATION – MONITORING

- Unattended:
 - 24hr real time monitoring regime
 - Alerting system to ensure guidelines are adhered too
 - Data reported on monthly to RPV
 - Data audited quarterly by the Independent Environmental Auditor

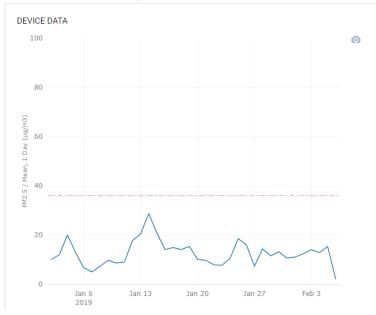
SPOIL MANAGEMENT

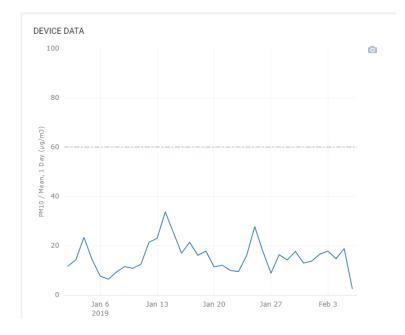
- Soil sampling and classification using EPA guidelines
- Transported using covered trucks and approved haulage routes
- Transported to pre-determined location and facility licensed to accept each type of waste
- On-site dust mitigation:
 - Water cart/hoses to wet down exposed earth
 - Polymer spray
 - Street sweepers on surrounding roads
 - Air quality monitoring

ENVIRONMENTAL MONITORING

January – February 2019

• Air Quality





ENVIRONMENTAL MONITORING

January – February 2019

- Attended noise monitoring, road-side piling (15min Laeq)
 - 133 Ormond 60dBa; modelled 74dBa
 - 123 Ormond 58dBa; modelled 69dBa
 - KCCC 54dBa; modelled 56dBa

CONSTRUCTION NOISE – SHEET PILING

- Noise is a subjective issue experienced differently by everyone
- There is no **one size fits all** approach
- Predictive noise modelling assessments underway
- Factors considered for proactive mitigation:
 - Proximity to works
 - Individual considerations
 - Special circumstances
- Encourage residents to contact project to discuss mitigation options

ENVIRONMENTAL MODELLING

Sheet Piling Works (mostly during normal construction hours)

- Kensington Road precinct: modelled 56 64 Db
- Childers Street/Altona Street precinct: modelled 57 61 Db
- No anticipated highly noise affected properties

TRAFFIC AND TRANSPORT

TRAFFIC MANAGEMENT

Ongoing activities

- Childers Street closed to through traffic (authorised vehicles only)
 - Pedestrian and cycling detours in place
 - Offset car park established

TRAFFIC MANAGEMENT

Upcoming activities

- Increased truck movements associated with the delivery of machinery and materials
- Traffic management on Kensington and Hobsons roads, and Childers Street during nondestructive digging (NDD) works
- Overnight road closures of Kensington Road for bentonite plant gantry installation
- Some overnight closures of Lloyd Street to install pipes beneath roads (access to LSBE maintained via Childers Street)
- Traffic management within LSBE for ground improvement works

DETOUR ROUTES





TEMPORARY DETOUR, CHILDERS STREET

TRANSPORT CHANGES

So 24 hour works can take place safely, buses will replace trains from Sunday 10 February to Wednesday 13 February, from 8.30pm to the last service each night on the:

• Werribee and Williamstown lines: between North Melbourne, Newport and Williamstown stations.

Buses will also replace trains at various times in late February and March. These disruptions will take place outside of peak times.

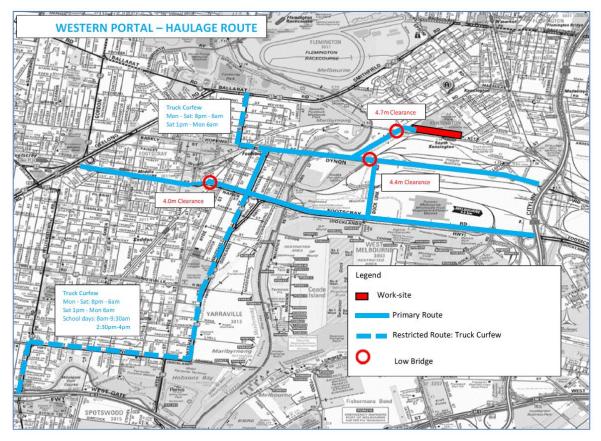
COMMUNITY UPDATE

TOP ISSUES

Key issues raised during January

- Use of temporary over-height vehicle detour route
 - Responses to individual enquiries and stakeholder feedback
- Truck movements along Kensington Road
 - o Raised at pre-starts and with sub-contractors
- Parking in local streets
 - Raised at pre-starts and with sub-contractors
- Dust around Childers Street
 - Water carts on site to mitigate

TRUCK HAULAGE ROUTE



CREATIVE PROGRAM UPDATE

Hoarding artwork

- Designed and painted by artist Mike Makatron
- Painting at 135 Ormond, 13 16 February
- Painting at JJ Holland Park, 18 25 February
 - Kensington Children's Co-operative and Unison Community Housing painting event, 19 February
- Community celebration Kensington Community Festival, 31 March

OTHER ITEMS?

