

Sydney Metro WSA - SSTOM - OHE - E57 Orchard Hills Station Consultation report

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Parklife Metro D&C

Version Control

Revision	Author	Date	Comments	Approved by
A	B.Shamal	16/01/2024	Initial draft	R.Noakes
B	C. Kennedy	23/01/2024	Updated as per SM Comments	R. Noakes

Signature	
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Details of Revision Amendments Document Control

The Parklife Metro Environment Manager and the Parklife Metro Stakeholder & Community Engagement Director are responsible for ensuring this report is reviewed and approved and updated as required.

The Parklife Metro Community & Stakeholders Place Manager is responsible for the consultation and updating of this report, as required.

Amendments

Any revisions or amendments must be approved by the Environment Manager and the Stakeholder & Community Engagement Director before being distributed and implemented.

Contents

Glossary	4
1 Overview	5
1.1 Project background	5
1.2 SSTOM scope of works	5
1.2.1 Orchard Hills Metro Station	8
1.3 Out-of-hours scope of works	8
2 Conditions of Approval requirements	9
2.1 Out-of-hours Works – Community Consultation on Respite	9
2.2 Respite eligibility	9
2.3 Mitigation measures and planned respite	10
3 Consultation tools and channels	11
3.1 Communications tools	11
3.2 Communication activities timeline	12
3.3 Stakeholder list	12
3.4 Distribution maps	13
4 Conclusion	14
Appendix A Impacted properties and consultation records	15
Appendix B Communication materials	16

Glossary

Standard terms and definitions.

TABLE 1. STANDARD TERMS

Term	Definition
Project	Sydney Metro – Western Sydney Airport
Parklife Metro	Consortium comprising entities of Plenary, Siemens Mobility, Siemens Financial Services, WeBuild and RATP Dev as successful contractors for the Sydney Metro Western Sydney Airport SSTOM Package.
Parklife Metro D&C	Parklife Metro Design and Construct. Consists of WeBuild S.P.A, Siemens Mobility Pty Ltd. Responsible for the construction of SSTOM Works

TABLE 2. ABBREVIATIONS

Term	Definition
CCMS	Construction Complaints Management System
CCS	Community Communications Strategy
CEMP	Construction Environmental Management Plan
CNVS	Sydney Metro Construction Noise and Vibration Standard
CNVIS	Construction Noise and Vibration Impact Statement
CNVMP	Construction Noise and Vibration Management Plan
CoA	Conditions of Approval
CSSI	Critical State Significant Infrastructure
DNVIS	Detailed Noise and Vibration Impact Statement
DPE	Department of Planning and Environment
EPA	NSW Environment Protection Authority
EPL	Environmental Protection Licence
OOH	Out-of-hours
OOHW	Out-of-hours work
OSOM	Over-size over-mass
SBT	Station boxes and tunnelling works
SCAW	Surface and civil alignment works
SM-WSA	Sydney Metro – Western Sydney Airport
SSTOM	Stations, Systems, Trains, Operations and Maintenance

1 Overview

This E57 Community Consultation Report provides a summary of consultation undertaken by Parklife Metro in accordance with Condition of Approval E57, with respect to out-of-hours (OOH) deliveries of plant and equipment proposed at Orchard Hills Metro Station.

1.1 Project background

The Sydney Metro – Western Sydney Airport (SM-WSA) will become the transport spine for Greater Western Sydney, connecting communities and travellers with the new Western Sydney International (Nancy-Bird Walton) Airport and the growing region.

The city-shaping project, from St Marys through to the new airport and the Western Sydney Aerotropolis (the new suburb of Bradfield), will provide a major economic stimulus for western Sydney, supporting more than 14,000 jobs during construction for the NSW and national economies.

Jointly funded by the Australian and NSW Governments, the 23-kilometre new railway will link residential areas with job hubs including the new Aerotropolis and connect travellers from the new airport to the rest of Sydney's public transport system.

The Australian and NSW governments have awarded all three major contracts for the Sydney Metro – Western Sydney Airport project:

- Station boxes and tunnelling (SBT) – currently in delivery
- Surface and civil alignment works (SCAW) – currently in delivery
- Stations, Systems, Trains, Operations and Maintenance (SSTOM) – works commencing mid-late 2023.

1.2 SSTOM scope of works

In December 2022, the largest ever Public Private Partnership (PPP) contract in New South Wales, was awarded to Parklife Metro for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) works for the Sydney Metro - Western Sydney Airport Project.

Parklife Metro will deliver:

- Around 4.3km of twin rail tunnels (generally located side by side) between St Marys (the Northern extent of the project) and Orchard Hills
- A cut-and-cover tunnel around 350 metres long (including tunnel portal), transitioning to an in-cutting rail alignment south of the M4 Western Motorway at Orchard Hills
- Around 10km of rail alignment between Orchard Hills and Western Sydney International, consisting of a combination of viaduct and surface rail alignment
- Around two kilometres of surface rail alignment within Western Sydney International Airport
- Around 3.3km of twin rail tunnels (including tunnel portal) within Western Sydney International Airport
- Around 3km of twin rail tunnels between Western Sydney International Airport and the Aerotropolis Core
- Six new Metro Stations:
 - St Marys (providing an interchange with the existing Sydney Trains suburban rail network)
 - Orchard Hills
 - Luddenham
 - Airport Business Park
 - Airport Terminal

- Aerotropolis (the new Western Parkland City)
- Grade separation of the track alignment at key locations including:
 - Where the alignment interfaces with existing infrastructure such as the Great Western Highway, M4 Western Motorway, Lansdowne Road, Patons Lane, the Warragamba to Prospect Water Supply Pipelines, Luddenham Road, the future M12 Motorway, Elizabeth Drive, Derwent Road and Badgerys Creek Road
 - Crossings of Blaxland Creek, Cosgroves Creek, Badgerys Creek and other small waterways to provide flood immunity for the Project
- Modifications to the existing Sydney Trains station and rail infrastructure at St Marys (where required) to support interchange and customer transfer between the new metro station and the existing Sydney Trains suburban rail network
- A stabling and maintenance facility and operational control centre located to the south of Blaxland Creek and east of the proposed metro track
- New pedestrian, cycle, park-and-ride and kiss-and-ride facilities, public transport interchange infrastructure, road infrastructure and landscaping as part of the station precincts.

Parklife Metro will also operate and maintain the Sydney Metro – Western Sydney Airport (SM-WSA) line, and its assets for 15 years after it becomes operational in 2026.

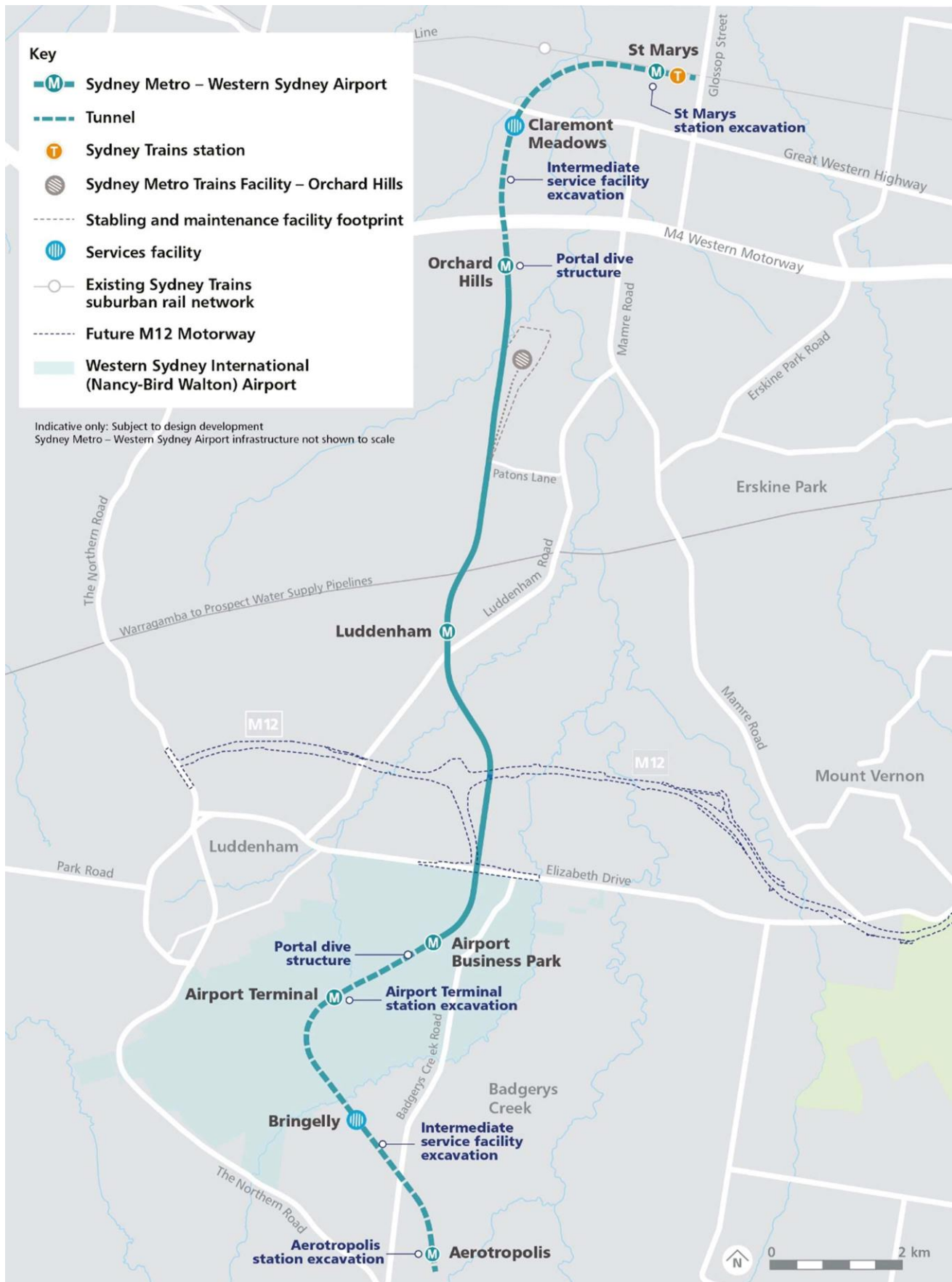


FIGURE 1 MAP OF THE SM-WSA PROJECT ALIGNMENT, AND STATION LOCATIONS

FIGURE 1. MAP OF THE SM-WSA PROJECT ALIGNMENT, AND STATION LOCATIONS

1.2.1 Orchard Hills Metro Station

The Orchard Hills Metro Station will be a surface station, situated in a shallow cutting and will feature an island platform. It will be positioned on the eastern side of Kent Road, just north of Lansdowne Road. The station will have one entrance on Kent Road, with provision for a second entrance to be built east of the station in the future.

Key features and benefits of the Orchard Hills Metro Station will include:

- Secure bicycle parking
- Park-and-ride facilities, with a capacity of up to 500 spaces
- Transport interchange facilities, including bus bays and shelters, kiss-and-ride bays, and point-to-point vehicle facilities
- Upgrades to Kent Road and Lansdowne Road, which will involve the construction of new precinct roads, installation of new pedestrian crossings, and the creation of a new public plaza adjacent to the proposed station entrance
- Potential for future station retail amenities

1.3 Out-of-hours scope of works

Some activities, such as over-size over-mass equipment deliveries must be carried out at night when there is approval to occupy the roadway, to minimise traffic disruption and reduce safety risks to workers and road users.

Deliveries requiring out-of-hours work (OOHW) will include:

- Mobile cranes
- Piling rigs
- Excavators
- Tower crane components.

2 Conditions of Approval requirements

This E57 Community Consultation Report provides a summary of consultation undertaken in accordance with Condition of Approval E57 with respect to out of hours works activities proposed at the Orchard Hills Metro Station site.

2.1 Out-of-hours Works – Community Consultation on Respite

E57 states:

In order to undertake out-of-hours work outside the work hours specified under Condition E38, appropriate respite periods for the out-of-hours work must be identified in consultation with the community at each affected location on a regular basis. This consultation must include (but not be limited to) providing the community with:

- (a) a progressive schedule for periods no less than three (3) months, of likely out-of-hours work;
- (b) a description of the potential work, location and duration of the out-of-hours work;
- (c) the noise characteristics and likely noise levels of the work; and
- (d) likely mitigation and management measures which aim to achieve the relevant NMLs under

Condition E43 (including the circumstances of when respite or relocation offers will be available and details about how the affected community can access these offers).

The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour work must be provided to the ER, EPA and the Planning Secretary prior to the out-of-hours work commencing.

Note: Respite periods can be any combination of days or hours where out-of-hours work would not be more than 5 dB(A) above the RBL at any residence.

2.2 Respite eligibility

In accordance with the Sydney Metro Construction Noise and Vibration Standard (CNVS), the Construction Noise and Vibration Management Plan (CNVMP), and the Detailed Noise and Vibration Impact Statements (DNVIS); receivers are eligible for respite during out-of-hours activities when works are predicted to:

- Exceed 20-30dB LAeq above the noise management levels during the Evening period (6pm to 10pm)
- Exceed 10-20dB LAeq above the noise management levels during the night time period (10pm to 7am)
- Receivers are identified as highly noise impacted (>75dB)

Additional mitigation measures as per the CNVS, CNVMP and DNVIS are included in Table 1 below.

TABLE 1. OUT-OF-HOURS MITIGATION MEASURES AS PER THE PROJECTS ENVIRONMENTAL PLANNING DOCUMENTS

Time period		Mitigation measures for predicted LAeq (15 minute) airborne noise level above NML			
		0-10dB	10-20dB	20-30dB	>30dB
Approved construction hours	Mon-Fri (7:00am - 6:00pm)	-	LB	LB, M, SN	LB, M, SN
	Sat (8:00am – 1:00pm)				
	Sun/Pub Hol (Nil)				
OOHW (Evening)	Mon-Fri (6:00pm – 10:00pm)	LB	LB, M	LB, M, SN, RO	LB, M, SN, IB, PC, RO
	Sat (1:00pm – 10:00pm)				
	Sun/Pub Hol (8:00am – 6:00pm)				
OOHW (Night)	Mon-Fri (10:00pm – 7:00am)	LB	LB, M, SN, RO	LB, M, SN, IB, PC, RO, AA	LB, M, SN, IB, PC, RO, AA
	Sat (10:00pm – 8:00am)				
	Sun/Pub Hol (6:00pm – 7:00am)				

NOTE: Phone calls (PC), Monitoring (M), Individual briefings (IB), Alternative Accommodation (AA), Specific Notification (SN), letterbox drop (LB), Duration Reduction (DR), Project Specific Respite Offer (RO).

2.3 Mitigation measures and planned respite

This work is expected to generate intermittent periods of noise, when the delivery trucks have reached site, and unloading the equipment. For the proposed out-of-hours work, the following mitigation measures and respite will be implemented:

- Noise monitoring will be undertaken to confirm our noise modelling, and inform additional mitigation measures, as required
- All vehicles will be turned off when not in use, non-tonal reversing alarms will be fitted to plant and machinery, and trucks will avoid reversing, where feasible
- Temporary lighting will be directed away from properties, to avoid light spill
- Communication will be limited to radios only when moving and unloading equipment, with no use of horns or loud radios
- Use of rubber faced mullets instead of hammers to reduce metal to metal contact
- Ongoing doorknocks and consultation, to seek further feedback, and to be able to address any reasonable concerns
- Co-ordination of out-of-hours works with neighbouring projects SBT and SCAW to minimise cumulative noise impact to sensitive receivers

3 Consultation tools and channels

Community consultation has been undertaken prior to commencement of the out-of-hours work in accordance with the PLM Community Communications Strategy (CCS) and the Project's Environmental Protection Licence (EPL) 21807.

3.1 Communications tools

Consultation includes a range of tools including:

Type	Purpose and use
Monthly construction updates	A construction update distributed at the start of each month, providing details on: • A progressive schedule of upcoming construction activities, including any OOHW • Hours of work, and durations • Equipment used on site • Traffic, pedestrian and cyclist routes on any changes, closures, and/detours • Likely impacts of construction activities, including noise, vibration, traffic, access, and dust • Mitigation measures to reduce the impacts of activities • Work location maps • Contact details, including how feedback can be provided
Specific notifications	Specific notification distributed to those identified as impacted receivers during the OOHW. Specific notification is used to support the monthly construction updates and OOHW notifications, to provide additional details on the impacts, and any changes that may occur.
Doorknocks	Doorknocks to impacted properties
Community Information Line: 1800 717 703	Provides community access to the project communications team during construction hours. OOH complaints will be referred to the on-call Place Manager.
Sydney Metro email: sydneymetrowsa@transport.nsw.gov.au	Provides access during business hours to the Sydney Metro project communications team. Website enquiries are directed through this email address.
Postal address for written feedback: Sydney Metro, PO BOX K659 Haymarket, NSW 1240	Provides access to the broader Sydney Metro project. Address is included in all notifications and newsletters.
Consultation Manager	All interactions with stakeholders will be recorded in this database which is established by Sydney Metro.

3.2 Communication activities timeline

TABLE 3. COMMUNICATION ACTIVITIES TIMELINE

Date	Activity	
24 January 2024 (Planned)	Monthly construction update to 200m radius of site, which included proposed out-of-hours activities	Also includes: Notification uploaded to SM website
19 January 2024	Door knock properties listed in Appendix A	SWMY notification slips left if no contact was made (see Appendix B – Specific Notification).

3.3 Stakeholder list

TABLE 4.

Stakeholder	Location	Communication activities
Broader distribution area	200m of site – Orchard Hills Metro Station	Monthly notifications
		OOHW notifications
		Campaign emails
Impacted properties and nearby residents	107-111 Kent Road	Monthly notifications
	76-82 Samuel Marsden Road	Specific notifications
	116 Samuel Marsden Road	Campaign emails
	2 Lansdowne Rd	Doorknocks
	14 Lansdowne Road	Targeted emails
	40B Lansdowne Road	
	95 Kent Road	
	50 Lansdowne Road	
	56 Lansdowne Road	

3.4 Distribution maps

FIGURE 2. DISTRIBUTION MAP - 200M RADIUS OF SITE

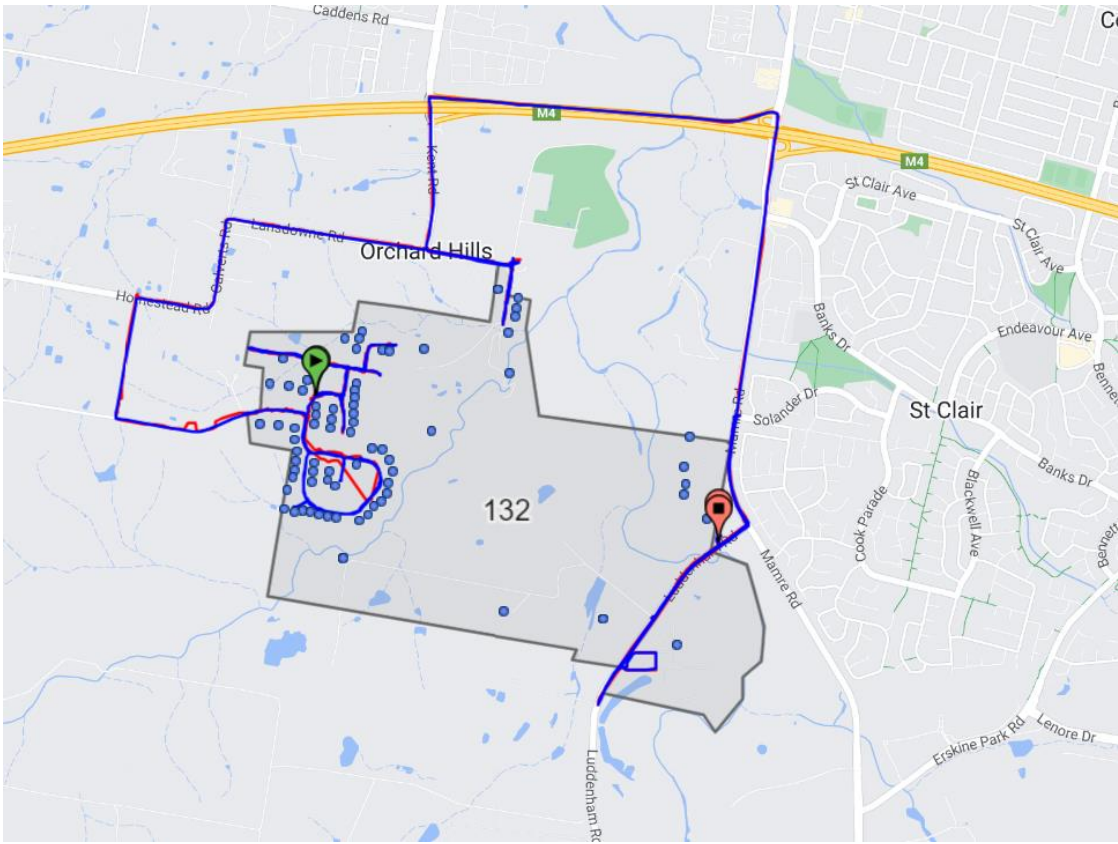


FIGURE 2 DISTRIBUTION MAP - 200M RADIUS OF SITE

FIGURE 3. NOISE MODELLING MAP SHOWING PROPERTIES CONSULTED WITH IN THE 10 – 20 DB AMM CATEGORY

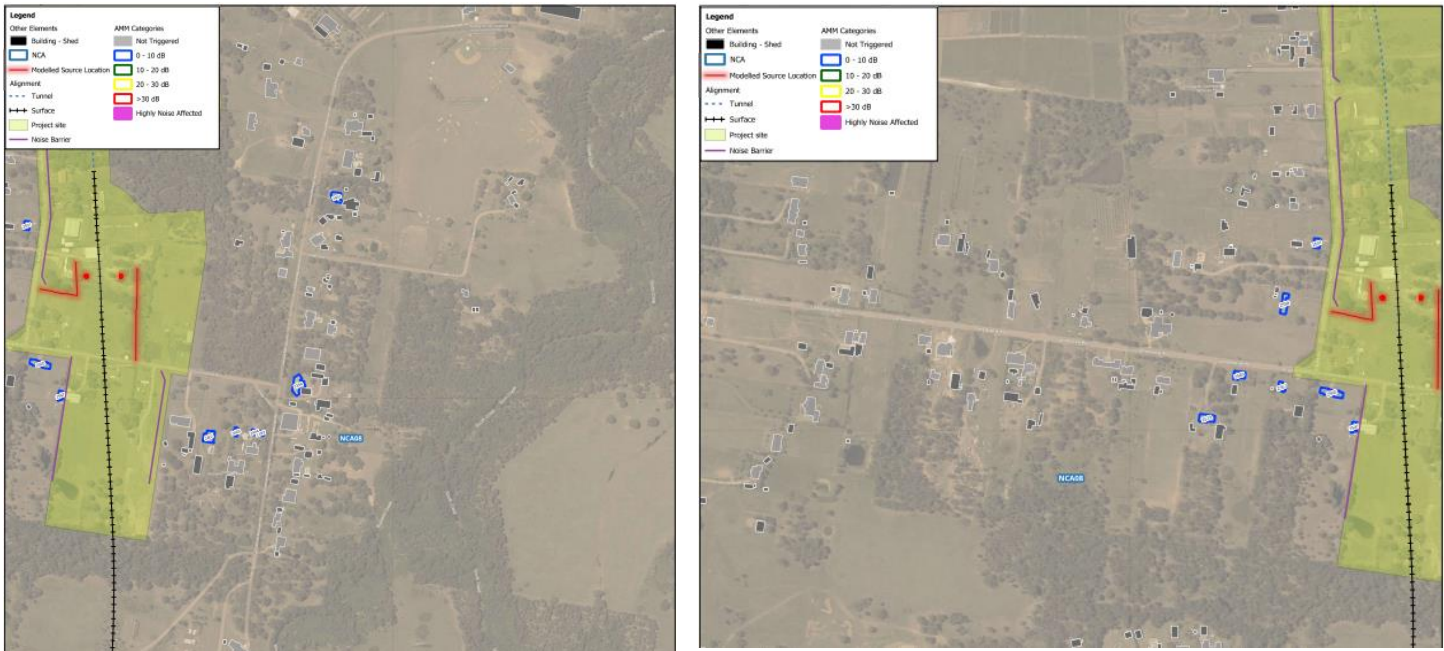


FIGURE 3 . NOISE MODELLING MAP SHOWING PROPERTIES CONSULTED WITH IN THE 10 – 20 DB AMM CATEGORY

4 Conclusion

All consultation undertaken to date, including monthly construction updates, doorknocks and OOHW to receivers identified as the most highly noise impacted /closest to the works has resulted in no feedback or preferences on specific mitigation measures or respite periods.

The standard mitigation measures and respite requirements established in the Sydney Metro Construction Noise and Vibration Standard and Project EPL 21807, will be implemented during the works and follow-up consultation will be undertaken by the Parklife Metro Community Place Manager to ascertain the effectiveness of the implemented controls and seek additional feedback.

As per E57, if any feedback is received it will be considered and implemented where feasible, and any specific feedback or preferences on mitigation measures will require a revision of the DNVIS.

Appendix A Impacted properties and consultation records

Residential address	Notification undertaken	Date	Outcome
• 107-111 Kent Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 76-82 Samuel Marsden Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 116 Samuel Marsden Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 2 Lansdowne Rd	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 14 Lansdowne Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 40B Lansdowne Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 95 Kent Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 50 Lansdowne Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.
• 56 Lansdowne Road	OOHW notification Monthly construction update Doorknocks	19 January 2024	No answer or feedback provided.

Appendix B Communication materials

MONTHLY CONSTRUCTION UPDATE

Sydney Metro – Western Sydney Airport

Notification – Orchard Hills Metro Station and the Stabling and Maintenance Facility

24 January 2024

Sydney Metro is Australia's biggest public transport project.

Sydney Metro – Western Sydney Airport is the new metro railway line which will service Greater Western Sydney and the new Western Sydney International (Nancy-Bird Walton) Airport. A city-shaping project, the 23-kilometre new railway will connect the Western Sydney Aerotropolis in the south with St Marys in the north – where customers can connect to the existing Sydney Trains suburban T1 Western Line. The NSW and Australian governments have a shared objective of having Sydney Metro – Western Sydney Airport operational when the airport opens for passenger services.

Parklife Metro consortium was awarded the Stations, Systems, Trains, Operations, and Maintenance (SSTOM) contract for Sydney Metro – Western Sydney Airport in late December 2022.

Parklife Metro will deliver 12 new metro trains, six new stations between St Marys and the new Aerotropolis, rail systems and the stabling and maintenance facility to be built at Orchard Hills. Parklife Metro will operate and maintain the Western Sydney Airport line for 15 years after it becomes operational.

Work during February

- Site establishment works including the delivery of site sheds, temporary power supply, construction and sealing of internal haulage roads at SMF
- Minor civil works for the hardstand and parking areas including foundations, backfilling and levelling, line markings, fencing and site signage at SMF
- Bulk earthworks including the delivery of quarry materials, stockpiling and filling of main site areas at SMF
- Commencement of piling and associated works (pile trimming) including mobilization of subcontractor plant and equipment, pile cages and concrete deliveries to Orchard Hills Station site
- Crane pad runway formation on the western side of the Station box at Orchard Hills Station site
- Geotechnical testing and environmental controls across the sites

Out-of-hours work activity includes:

- Ongoing deliveries of over-sized equipment, machinery, and materials
- Oversize over-mass deliveries of piling rigs, mobile cranes and tower crane components.
- Steel fixing, formwork, waterproofing, concrete pours and dewatering.

What to expect

- Work may generate some noise, but impact is expected to be minimal
- Work will be completed during standard construction hours **Monday to Friday, 7am to 6pm and Saturday, 8am to 1pm**. Nearby residents and businesses will be notified in advance of any likely out-of-hours work
- An increase in small to medium vehicles entering the project alignment site via Kent Road (Gate K2) at Orchard Hills Metro Station site, and Patons Lane at the Stabling and Maintenance Facility site.
- Increased vehicle movements on surrounding roads
- Communication will be limited to radios only when moving and unloading equipment, with no use of horns or loud radios
- Traffic control and signage to safely assist motorists, pedestrians, and cyclists



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- Most of our work will be completed during standard construction hours **Monday to Friday, 7am to 6pm** and **Saturday, 8am to 1pm**
- Out-of-hours work activities will be carried out to mitigate quality and safety risks, and in line with the project Environment Protection Licence, Road Occupancy Licences, and Transport for NSW requirements. *Surrounding residents and businesses will be notified in advance of any out-of-hours work.*

Equipment used:

Includes (but is not limited to) excavators, cranes, dozers, graders, rollers, vacuum truck, cranes, piling rigs, water carts, heavy and light site vehicles, watercart, generators, survey equipment (marker pegs and pickets, flagging) and traffic management devices, concrete agitators, water carts, pneumatic drills, concrete saws, bobcats, chain saws, telehandler and hand tools.

Orchard Hills Metro Station and the Stabling and Maintenance Facility work areas



Contact us

Please contact Bella, the dedicated Place Manager from the Parklife Metro community team on **1800 717 703** or emailing sydneymetrowsa@transport.nsw.gov.au if you have any questions, or would like to provide feedback about the work, including appropriate respite periods.

We will continue to keep you updated on the progress of work in your area. If you would prefer to receive updates by email, please send a request to sydneymetrowsa@transport.nsw.gov.au and we will add you to the distribution list.

We value your input regarding our communications approach and engagement. Thank you for your cooperation while we complete this essential work.

Contact us



24-hour Community Information Line **1800 717 703**



sydneymetrowsa@transport.nsw.gov.au



Sydney Metro – Western Sydney Airport,
PO Box K659, Haymarket NSW 1240



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them to call us on **1800 717 703**.

Out-of-hours work - Orchard Hills Metro Station

Friday, 19 January 2024

We will be undertaking out-of-hours work (OOHW) to deliver oversized equipment to the Orchard Hills Metro Station site. Equipment to be delivered will include a 70-tonne mobile crane, piling rigs and excavators.

We will require one shift on **Wednesday, 24 January 2024** to complete the delivery, weather and site conditions permitting. If our delivery cannot occur due to wet weather, deliveries will be rescheduled to the next dry weather between **Monday, 29 January** and **Friday, 2 February 2024**. Our work hours will be between **6pm and 7am**.

Due to the size of the equipment being delivered, this work will be carried out at night when there is approval to occupy the roadway, to minimise traffic disruption, and reduce safety risks to workers and road users. We will take every step possible to minimise noise impacts, however there will be times when the work may be intermittently noisy. Mitigation measures will be in place to minimise these impacts, including noise monitoring during our work. Please see attached notification for further information.

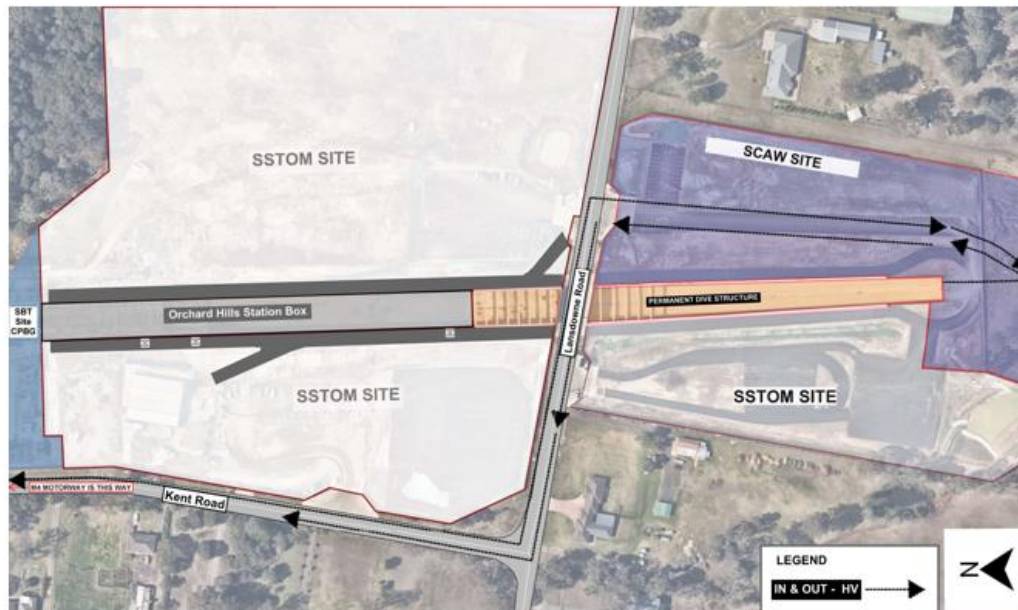
Please contact Bella, the dedicated Place Manager from the Parklife Metro community team on **1800 717 703** or email sydneymetrowsa@transport.nsw.gov.au if you have any questions or would like to provide feedback about the work.

Thank you for your patience during this essential work.



Sydney Metro – Western Sydney Airport - PLM0008

Out-of-hours work location:



Access information in over 100 languages

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