

Rozelle Interchange

WestConnex

Transurban

Air Quality Community Consultative Committee

Meeting 14

3 September 2024



Agenda



Agenda

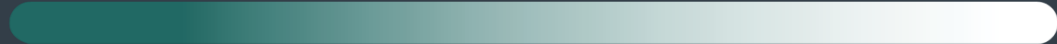
- Welcome, declarations of interest, actions from previous meeting, Transurban contact change
- Air quality items raised by community members
- **Updates from the project team:**
 - Overview of air quality complaints since last meeting
 - Update on air quality monitoring stations
 - Operations and maintenance update
 - Iron Cove Link (ICL) Ventilation Outlet - Continuous Emissions Monitoring Update
 - Update on air quality since opening of Rozelle Interchange – Dr. Ian Longley
 - Questions
- **Other business:**
 - Proposed meeting dates for remainder of 2024
 - Any other business

Welcome

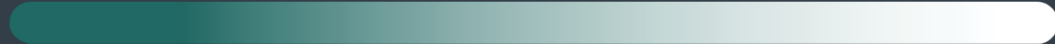
Declarations of interest

Actions from previous meeting

Change of Transurban contact



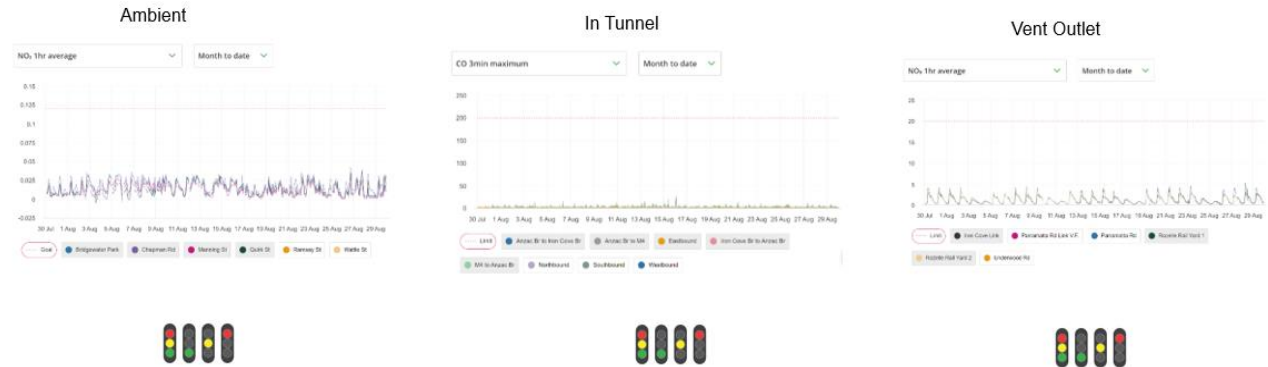
Air quality items raised by the community



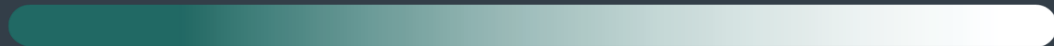
Update on Rozelle Interchange Air Quality Fact Sheet

At the request of the Rozelle Interchange AQCCC, an action for WCX was to supply a higher-level 1-page fact sheet to summarise the air quality data for the month prior.

The sample to the right represents what this will cover monthly;



Project update



Complaints – Rozelle Interchange Air Quality

No complaints related to air quality since our last AQCCC meeting.

Rozelle Interchange Air Quality Update

No Air Quality Exceedances recorded since the last AQCCC meeting.

Rozelle Interchange Air Quality Update

Ambient Air Quality Data



Linkt Website

<https://www.linkt.com.au/sydney/using-toll-roads/about-sydney-toll-roads/westconnex-m8/tunnel-air-quality>

Linkt Website

<https://www.linkt.com.au/using-toll-roads/about-sydney-toll-roads/westconnex/tunnel-air-quality-m4/sydney>

WestConnex M8

Duplicating the M5 East from Beverly Hills to St Peters.

Using toll roads

About Sydney toll roads

WestConnex

M8 Tunnel air quality

WestConnex M4

Linking Parramatta to Haberfield

Using toll roads

About Sydney toll roads

WestConnex

M4 Tunnel air quality

WestConnex

Toll pricing

Pay or transfer toll notices

Roadworks & closures

How to pay tolls

WestConnex M4

M4 Tunnel air quality

WestConnex M8

M8 Tunnel air quality

M8 Tunnel air quality

The WestConnex M8 includes a tunnel linking Kingsgrove to St Peters and a new extension which connects the M8 at St Peters to the M4. Transurban operates the WestConnex M8 in accordance with the Conditions of Approval established by the NSW Government and approved by the NSW Minister for Planning and **Environment Protection Licence** issued by NSW EPA.

- M8 Conditions of Approval
- M4 & M8 extensions Conditions of Approval

Monitoring and measuring protocols for each pollutant and parameters are described in the **glossary of terms**. A Pollution Incident Response Management Plan is also in place as a requirement of the Environment Protection Licence.



WestConnex

Toll pricing

Pay or transfer toll notices

Roadworks & closures

How to pay tolls

WestConnex M4

M4 Tunnel air quality

WestConnex M8

M8 Tunnel air quality

M4 tunnel air quality

The WestConnex M4 includes a tunnel linking Homebush to Haberfield and a new extension which connects the M4 at Haberfield and the M8. Transurban operates the WestConnex M4 in accordance with the Conditions of Approval established by the NSW Government and approved by the NSW Minister for Planning and **Environment Protection Licence** issued by NSW EPA.

- M4 Conditions of Approval
- M4 & M8 extensions Conditions of Approval

Monitoring and measuring protocols for each pollutant and parameters are described in the **glossary of terms**. A Pollution Incident Response Management Plan is also in place as a requirement of the Environment Protection Licence.



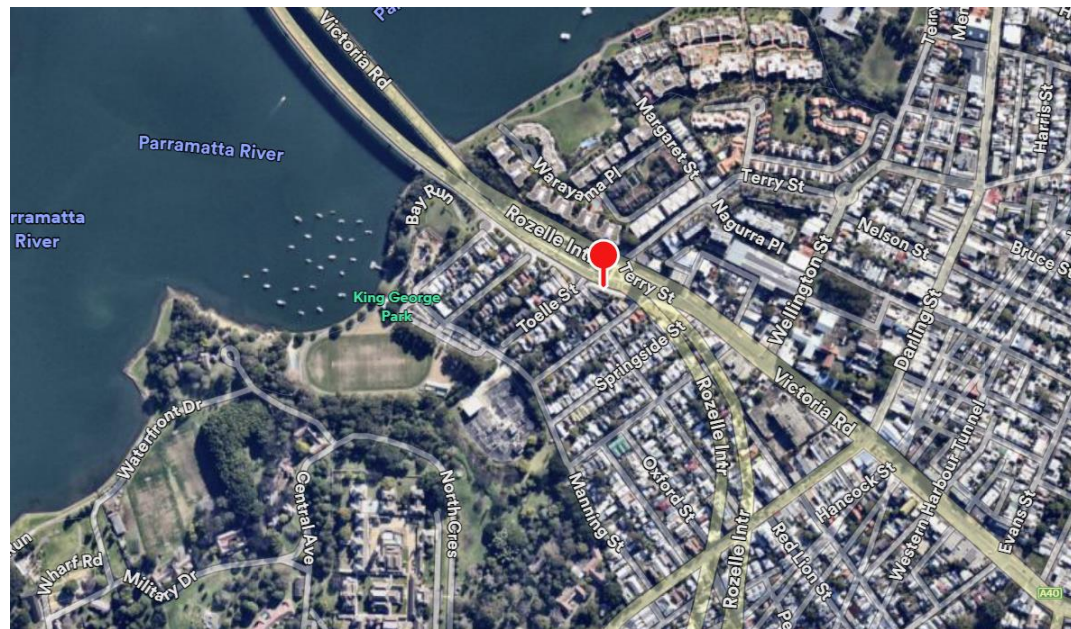
Operations and Maintenance Update



On 5 April 2024, a significant rain-fall event of 111mm caused flooding in the Iron Cove ventilation facility, which contains the Continuous Emissions Monitoring Station (CEMS).

This impacted the recording of ventilation outlet data and reporting to Linkt. Air quality monitoring continued for in-tunnel and ambient monitoring stations reflected on the Linkt website.

We worked with TfNSW, the Rozelle Interchange Contractor and our maintenance contractor to ensure this was rectified and data is now reporting on the Linkt website.



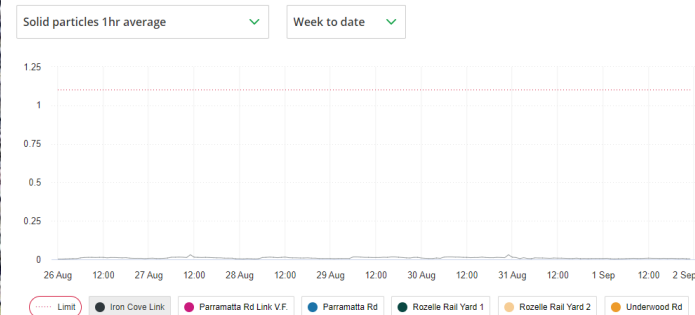
Current snapshot at 4pm

Monday, September 2, 2024 (AEST)

Table gets updated 5 minutes past every hour. V.F. = Ventilation Facility.

Location	CO 1hr average	NO ₂ 1hr average	NO _x 1hr average	Solid particles 1hr average	VOC 1hr average
Iron Cove Link	2.5 mg/m ³	0.2 mg/m ³	1.6 mg/m ³	0.01 mg/m ³	0.16 mg/m ³

Air quality over time



Rozelle Interchange:

A review of impacts on local air quality

Dr Ian Longley

Director, The Air Quality Collective

The goals

Does air quality around the project meet Planning Conditions and Air Quality Guidelines post-opening?

How has local air quality changed (if at all?)

What changes can be attributed to the project?

The process

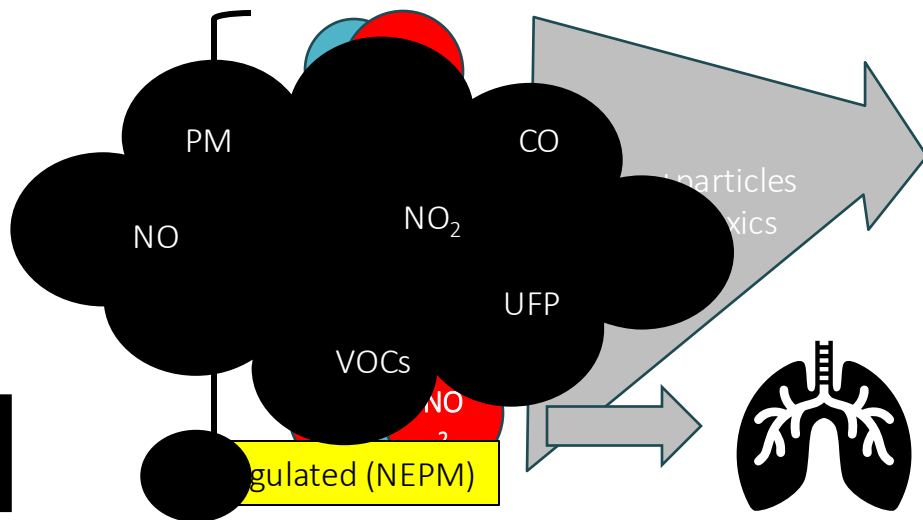
I act on behalf of the community members

All raw data provided by Transurban

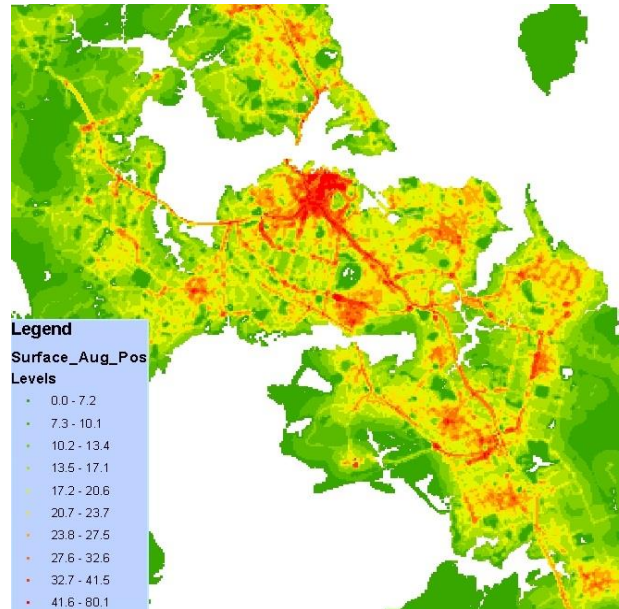
No other guidance/instructions provided

As Independent Expert I am free to choose my own methods

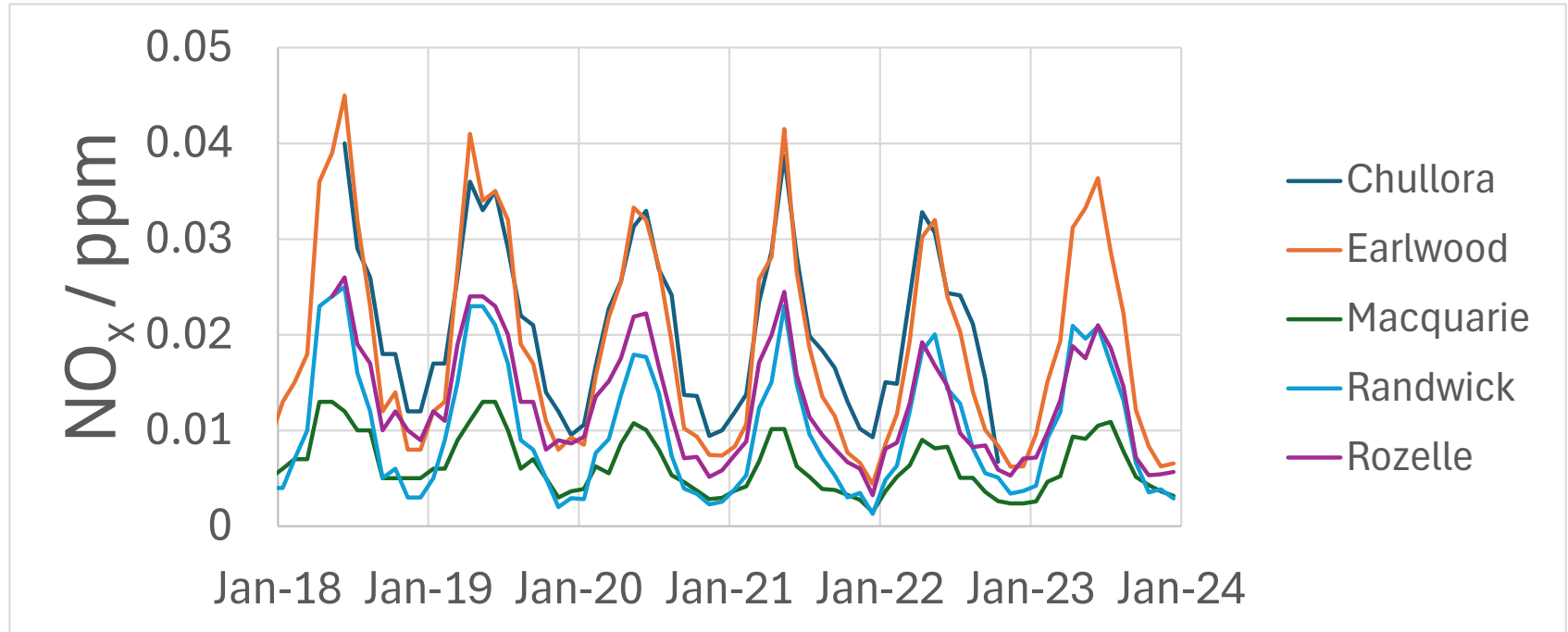
NO_x is the most sensitive measure of the impact of all traffic pollution



NO_x is dominated by traffic exhaust

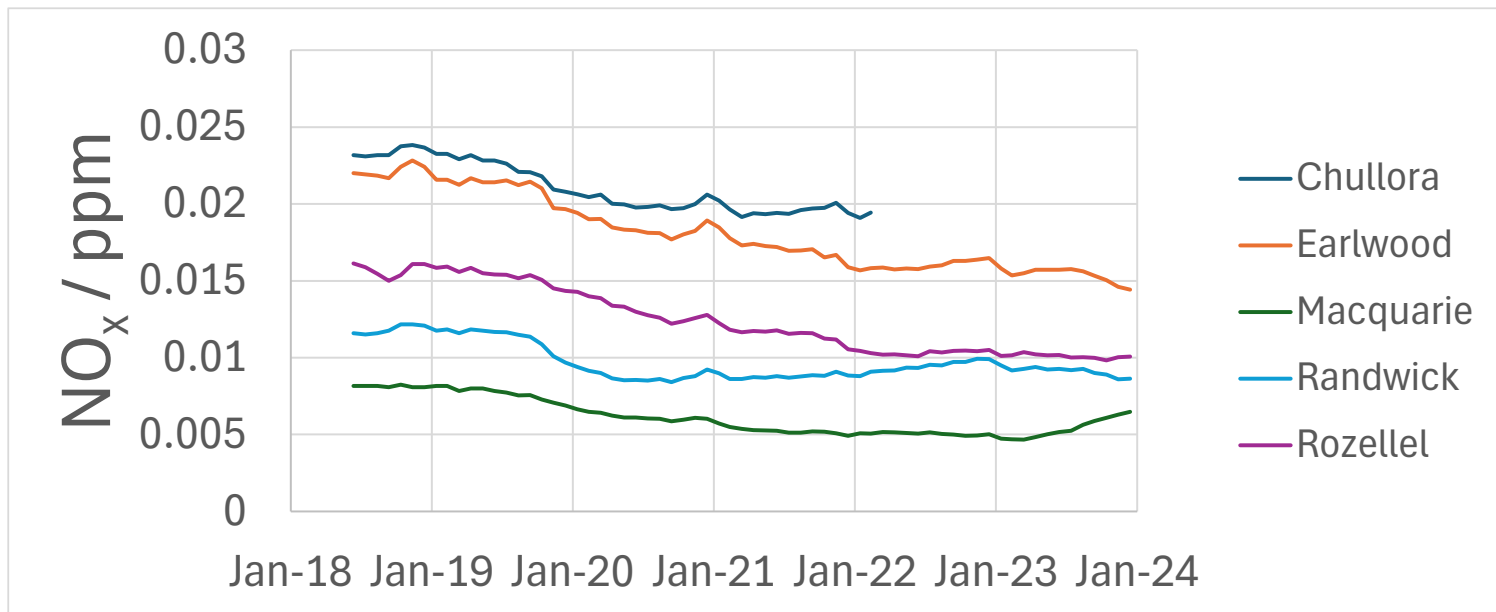


Monthly average NO_x in Inner West Sydney

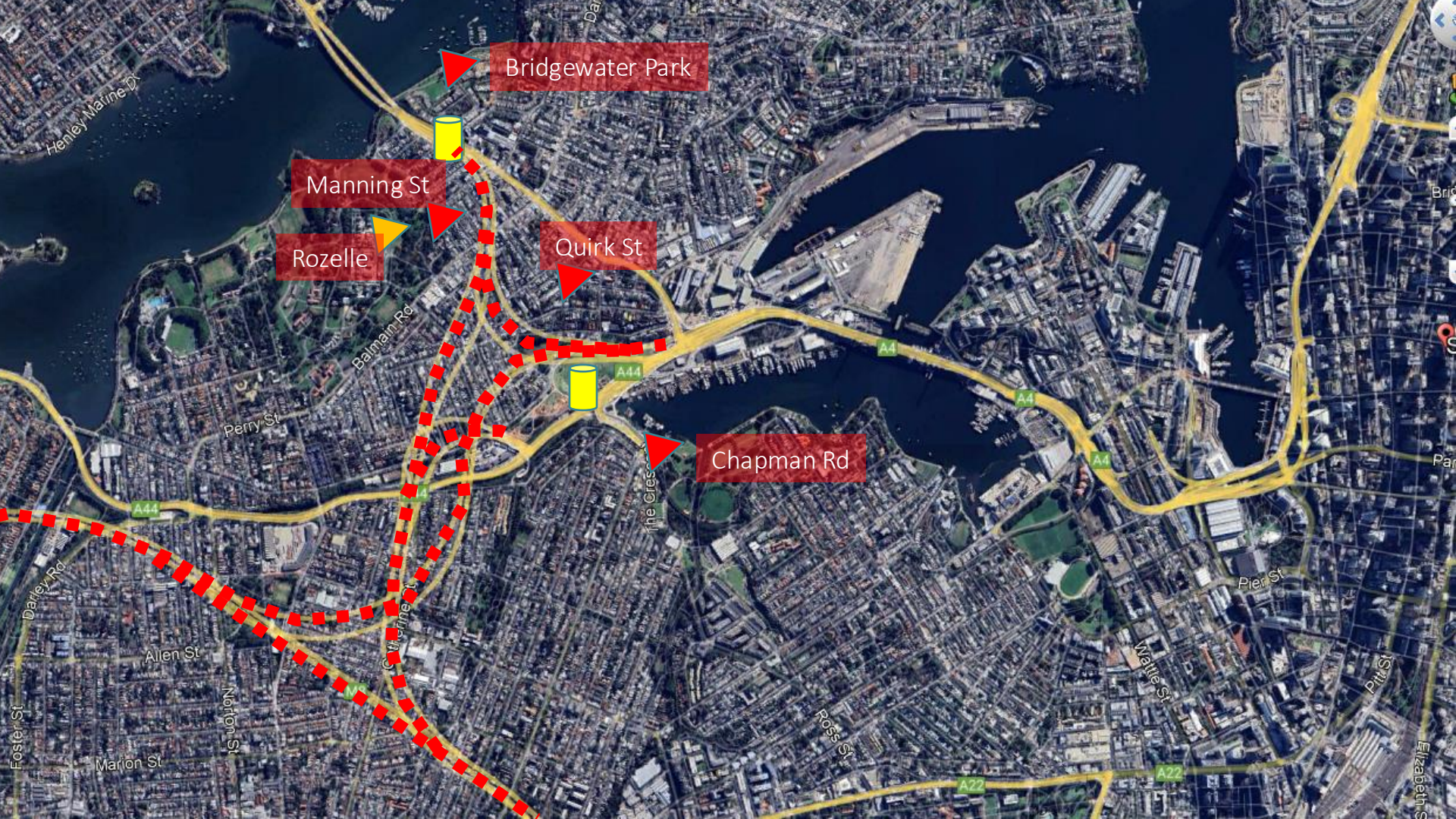


Always higher in winter as less “ventilation” (vertical air movement)

General trend: Falls in traffic pollution (NO_x) across Sydney stopped since 2022



*Data for July – Sep 2022 removed – see following slides



Bridgewater Park

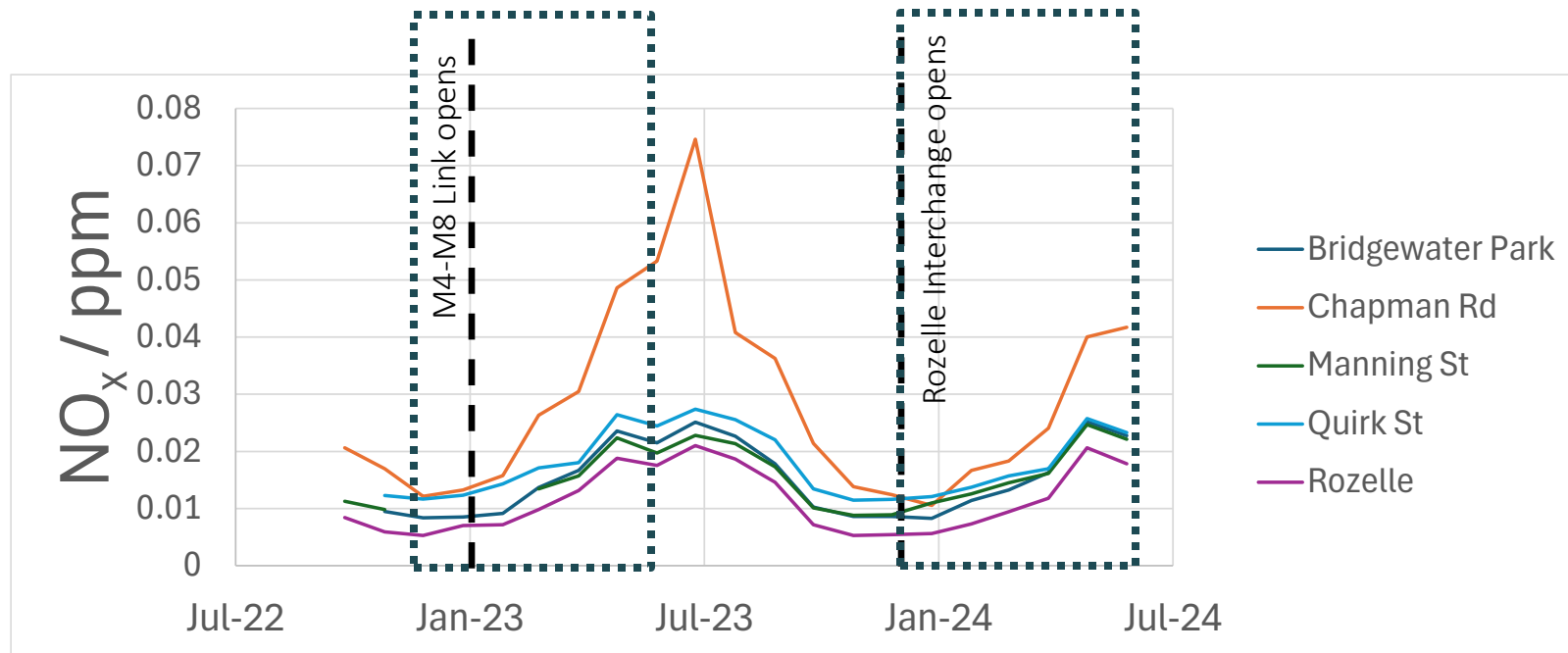
Manning St

Rozelle

Quirk St

Chapman Rd

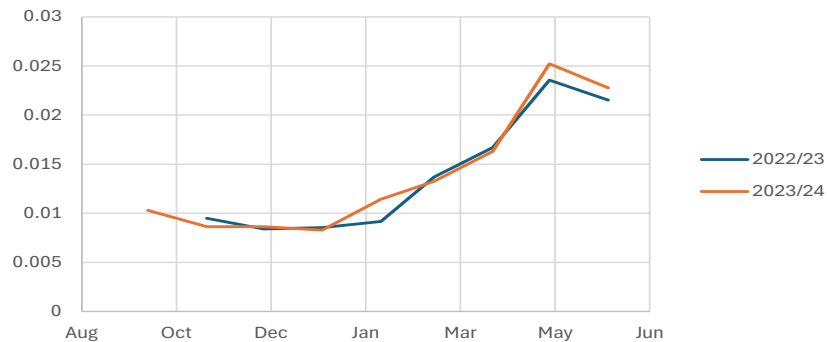
Monthly average NO_x at RI sites so far



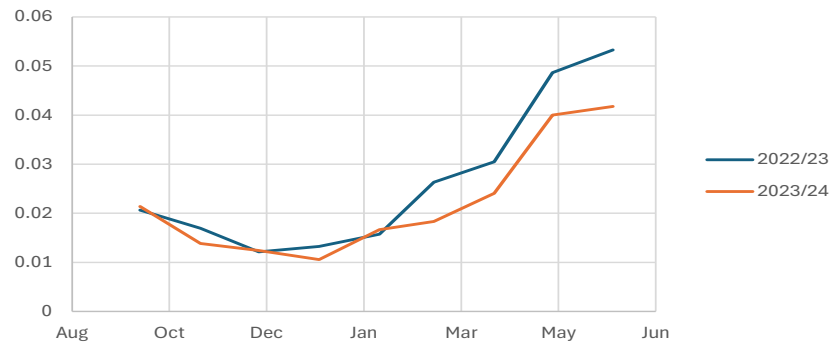
Compare these 7 months...

....With same months a year before

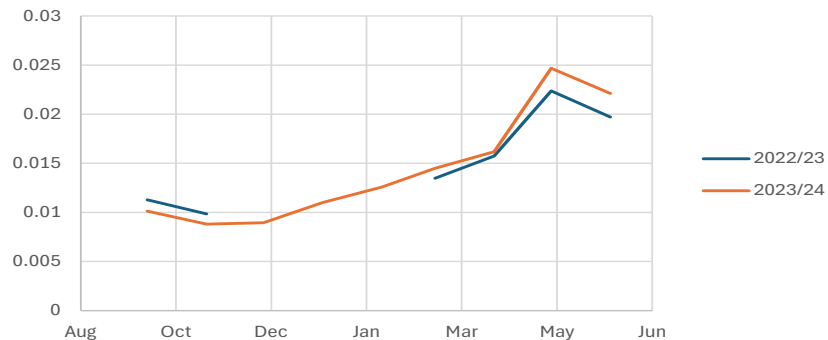
Bridgewater Park



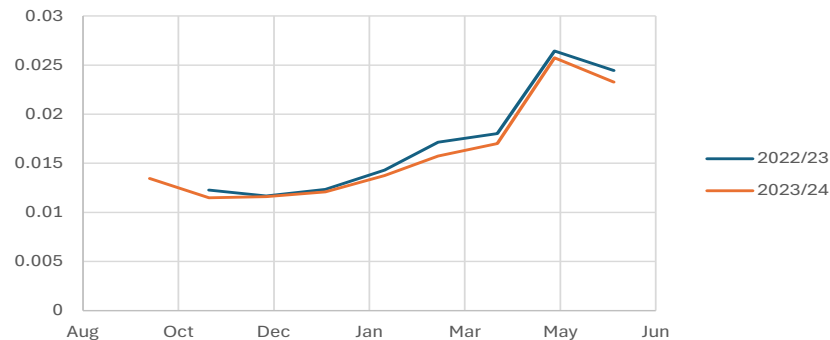
Chapman Rd



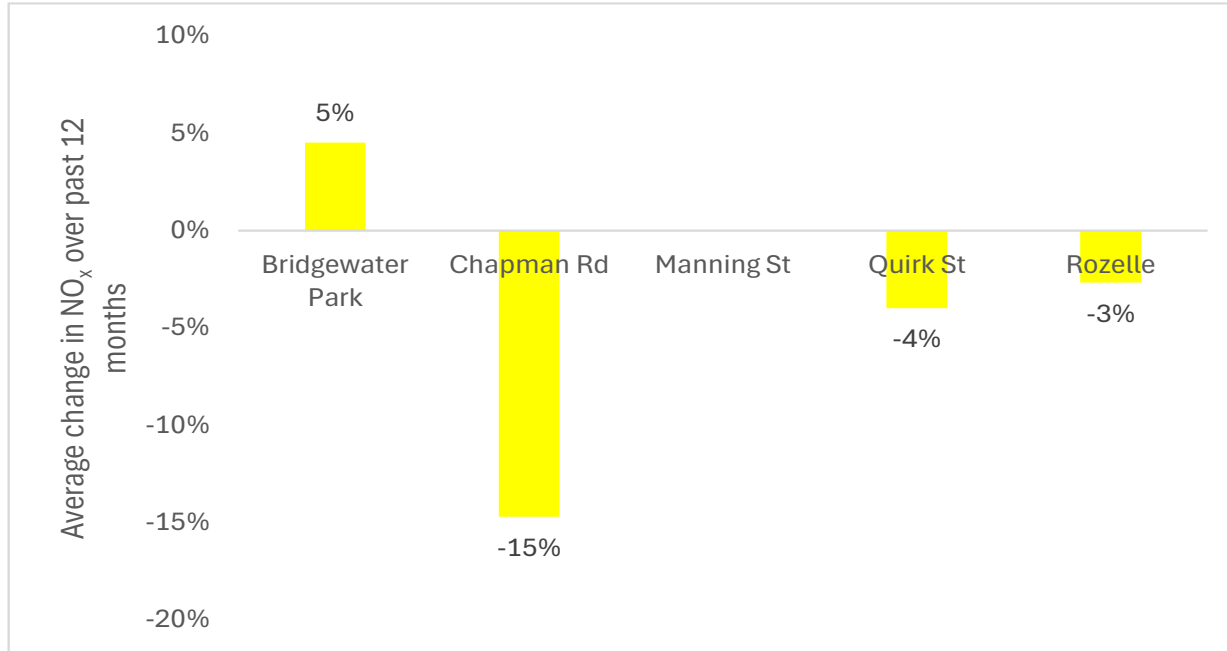
Manning St



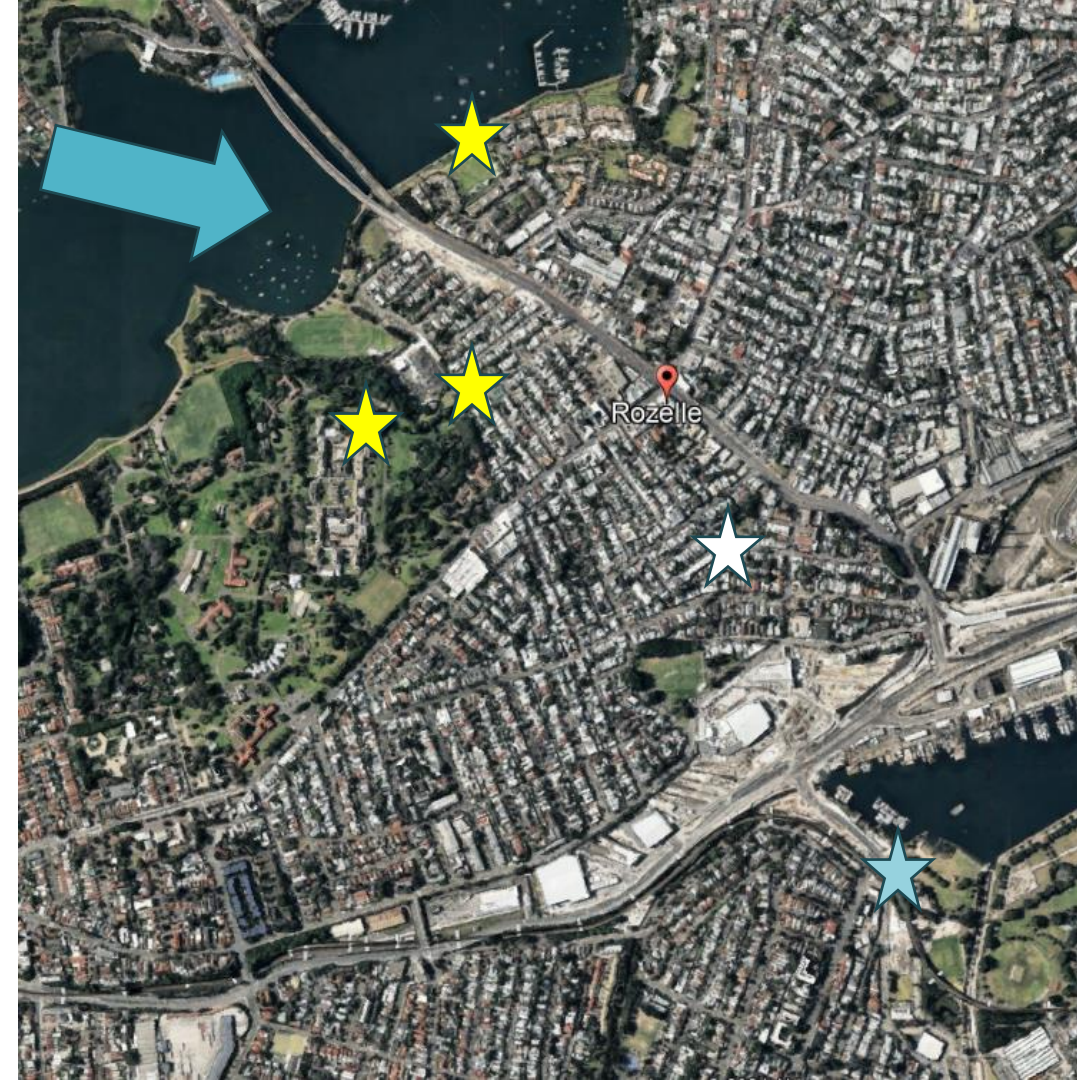
Quirk St



Average change in NO_x over last 12 months



Data gap prevents this analysis being performed for Manning St



In north-westerly winds...

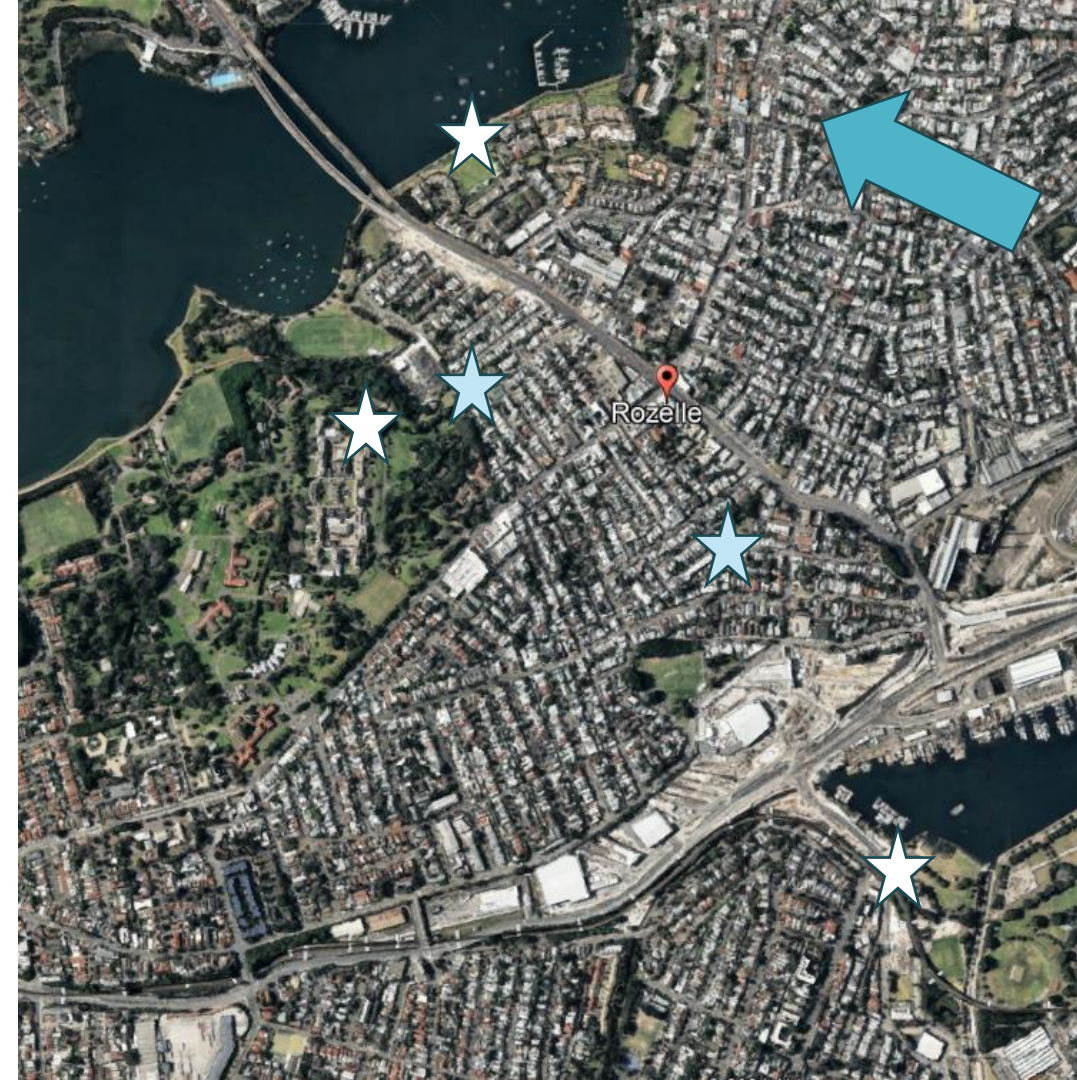
NO_x increased at

- Bridgewater Park
- Manning St
- Rozelle

UNRELATED TO THE PROJECT

NO_x unchanged at Quirk St

NO_x reduced at Chapman Rd
REDUCTION IN SURFACE
TRAFFIC?



In south-easterly winds...

NO_x unchanged at

- Bridgewater Park
- Rozelle
- Chapman Rd

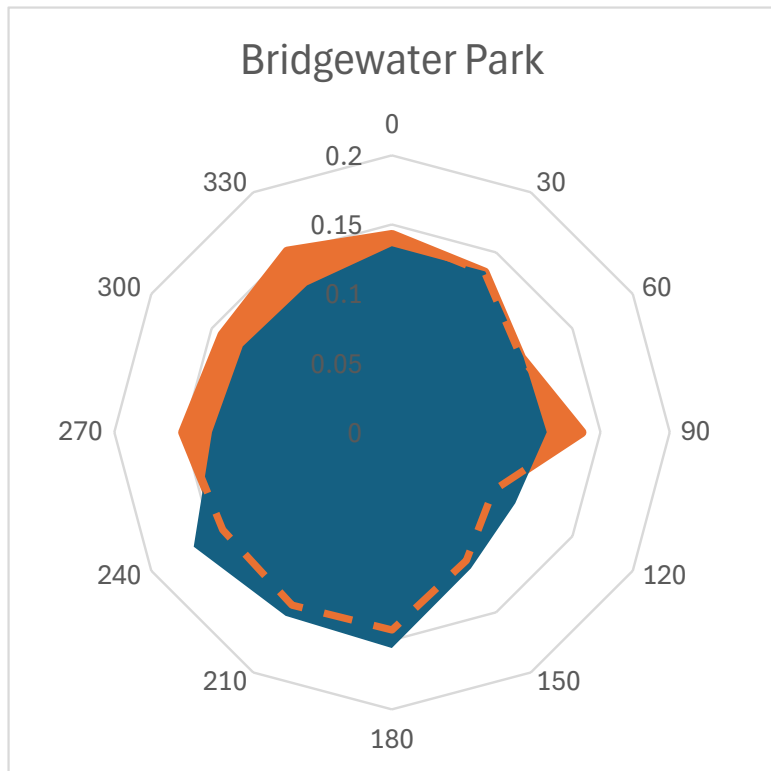
NO_x reduced at

- Manning St
- Quirk St

REDUCTION IN SURFACE
TRAFFIC?

All other wind directions – no
change

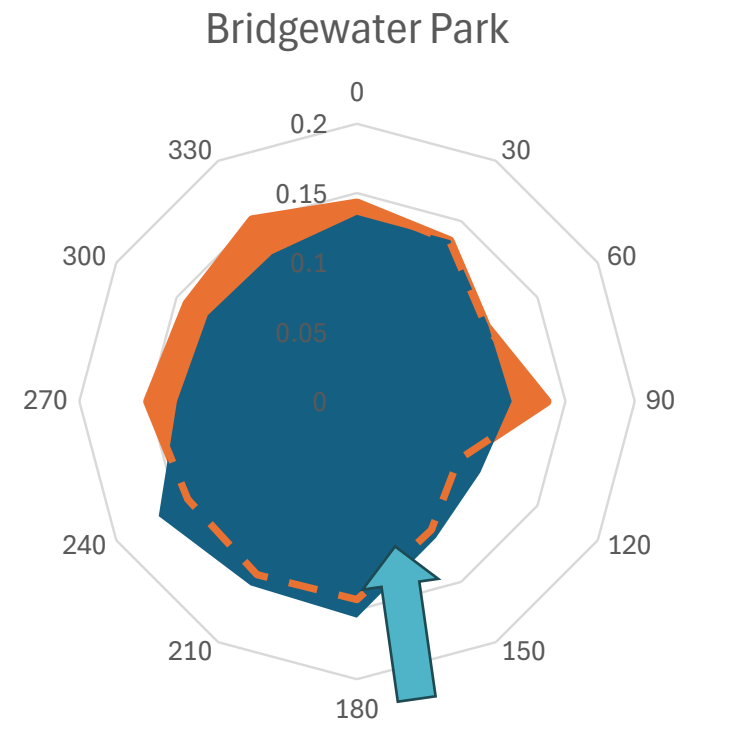
Short-term impacts of the outlets



Charts show maximum 5-minute NO_x levels in 12 wind directions

Blue = construction, Red = post-opening

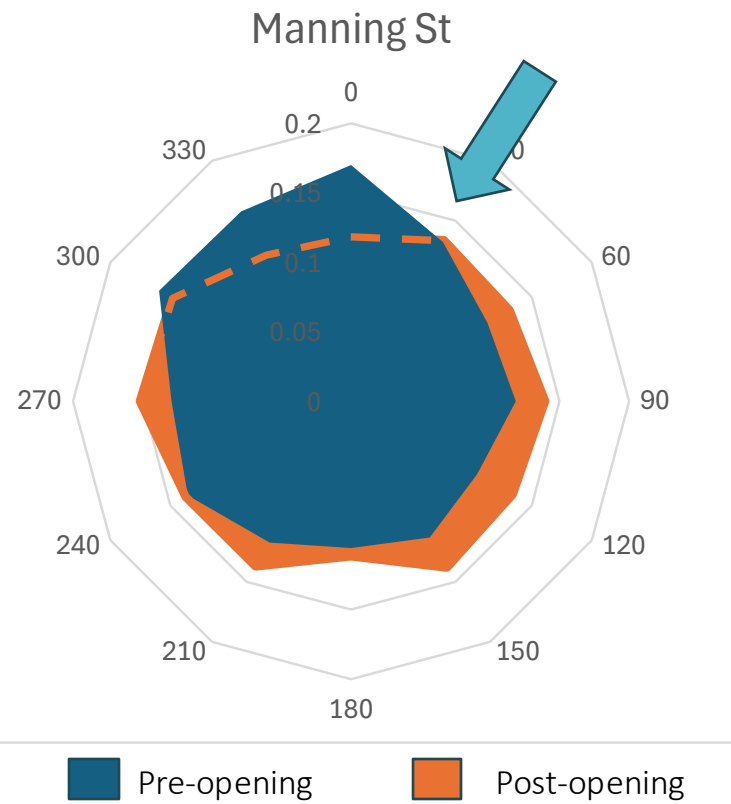
Worsening would show up as orange line OUTSIDE the blue line



Pre-opening

Post-opening

Impacts SLIGHTLY REDUCED when wind from outlet

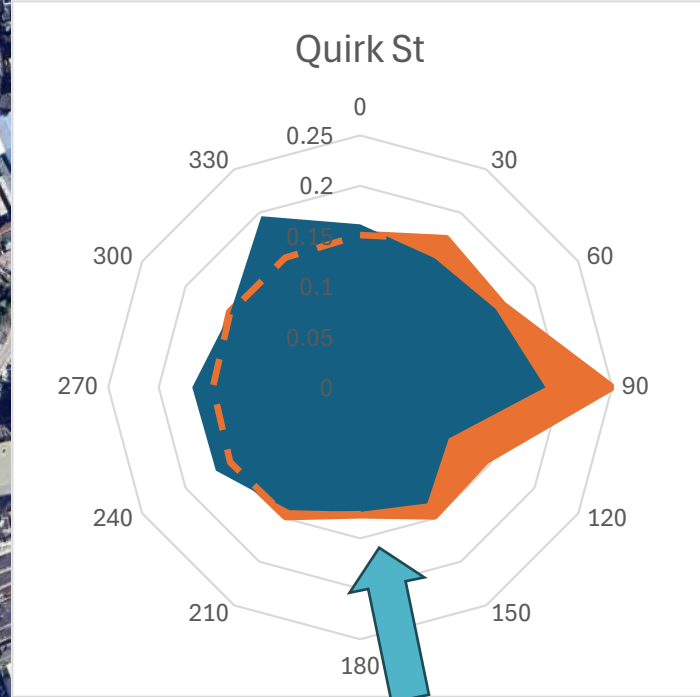
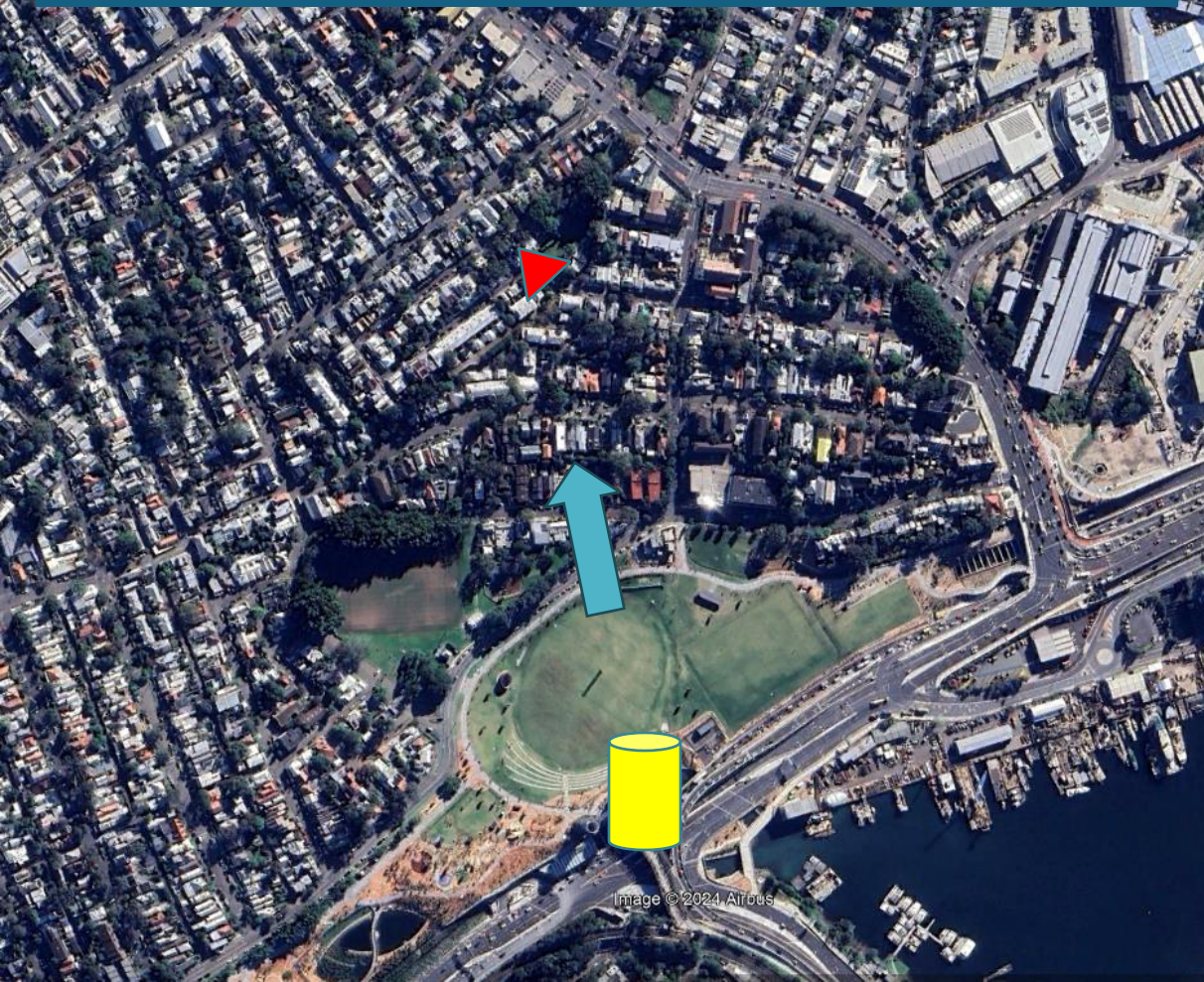


Impacts UNCHANGED when wind from outlet



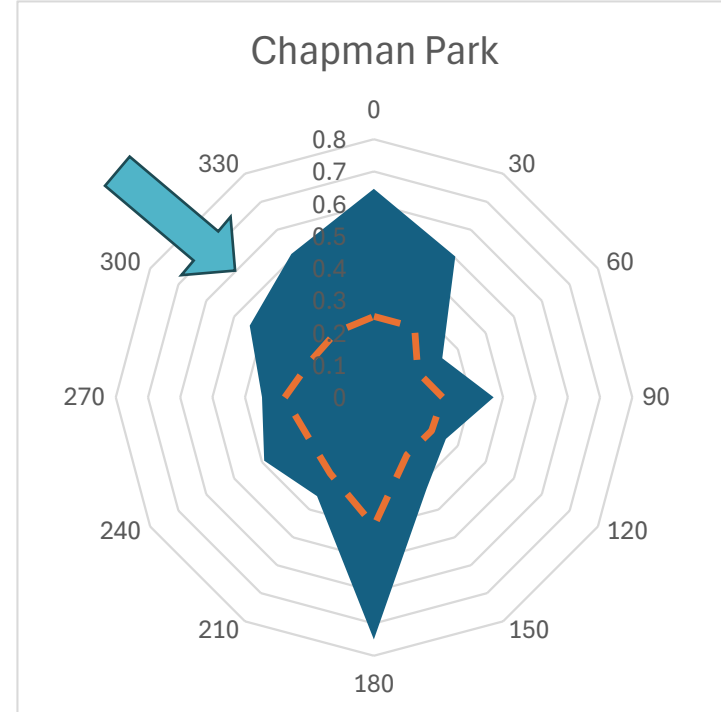
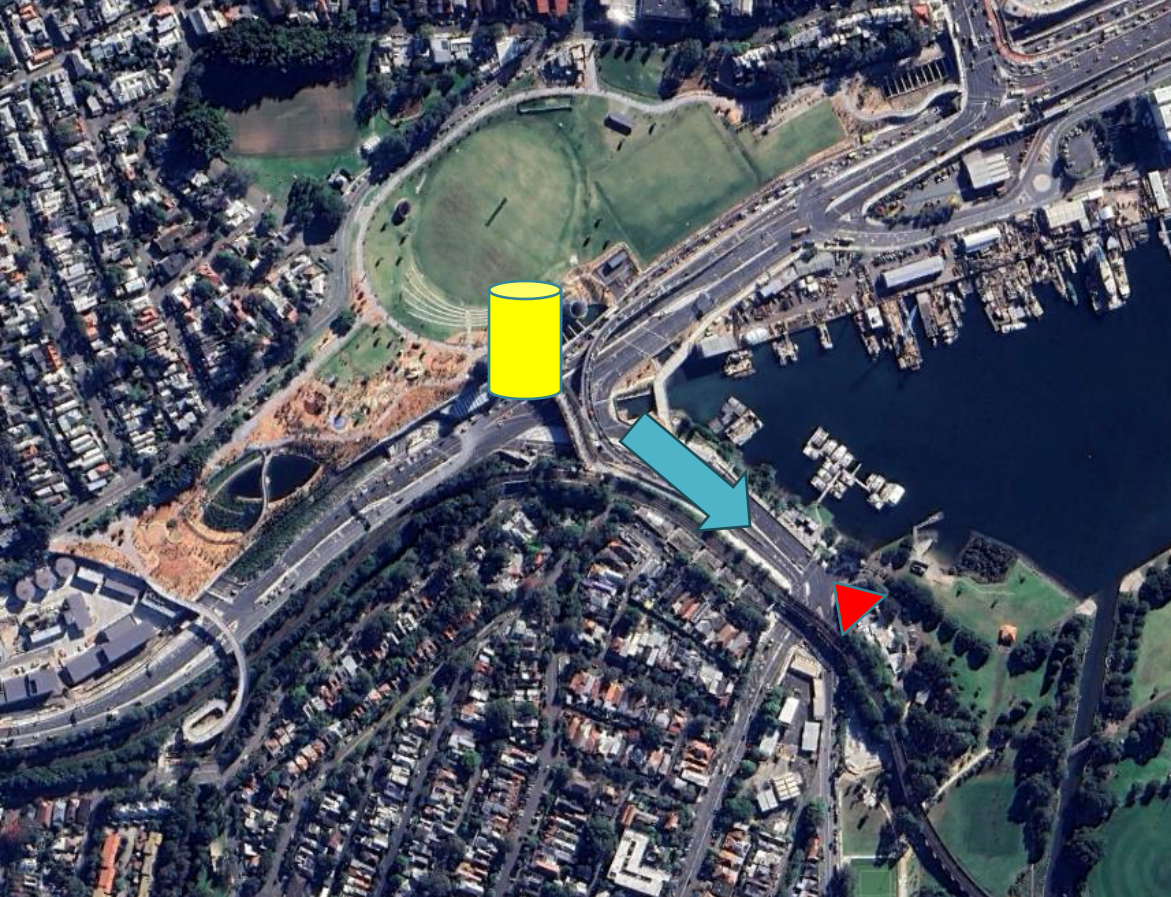
Image © 2024 Airbus

Impacts UNCHANGED when wind from outlet



Pre-opening

Post-opening



Pre-opening

Post-opening

Impacts SUBSTANTIALLY REDUCED when wind from outlet, and in all wind directions

Conclusions

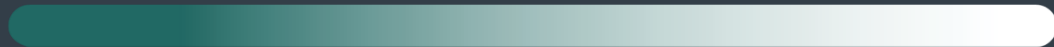
Overall, no large long-term change in local air quality

Improvements at Chapman Rd most likely due to changes in surface traffic

Some slight worsening in NE winds seems unrelated to the project

No impacts of the outlets on local air quality detected

Questions



Next AQCCC Meeting 15 – **Tuesday 26 November** 2024 6:00 - 8:00pm

We are currently sourcing a new venue to host Rozelle Interchange meetings moving forward. Suggestions welcome!

Any other business /
Close

