

# Review of Namoi Air Quality Data

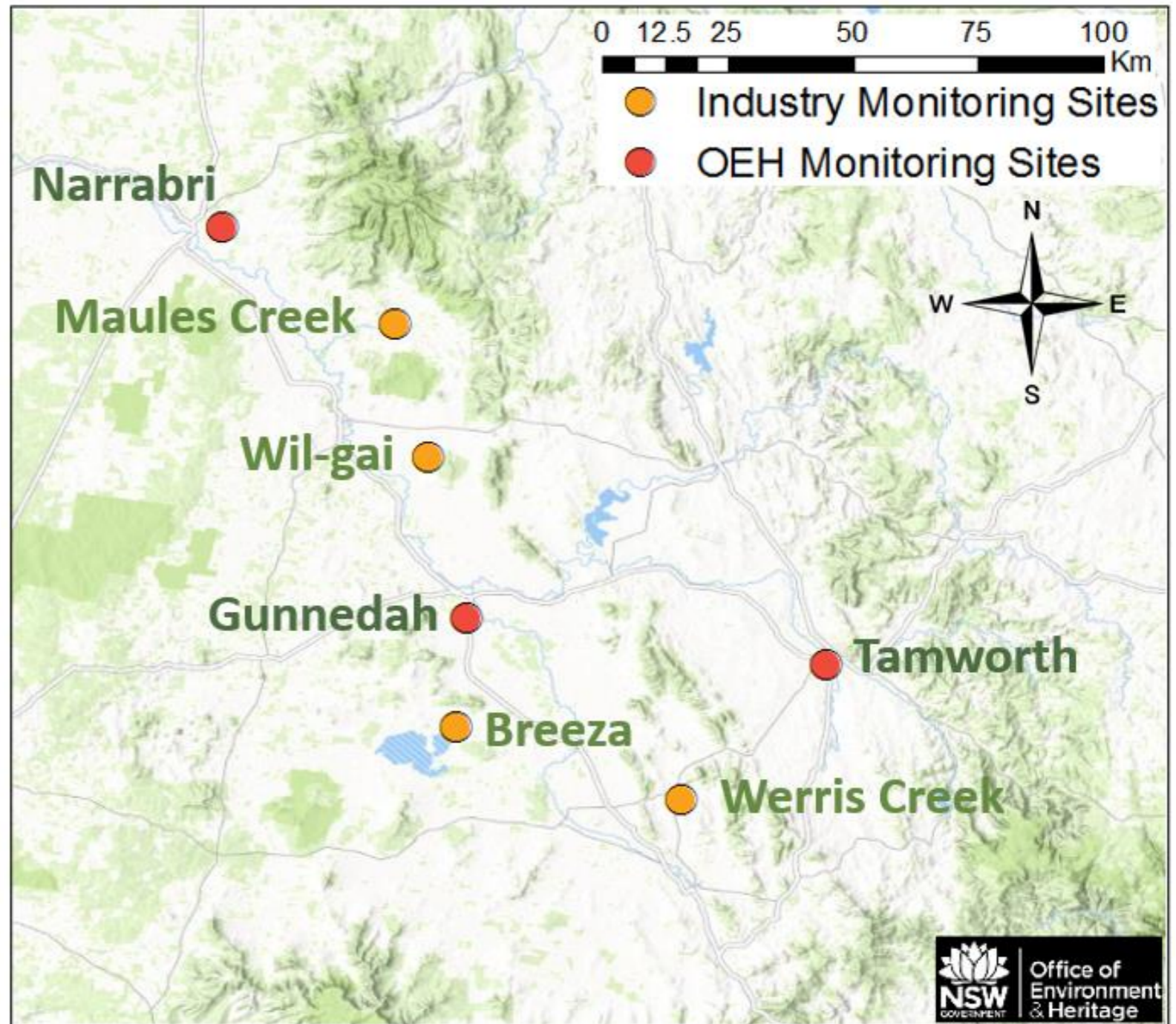
*July 2015 to July 2018*

# What are we talking about today??

1. Monitoring site locations within the Namoi/Gunnedah basin...
2. Background to why and how ambient monitoring is carried out and how it is interpreted...
3. Review of data collected between July 2015 until May 2017...
4. Review of data collected between May 2017 and July 2018...
5. Namoi Air Quality Monitoring Network newsletter...

# Where are the monitoring sites?

- Three monitors established by OEH being at Narrabri, Gunnedah and Tamworth
- Four monitors established by industry being at:
  - Maules Creek
  - Wilgai
  - Breeza
  - Werris Creek



# What is the purpose of ambient monitoring?

- Ambient monitoring is used to collect data on general air quality within an airshed or air catchment.
- Data is used to help inform decisions and activities carried out in an airshed
- Ambient monitoring is not used to determine industry compliance with project approvals, development consents or environment protection licences

# What is meant by 'criteria' and 'goals'?

- “NEPM” stands for National Environment Protection Measure.
- Air quality criteria for PM10 and PM2.5

Pollutant	Averaging period	Max concentration	Allowable exceedances
Particles as PM10	1 day	50µg/m <sup>3</sup>	Nil
	Annual	25 µg/m <sup>3</sup>	
Particles as PM2.5	1 day	25 µg/m <sup>3</sup>	Nil
	Annual	8µg/m <sup>3</sup>	

- ....remember the hair follicle...?....



# What does the criteria mean for me?

- The Air Quality Index....

AQI Category and Values	Air Pollution Level	Recommended Action
Very Good 0-33	0-33% of national standard	Enjoy activities
Good 34-66	34-66% of national standard	Enjoy activities
Fair 67-99	67-99% of national standard	People unusually sensitive to air pollution, plan strenuous activities when air quality is better
Poor 100-149	100-149% of national standard	Air Pollution Health Alert Sensitive groups: cut back or reschedule strenuous outdoor activities
Very poor 150-200	150-200% of national standard	Air Pollution Health Alert Sensitive groups: avoid strenuous outdoor activities Everyone: cut back or reschedule strenuous outdoor activities
Hazardous 200+	≥ 200% of national standard	Air Pollution Health Alert Sensitive groups: avoid all outdoor physical activity Everyone: significantly cut back on outdoor physical activities

# PM10 24 Hour Data trends.... July 2015-Dec 2016

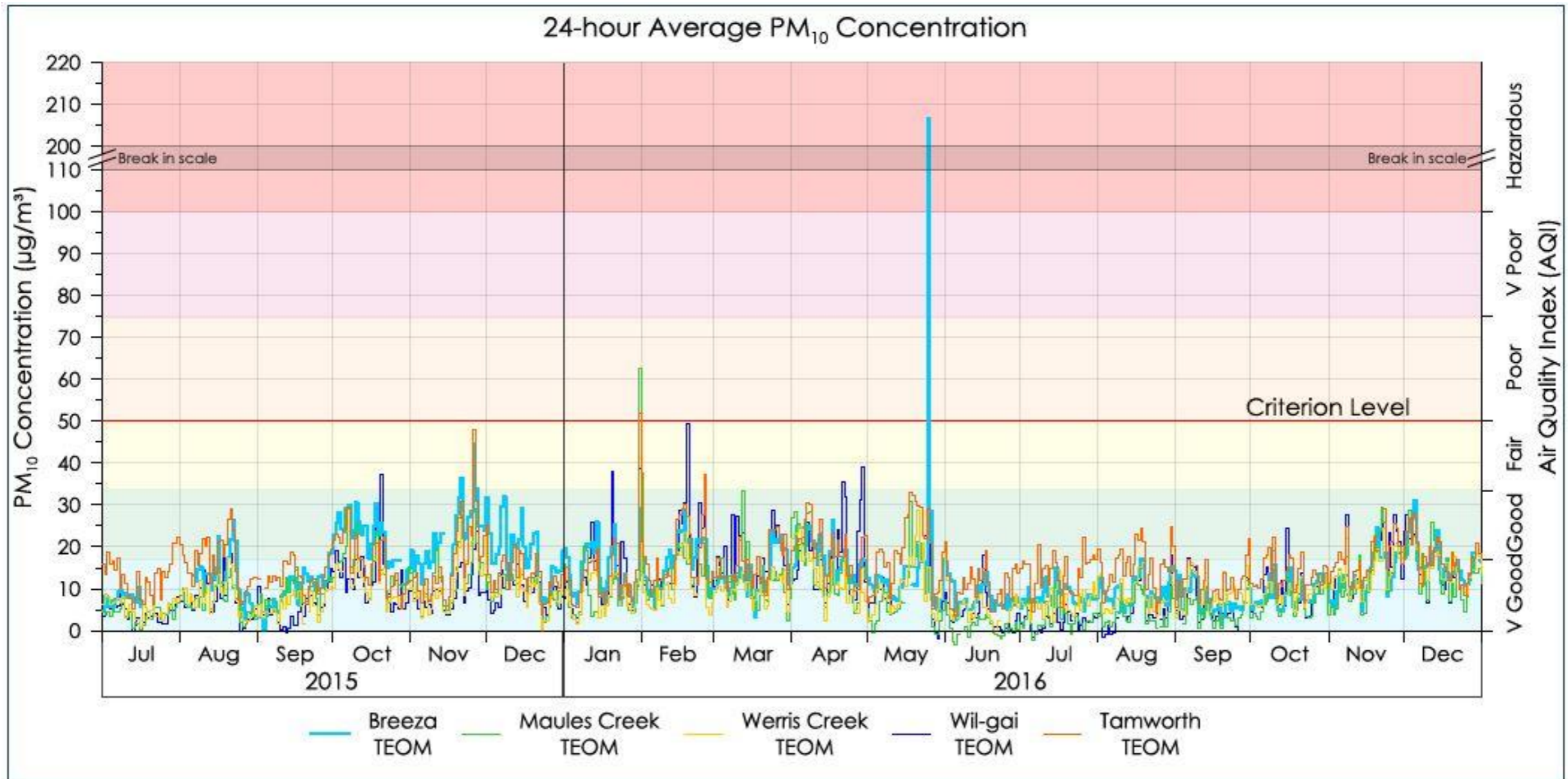


Figure 7-2: Namoi 24-hour average PM<sub>10</sub> levels – July 2015 to December 2016

# PM10 24 Hour Data trends....

## Dec 2016 – May 2017

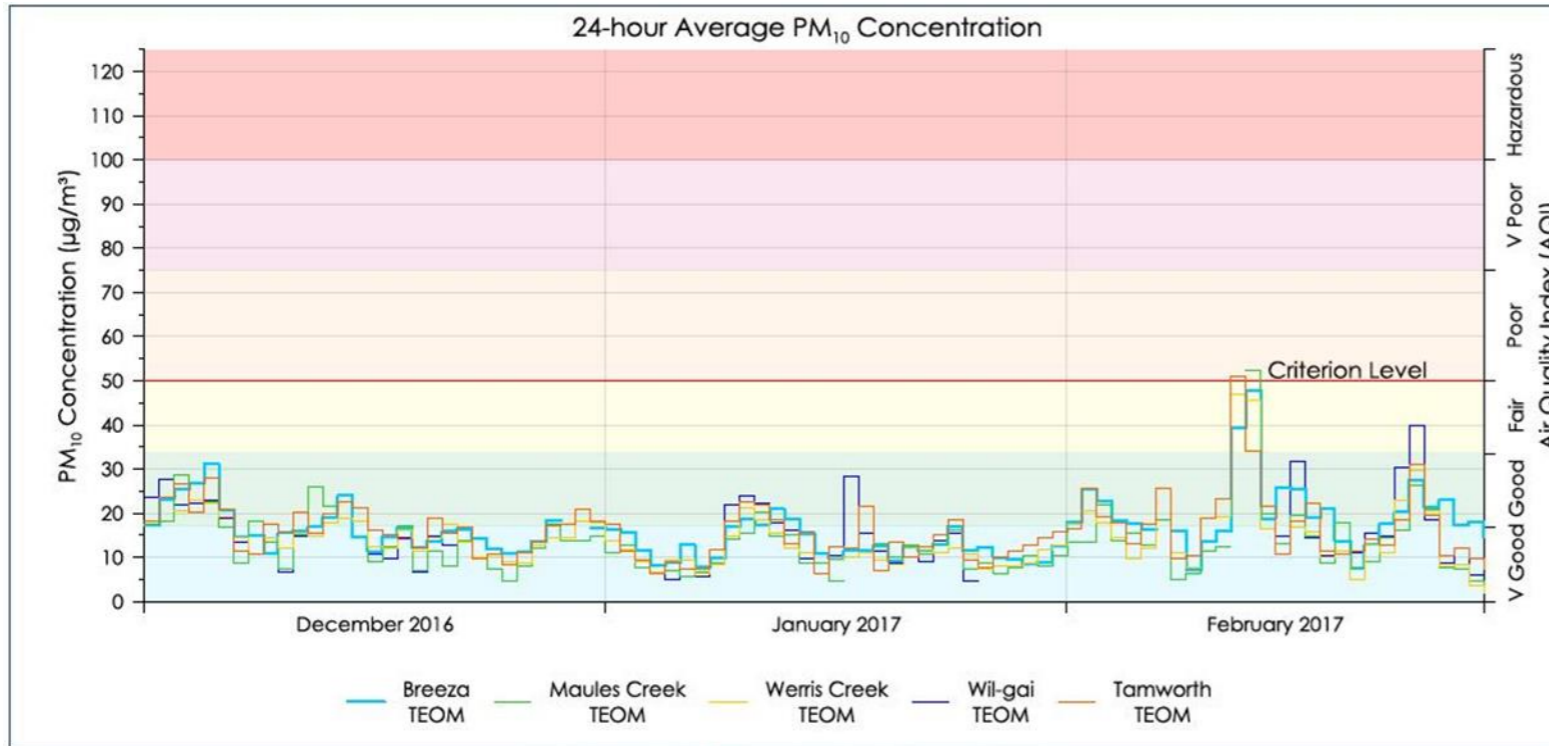


Figure 7-2: Namoi 24-hour average PM<sub>10</sub> levels – Summer 2016/17

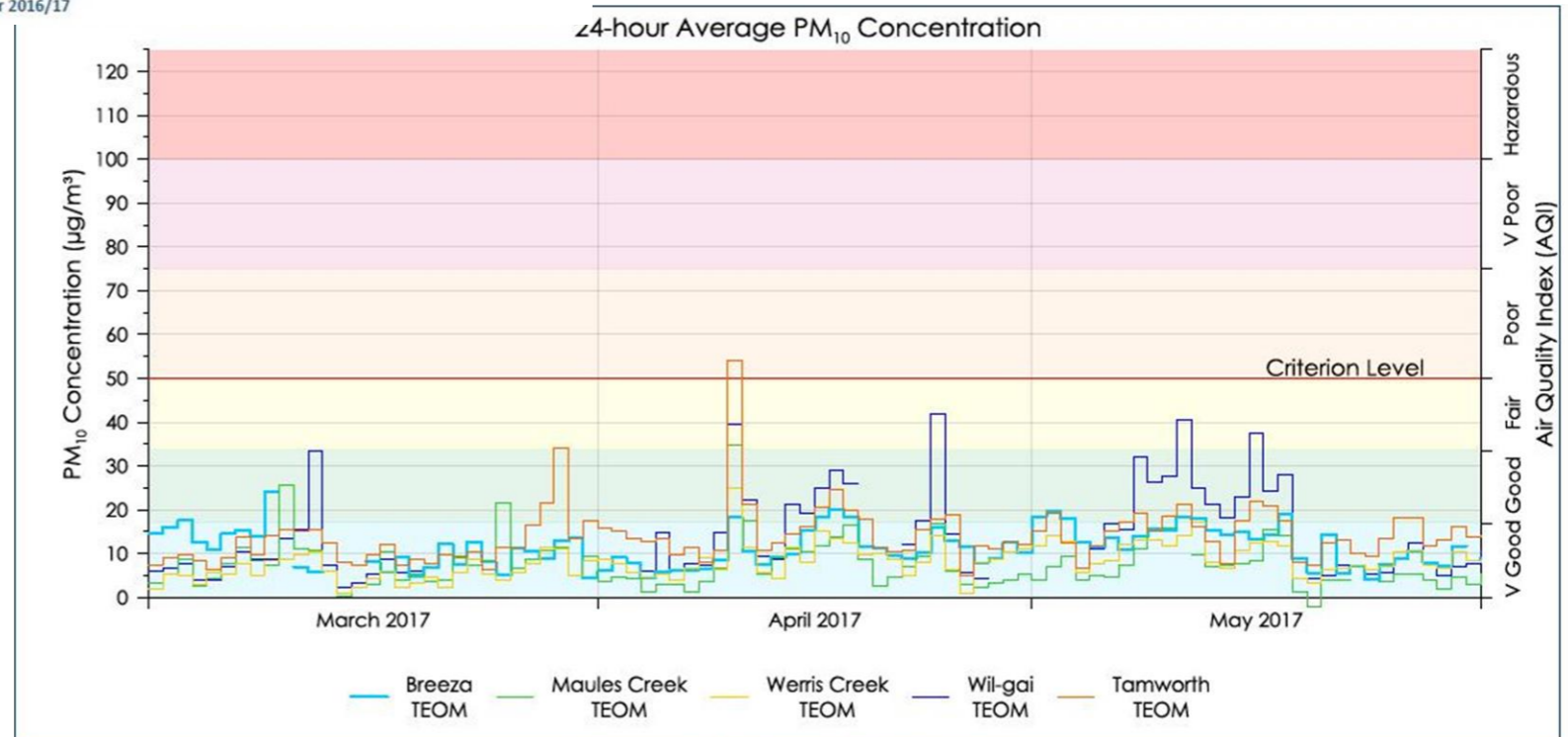


Figure 7-2: Namoi 24-hour average PM<sub>10</sub> levels – Autumn 2017



# PM2.5 24 Hour Data trends....

## Dec 2016 – May 2017

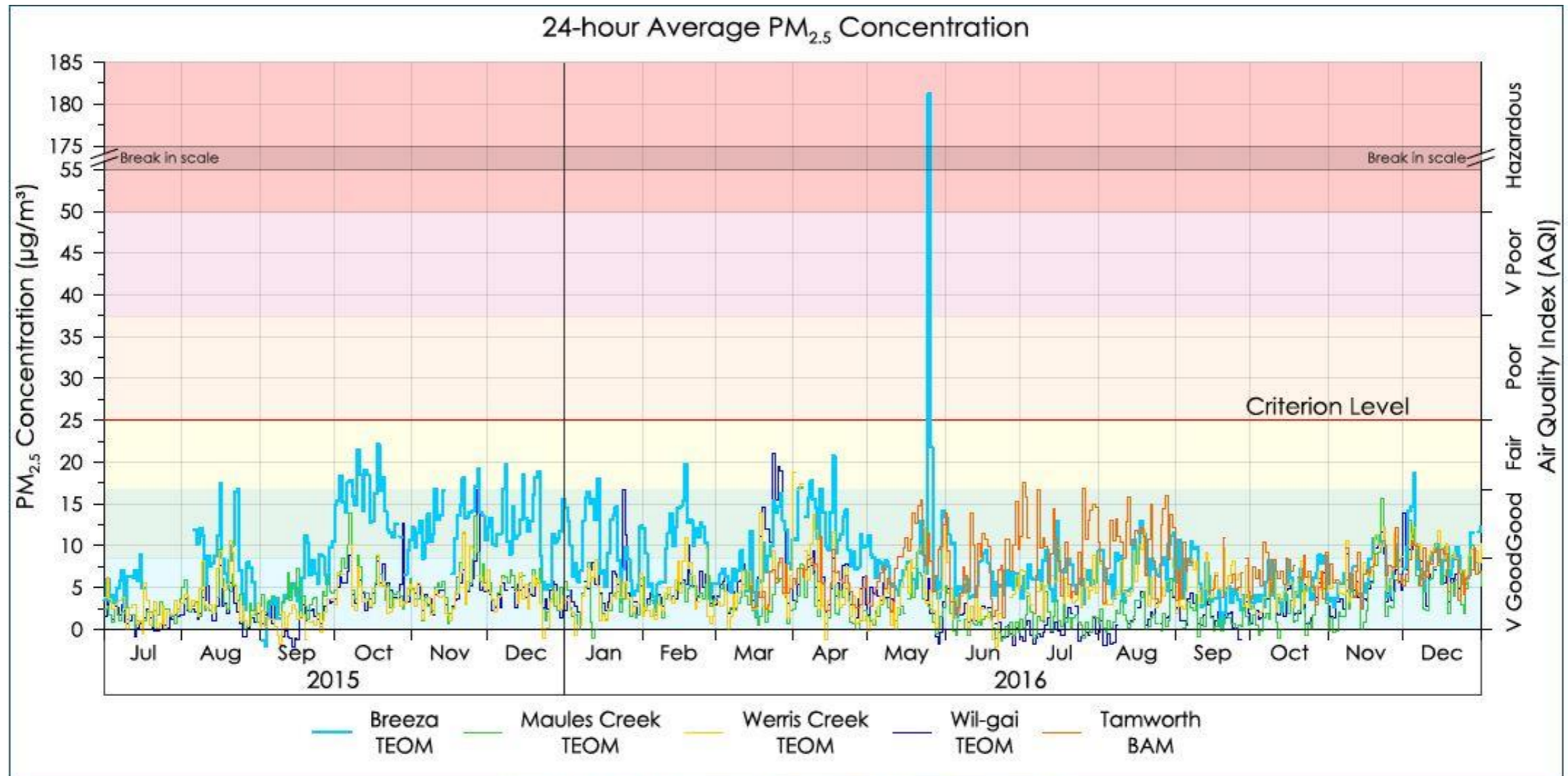


Figure 7-3: Namoi 24-hour average PM<sub>2.5</sub> levels – July 2015 to December 2016

# PM2.5 24 Hour Data trends....

## Dec 2016 – May 2017

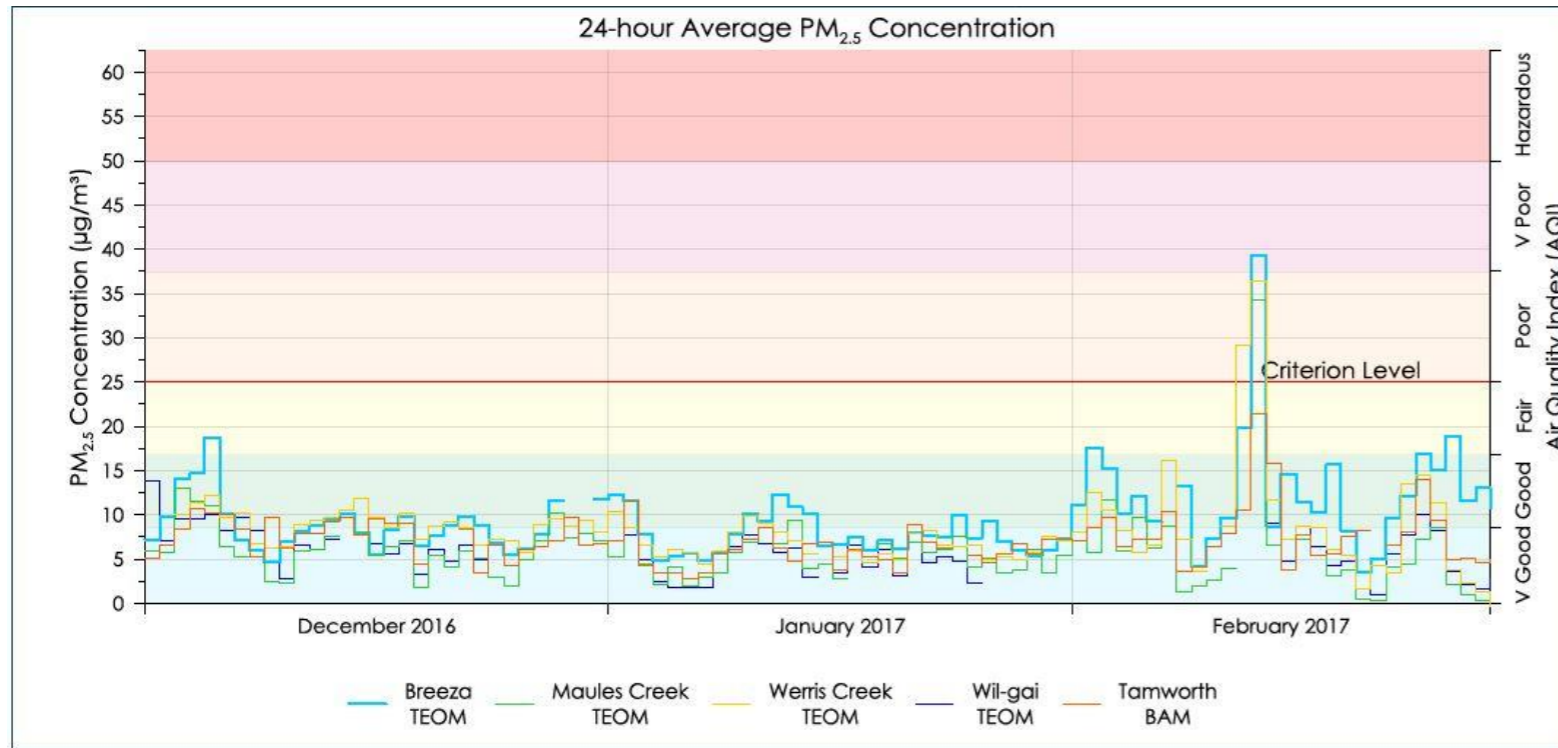


Figure 7-3: Namoi 24-hour average PM<sub>2.5</sub> levels – Summer 2016/17

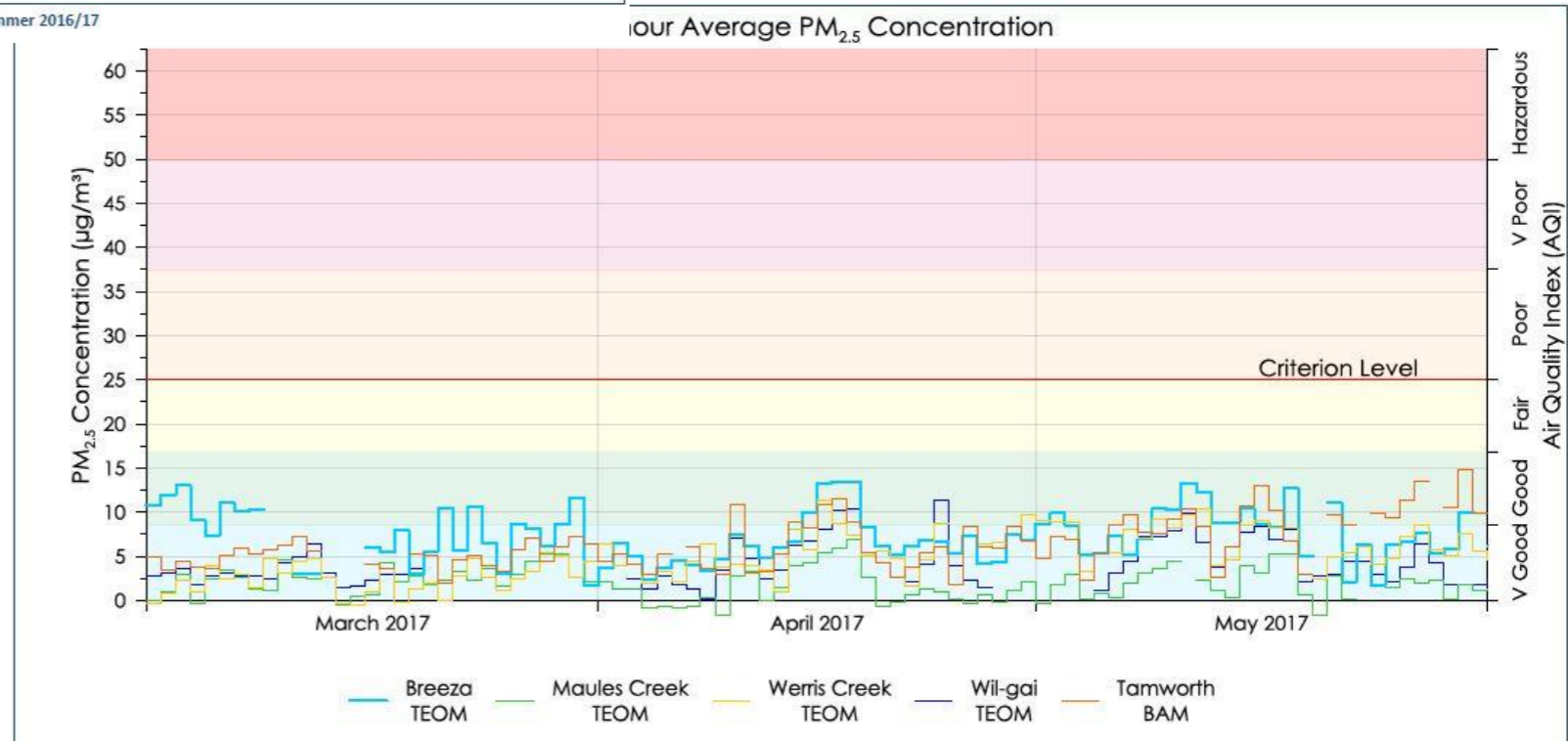


Figure 7-3: Namoi 24-hour average PM<sub>2.5</sub> levels – Autumn 2017



# What are windroses??...

## Narrabri Windrose January – July 2018

