

Sydney Football Stadium Redevelopment Stage 2 Environmental Monitoring Summary – December 2020

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1 Vibration Monitoring

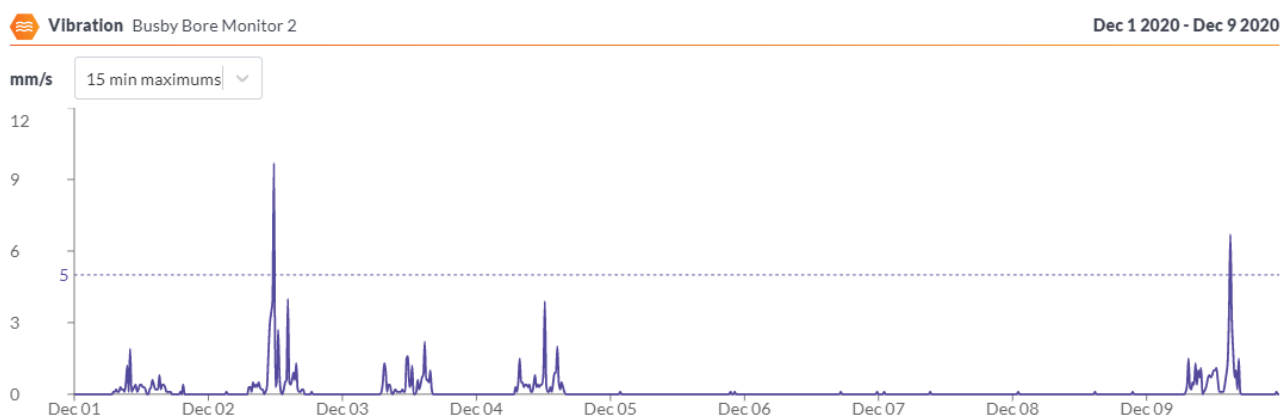
1.1 Real time monitoring

1.1.1 Results

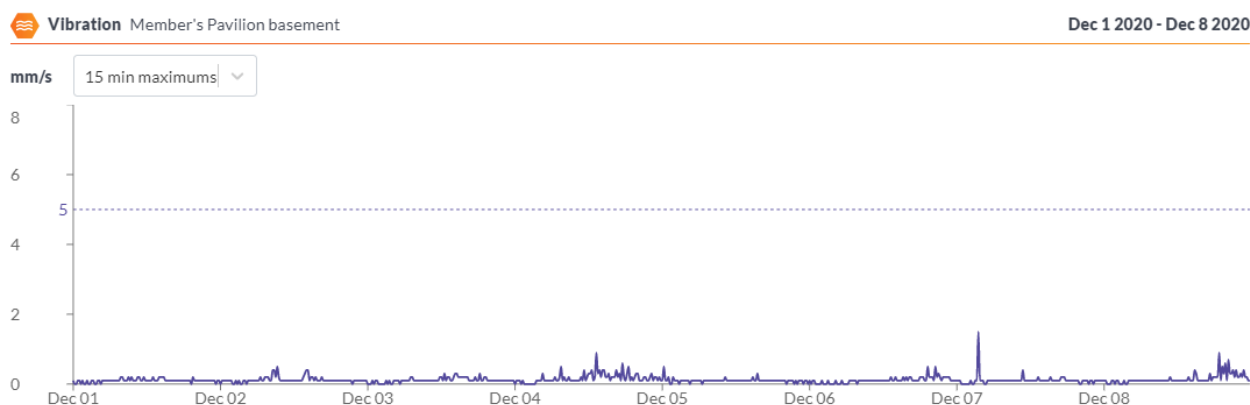
Real time vibration monitoring is conducted in 4 locations

- Busbys Bore Shaft 9 – Criteria of 5mm/s
- SCG Members Stand – Criteria of 3mm/s
- Noble Stand adjacent to Fox Studios Boundary – adopted criteria of 7.5mm/s

Busbys Bore Shaft 9

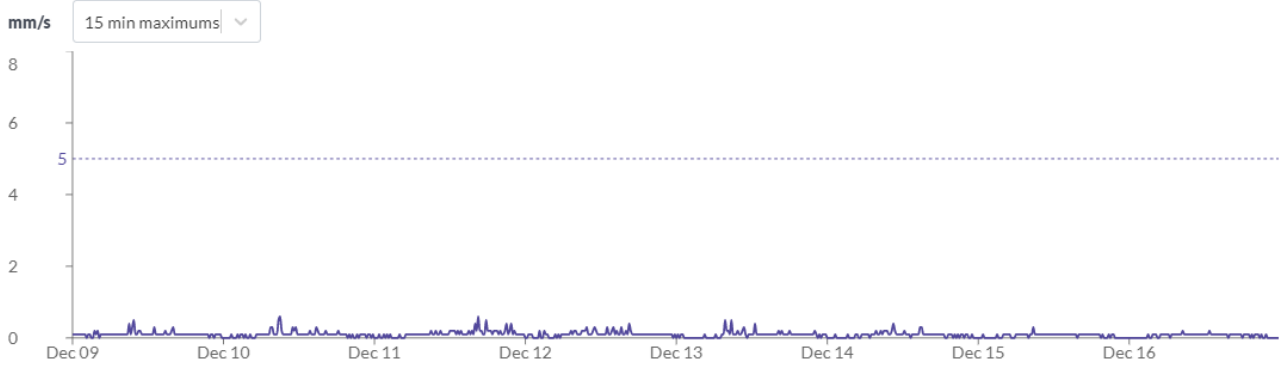


SCG Members Stand



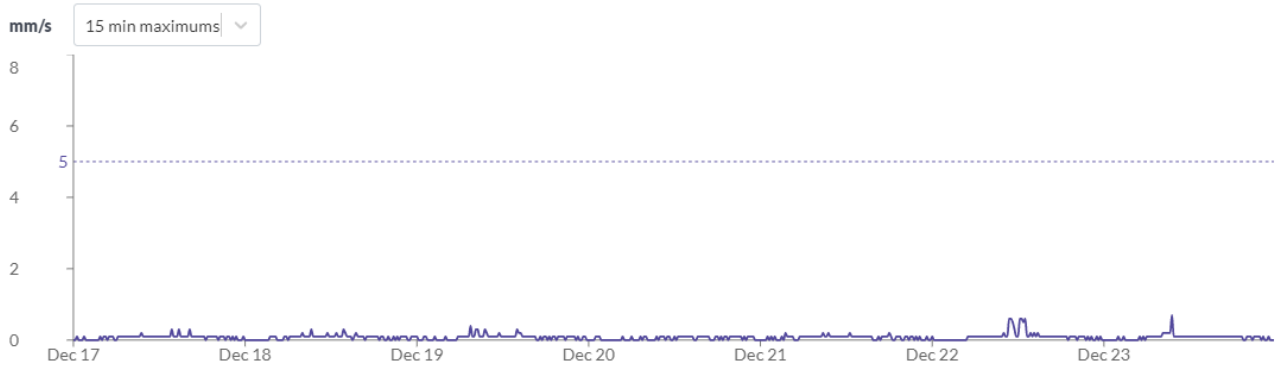
Vibration Member's Pavilion basement

Dec 9 2020 - Dec 16 2020



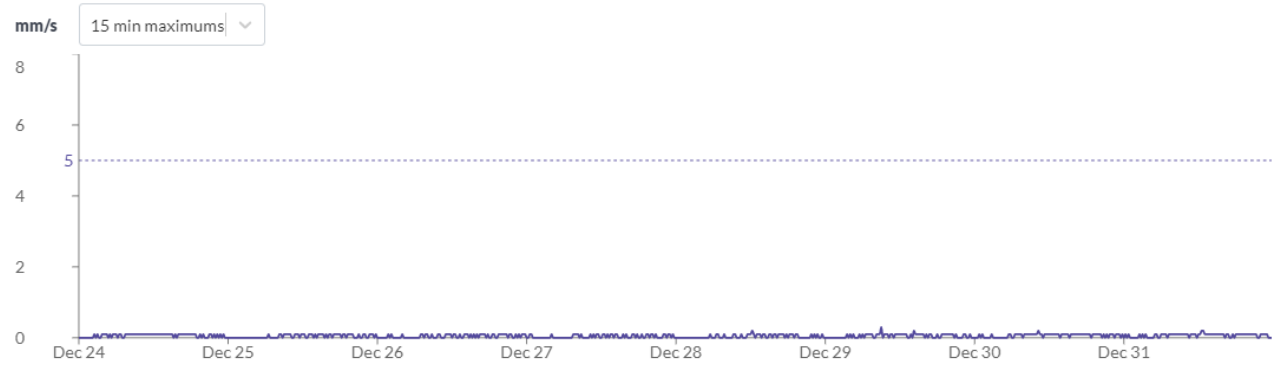
Vibration Member's Pavilion basement

Dec 17 2020 - Dec 23 2020



Vibration Member's Pavilion basement

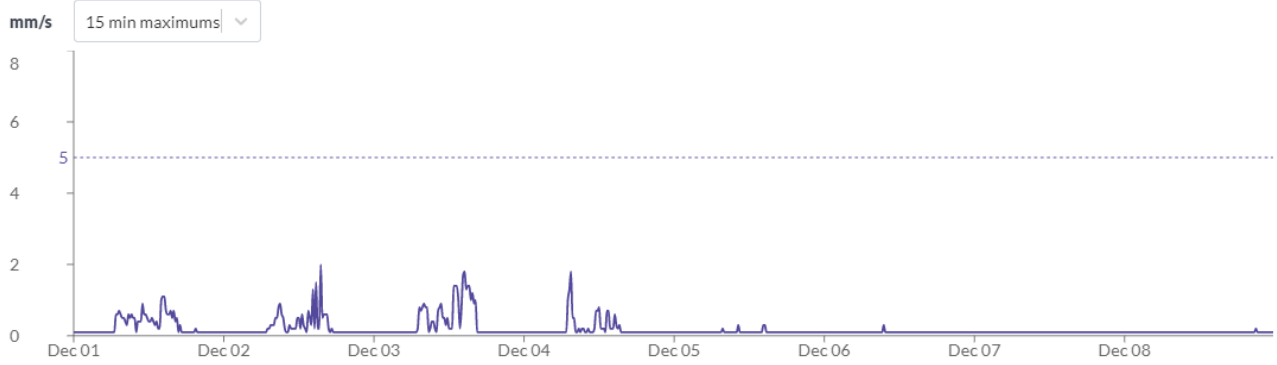
Dec 24 2020 - Dec 31 2020



Noble Stand

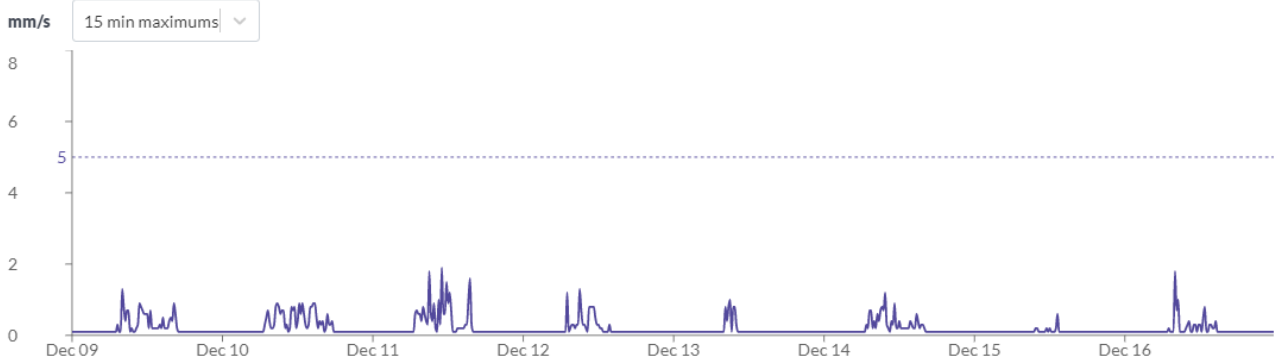
Vibration Noble Stand basement sprinkler room

Dec 1 2020 - Dec 8 2020



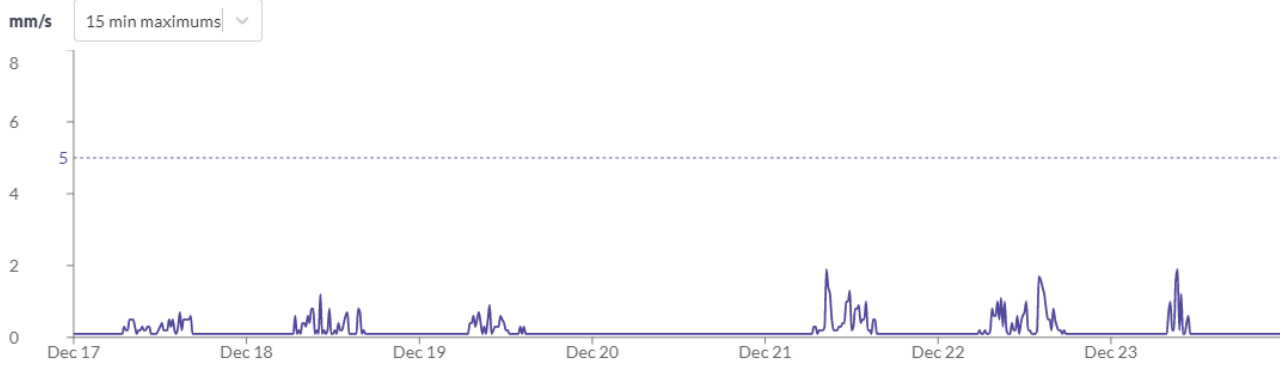
Vibration Noble Stand basement sprinkler room

Dec 9 2020 - Dec 16 2020



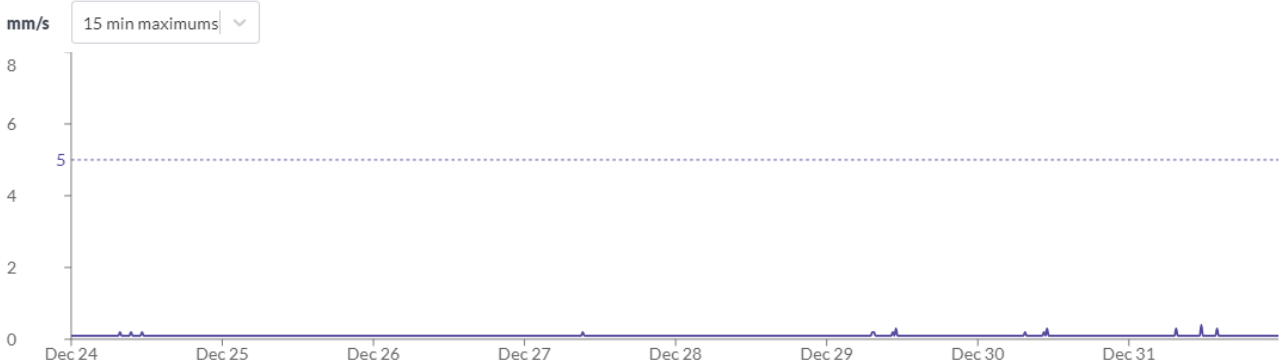
Vibration Noble Stand basement sprinkler room

Dec 17 2020 - Dec 23 2020



Vibration Noble Stand basement sprinkler room

Dec 24 2020 - Dec 31 2020



1.1.2 Discussion

Results were compliant with the relevant criteria during the period. There were a number of short-term events (less than 3 seconds) that exceeded the trigger levels. After investigation it was determined they were not attributed to construction activities and were a result of interference with the monitors.

1.2 Attended Monitoring

Attended monitoring was not conducted during this period as real time monitors were installed and functional during the assessed period.

2 Noise Monitoring

2.1 Real time monitoring

Real time monitors are located at the following locations

- Kira Childcare
- North East Boundary near Moore Park Road

The adopted criteria are as per the conditions of the Development Consent below:

C7. All works that generate noise exceeding 75dB(A) LAeq (15mins) are subject to the intra-day respite periods, as approved by the Planning Secretary in the CNVMP in condition B28

B28e(iv). the following intra-day respite periods (as defined by ICNG) for works exceeding 75dB(A) LAeq(15 mins), unless otherwise agreed with the identified sensitive receivers such as UTS, Kira Child Care Centre and / or Fox Studios and evidence of the agreement provided to the Planning Secretary, prior to the commencement of the works:

- *in continuous blocks not exceeding 3 hours each with one hour of respite every three hours block;*
- *scheduling of works outside of the examination time for educational establishments; and*
- *noise intrusive works commencing after 8am and be undertaken within the approved standard construction hours.*

2.1.1 Results

Kira Child Care Centre



Noise Kira Child Care Centre

Dec 9 2020 - Dec 16 2020



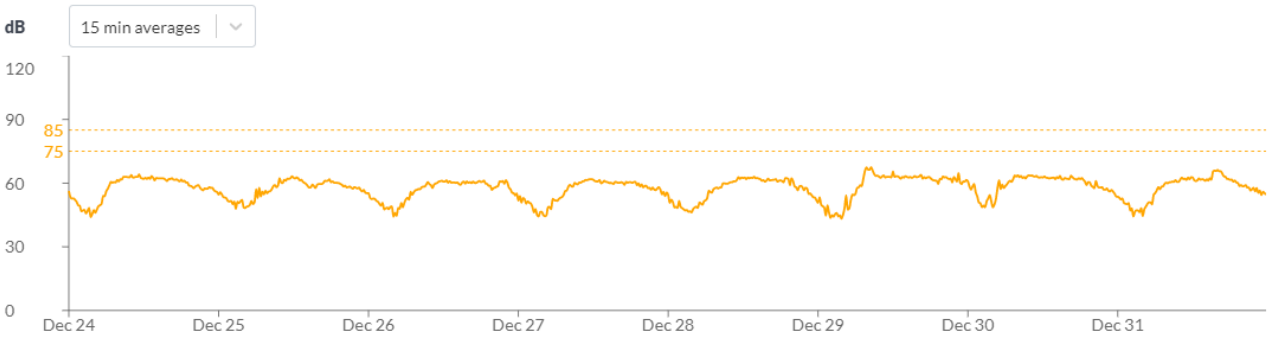
Noise Kira Child Care Centre

Dec 17 2020 - Dec 23 2020



Noise Kira Child Care Centre

Dec 24 2020 - Dec 31 2020



Moore Park Road

Noise Gatehouse, Moore Park Road

Dec 1 2020 - Dec 8 2020



Noise Gatehouse, Moore Park Road

Dec 9 2020 - Dec 16 2020



Noise Gatehouse, Moore Park Road

Dec 17 2020 - Dec 23 2020



Noise Gatehouse, Moore Park Road

Dec 24 2020 - Dec 31 2020



2.1.2 Discussion

Works were compliant with the criteria. The predominant source of noise was due to peak hour traffic. There are small periods of missing data due to a malfunction of the monitor, and scheduled site maintenance.

2.2 Attended Monitoring

Attended monitoring was carried out at 4 locations as below

Date	Time	Location	Predicted Result (Laeq)	Activities	Comment

d L a e q (1 5)						
26/11/2020	11:33	E5	77	70.9	Excavation works, hammering	Traffic dominant noise source, construction works are audible
26/11/2020	10:59	CC2	74	71.0	Excavation works, hammering	Traffic dominant noise source
9/11/2020	11:16	R6	80	67.9	Excavation works, Tower crane lifting, concrete pouring	Traffic dominant noise source, construction works are audible
21/12/2020	13:04	C1	76	71.1	Excavation works, hammering	Construction noise audible, works occurring >20m from monitoring location

3 Dust Monitoring

3.1 Real Time Monitoring

2 Real time dust monitors are installed on the site

- North eastern boundary near Moore Park Road
- SCG
- Kira Childcare Centre

The criteria and trigger values are as below:

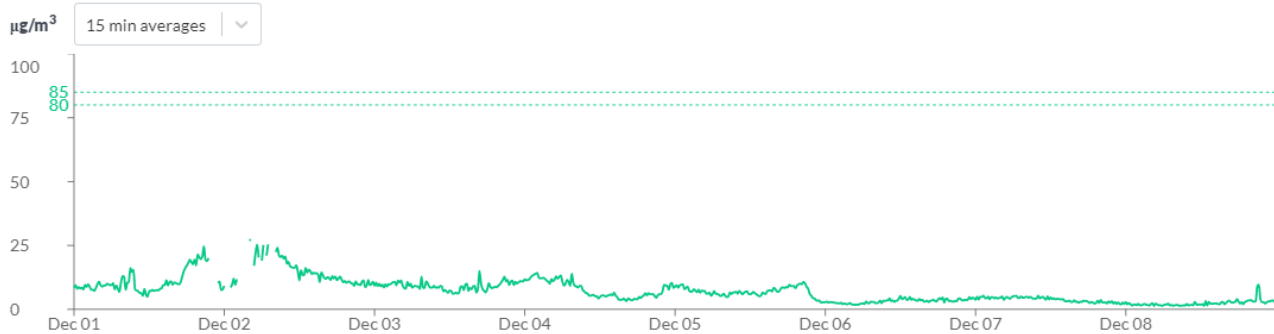
Trigger Stage	Averaging Period	Trigger Value ($\mu\text{g}/\text{m}^3$)	Action Required
1 Investigate	1 hour	85	Site Manager to undertake review of possible dust sources operating during the average period. Identify possible measures for these activities; action if deemed necessary.
	3 hour	80	
2 Action	1 hour	470	Site Manager to attend site and ensure implementation of the control. Effectiveness of control actions to be reviewed and escalate where appropriate.
	3 hour	160	
3 Stop Work	1 hour	940	Targeted shut down of dust-generating activities until the measured pollutant levels are below the stated trigger value. Identify long-term solutions to dust issues.
	3 hour	320	

3.1.1 Results

Moore Park Road

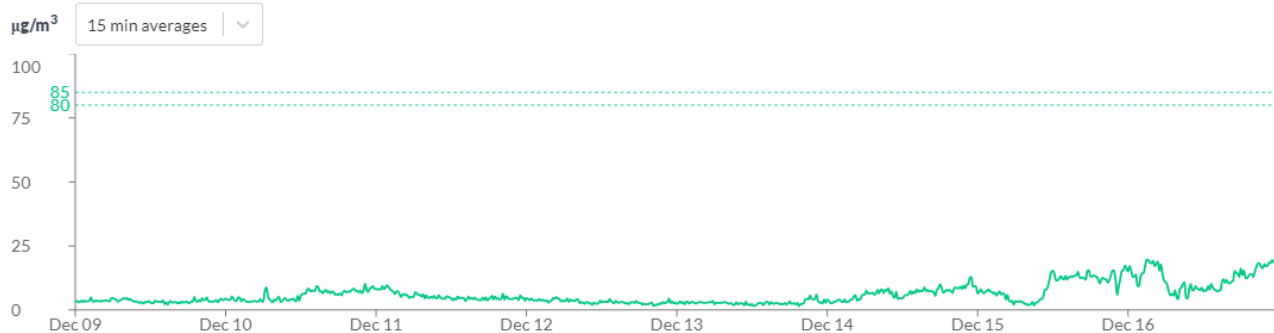
Dust Gatehouse, Moore Park Road

Dec 1 2020 - Dec 8 2020



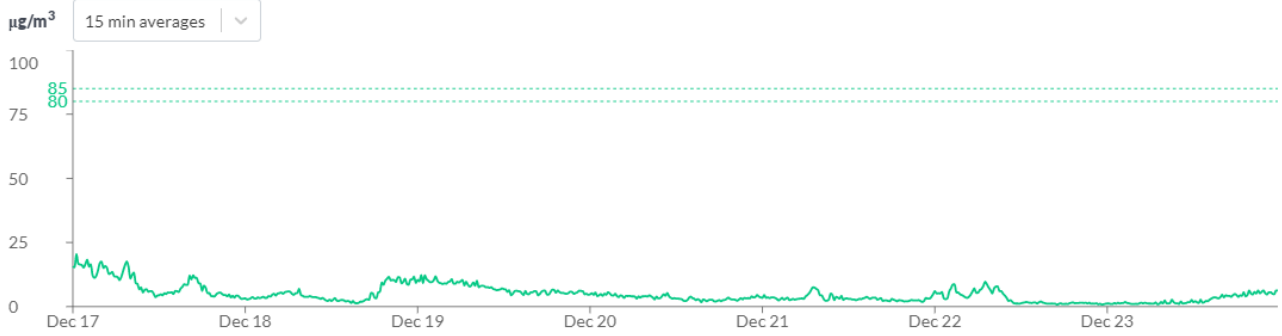
Dust Gatehouse, Moore Park Road

Dec 9 2020 - Dec 16 2020



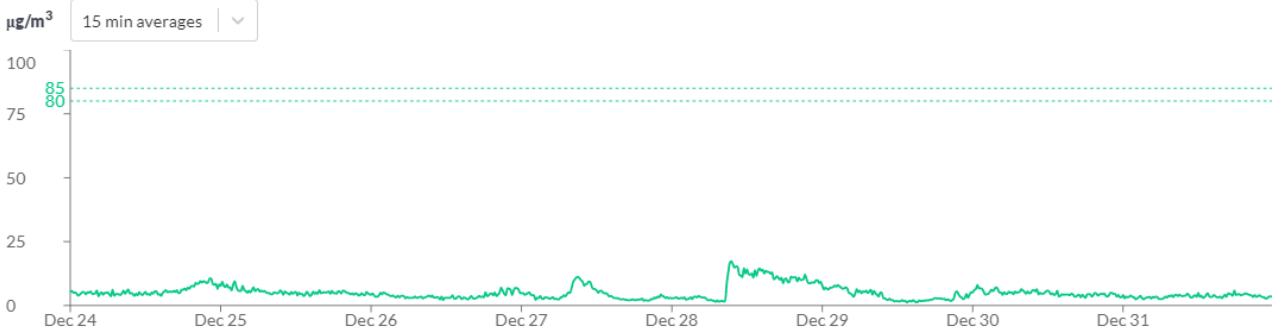
Dust Gatehouse, Moore Park Road

Dec 17 2020 - Dec 23 2020



Dust Gatehouse, Moore Park Road

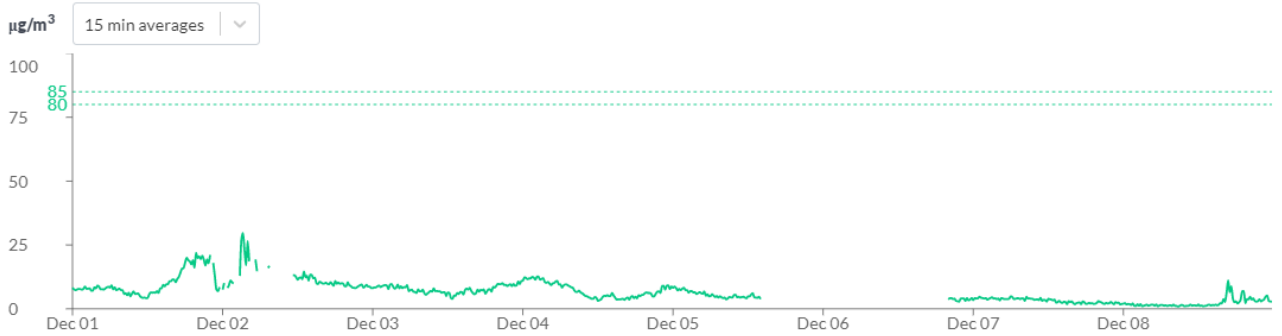
Dec 24 2020 - Dec 31 2020



SCG

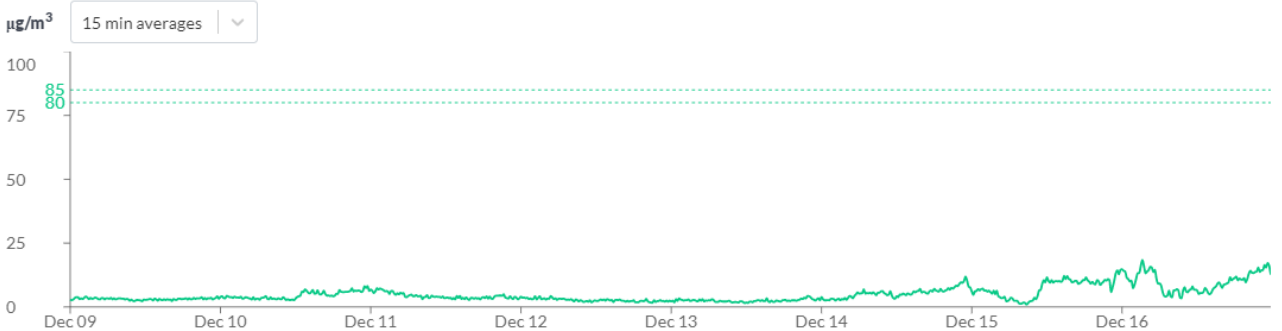
Dust SCG

Dec 1 2020 - Dec 8 2020



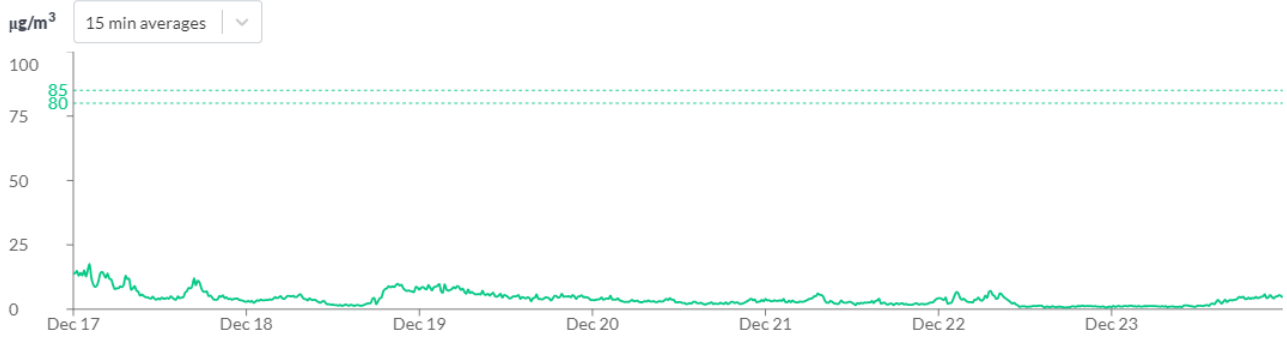
Dust SCG

Dec 9 2020 - Dec 16 2020



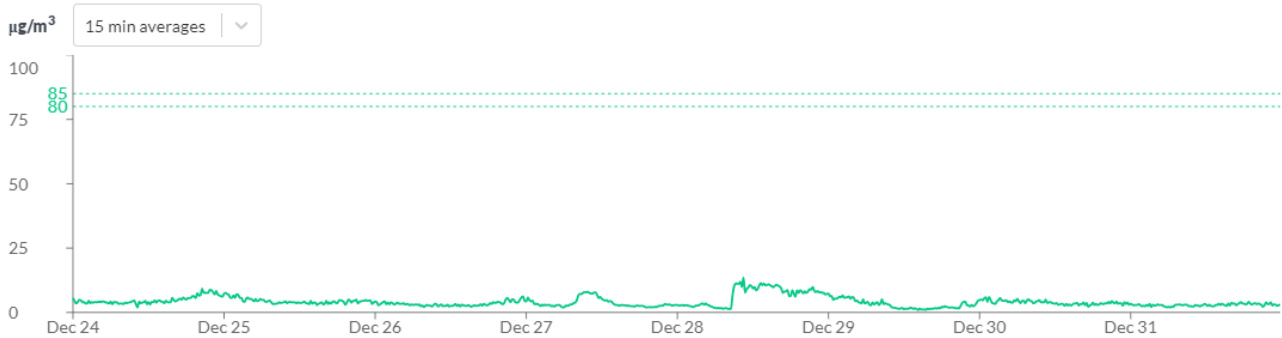
Dust SCG

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Dust SCG

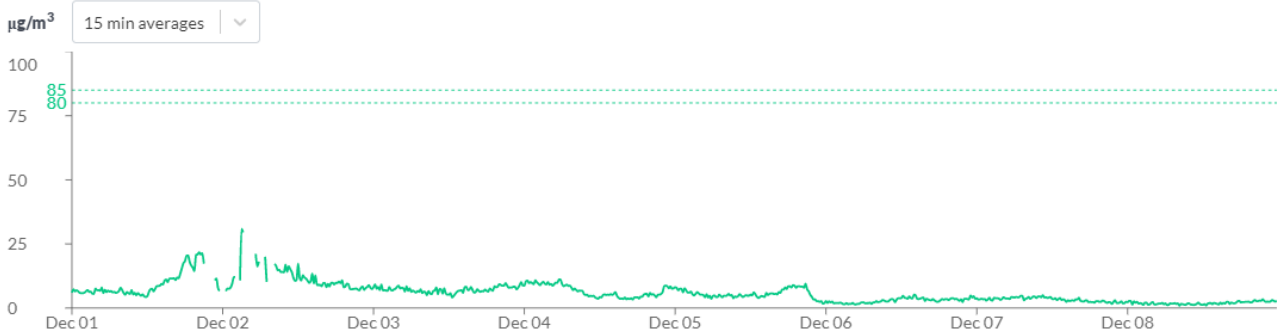
Dec 24 2020 - Dec 31 2020



Kira Childcare Centre

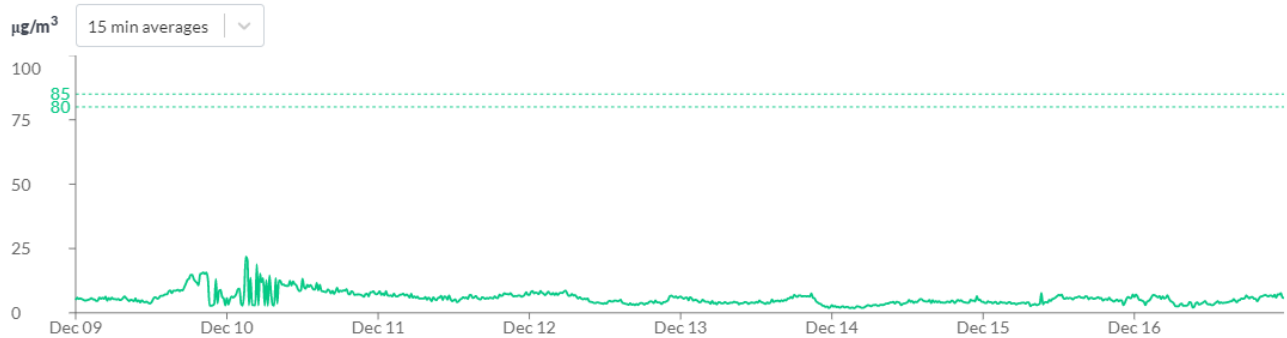
Dust Kira Child Care Centre

Dec 1 2020 - Dec 8 2020



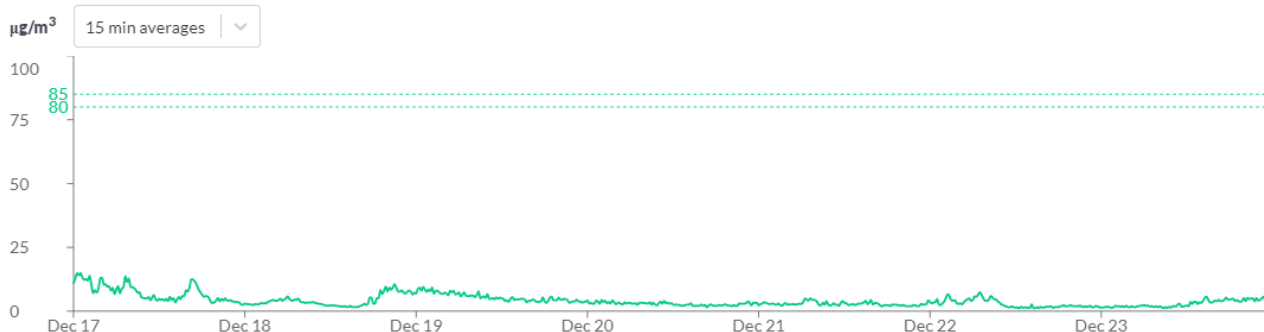
Dust Kira Child Care Centre

Dec 9 2020 - Dec 16 2020



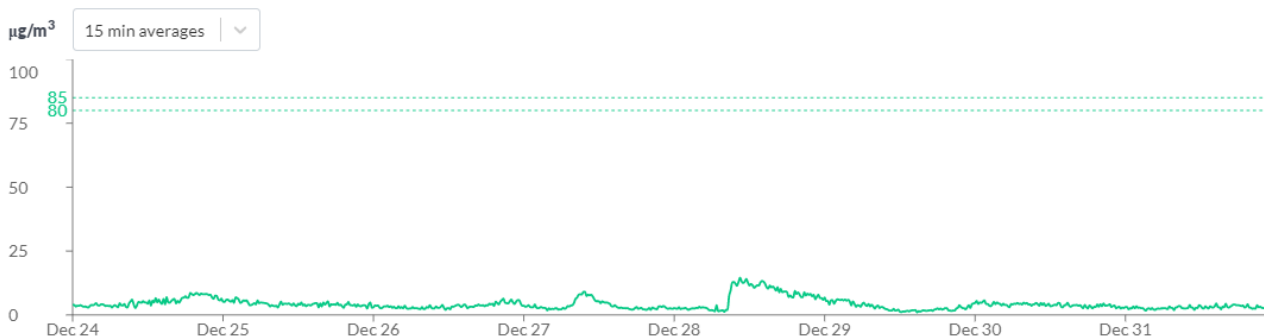
Dust Kira Child Care Centre

Dec 17 2020 - Dec 23 2020



Dust Kira Child Care Centre

Dec 24 2020 - Dec 31 2020



3.1.2 Discussion

The were no exceedances of the trigger levels.

3.2 Dust Deposition Monitoring

Gauge ID	Location	Trigger value g/m2/month	Result g/m2/month	Comment
August 2020				
DDG1	1	4	2.6	No trigger level events were recorded by real time monitors
DDG2	2A	4	6.0	No trigger level events were recorded by real time monitors

4 Water Quality Monitoring

Water quality monitoring was undertaken in 3 locations in Kippax Lake.

Date	Time	Location	Temp	pH	EC	NTU	DO	TDS	Comment
				(c)	mS/cm		Mg/L	g/L	
18/12/2020	14:41	1 (north)	27.11	7.09	0.23	43.0	6.2	0.15	No evidence of overland flow or

									impacts from SFs project activities. Low water levels
18/12/2020	15:07	2 (mid)	27.56	7.65	0.23	38.3	9.2	0.15	No evidence of overland flow or impacts from SFs project activities. Low water levels
18/12/2020	15:09	3 (south)	27.63	7.36	0.23	40.0	3.78	0.15	No evidence of overland flow or impacts from SFs project activities. Low water levels, scum on surface