

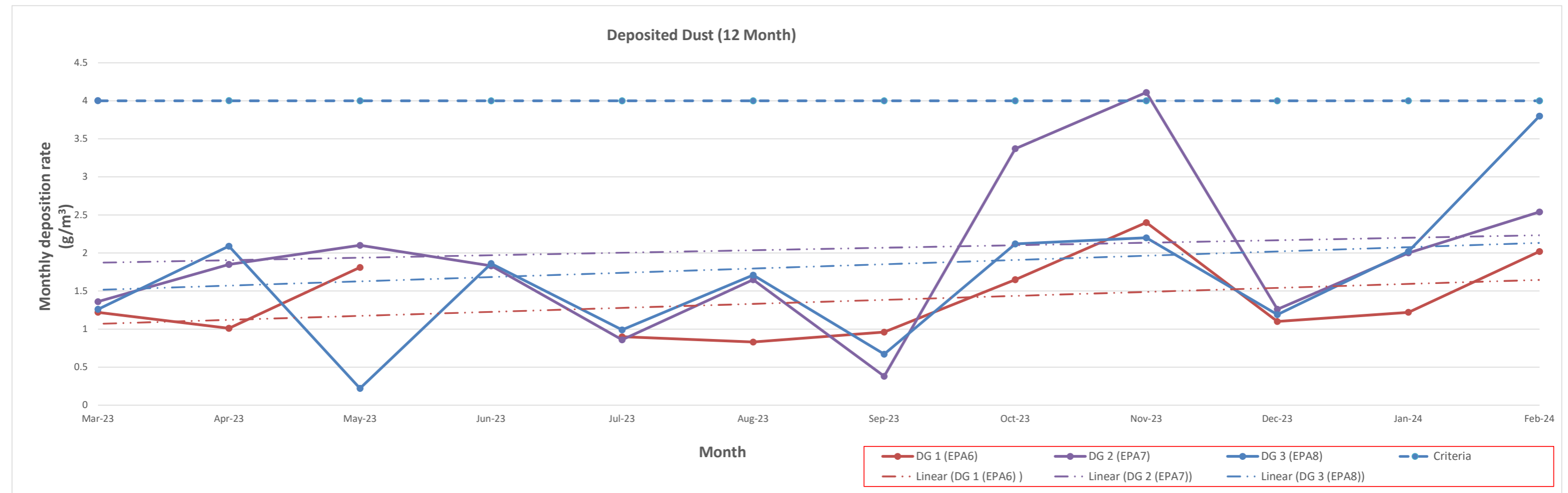
Air Quality Monitoring Locations



Air Quality Monitoring Locations

Deposited Dust Monitoring Results

Sampling					Results								Comments / Actions		
Month	Sampling Period		Days	Compliant (y/n)	Criteria	DG 1 (EPA6)		DG 2 (EPA7)		DG 3 (EPA8)		Investigation Outcome	Exclude Result (y/n)	Notification (date)	
	Start	End				Insoluble Solids	Investigate (y/n)	Insoluble Solids	Investigate (y/n)	Insoluble Solids	Investigate (y/n)				
Feb-23	2/02/2023	1/03/2023	27	N	4	0.93	N	3.14	N	3.18	N	Compliant	N	Not Required	
Mar-23	1/03/2023	3/04/2023	33	N	4	1.22	N	1.36	N	1.26	N	Compliant	N	Not Required	
Apr-23	3/04/2023	1/05/2023	28	Y	4	1.01	N	1.85	N	2.09	N	Compliant	N	Not Required	
May-23	1/05/2023	1/06/2023	31	Y	4	1.81	N	2.1	N	0.22	N	Compliant	N	Not Required	
Jun-23	1/06/2023	3/07/2023	32	Y	4		N	1.83	N	1.86	N	Compliant. Bottle for DG1 broken during transport (No Result).	N	Not Required	
Jul-23	3/07/2023	1/08/2023	29	Y	4	0.9	N	0.86	N	0.99	N	Compliant	N	Not Required	
Aug-23	1/08/2023	1/09/2023	31	Y	4	0.83	N	1.65	N	1.71	N	Compliant	N	Not Required	
Sep-23	1/09/2023	3/10/2023	32	Y	4	0.96	N	0.38	N	0.67	N	Compliant	N	Not Required	
Oct-23	3/10/2023	1/11/2023	29	Y	4	1.65	N	3.37	N	2.12	N	Compliant but much higher than previous months.	N	Not Required	
Nov-23	1/11/2023	1/12/2023	30	Y	4	2.4	N	4.11	N	2.2	N	12 month average remains <4 g/m2/month. Wind data inspected for November and winds predominantly from east to northeast, i.e. from off-site towards monitor. Indicates dust level generated by off-site activities.	N	Not Required	
Dec-23	1/12/2023	22/12/2023	21	N	4	1.1	N	1.26	N	1.19	N	Dust sample collected early due to Christmas / New Year closure of operations and personnel unavailability.	N	Not Required	
Jan-24	22/12/2023	1/02/2024	41	N	4	1.22	N	2	N	2.02	N	Sampling period extended due to Christmas shut-down	N	Not Required	
Feb-24	1/02/2024	29/02/2024	28	Y	4	2.02	N	2.54	N	3.8	N		0	0	
Average	All Records					1.15		1.38		1.71					
	Annual Return Period (Jan 2023 to Jan 2024)					1.28		1.99		1.63					
	12 month rolling					1.31		1.81		1.66					



Airborne Particulate Monitoring Results - January



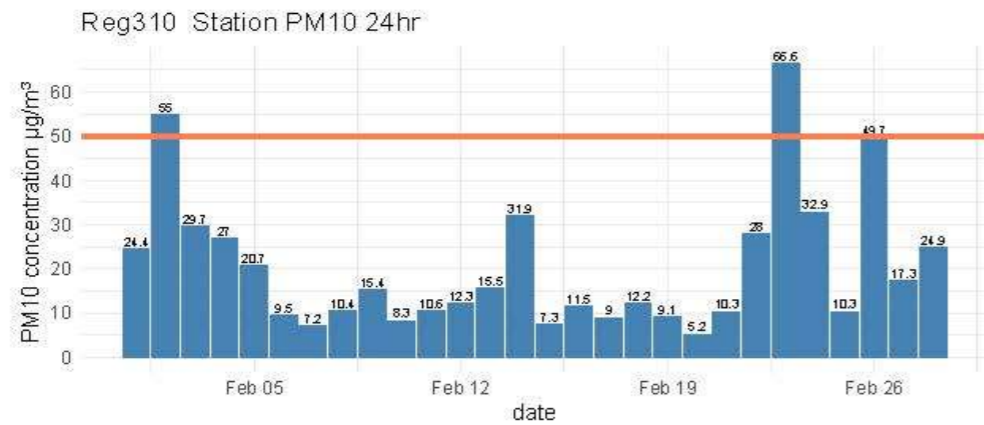
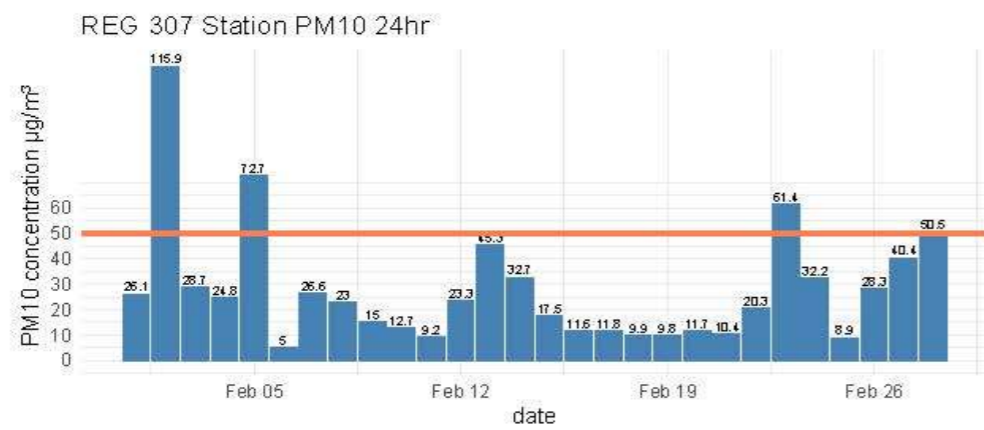
REGIONAL
AIR QUALITY
MONTHLY REPORT
01/02/2024 to 29/02/2024

Air quality monitoring objectives

Table 1: Air quality Compliance Criteria

Pollutant	Averaging period	Criterion ($\mu\text{g}/\text{m}^3$)
Particulate matter (PM2.5)	Annual	8
	24 hour	25
Particulate matter (PM10)	Annual	25
	24 hour	50

Results



1

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REGIONAL
AIR QUALITY
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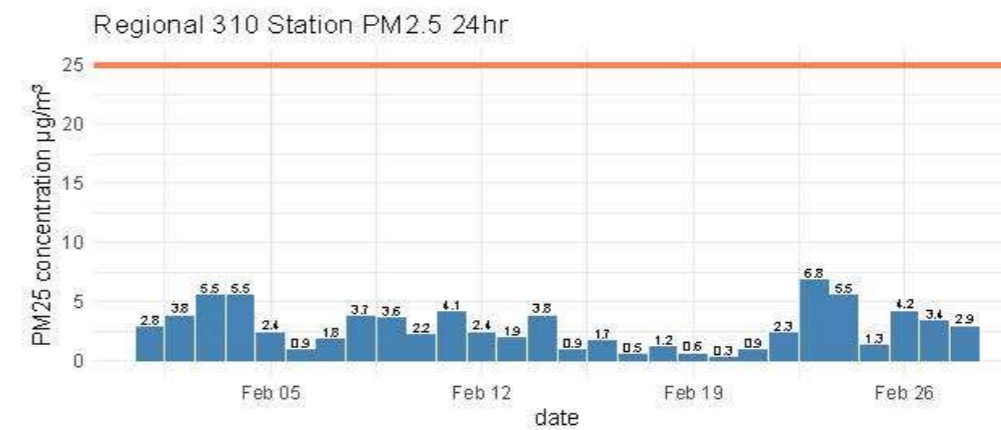
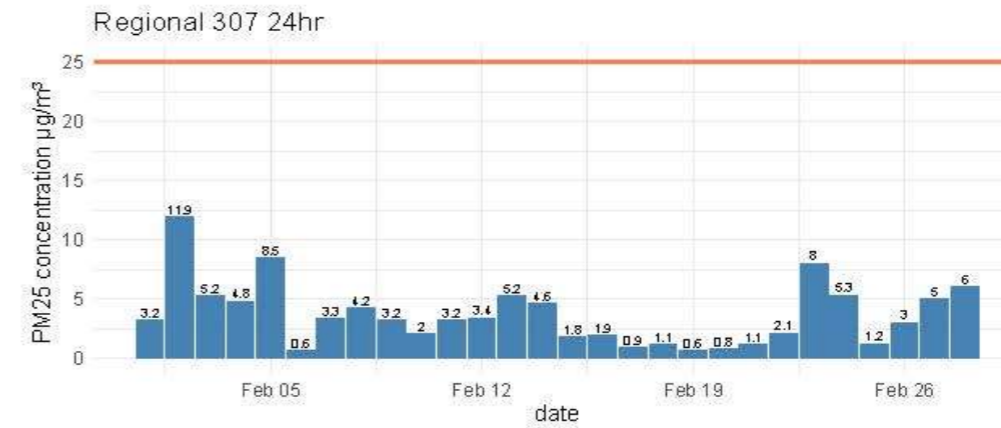


Table 2: Number of daily exceedances

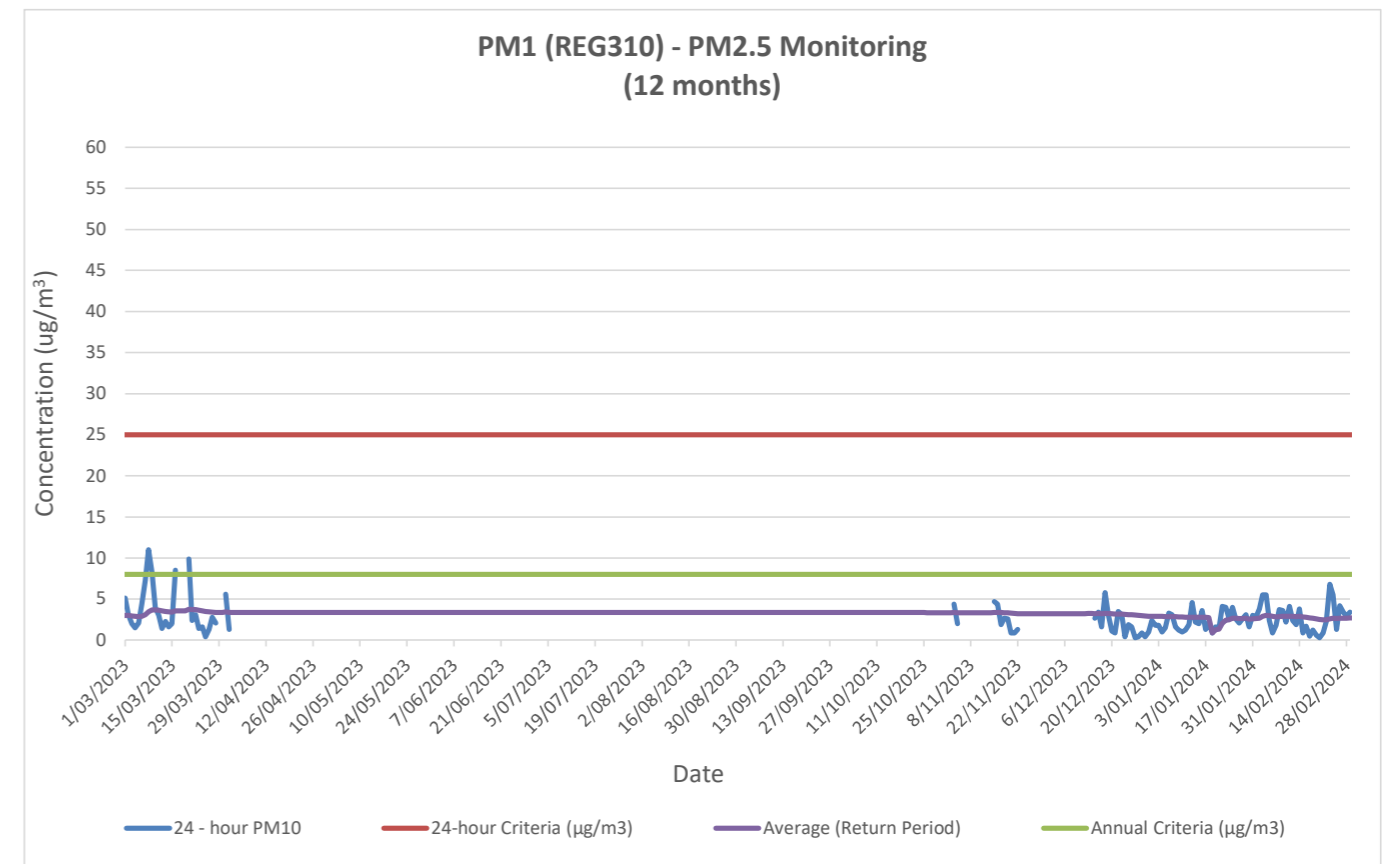
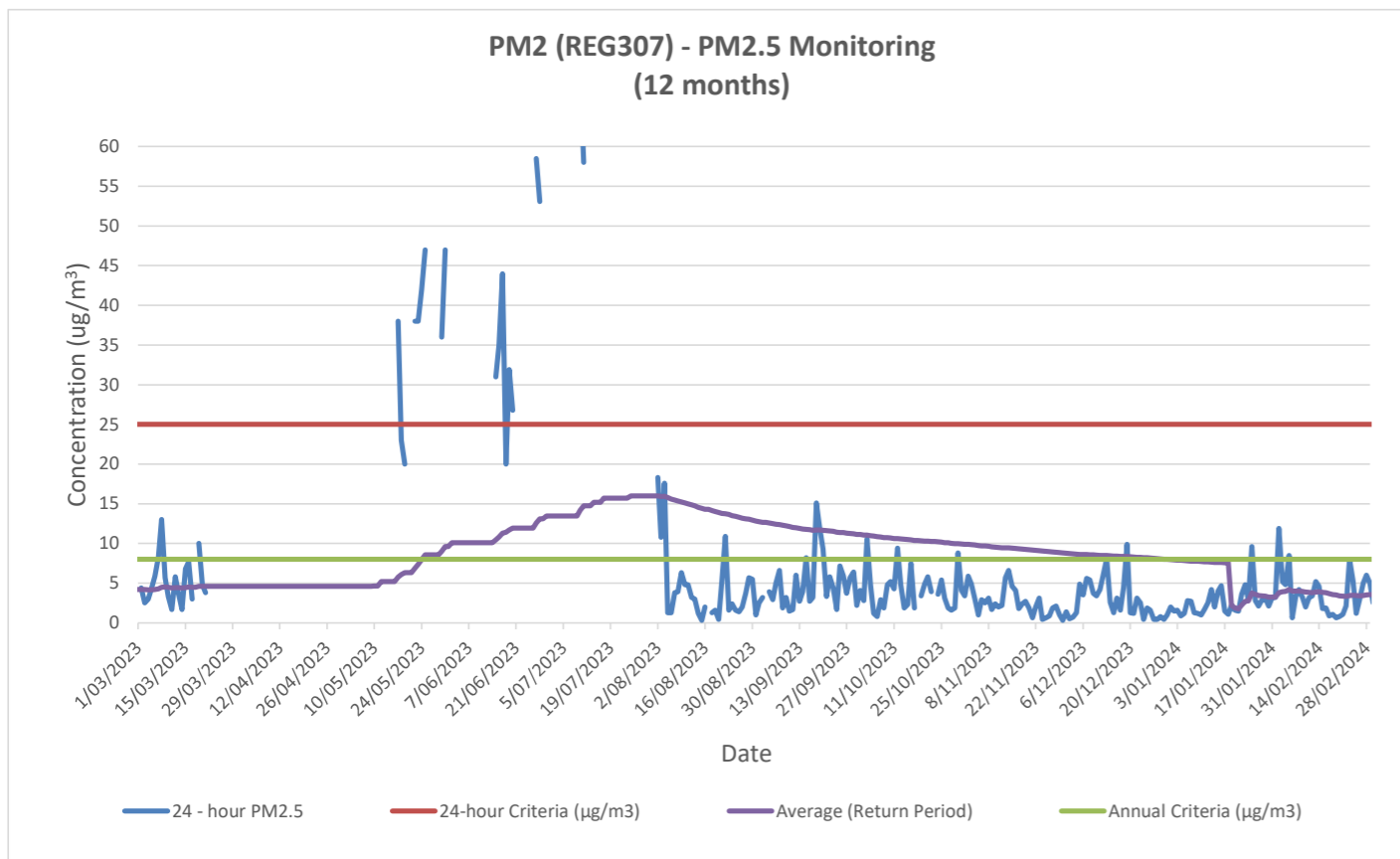
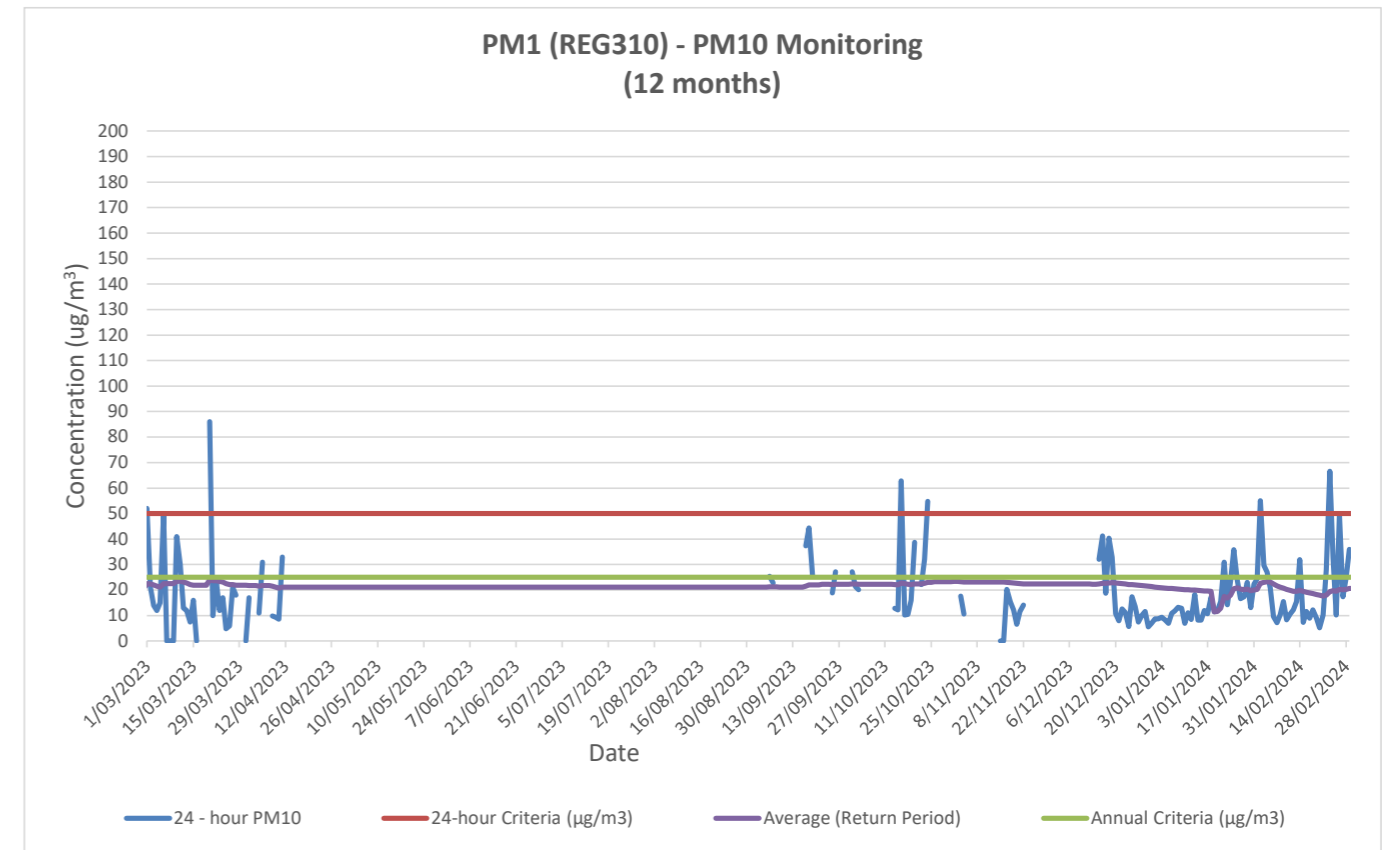
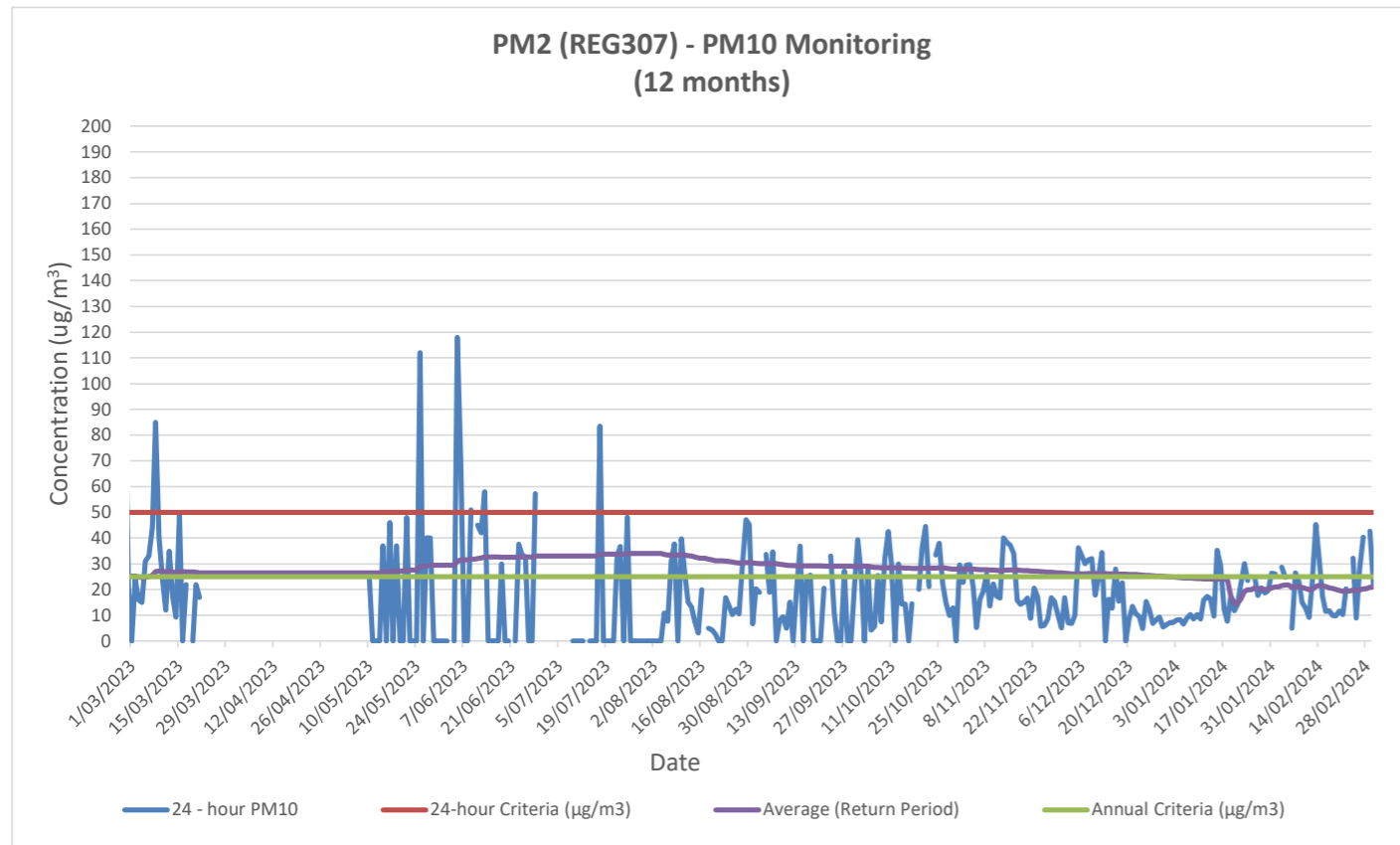
Location	PM10	PM2.5
Regional 307	4	0
Regional 310	2	0
Limit Value		
PM10 24 Hr average > 50 $\mu\text{g}/\text{m}^3$		
PM2.5 24 Hr average > 25 $\mu\text{g}/\text{m}^3$		

2

(c)

The elevated PM₁₀ results have been investigated. On 2/2, 5/2 and 28/2, the prevailing winds were from the south indicating sources external to the quarry. On 23/2, the prevailing winds was from the west prior to 11am. Westerly winds would direct airborne particulate matter from the Quarry to REG310. The concentration at REG310 was only 5 $\mu\text{g}/\text{m}^3$ greater than that recorded in REG307 indicating the majority of airborne particulate matter was likely generated from activities to the west of the Quarry.

Airborne Particulate Monitoring Results - Rolling 12 Months (including Annual Return Period Average)



Note: Results are reviewed monthly (prior to publishing) with reference to activity logs, meteorological conditions and other environmental factors, e.g. bushfire, dust storm, etc. in accordance with the **South Keswick Quarry Air Quality Management Plan**. In accordance with this plan, and in order to review results against particulate matter concentration criteria, results exceeding relevant 24 hr limits (refer to Airborne Particulate Monitoring Results - September) which can be demonstrated as not attributable to quarry emissions (i.e. wind direction blowing from the monitor to the quarry) are excluded from charts and calculation of annual average concentration.