



22nd December 2022

Wassim Hawat
Project Delivery Manager
Randwick City Council
By email: wassim.hawat@randwick.nsw.gov.au

RE: Outdoor Air Quality Monitoring – Coral Sea Park, Maroubra NSW

Sydney Environmental Group (SEG) are currently engaged by Randwick City Council (hereafter referred to as ‘the client’), to provide outdoor air quality monitoring services during the Coral Sea Park Synthetic Sports Field Upgrade Project, located at Coral Sea Park, Maroubra NSW (hereafter referred to as the ‘site’).

SEG have been advised by the client that the project involves the redevelopment of a portion of Coral Sea Park into a synthetic turf sporting field. As part of the scope of works, the client is required to undertake intrusive excavations within fill materials.

Following the receipt of concerns lodged by a neighbouring resident with regard to potential dust generating activities. SEG was engaged to conduct additional air monitoring to assess airborne particulate matter (i.e. dust) emanating from the site boundary, and continue boundary control airborne asbestos monitoring.

Sampling Methodology

SEG installed two (2) laser-based optical particle counter systems on the 10th of November 2022 on the site boundary along Chester Avenue, located on the western boundary of the park and site. The siting of monitors was selected to address particular resident concerns. Additionally, three (3) SKC Airchek XR5000 airborne asbestos monitors have been setup at strategic locations surrounding the site boundary to assess the concentration of airborne fibres. Airborne asbestos monitoring is undertaken in accordance with National Occupational Health and Safety Commission ‘Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)].

Results and Conclusion

SEG have compared site data, local NSW EPA operated monitoring data, and guideline values provided in NEPM 1998. A summary of monitoring to date is provided in **Appendix A**. SEG conclude the following:

- PM_{2.5} and PM₁₀ measured at the site to date have been well below NEPM 1998 criteria;
- PM_{2.5} and PM₁₀ measured at the site are generally lower than the reference NSW EPA air quality monitoring station based in Randwick;
- Airborne asbestos fibres have not been detected above the detection limit of the method or above the site adopted criteria; and
- Dust control measures at the site are considered adequate and above industry best practice. No further controls are recommended.

Should you have any further questions regarding information provided in this letter, please do not hesitate to contact the undersigned.

Sincerely yours,

Steven Wallace
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APPENDIX A

AIR MONITORING RESULTS SUMMARY TABLES

Figure 1 PM_{2.5} Results Summary

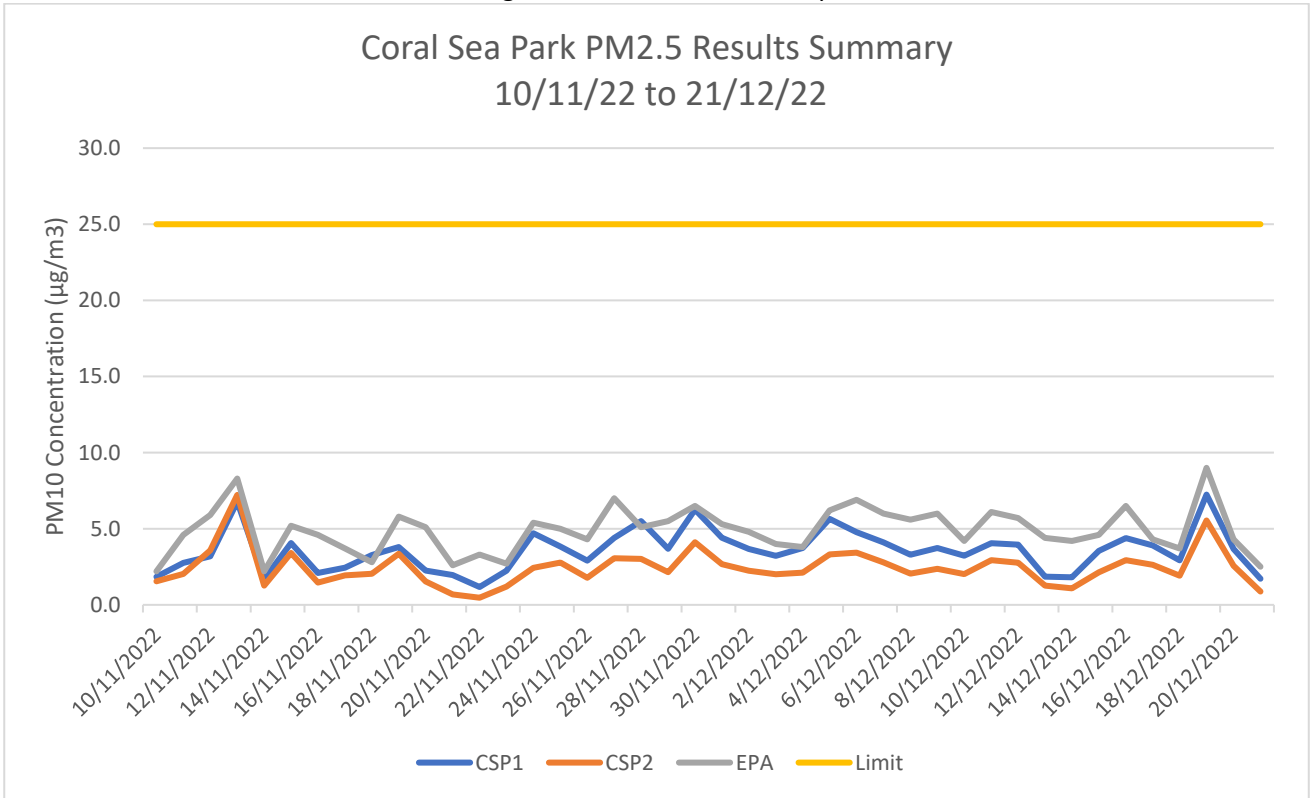
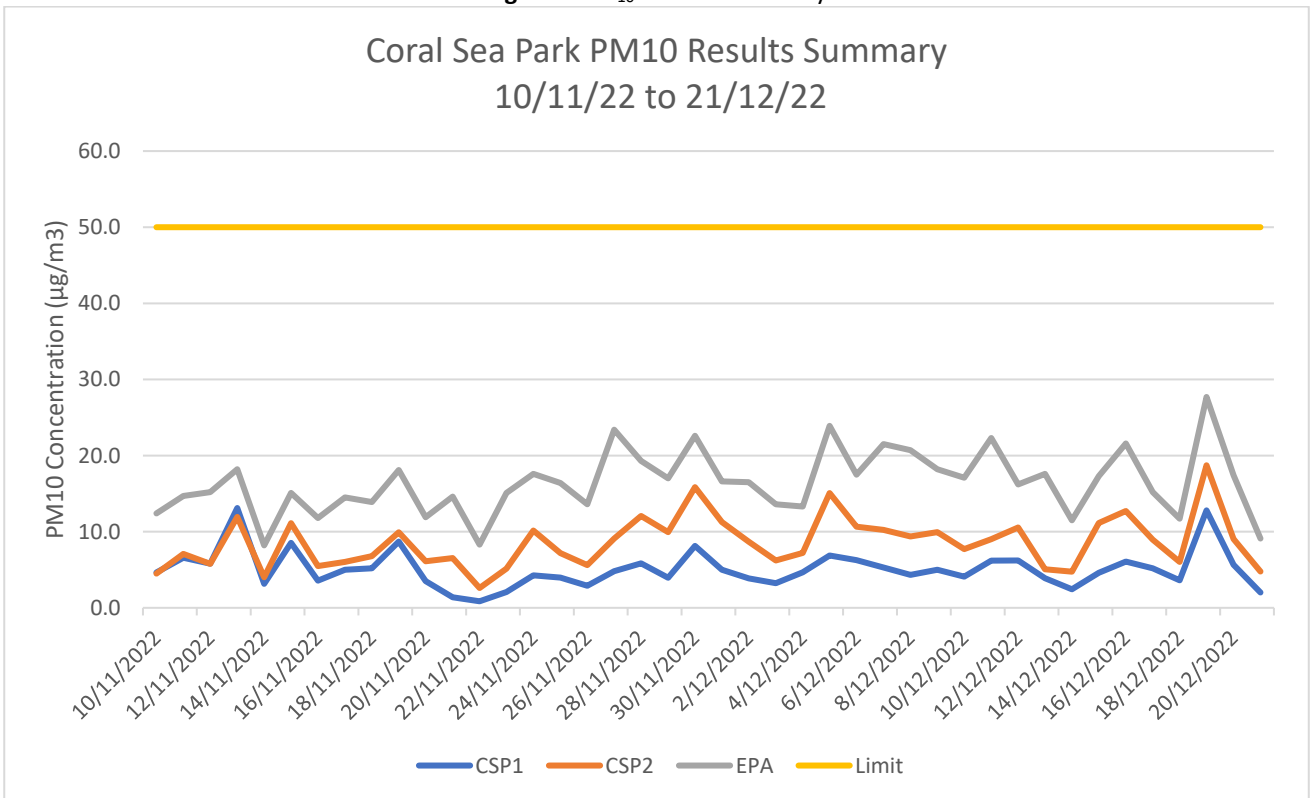


Figure 2 PM₁₀ Results Summary



Note to Figures: ‘CSP1’ and ‘CSP2’ are on-site monitors. ‘EPA’ is the government run air quality monitoring station located at Randwick Army Barracks, situated approximately 1.8 km to the north of the subject site. ‘Limit’ is the assessment criteria.

Table 1 Summary of boundary control airborne asbestos monitoring

Date	AM01 (Fibres/mL)	AM02 (Fibres/mL)	AM03 (Fibres/mL)
10/11/2022	< 0.01	< 0.01	< 0.01
11/11/2022	< 0.01	< 0.01	< 0.01
12/11/2022	< 0.01	< 0.01	< 0.01
13/11/2022	-	-	-
14/11/2022	< 0.01	< 0.01	< 0.01
15/11/2022	< 0.01	< 0.01	< 0.01
16/11/2022	< 0.01	< 0.01	< 0.01
17/11/2022	< 0.01	< 0.01	< 0.01
18/11/2022	< 0.01	< 0.01	< 0.01
19/11/2022	< 0.01	< 0.01	< 0.01
20/11/2022	-	-	-
21/11/2022	< 0.01	< 0.01	< 0.01
22/11/2022	< 0.01	< 0.01	< 0.01
23/11/2022	< 0.01	< 0.01	< 0.01
24/11/2022	< 0.01	< 0.01	< 0.01
25/11/2022	< 0.01	< 0.01	< 0.01
26/11/2022	< 0.01	< 0.01	< 0.01
27/11/2022	-	-	-
28/11/2022	< 0.01	< 0.01	< 0.01
29/11/2022	< 0.01	< 0.01	< 0.01
30/11/2022	< 0.01	< 0.01	< 0.01
1/12/2022	< 0.01	< 0.01	< 0.01
2/12/2022	< 0.01	< 0.01	< 0.01
3/12/2022	< 0.01	< 0.01	< 0.01
4/12/2022	-	-	-
5/12/2022	< 0.01	< 0.01	< 0.01
6/12/2022	< 0.01	< 0.01	< 0.01
7/12/2022	< 0.01	< 0.01	< 0.01
8/12/2022	< 0.01	< 0.01	< 0.01
9/12/2022	< 0.01	< 0.01	< 0.01
10/12/2022	< 0.01	< 0.01	< 0.01
11/12/2022	-	-	-
12/12/2022	< 0.01	< 0.01	< 0.01
13/12/2022	< 0.01	< 0.01	< 0.01
14/12/2022	< 0.01	< 0.01	< 0.01
15/12/2022	< 0.01	< 0.01	< 0.01
16/12/2022	< 0.01	< 0.01	< 0.01
17/12/2022	< 0.01	< 0.01	< 0.01
18/12/2022	-	-	-
19/12/2022	< 0.01	< 0.01	< 0.01
20/12/2022	< 0.01	< 0.01	< 0.01
21/12/2022	< 0.01	< 0.01	< 0.01

Note to Tables: No airborne asbestos monitoring is undertaken on Sundays. This is denoted by ‘-’.