### CH1435-D240035



Chris Chau Kane Constructions Pty Ltd 2 John Street, Waterloo NSW 2017

cchau@kane.com.au

### Re: PM10 and PM2.5 Monitoring January 2024 - Westmead Hospital

Compliance Health & Environmental Consulting (CHEC) were engaged by Kane Constructions Pty Ltd to undertake PM10 and PM2.5 dust monitoring during construction works at Westmead Hospital, Westmead.

Construction is being undertaken adjacent to the children's hospital and monitoring was necessary to ensure control measures were adequate to minimise dust generation.

Criteria and monitoring methods have been adopted from the National Environment Protection (Ambient Air Quality) Measure, 2021. The criteria are presented below:

### Table 1 – 24hr and Annual Average Criteria for PM2.5 and PM10 Dust (µg/m<sup>3</sup>)

|                | PM 2.5 | PM10 |
|----------------|--------|------|
| 24hr Average   | 25     | 50   |
| Annual Average | 8      | 25   |

Monitoring for the Site commenced on the 4<sup>th</sup> April 2023 when an Airmet DX-2 monitoring unit was installed adjacent to the air conditioning intake for the hospital, as shown on **Figure 1** – Monitoring Location. This monitor was Sited in accordance with AS/NZS 3580.1.1:2016, as required by NEPM, 2021.

PM10 24hr average concentrations were recorded below the criteria of 50µg/m<sup>3</sup> with a maximum concentration of 14.4ug/m<sup>3</sup>. Likewise, PM2.5 24hr average concentrations were recorded at a maximum of 8.6ug/m<sup>3</sup>, which was less than the criteria of 25ug/m<sup>3</sup>.

The monitoring data for the month of January 2024 is considered compliant with relevant criteria. Refer to **Figure 2** – PM10 January Monitoring Data and **Figure 3** – PM2.5 January Monitoring Data.

Regards,

Jayden Gross Environmental Consultant Compliance Health & Environmental Consulting Pty Ltd



Figure 1 – Site Layout



Monitoring Location



Construction Works Area





Date

Revision

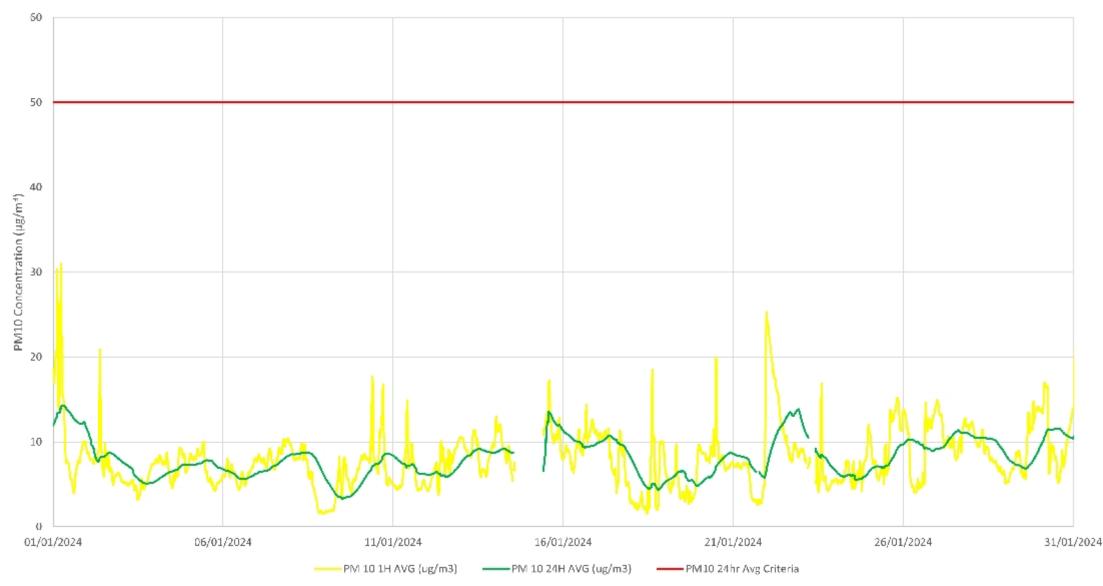
01/05/2023

Rev. 1



# Figure 2 – PM10 January Monitoring Data

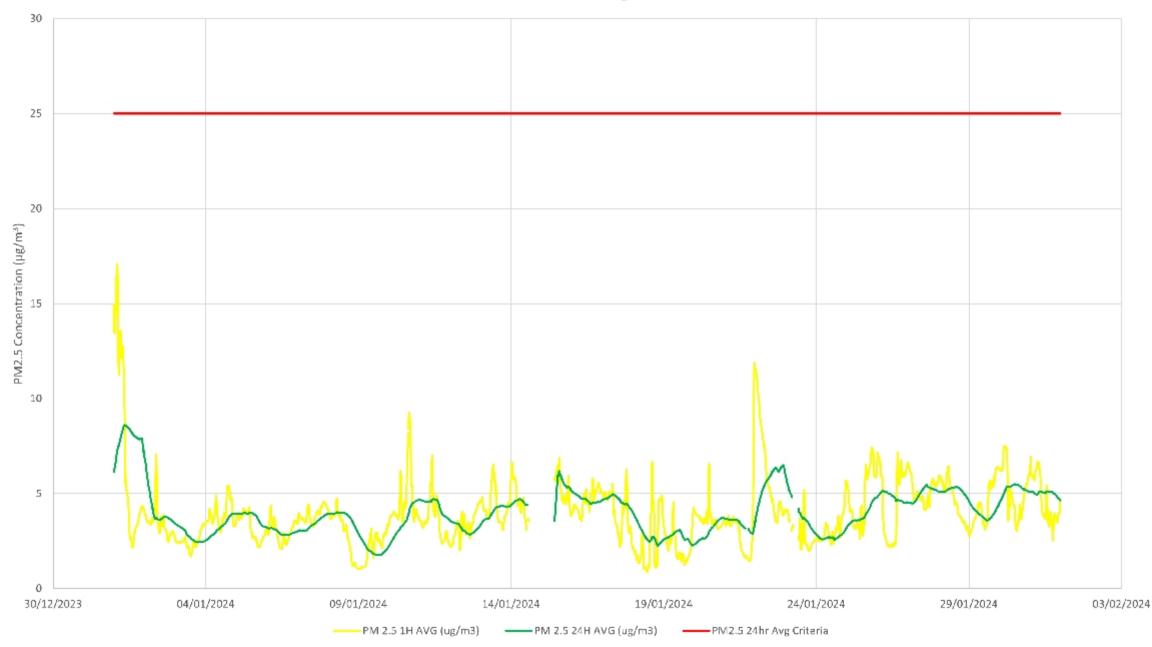
PM10 Monitoring Data





## Figure 3 – PM2.5 January Monitoring Data

PM2.5 Monitoring Data





## Attachment 1 - PM10 and PM2.5 Daily 24hr Averages

| Date       | Sample No. | Location of Sample | Time on     | Time off    | PM 10 24H AVG (ug/m3) | PM 2.5 24H AVG (ug/m3) |
|------------|------------|--------------------|-------------|-------------|-----------------------|------------------------|
| 1/01/2024  | 1          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 11.4                  | 6.9                    |
| 2/01/2024  | 2          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 7.8                   | 3.4                    |
| 3/01/2024  | 3          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 5.3                   | 2.5                    |
| 4/01/2024  | 4          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 7.3                   | 3.9                    |
| 5/01/2024  | 5          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.8                   | 3.2                    |
| 6/01/2024  | 6          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.3                   | 3.0                    |
| 7/01/2024  | 7          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.5                   | 3.9                    |
| 8/01/2024  | 8          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 5.8                   | 2.9                    |
| 9/01/2024  | 9          | Plant Room         | 12:00:00 AM | 11:59:59 PM | 4.7                   | 2.2                    |
| 10/01/2024 | 10         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.4                   | 4.7                    |
| 11/01/2024 | 11         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.1                   | 3.6                    |
| 12/01/2024 | 12         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 7.6                   | 3.4                    |
| 13/01/2024 | 13         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.7                   | 4.4                    |
| 14/01/2024 | 14         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.6                   | 3.6                    |
| 15/01/2024 | 15         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 11.3                  | 5.1                    |
| 16/01/2024 | 16         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 9.9                   | 4.7                    |
| 17/01/2024 | 17         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.0                   | 4.0                    |
| 18/01/2024 | 18         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 5.3                   | 2.6                    |
| 19/01/2024 | 19         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 5.0                   | 2.3                    |
| 20/01/2024 | 20         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.6                   | 3.7                    |
| 21/01/2024 | 21         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 7.2                   | 3.5                    |
| 22/01/2024 | 22         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 12.7                  | 5.9                    |
| 23/01/2024 | 23         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.6                   | 2.9                    |
| 24/01/2024 | 24         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 6.6                   | 3.2                    |
| 25/01/2024 | 25         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 9.7                   | 4.8                    |
| 26/01/2024 | 26         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 9.2                   | 4.5                    |
| 27/01/2024 | 27         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 10.8                  | 5.1                    |
| 28/01/2024 | 28         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 8.6                   | 4.6                    |
| 29/01/2024 | 29         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 9.2                   | 4.5                    |
| 30/01/2024 | 30         | Plant Room         | 12:00:00 AM | 11:59:59 PM | 10.5                  | 5.1                    |
| 31/01/2024 | 31         | Plant Room         | 12:00:00 AM | 11:59:59 PM |                       | 4.7                    |