

Memo

Project: National Paediatric Hospital

Report Type: Summary of Dust Monitoring Results

Period of Monitoring: November 2017

Introduction

The requirement for Dust Monitoring on site is laid out in the Project Environmental Impact Statement (EIS) that would have been submitted as part of the Planning Permission for the project. A number of monitoring points around the perimeter of the site are used to record dust levels. The location and number of dust monitors may vary throughout the project depending on activities on site.

Dust Monitoring.

The monitors are examined monthly and the levels of dust recorded are compared to a dust limit of 350mg/m²/day set out in the Project EIS. The monitoring points are monitored on a 'trigger level' basis - so if a predetermined level of dust is exceeded the Main Contractor shall review work processes and modify as required to reduce the level of dust generated.

Number of Monitors on Site during Monitoring Period:

Eleven

Location of Monitors:

The location of dust monitoring points for November (D1, D2, etc.) can be seen in Figure 1. The dust monitoring location points for November are the same as October. The previous dust monitor locations for the period April to September 2017 are shown in Figure 2 for reference.

Observations:

The dust monitoring period for November extends from 31st October to 4th December 2017.

The monitors at D2 and D8 had in previous months shown levels of dust deposition above the limits identified in the Project EIS. During the monitoring period of this report (31st October to 4th December 2017) BAM initiated a weekly testing regime for the monitors at D2 and D8 in an effort to identify the root cause of the higher dust deposition levels, and to enable a faster reaction time on site if a further high result was recorded.

This decision was actioned on the 27th November. The test results provided and summarised here cover two monitoring periods for sensors D2 & D8; from 31st October to the 26th November (27 days), and 27th November to 4th December (7 days). The remaining dust monitors were in place from 31st October to 4th December 2017 inclusive.

Overall, ten of the eleven dust monitors on site showed levels of dust lower than the levels specified in the Project EIS. One of the eleven dust monitors showed levels higher than the levels specified in the Project EIS.

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(Aside: The dust monitors at D2 and D8 (which were previously higher than specified limits) recorded levels of dust lower than those specified in the Project EIS for both monitoring periods – 27 days and 7 days).

Dust Monitoring Point D7 recorded the highest reading and is located near the carpark for St. James's Hospital A&E car park. The dust deposition rate was approximately 170% of the deposition rate limit specified in the Project EIS.

All other monitors had dust levels below the limit specified in the Project EIS.

Previous Readings:

Dust Monitoring Point D7 (shown in Figure 1) was previously identified as Dust Monitoring point D5 (shown in Figure 2). All previous results at this point were below the limit identified within the Project EIS.

Previous Reading for location D7 (and previously D5) were:

June	305mg / m ² / day
July	84.1mg / m ² / day
August	46.9mg / m ² / day
September	47mg / m ² / day
October	160mg / m ² / day

The November reading shows an increase on October's reading from 160mg / m² / day to 600mg / m² / day. It has been reported that there were piling works in the vicinity of the monitoring point during this period which is the likely cause of the elevated levels. The nearest adjacent monitors are D6 and D8. During this monitoring period the monitors at D6 and D8 were within limits specified in the Project EIS which would suggest the higher level of dust is reasonably localised.

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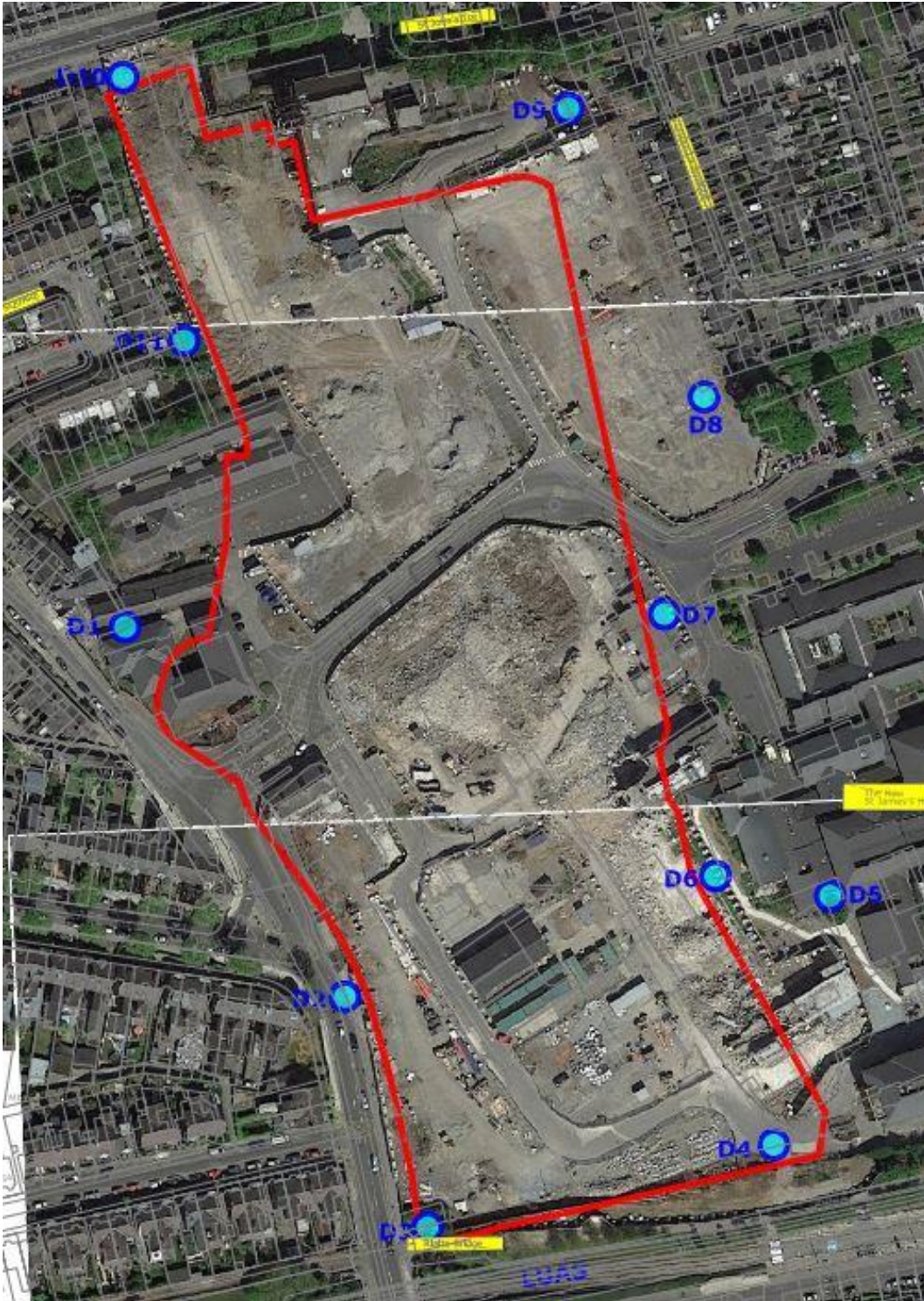


Figure 1. Location of Dust monitors on site (November 2017).

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Figure 2. Previous location of Dust monitors on site (April 2017 to August 2017).