

Memo

Project: National Paediatric Hospital

Report Type: Summary of Dust Monitoring Results

Period of Monitoring: 8th March 2018 – 4th April 2018

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 monitors in place at the beginning of the month but only 10 available by the end of the monitoring period.

Location of Monitors:

The location of dust monitoring points for March 2018 (D1, D2, etc.) can be seen in Figure 1. 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 March extends from 8th March 2018 to 4th April 2018. (Results for February included testing up to and including 7th March, meaning all working days on site have been captured in the dust monitoring results)

Over this period, all monitors were tested on a monthly basis i.e. once. Monitor D8, located to the rear of O'Reilly Avenue, is not included in the results after being damaged on site. The monitor has been replaced and will have results in April. The monitors adjacent to D8, D7 & D9, recorded <18 & 26 mg/m²/day respectively.

Works on site during this monitoring period include, but are not limited to: the pouring of concrete walls, columns and slabs near O'Reilly Avenue, excavation and piling works near the hospital entrance, Cameron Square, South Circular Road & Brookfield Clinic and pile cropping and capping near Linear Park.

Overall, all remaining dust monitors on site showed levels of dust lower than the levels specified in the Project EIS, less than 50mg/m²/day.

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Dust Monitoring Point D1 recorded the highest reading and is located near the hospital entrance at Brookfield Clinic. The dust deposition rate was approximately 77% of the deposition rate limit specified in the Project EIS. During this monitoring period, there were piling and excavation works ongoing in this area which may have resulted in this higher reading, However, the monitoring result remains below the limit set out in the Project EIS.



Figure 1. Location of Dust monitors on site (January 2018).

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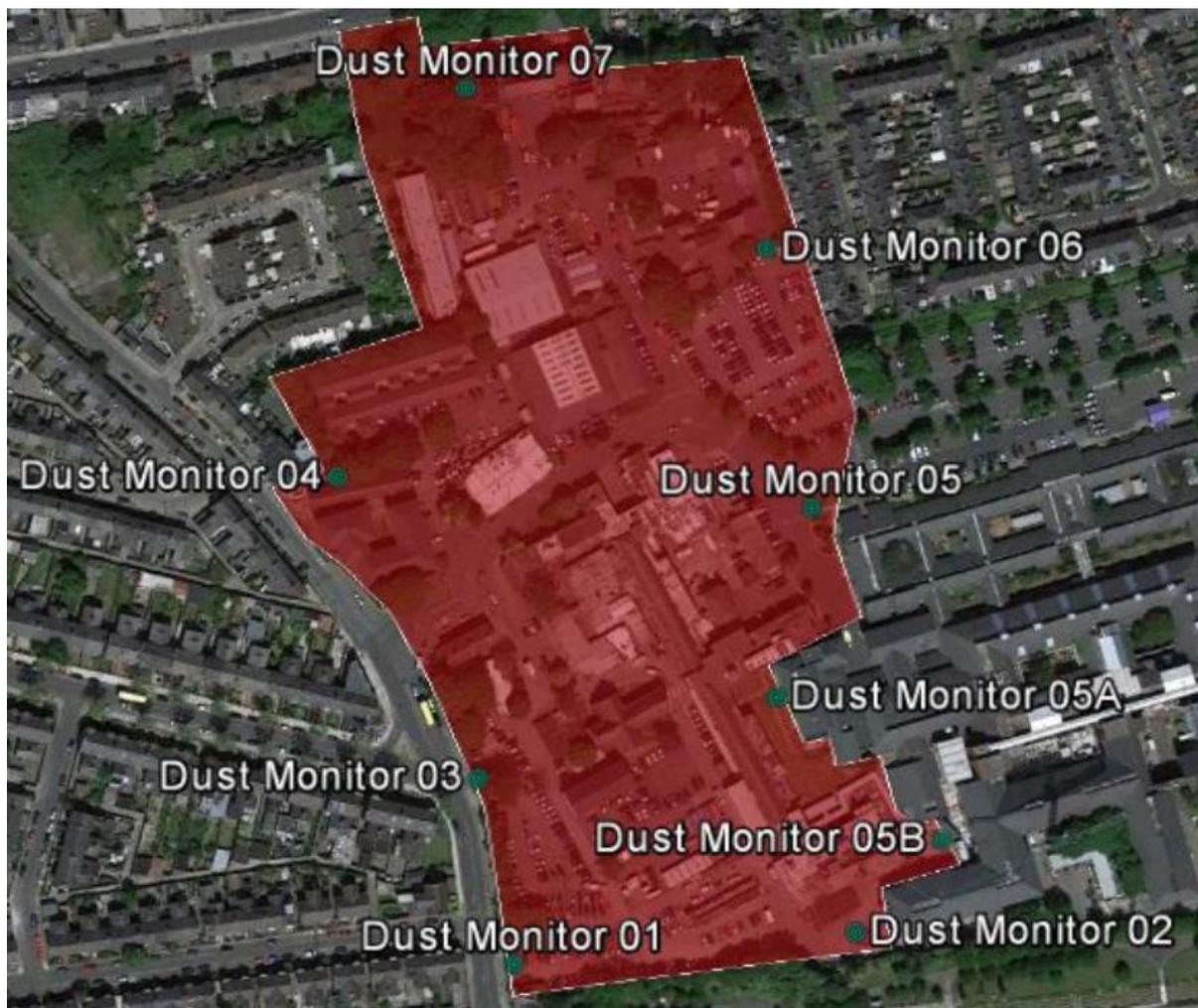


Figure 2. Previous location of Dust monitors on site (April 2017 to August 2017).