

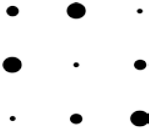
Construction
Environmental
Monitoring Ltd

3rd September 2018

Environmental Dust Monitoring Report Baseline Readings June to August 2018

Arthur Stanley House
40-50 Tottenham Street
London W1

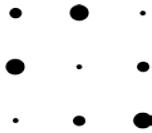
Report Compiled By: Zoë Graves AIEMA



1. Introduction

Construction Environment Limited have been engaged to undertake the installation, commissioning and monitoring of dust monitors for the 3 month baseline readings prior to commencement of works at Arthur Stanley House, 40-50 Tottenham Street, London W1T 4RN in line with planning conditions. The installed monitors will remain in place for the duration of all ensuing works.

This report presents the results of the dust monitoring that is being undertaken during the 3 months pre works period.



2. Dust Monitoring Equipment

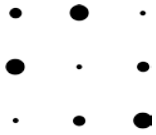
2 Osiris Particulate Dust Monitors have been installed at 2 locations within the site boundary to carry out monitoring during the times and activities as outlined in the table below.

The Osiris Particulate Dust Monitors are Environment Agency MCERTS approved and have been fully calibrated prior to installation.

Dust monitor no TNO4066 at location 2 has a weather sensor installed which will allow continuous onsite monitoring of wind speed and direction. This can be used to help identify the major sources of dust at any given time.

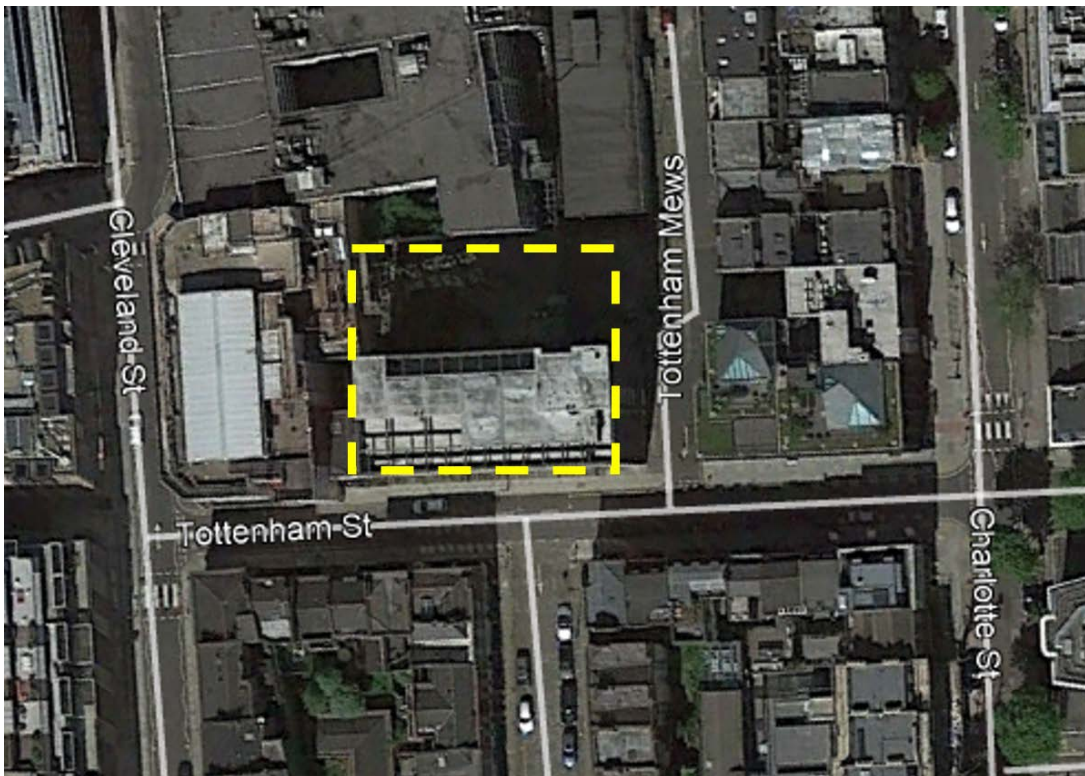
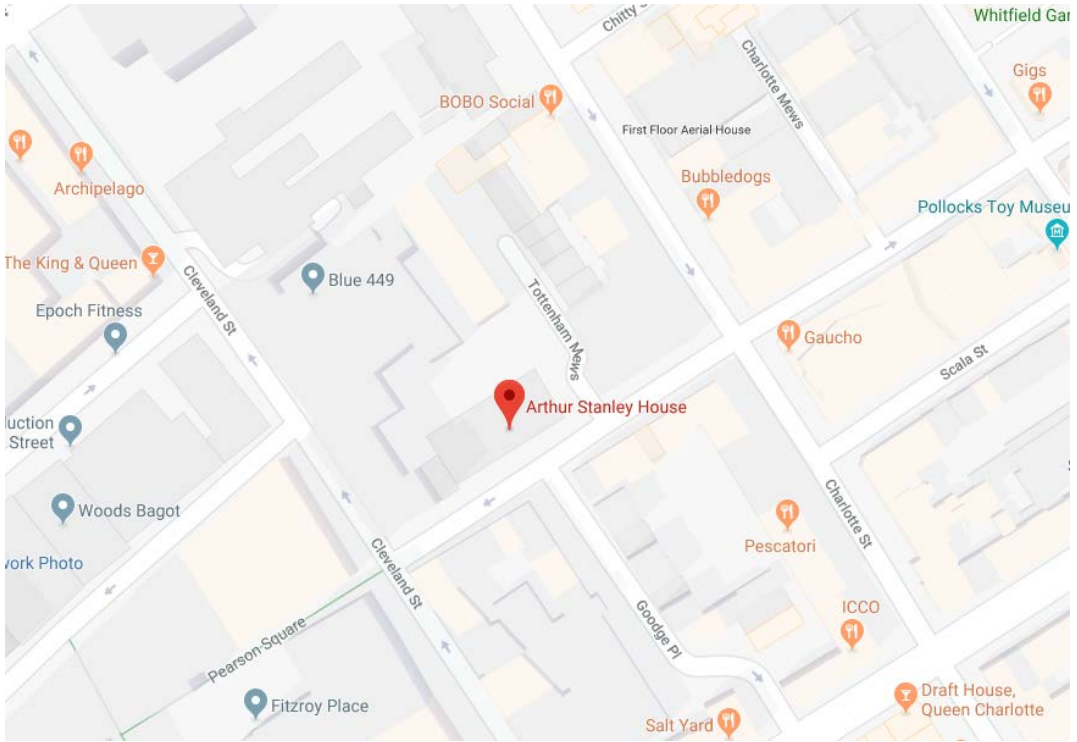
Dust Monitoring

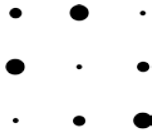
Equipment Used	Osiris Dust Monitor
Instrument Type	Dust Monitor
Calibration Date	07/06/18
Ref No.	TNO4065 – Location 1
Instrument Type	Dust Monitor (with anemometer)
Calibration Date	07/06/18
Ref No.	TNO4066 – Location 2
Monitoring Times	Continuous monitoring
Activity	Baseline dust monitoring readings



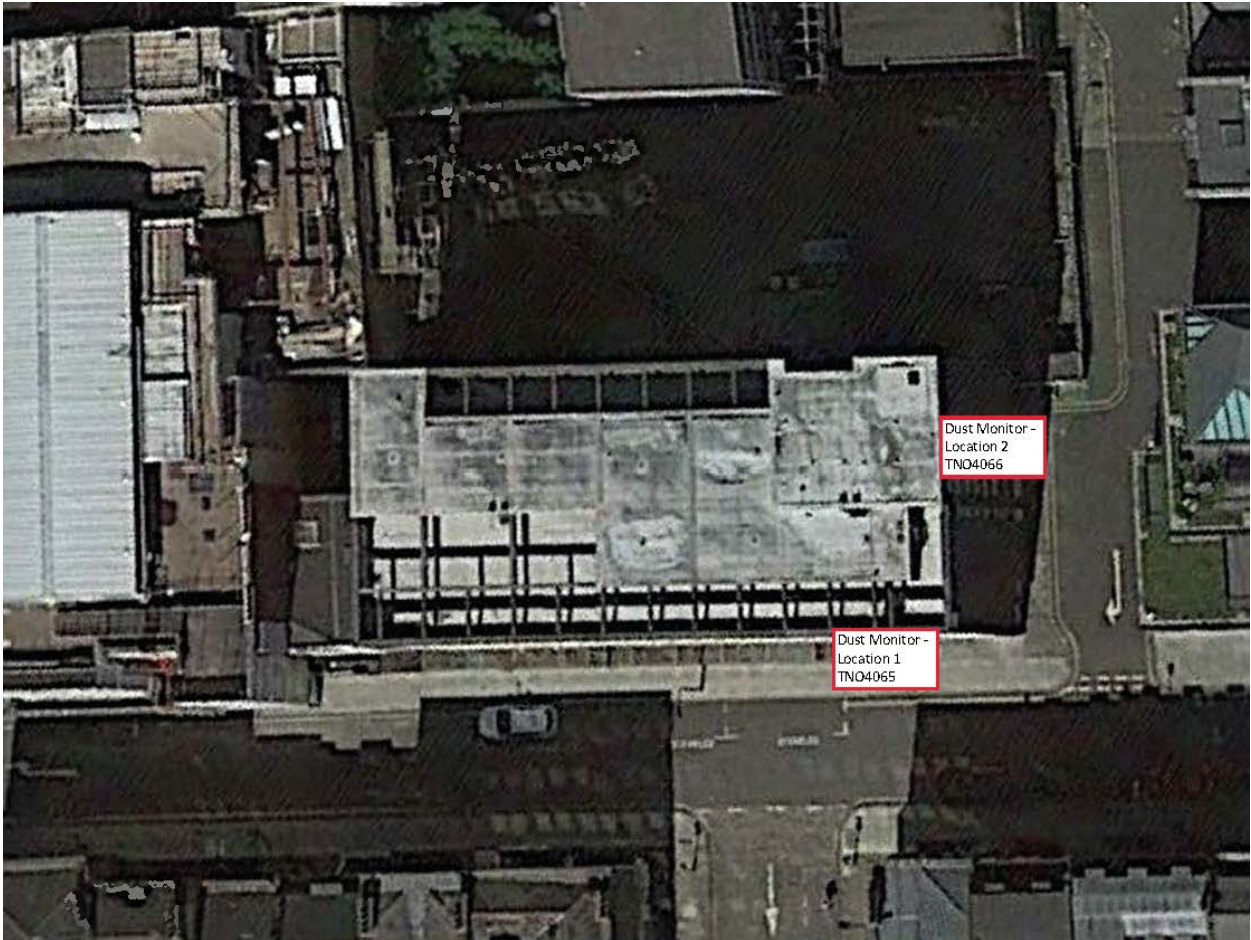
3. Dust Monitor Locations

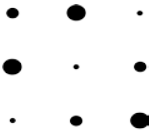
Site Location and Plan





Monitor Locations





4. Measurements

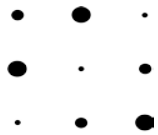
The Osiris monitors continuously measure levels of particulate matter PM₁₀ and have been configured to monitor 15 minute measurement duration intervals. The monitors have also been set up to trigger an alert in the event that 15 minute concentrations exceed 250µg/m³. This level originates from the GLA guidance on The Control of Dust and Emissions During Construction and Demolition – Supplementary Planning Guidance. A trigger alert of 200 µg/m³ has also been set up in order that this level can be investigated and mitigated before reaching the GLA exceedance.

The Osiris monitors have been set up with software that will enable “real time” reporting via a GSM modem which reports to an online data processing software package.

The software for the Osiris monitors has been set up to notify designated individuals of any measured exceedances of the site trigger levels via email. No exceedances occurred during the 3 month baseline readings, but procedures were in place that should an exceedance event have occurred, a designated individual within the company would investigate the incident and log any information and ensuing actions which would be included in the report.

Maximum/Exceeded Levels

Date	Time	Vicinity	Vicinity	Activity
No exceedances recorded				



5. Results

Location 1

The greatest average reading was 13.61 $\mu\text{g}/\text{m}^3$ on 30th August

The greatest maximum reading was 38.27 $\mu\text{g}/\text{m}^3$ on 30th August

Location 2

The greatest average reading was 14.15 $\mu\text{g}/\text{m}^3$ on 30th August

The greatest maximum reading was 55.77 $\mu\text{g}/\text{m}^3$ on 22nd August

