

St Michaels Primary School Reading



CONTROL OF NOISE & DUST

To protect the occupants of nearby residential properties during the development of the site

Address and Location of Works

St Michaels School

Dee Rd, Reading, Berkshire RG30 4AS

Scope of Works

This project comprises of refurbishment of a part-two storey school building, split into 5 phases, to include the following;

- Repairing roofing in places and waterproofing with compatible liquid DPM
- Removal of existing single glazed windows & screens and replace with double glazed
- M&E installations - and making good associated with this
- Replace external doors where required to match new windows/screens
- Installation of timber cladding in places.
- Installation of stud walls
- Redecoration to specification – to include different types of wall finish
- Floor finishes as per design

Working Hours

It is anticipated that all of the site construction activities will be carried out during the core Working Hours only, as defined below:

08:00 – 18:00 hours (Monday – Friday)

08:00 – 13:00 hours (Saturday)

No Work Sundays and Bank Holidays

A start-up and shut down period may be required up to an hour before and after the each period of normal working hours (core hours). The activities to be carried out during these start-up and shut down periods (stated below) are not deemed to be disruptive works with regards to noise.

- Arrival and departure of workforce and staff to site.

- Deliveries vehicles arriving, with minimal loading and unloading prior to the Core Working Hours.

Note: Any waiting vehicles will be instructed to turn their engines off to ensure excessive disturbance is not caused.

- Maintenance and checking of plant and machinery.

- General refuelling

- Site inspections and safety checks prior to commencing works.

- Site meetings and inductions

- Site clean up

The start-up and shut down periods will not be considered an extension of the normal working hours, and the activities will be undertaken as close to the normal working hours as practicable.

Programme of Work

Please refer to Appendix 1

Plant Requirements

This information is based on Chapter 6.0 Construction of the Environment Statement.

Plant Description	L _{Aeg} at 10m	Data Source
Enabling Works and Site Preparation		
Tracked/Wheeled 360 Degree Excavators	75dB	BS 5228:2009 Table C.2 Av 14-25
Dumpers	77dB	BS 5228:2009 Table D.3 98
Eight-Wheeler Trucks	79dB	BS 5228:2009 Table C.2 Av 26-28
Piling Rigs (Auger)	77dB	BS 5228:2009 Table C.3 Av 21-26
Delivery Trucks	85dB	BS 5228:2009 Table D.3 112
Infrastructure / Substructure		
Tracked/Wheeled 360 Degree Excavators	75dB	BS 5228:2009 Table C.2 Av 14-25
Dumpers	77dB	BS 5228:2009 Table D.3 98
Mobile Craneage	74dB	BS 5228:2009 Table C.4 Av 38-49
Eight-Wheeler Trucks	79dB	BS 5228:2009 Table C.2 Av 26-28
Piling Rigs (Auger)	77dB	BS 5228:2009 Table C.3 Av 21-26
Delivery Trucks	85dB	BS 5228:2009 Table D.3 112
Skips and Skip Trucks	78dB	BS 5228:2009 Table C.8 21
Fork Lift Trucks/ Telehandlers	76dB	BS 5228:2009 Table C.4 Av 59-60
Superstructure / Fit-Out		
Mobile Craneage	74dB	BS 5228:2009 Table C.4 Av 38-49
Eight-Wheeler Trucks	79dB	BS 5228:2009 Table C.2 Av 26-28
Delivery Trucks	85dB	BS 5228:2009 Table D.3 112
Skips and Skip Trucks	78dB	BS 5228:2009 Table C.8 21
Fork Lift Trucks/ Telehandlers	76dB	BS 5228:2009 Table C.4 Av 59-60
Landscaping and Enhancement Works		
Tracked/Wheeled 360 Degree Excavators	75dB	BS 5228:2009 Table C.2 Av 14-25
Dumpers	77dB	BS 5228:2009 Table D.3 98
Delivery Trucks	85dB	BS 5228:2009 Table D.3 112
Skips and Skip Trucks	78dB	BS 5228:2009 Table C.8 21
Fork Lift Trucks/ Telehandlers	76dB	BS 5228:2009 Table C.4 Av 59-60

Noise & Dust Monitoring

Beard will undertake to monitor noise levels during the construction phase, in order to prevent any potential nuisance which may arise. In order to minimise and effectively respond to situations which may cause nuisance, we propose to carry out real time measurements as necessary, which will result in us being able to take the appropriate action if so required.

We propose to record the results from regular noise monitoring, which will be kept on site. Monitoring will be carried out to assess the activity with the highest potential noise impact. All equipment will be fully calibrated, and in good working order at all times, and comply with current legislation.

Monitoring will always be carried out by a member of Beard, with logs being maintained throughout the construction period. We will undertake monitoring of noise at specific locations around the site boundary.

Should at any time the result of noise monitoring result in exceeded noise level limits, a member of Beard will ensure measures are immediately put in place to reduce the noise levels so far as reasonably practical. Notification will be made to the local authority as soon as possible.

We feel it will not be necessary to carry out dust monitoring during periods of significant precipitation. All such periods will be recorded on site.

Proposed Monitoring Points

Station 1 - North Boundary

Station 2 – South Boundary

Station 3 – East Boundary

Station 4 – West Boundary

Predicted Noise Levels

It is predicted that the construction levels will not exceed 87dB, this is worst effective noise levels to be reached occasionally at the receptors. These noise levels are calculated using the calculation methodology in British Standard 5228: Part 1: 2009.

Steps to Reduce Noise and Vibration

Works will be carried out in accordance with The Control of Noise at Work Regulations 2005, however should at any time the result of monitoring result in exceeded noise level limits, site will ensure measures are put in place to reduce noise levels so far as is practicable. Notification will also be made to the local authority as soon as possible.

The following control measures will be put in place to assist with preventing the exceeding noise level limits.

- The choice of construction methods will be closely looked at and will depend on the type of geology of the site and minimal disturbance to sensitive receptors.
- Plant and equipment will be regularly serviced and maintained to high standards.
- All plant will be used in an efficient manner by trained personnel.
- Silencers will be fitted to plant where possible.
- Stationery plant will be sited with consideration to the local environment.
- All plant and equipment not in use will always be switched off.
- A 2.4m high fence will be in place to all aspects of the site boundary
- Site management will manage & control all activities and personnel on site.
- All personnel are inducted prior to starting work on site, and will be aware of all noise restrictions and requirements.

- Beard does not permit any radios to be used on site and always endeavour to operate with best practical means at all times.

Dust Mitigation & Control Measures

We understand the action trigger levels for total inhalable particle are as follows:

- A. Threshold Concentration is $0.1\text{mg}/\text{m}^3$
 - B. Action Concentration(1) is $0.2\text{mg}/\text{m}^3$
 - C. Action Concentration(2) is $0.5\text{mg}/\text{m}^3$
- Effective barriers around dusty activities and site boundary will be introduced.
 - No bonfires on site.
 - All vehicles will switch off engines, no idling.
 - All vehicles will be washed down before leaving site if required.
 - All loads entering and leaving site will be covered.
 - Site will not run off water or mud on to the public highway.
 - Water will be used as a dust suppressant on site.
 - Cutting equipment will use water as a dust suppressant.
 - Dust extraction units will be fitted to work equipment where possible.
 - Rubbish skips will be covered.
 - Dust generating activities will be minimised.
 - Hard surfaces and haul routes will be regularly cleaned and maintained.
 - Mechanical sweepers will be employed as required.
 - All personnel will be inducted and / or trained as required.
 - Visual monitoring will be carried out on an ongoing basis.
 - We will always endeavour to operate with best practical means at all times.

Local Resident Liason

Beard will issue local residents with regular newsletter's which will advise of forthcoming activities. It is our intention to continue this policy throughout the construction period. We will also supplement this activity with letter drops to advise of any unusual activities as they may occur and a contact number for any enquiries.

Complaints Procedures

Beard will clearly display contact details in prominent locations, to the front site boundary. We will also include our site staff, and our contract managers contact details in the regular residents newsletters issued.

Beard will keep accurate records of any complaints received, and we keep the local authority informed of any complaints received and how we have addressed them.

Appendix 1 – Construction Contract Programme

Appendix 2 – Site Elevations & Plan



