Noise Management Plan

Camden Goods Yard, Chalk Farm Road, London, NW1 8AA

Objective

This management plan defines the measures to control and limit noise emissions, and vibration levels if required, at residential properties and other sensitive receptors near the Project. The Contractor will discuss, and agree, with the Local Authority to seek their formal consent, in accordance with Section 61 of Control of Pollution Act 1974 for their proposed methods of work and to the steps to be taken in order to minimise noise.

Notwithstanding this, the Contractor will discuss in detail and agree the proposed noise and vibration control measures with the Local Authority (Camden Borough Council).

General Requirements – Noise

Best Practicable Means (BPM) of noise control will be applied during construction works to minimise noise (including vibration) at neighbouring residential properties and other sensitive receptors arising from demolition activities.

The general principles of noise management are given below:

Control at source:

● Equipment – noise emissions limits for equipment brought to site.

● Equipment – method of directly controlling noise e.g. by retrofitting controls to plant and machinery.

● Equipment - indirect method of controlling noise e.g. acoustic screens where practicable to do so around construction activities such as materials processing.

● Equipment - indirect method of controlling noise e.g. benefits and practicality of using alternative construction methodology to achieve the objective e.g. hydro-demolition as opposed to more conventional but noisier techniques; selection of quieter tools/machines; application of quieter processes.

Control across site by:

● Administrative and legislative control,

● Control of working hours,

- Control of delivery areas and times,
- Careful choice of compound location,
- Physically screening site where practicable to do so,
- Control of noise via Contract specification of limits,
- Noise Monitoring, to check compliance with noise level limits, cessation of works until alternative method is found.
- Many of the activities which generate noise to be mitigated to some degree by careful operation of machinery and use of tools, as well as the education of all operatives and supervisors. This will be addressed by use of tool box talks and site inductions.

Control measures

Without prejudice to the other requirements of this section, the Contractor shall employ Best Practicable Means (BPM), as defined in Section 72 of the Control of Pollution Act 1974, to reduce noise (including vibration) to a minimum, with reference to the general principles contained in British Standard BS5228: 2009 and in particular with the following requirements:

- Vehicles and mechanical plant will be maintained in a good and effective working order in line with manufacturer's recommendations and operated in a manner to minimise noise emissions. The contractor will ensure that all plant complies with the relevant statutory requirements;
- HGV and site vehicles will be equipped with broadband, non-tonal reversing alarms;
- Compressor, generator and engine compartment doors will be kept closed and plant turned off when not in use;
- All pneumatic tools will be fitted with silencers/mufflers;
- Care would be taken when unloading vehicles to avoid un-necessary noise;
- The use of particularly noisy plant will be limited, i.e. avoiding use of particularly noisy plant early in the morning;

- Plant maintenance operations will be undertaken at distance from noise-sensitive receptors where practicable;
- Reduce the speed of vehicle movements on site;
- Ensure that operations are designed to be undertaken with any directional noise emissions pointing away from noise-sensitive receptors where practicable to do so;
- Ensure that the quietest plant available is considered – all demolition to be used will be 3 years old or less;
- Drop heights will be minimised when loading vehicles with solid materials;

- Vehicles will be prohibited from waiting within the site with their engines running or alternatively, located in waiting areas away from sensitive receptors;
- Local hoarding, screens or barriers around demolition activity will be erected to shield particularly noisy activities such as material processing using a concrete crusher and where possible using material pile or compounds for screening;
- Advance notice to residents ahead of unavoidable out of hours working (if out of hours working required).

Site Specific Noise Control Measures

- Potential to retain demolition of Morrisons south east flank store wall facing Gilbeys Yard towards the end of structural demolition, to use as an effective acoustic barrier to GY.
- Any materials processed on site for reuse will be located as far away from residential properties as possible and screened with acoustic barrier (heras fencing with acoustic curtains). See diagrams in appendices showing location of materials handling operations.

Construction Traffic

The Contractor will incorporate the following measures into the scheme to avoid noise related impacts from construction traffic:

- Vehicles will not wait or queue up with engines running on the site or the public highway; Tottenham Rise
- Vehicles will be properly maintained to comply with noise emissions standards;
- Deliveries will be restricted to be within working hours of the site; and
- Design and routing of access routes will minimise vehicle noise and the need to perform reversing manoeuvres.
- One-way traffic routes will be set up to minimise reversing where possible

Summary

This report details the noise management plan to be implemented by Shorts Group prior to and during the demolition of the Morrisons store at Camden Goods Yard.

The locations of noise sensitive receptors have been identified where there is the potential for disturbance from either noise during Demolition/construction. These are highlighted in the Section 61 form as being Gilbeys Yard and Juniper Crescent.

The principles of noise management are outlined for which the Contractor shall employ Best Practicable Means (BPM), as defined in Section 72 of the Control of Pollution Act 1974, to reduce noise (including vibration) to a minimum, with reference to the general principles contained in British Standard BS5228: 2009. Best Practicable Means (BPM) will minimise noise (including vibration) from construction works to neighbouring residential properties and other sensitive receptors arising from construction activities.

Specific mitigation measures will be implemented by the contractor during those construction activities identified as having the highest potential to cause disturbance from either noise and or vibration.

Noise monitoring locations are shown in Appendix B. These locations have been discussed and agreed with LBC as part of the CMP review and approval process.

Demolition - Construction Plant Noise Levels

Activity	Plant	Sound Power Level dB LwA	No. of plant	Overall Sound Power Level dB LwA	On-time (% of hour)	Sound Power Level Reference
Site clearance	Chainsaw	114	1	114	40	BS 5228 Table D.2:14
	Strimmer	110	1	110	70	Hire Company Data
	Tractor and flail attachment	108	1	108	60	BS 5228 Table C.4:74
	Vans	98	1	98	10	BS 5228 Table D.7:121
	Tipper lorries	108	4	114	20	BS 5228 Table C.6:21
	Chipper	110	1	110	70	Measured
Demolition	Excavator 350	105	2	108	60	BS 5228 Table C.2:14
	Crusher	115	1	114	70	Measured
	Excavator - 45 tonne	107	1	107	60	BS 5228 Table C.2:14
	Breaker mounted on excavator	118	1	118	10	BS 5228 Table C.1:9
Earthworks	Excavator 28 ton	108	2	111	60	BS 5228 Table C.6:8
	Excavator 7 tonne	96	2	99	70	BS 5228 Table C.2:8
	Tipper Lorries	108	4	114	30	BS 5228 Table C.6:21
	Low loader	108	1	108	10	BS 5228 Table C.6:21

Appendices

A. Site Works Layout Plan

B. Noise Monitoring locations

Appendix A

Site Works Layout Plan

Apendix B

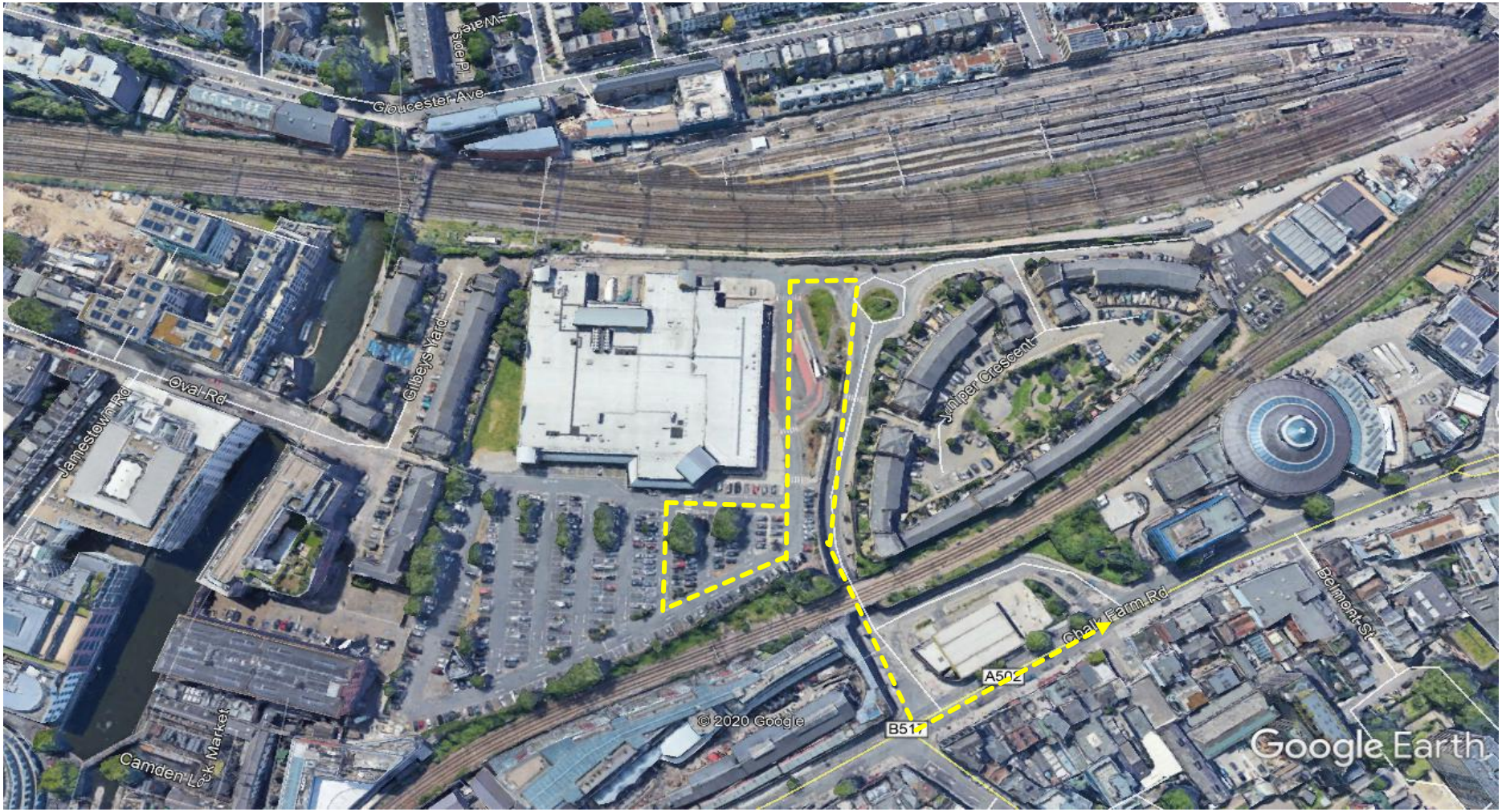
Noise Monitoring Locations (as per submitted Construction Managmenet Plan)

B2

Table 1: Schedule of Noise Monitoring Levels

Schedule		Total Noise level at Measurement Locations	
Period	Hours	Ambient Noise Level, LAeq at Measurement Locations: dB	Period of Hours Over Which LAeq is Applicable
Mondays to Friday	0700 – 0800	62	Any 1 hour
	0800 – 1800	72	Any 1 hour
	1800 – 2100	62	Any 1 hour
Saturdays	0700 – 0800	62	Any 1 hour
	0800 – 1300	72	Any 1 hour
	1300 – 2100	62	Any 1 hour
Sundays	0700 – 0900	47	Any 1 hour
	0900 – 1700	62	Any 1 hour
	1700 – 2100	47	Any 1 hour
Nights	2100 – 0700	55	Any 1 hour
All unattended plant		55	Any 1 hour

Traffic Route




Flank wall to be retained for the duration of the demolition
Oval Rd
Gilbey's Yard
Jasper Crescent
Chalk Farm Rd
Belmont St
A502
B517
Camden Lock Market
© 2020 Google
Google Earth

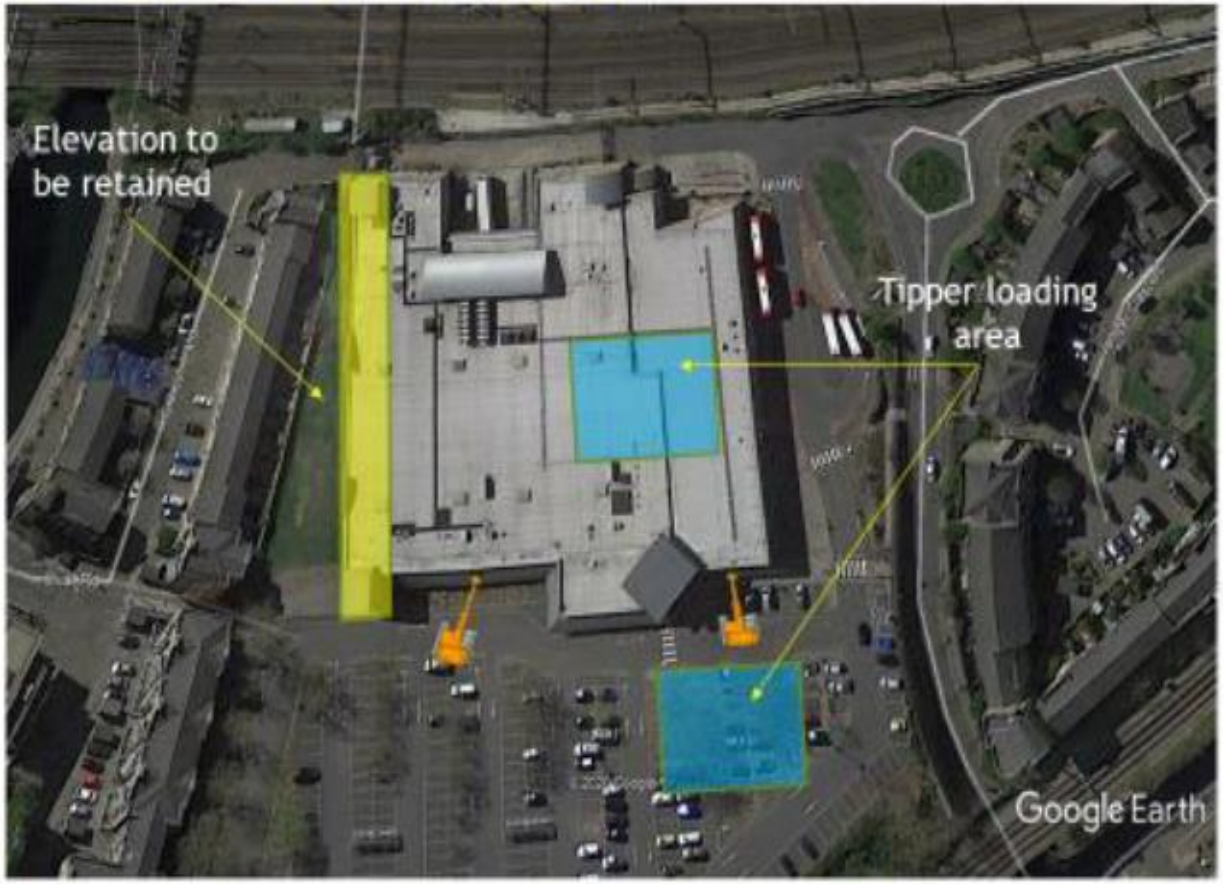
Structural Demolition

Traditional demolition will be used to dismantle the structure. 360 excavators fitted with rotational sheers and grabs will demolish, process and load out the waste in 40yrd bins and bulker trailers

The concrete slab and foundations will be removed as per the picture and the material stockpiled ready for crushing.

Crusher location

Structural Demolition



Traditional demolition will be used to dismantle the structure. 360 excavators fitted with rotational sheers and grabs will demolish, process and load out the waste in 40yrd bins and bulker trailers

Tipper loading area is shown on the attached this will progress into the Morrison's as the demolition progresses forward

The tarmac hardstanding's will be carefully lifted and loaded out working in the direction highlighted and toward the entrance to the site