Former ICTS Site, Solent Road, Havant, PO9 1JH

Dust Assessment and Mitigation Measures

This dust assessment has been undertaken to look at the likelihood of "nuisance" dust arising from construction activities undertaken on site and what measures should be put in place to mitigate that nuisance to present it arising.

Site Location:-

The site is located on the south side of Solent Road and is bounded to the south by a car wash, to the east by Petrol Station and to the west by residential cottages and Cosham Plant. To the north there is the second phase of the Solent Retail Park.

Should dust nuisance arise this is likely to be in the form of windblown particles that may travel as far as the residential areas although the existing Leylandii hedgerow, to be retained, will minimise this possibility. Given the prevailing wind direction it is anticipated the main direction for windblown particles will be towards the Petrol Station.

Causes of Dust Nuisance on Construction Sites:-

Dust nuisance from construction sites is normally in the form of windblown particles that are either the result of surface dust settlement on the site being lifted by the wind and blown around off site or dust generated from a specific type of operation such as using a stone cutting angle grinder.

Windblown surface dust is generally caused from the mud and debris from excavation activities being allowed to dry out on the site which then breaks down into small enough particles to be blown around and off the site. This is generally the most common form of dust nuisance and there are relatively simple mitigation measures that can be put in place to reduce the nuisance.

Operation specific dust nuisance is generally less of a nuisance as the area of dust generation is much more localised and again without much effort can be minimised so that it is either kept on site or not generated at all.

Mitigation Measures:-

During demolition the following measures will be undertaken to mitigate any impact on the immediate locality:-

- A water hosing system will be put in place on site to dampen down potential dusty areas;
- The on-site plant will be calibrated to meet the relevant regulations for working on sites within urban areas. The site contractor will also be instructed to work in a considerate manner and to ensure any impacts are minimised;
- The site contractor will keep the site free of all litter whilst work is being undertaken, and;

- A full health and safety plan will be prepared and put in place during demolition stage works of the project.
- Following demolition the site will be cleared and left clean and tidy.

During the initial stages of construction it is our intention to install the new vehicle access roads and hard standings up to base course at an early stage so that the site traffic when building the units has a clean and proper surface to run on.

During the construction of the access road and hard standings there will be an element of vehicles tracking over virgin ground until the road formation is installed. If a dry period is experienced during this work then damping down procedures will be put in place to keep the dust down, similarly if a wet spell is encountered we will employ wheel washing facilities to stop mud and dust being spread out onto the roads adjacent to the site.

Once the hard standings are constructed all site traffic then has a good hard surface to run on and it is this that will then have the bulk of surface dust settle on it which could become a nuisance either from wind picking up the particles or by traffic movements themselves. Whichever it is the road will be cleaned and swept on a regular basis to stop the build-up of dust becoming a problem.

When constructing the unit there will be a period from when the site is stripped to having the area of the building capped with stone while the foundations and internal services are installed. Again if a dry spell is encountered during this operation and surface dust is likely to become a problem we will either undertake damping down measures or install the stone capping layer at an earlier stage and excavate through it. The same principal applies to construction of the external parking areas.

With regard to operation specific dust nuisance this will be controlled by setting up specific screened areas where cutting operations likely to cause a dust nuisance are anticipated or the use of equipment with integral dust extraction will be used.

JB