



**a) Risk assessment of potentially damaging construction activities**

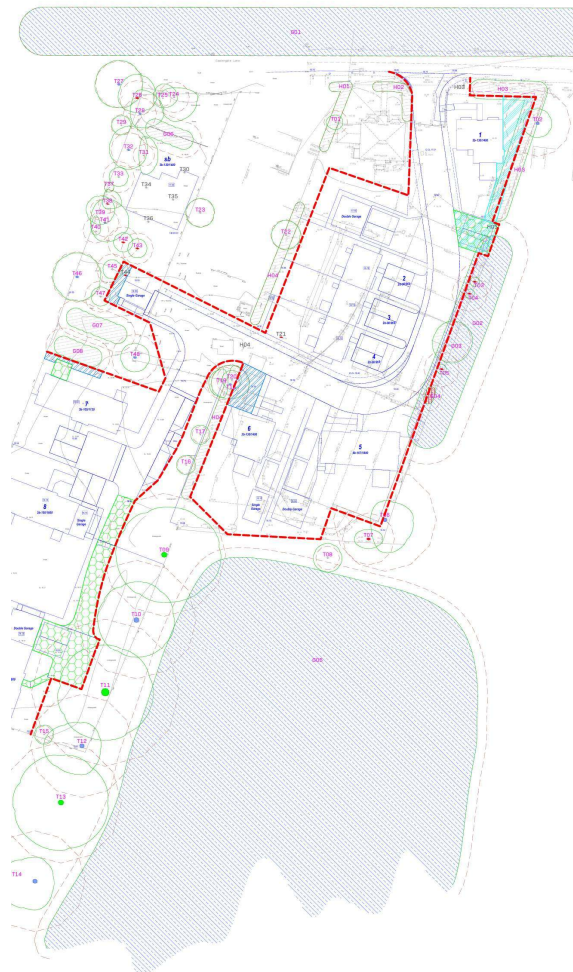
The site has been assessed in terms of ecological interest and there are currently a number of bat roosts on site that will require a EPSL Licence and Ecologist Supervision when the existing buildings are demolished.

It should be noted that the site lies within the SAC Singleton and Cocking Tunnels and appropriate enhancement is noted within this Report.

The proposed construction zone is located within the wider conservation zone of Singleton and Cocking Tunnels SAC. A series of avoidance measures have been proposed/adopted which ensure that the development has no adverse effect upon the conservation features.

As the area affected by the scheme consist of land of low ecological value as existing storage buildings and will be removed under a and the ground surface bare prior to construction activities thus there will be no risk of disturbance to ground nesting birds or other wildlife.

**b) Identification of 'biodiversity protection zones'**



**c) Practical measures (both physical measures and sensitive working practices) to avoid or reduce impacts during construction**

The following should also be utilised during construction works:

1. The placement of gully protection
2. Scrapping of roads to remove silt
3. Speed ramps to slow traffic down
4. The placement of topsoil and planting at the earliest opportunity to control run off
5. Avoid washing out next to soakaway/gullies
6. General good housekeeping
7. No light pollution during out of hours

**d) The location and timing of sensitive works to avoid harm to biodiversity features**

The agreed day time working hours regime (8.00am – 5.00pm Monday to Friday) will ensure there is no need for artificial lighting therefore there will be no significant disturbance. There will be no need for any loss or disturbance to habitats or potentially supporting nesting birds.

**e) The times during construction when specialist ecologists need to be present on site to oversee works**

Demolition/Soft Strip

**f) Responsible persons and lines of communication**

Our Ecologist Consultant will be nominated as ecological clerk of works. This role will ensure compliance with the CEMP and in order to ensure that there is no deterioration in the health and condition of surrounding trees/hedges.

**g) The role and responsibilities on site of an ecological clerks of works**

The role of the ECoW will be to control the following:

- The CEMP
- Environmental Plan
- Construction Method Statements
- Permits to work/dig
- Toolbox Talks
- Attendance/Input in Site Meetings

**h) The use protective fences, exclusion barriers and warning signs**

As the above plan all trees/hedges will be protected by suitable a BS compliant (BS 5837:2012) tree protection barrier during construction period.

The western boundary hedge is to be retained and protected at all times.

Appropriate 'No Access: Biodiversity Protection Zone' warning signage will be installed on the barrier fencing.

**i) Containment, control and removal of Invasive non native species present on site**

None

**j) Other measures to be taken into account whilst construction is taking place**

Though there is negligible/low potential for protected species such as bats and slow worms on site toolbox talks will still be presented to our workforce discussing all protected species including dormice etc. Should any protected species be seen on site the process will be that ECoW is immediately informed and all works on site are stopped and our Ecologist or Governing Body is informed and invited down to site.

During Construction we will install 2no bat boxes to the southern aspect of surrounding mature trees and create log piles within the biodiversity exclusion zones.

The Biodiversity Exclusion Zone will offer potential foraging areas for dormice.

**k) Construction Environment Management in relation to :**

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| <b>Air Quality</b>                                                                                                                                                                                                                                                                                 |
| <b>Pre-works</b>                                                                                                                                                                                                                                                                                   |
| All construction facilities erected on site must be designed and operated to minimise the emission of smoke, dust, cement dust and other substances into the atmosphere.                                                                                                                           |
| <b>Works phase</b>                                                                                                                                                                                                                                                                                 |
| Vehicular access will be kept to sealed roads wherever possible or to designated site access points                                                                                                                                                                                                |
| A 5mph speed limit shall be imposed on all vehicles within the construction site, including haul roads.                                                                                                                                                                                            |
| A water hose for spraying to reduce dust generation from exposed surfaces will be available at all times during the contract.                                                                                                                                                                      |
| Water shall be available at all times for spraying all exposed areas to reduce dust generation.                                                                                                                                                                                                    |
| The area to be disturbed for excavations will be minimised                                                                                                                                                                                                                                         |
| Stockpiles, access roads and work areas will be watered down or covered                                                                                                                                                                                                                            |
| Excess spoil will be placed in skip bins or covered stockpiles, reused on-site or disposed off-site.                                                                                                                                                                                               |
| Materials transported in open trucks will be covered to prevent generation of dust.                                                                                                                                                                                                                |
| The tailgates of all vehicles transporting material from the construction site will be securely fixed prior to loading and immediately after unloading.                                                                                                                                            |
| Complete landscaping and revegetation as soon as possible following building activities                                                                                                                                                                                                            |
| Ensure that no disturbance of the nature strip occurs between the site and the roadway                                                                                                                                                                                                             |
| Machinery will be well maintained with no noxious emissions and not left idling when not in use.                                                                                                                                                                                                   |
| Exhaust systems and engines for plant/equipment will be maintained according to the manufacturers' specifications and regularly monitored to ensure that exhaust emissions are satisfactory (smoke for no longer than 10 seconds). Periodic visual checks will be made on exhaust system emissions |
| The burning of timber and other combustible materials is not permitted on site at any time.                                                                                                                                                                                                        |

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| If winds are high and the works are creating high levels of dust that are likely to cause discomfort to local residents or a safety hazard to traffic or work personnel, the works shall be modified or stopped until the dust hazard is eliminated or is reduced to an acceptable level. |
| <b>Post-works phase</b>                                                                                                                                                                                                                                                                   |
| All exposed soil areas shall be stabilised and revegetated as soon as possible on completion of works to prevent the generation of dust.                                                                                                                                                  |

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| <b>Fuels and Chemicals</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Works phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A hazardous substance register is kept on site (Form F04)                                                                                                                                                                                                                                                                                                                                                                                                |
| Where fuel, oil or other chemicals are to be stored on site, a secure, lockable and floored area will be provided before any of these substances are accepted on site. This area will be imperviously bunded with a capacity to contain not less than 110% of the volume of the largest container. This bunded area is monitored weekly and drained when required, to ensure that bund capacity is maintained, by pumping out to an oil–water separator. |
| Relevant Material Safety Data Sheets (MSDSs) are available on-site for all chemicals used or stored on site.                                                                                                                                                                                                                                                                                                                                             |
| All chemicals are stored in accordance with the manufacturer’s instructions and the MSDS                                                                                                                                                                                                                                                                                                                                                                 |
| In the event of spillage of hydrocarbon products such as fuels and/or chemicals, on-site spill containment equipment/kits will be used to contain spills and cleaned in accordance with the MSDS requirements.                                                                                                                                                                                                                                           |
| Fuel, oil and chemicals will be used in a bunded area.                                                                                                                                                                                                                                                                                                                                                                                                   |
| A 50-litre container of spill absorbent will be retained within the site working area to be used for emergency spills of fuel, oil or other chemicals.                                                                                                                                                                                                                                                                                                   |
| Ensure that any spills or accidents on site that are likely to cause pollution are managed as per this plan                                                                                                                                                                                                                                                                                                                                              |
| If stormwater discharges from bunded fuel or hazardous storage areas are required, records are kept of water quality checks, discharges and remedial actions.                                                                                                                                                                                                                                                                                            |
| If drums of chemicals and fuels must be used outside a bunded area, a spill kit will be readily available nearby, the drums will not be left unattended, and they will be returned to the bunded area for storage overnight.                                                                                                                                                                                                                             |
| If an Environmental Incident occurs on site, the Incident Report form F09 will be completed and forwarded to the Client.                                                                                                                                                                                                                                                                                                                                 |
| If refuelling or maintenance cannot take place at this site, temporary bunding will be provided and adequate spill kits kept readily available.                                                                                                                                                                                                                                                                                                          |
| Refuelling operations will not be left unattended while in progress.                                                                                                                                                                                                                                                                                                                                                                                     |

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| <b>Noise Management</b>                                                                                                                                                                                                                                                                                                                             |
| <b>Pre-works phase</b>                                                                                                                                                                                                                                                                                                                              |
| The site compound will be located the furthest distance from adjacent residences as practicably possible.                                                                                                                                                                                                                                           |
| <b>Works phase</b>                                                                                                                                                                                                                                                                                                                                  |
| Construction noise is to be confined to 8am to 6 pm Monday to Friday and 9am to 1pm on Saturdays. No work will be undertaken on Sundays or Public Holidays.                                                                                                                                                                                         |
| Noise mitigation measures if required will be implemented during construction to ameliorate the effects of construction noise. Noise generated from construction, maintenance or demolition of a building or other structure should not exceed (75dba), measured at the site of a nearest sensitive receptor on the East and West side of the site. |
| No blasting will be permitted during construction                                                                                                                                                                                                                                                                                                   |
| All plant and equipment used on this job is operated by appropriately trained staff in accordance with regulations and is regularly maintained and serviced by qualified staff.                                                                                                                                                                     |
| All plant and equipment used on site will comply with EPA Guidelines.                                                                                                                                                                                                                                                                               |
| Equipment not in use will not be left idling.                                                                                                                                                                                                                                                                                                       |
| All stationary and mobile equipment will be fitted with residential type silencers.                                                                                                                                                                                                                                                                 |