

# ***Radwinter Road, Saffron Walden***

CONSTRUCTION MANAGEMENT PLAN

R10920 CMP 01

Date 21.01.26

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***Bellway***

# Control Sheet

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**Project Number** R10920

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# 1 Introduction

- 1.1.1** Brookbanks is appointed by Bellway to prepare a Construction Management Plan (CMP) to discharge Condition 11 of the planning permission in relation to construction of 233 new homes and associated access at Radwinter Road, Saffron Walden(planning Ref: UTT/21/2509/OP).
- 1.1.2** This document provides information in relation to the planning and implementation of construction activities with the purpose to reduce the risk of adverse impacts of construction on sensitive environmental resources and to minimise disturbance to local residents. The objective of this report is to demonstrate that appropriate checking, monitoring and audit processes will be implemented to ensure works are undertaken in an appropriate manner, together with measures to ensure that appropriate corrective actions or mitigation measures are taken.
- 1.1.3** The Principal Contractor will establish working practices and procedures to further augment and support the construction activities.
- 1.1.4** This document should be read in conjunction with the Construction Environmental Management Plan.
- 1.1.5** This report summarises the findings of the study and specifically addresses the following:
- Planning of works
  - Site specific and environmental control measures
  - Control of construction processes
- 1.1.6** For the avoidance of doubt, all construction workers and staff including subcontractors, will be made aware of the working practises included within this document.

## 2 Site History

- 2.1.1** The Site comprises a rectangular piece of land measuring circa 18ha to the east of Saffron Walden. The site is currently in arable agricultural use. A track is located to the north of the existing building and runs from east to west and a drainage ditch runs parallel to the track.
- 2.1.2** The permission sought approval for 233 new homes dwellings including affordable housing, with public open space, landscaping, sustainable drainage system (SuDS) and associated works, with vehicular access point from Radwinter Road.

### 2.2 Planning Background

- 2.2.1** The planning permission included Condition 11, referring to the production of a CMP, which aims to mitigate the environmental effects of construction processes. Condition 11 identifies a list of the necessary details to be provided. The primary requirements are indicated below.
  - (a) The construction programme and phasing
  - (b) Risk assessment of potentially damaging construction activities
  - (c) Hours of operation and delivery
  - (d) Delivery and storage of materials on the site
  - (e) Details of any highway works necessary to enable construction to take place
  - (f) Contractors access arrangements for vehicles, plant and personnel including the location of construction traffic routes to, from and within the site, details of their signage, monitoring and enforcement measures.
  - (g) Parking and loading arrangements
  - (h) Details of hoarding
  - (i) Management of traffic to reduce congestion
  - (j) Control of dust and dirt, including on the public highway
  - (k) Wheel and underbody washing facilities
  - (l) Responsible persons and lines of communication
  - (m) Details of any members of the Considerate Contractors scheme
  - (n) Details of consultation and complaint management with local businesses and neighbours
  - (o) Waste management proposals
  - (p) Mechanisms to deal with environmental impacts such as noise and vibration, air quality and dust, light and odour.
  - (q) Prohibition of the burning of waste on site during construction
  - (r) Details of any proposed piling operations, including justification for the proposed piling strategy, a vibration impact assessment and proposed control and mitigation measures.
  - (s) Before and after condition survey to identify defects to highway in the vicinity of the access to the site and the arrangements to ensure that, where necessary, repairs are undertaken at the developer expense where damage to the highway has been caused by the construction of the development.
  - (t) Mechanisms to identify and protect strategic pipes and services crossing the site.

## 3 Planning of Works

- 3.1.1** The approved development will be constructed on a phased basis and is subject to reserved matters approval in relation to the development parcels. The Principal Contractor will work closely with the Project Manager and will ensure that the measures set out within the CMP are followed.

### 3.2 Roles & Responsibilities

- 3.2.1** The key roles and responsibilities are highlighted below:

- **Project Manager:** Appointed by Bellway to ensure the work takes place within the parameters as set out in the CMP (Brookbanks - mail@brookbanks.com 0121 329 4330)
- **Client's Environmental Manager:** Appointed by Bellway and reports to the Project Manager. The key responsibilities include identifying the environmental competence of all contractors, reviewing method statements, reviewing construction activities and coordinating with the commissioned Environmental specialists. (Brookbanks Consulting – mail@brookbanks.com)
- **Contract Manager:** Appointed by the Principal Contractor, having the day-to-day responsibility for Health and Safety, Environmental and Quality performance throughout the construction period.
- **Contractor's Environmental Manager:** Appointed by the Principal Contractor and reports to the Contract Manager with the key responsibility to coordinate and manage all the environmental activities during the construction phase.

### 3.3 The Register of Environmental Impacts

- 3.3.1** The principal Environmental Impacts have been identified and will be developed into a formal register of Environmental Impacts through the design and implementation process. This register will comprise the various risks identified in the application together with any subsequent risks resulting from design development, the selected methods of working, changing site conditions etc. Risks will be identified, assessed and mitigated under the following general headings:

- External Traffic Routing
- Internal Vehicle Routes
- the Construction Operation and Delivery Times
- Construction Lighting
- Dust Suppression and Mud Control
- Noise Controls
- Site Compound Location
- Car Parking Arrangements
- Construction Vehicle Movements
- Landscape Character, Visual Amenity & Ecology
- Archaeology
- Geology, Soils & Water

- Waste

### 3.4 Risk Assessments

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**3.4.1** All activities undertaken on site will be subject to a risk assessment. Risk assessments will be undertaken by trained staff following an approved procedure which will:

- Identify the significant environmental and Health & Safety impacts that can be anticipated
- Assess the risks from these impacts
- Identify the control measures to be taken and re-calculate the risk
- Report where an inappropriate level of residual risk is identified so that action can be taken through design changes, re-scheduling of work or alternative methods of working in order to reduce the risk to an acceptable level
- The results of risk assessments, and their residual risks are only considered acceptable if; the severity of outcome is reduced to the lowest practical level; the number of risk exposures are minimised; all reasonably practical mitigating measures have been taken, and the residual risk rating is reduced to a minimum
- The findings of the risk assessment and in particular the necessary controls will be explained to all operatives before the commencement of the relevant tasks using an agreed instruction format

### 3.5 Method Statements

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**3.5.1** Implementation method statements will be completed by the Principal Contractor and/or Sub-Contractor by trained engineers or other appropriate experienced personnel, in consultation with specialists. Their production will include a review of the environmental / Health & Safety risks and commitments, so that appropriate control measures are developed and included within the construction process.

**3.5.2** Method statements will be reviewed by the Principal Contractor / Clients Environmental Managers and, where necessary, by an appropriate environmental specialist. Where appropriate, method statements will be submitted to the regulatory authorities as required. Method statements will contain as a minimum:

- Location of the activity and access/egress arrangements
- Work to be undertaken and methods of construction
- Plant and materials to be used
- Labour and supervision requirements
- Health, safety and environmental considerations
- Permit or consent requirements

## 4 Construction Processes

- 4.1.1** The construction works will involve several construction disciplines as described within this Chapter. These principles apply equally to all construction activities.

### 4.2 Initial Site Setup

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- 4.2.1** The initial Site setup will establish the Site compound required to support the construction works, including temporary Site offices and welfare facilities. Additionally, parking provision, temporary water, power and telecoms supply will be set up as required.
- 4.2.2** A fuel storage area is to be set up, located within the Site compound, which will be double banded to prevent contamination during refuelling and filling operations. A permanent perimeter fence will be installed where this is required for safety and security reasons.
- 4.2.3** The Principal Contractor will identify the location of compounds and associated parking/delivery areas. The location will be selected to minimise the impact on sensitive receptors including occupiers of the development.

### 4.3 Earthworks

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- 4.3.1** The bulk earthworks will require the transportation of material across the Site and will require the use of excavators and earth moving equipment. Careful design of the earthwork's operations will ensure the movement of material across the Site is minimised.
- 4.3.2** The earthworks strategy for the Site provides a risk assessment and method statement covering all aspects of their work that have the potential to mobilise soil/sediments or block open watercourses, including the stripping of topsoil for reuse, the raising of land levels and details for temporary soil storage.
- 4.3.3** All works will be carried out in full compliance with the Department for Environment, Food and Rural Affairs (DEFRA) guidance outlined in the Construction Code of Practice for the Sustainable Use of Soils on Construction sites (2009). This guidance provides detailed instructions on the proper use, management, and movement of soil onsite to minimise environmental impacts. By adhering to these practices, the project aims to prevent the mobilisation of sediment and safeguard surrounding watercourses from potential pollution, ensuring that soil management is both sustainable and protective of the local environment.

### 4.4 Installation of Drainage and Services

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- 4.4.1** The delivery of the Site will require the construction/provision of foul and storm drainage, electricity and water supplies, potentially some gas services, ductwork for telecommunication links/ fibre optics/ lighting cables. This will require the use of excavators.

## **4.5 Highway Construction**

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- 4.5.1** Through the construction of the road structure, compaction machinery will be required and will involve the importation of pre-prepared road construction materials.

## **4.6 This Buildings Construction**

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- 4.6.1** The construction of the housing will require the import to Site of numerous types of materials including bricks, concrete blocks, wooden roof frames, roof tiles, windows/doors, stairs and materials for the internal fixtures including bathrooms/kitchens, building services and heating systems. Wherever possible, pre-formed and offsite construction activities will be used.

# 5 Site Specific Environmental Control Measures

## 5.1 Introduction

- 5.1.1 Chapter 4 briefly identifies the main construction processes that will be employed to deliver the approved development. As discussed in Chapter 2, this report is submitted to discharge Condition 11 of the outline permission for Radwinter Road, Saffron Walden and provides a site wide CMP
- 5.1.2 Detailed strategies will follow for each of the subject areas identified within Condition 11.

## 5.2 The construction programme and phasing

- 5.2.1 Site will be delivered in a single phase and the Principal Contractor will confirm the construction programme, start date and expected end date with the LPA when available.

## 5.3 Risk assessment of potentially damaging construction activities

- 5.3.1 As identified in Chapter Three risk assessments will be carried out throughout the construction process as and when necessary. The results of the initial risk assessment is presented below.

Hazard / Impact	Perceived Risk of resultant disruption(1 – 5 with 1 being lowest)	Control Measure
Congestion – Access roads not suitable wide enough for construction traffic	3	Consult with the highway authority use traffic marshals close liaison with supply chain and supplies supervision of deliveries vehicles vehicles to enter and exit the site in a forward gear
Safety of the public – interface construction traffic	4	Traffic management plans
Working in occupied environment	3	Use protective fencing if necessary Site inductions for all operatives and visitors supervision to be provided for all deliveries entering the site
Interaction with neighbours	2	Letter drops provide contact information for principal contractor
Moving plant / vehicle movements including deliveries	3	Warning signage to be displayed staff to be trained and competent PPE to be worn all times
Demolition works	3	Method statements to be required any risk of contaminants to be identified dust suppression to be considered noise mitigation plan if necessary

Working at height	2	Risk assessment to be carried out consider alternative means of construction trained personnel to establish access equipment
Excessive construction noise	4	Consider alternative means of working consider times of operation to minimise impact establish a noise mitigation plan
Manual handling	2	Job specific risk assessment carried out consider alternative means of construction provide lifting equipment provide staff training

**Table 5-1 – Preliminary Risk Assessment**

## 5.4 Hours of operation and delivery

**5.4.1** All construction works are only permitted between:

- 0800 hours to 1800 hours Monday to Friday
- 0800 hours to 1300 hours on Saturday
- No works are permitted at any time on Sundays, Bank or Public Holidays, unless agreed in writing by the local planning authority or in accordance with agreed emergency procedures for deviation.

**5.4.2** No deliveries of construction materials or plant and machinery and no removal of any spoil from the site or similar collections from the site shall take place before:

- 0700 hours or after 1900 hours on Mondays to Fridays
- Before 0800 hours or after 1400 hours on Saturdays

**5.4.3** Based on the expected construction processes on site the majority of the works are likely to be completed within the hours identified above. However, should it be necessary to carry out works outside of the agreed hours indicated above, the Contract Manager will contact the LPA 21 days prior to the specific this risk of the works and will confirm as a minimum:

- Extent of works
- Location of works
- Expected duration
- Completion of a risk assessment

**5.4.4** Following a request for construction works to be carried out outside the agreed hours the LPA will confirm approval to the works if required. If appropriate and requested by the LPA, a letter will be sent out by the Principal Contractor to neighbouring residents to inform them of the out of hours works, this will include a description of the proposed works and why they need to be undertaken out of hours, timescales for the works and contact details should there be any queries or complaints.

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## 5.5 The Delivery and storage of materials on site

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- 5.5.1** The loading and unloading of plant, materials and waste will be carried out within the site boundary. Loading and unloading of plant, materials and waste on the public highway will be prohibited. The site manager, or an alternative responsible representative, will be present during any loading or unloading operations. A related area for loading and unloading will be identified.
- 5.5.2** Chemicals and hazardous materials such as fuels and lubricants may be stored on site during the construction phase of the project. These include but are not limited to:
- Fuels
  - Oils
  - Lubricants
  - Paint and Coating
  - Adhesives and resins
  - Solvents
  - Compressed gases
- 5.5.3** A range of non-hazardous materials will also be retained on site, together with a range of non-hazardous materials together with various pieces of construction plant.
- 5.5.4** In relation to hazardous materials, the following list shows measures that will be put in place to prevent pollution and would conform to the best practice policy proposed by the Environment Agency (EA) :
- the handling, use and storage of hazardous materials to be undertaken in line with the EA's guidelines
  - adequately bunded and secure areas with impervious walls and floor for the temporary storage of fuel, oil and chemicals on site during construction;
  - drip trays to collect leaks from diesel pumps or from standing plant;
  - oil interceptor(s) fitted to all temporary discharge points and for discharge from any temporary oil storage/ refuelling areas;
  - development of pollution control procedures in line with the EA's guidelines, and appropriate training for all construction staff;
  - Provision of spill containment equipment such as absorbent material on site.
- 5.5.5** Plant will be stored overnight within the site compound wherever possible.

## 5.6 Details of any highway works necessary to enable construction to take place

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- 5.6.1** To gain access to the site for the construction period it will be necessary to deliver a junction on Radwinter Road. The temporary site access will correspond to the site access junction identified within the outline application. Therefore, the location and general arrangement of the access has already been reviewed by the LPA.

- 5.6.2** Prior to the delivery of the main access arrangement, it may be necessary to utilise a temporary construction access to minimise the disruption and the public highway. Therefore, if necessary, the existing farm access will be used to gain temporary access for construction vehicles and any associated deliveries.

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## **5.7 This Contractors access arrangements for vehicles, plant and personnel including the location of construction traffic routes to, from and within the site, details of their signage, monitoring and enforcement measures.**

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- 5.7.1** The construction routes within the site will be established by the Principal Contractor the detailed will be provided to the LPA when available.
- 5.7.2** To minimise the impact, it is considered important to identify the most appropriate for construction vehicles. Roads towards the west, towards the M11 motorway, are considered most appropriate. Therefore, construction traffic will be directed to the west of the site with all other routes prohibited.
- 5.7.3** Appropriate signage will be provided at the site entrance to ensure construction traffic follow the prescribed route. All deliveries to the site will be informed of the appropriate route and all site inductions will include the necessary information.

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## **5.8 Parking and loading arrangements**

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- 5.8.1** The site compound will include an area for vehicle parking. This will include all contractors and site operatives. A designated area for visitors will also be identified, all the visitors will have to register with the site office on arrival.
- 5.8.2** The loading and unloading of plant, materials and waste will be carried out within the site boundary. Loading and unloading of plant, materials and waste on the public highway will be prohibited. The site manager, or an alternative responsible representative, will be present during any loading or unloading operations. A related area for loading and unloading will be identified.

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## **5.9 Details of hoarding**

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- 5.9.1** Heras fencing to be provided around the working area as required. If appropriate, safety signage will be connected to the fencing. Noticeboards will be provided within the site compounds, which will display any necessary signage and information

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## **5.10 Management of traffic to reduce congestion**

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- 5.10.1** The number and the frequency of vehicles will vary over the construction process. On commencement, the initial phase is likely to the site access together with construction rates within the site. As the works commence additional construction processes will be added including the provision of services, drainage and building construction. However, to provide indication of expected numbers the following average assumptions have been provided.

- 1 trip per home under construction for site operatives
- 0.3 LGV trip per home under construction toxic
- 0.3 HGV trip per home under construction

**5.10.2** it is considered that up to 50 houses at any one time could be under construction. This equates to an AADT of 160. This is considered a worst-case as many of the site operatives will be encouraged to travel to the site using shared vehicles to minimise single occupancy vehicles. Deliveries will be programmed to avoid peak times.

## 5.11 Control of dust and dirt, including on the public highway

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- 5.11.1** Following inspection from the Principal Contractor, watering down of the area will be carried out if necessary to minimise dust transfer into the atmosphere or towards neighbouring premises, whilst considering the potential for increased mud on the road. Dust suppression must be used if dust rises more than about 1m above the ground surface.
- 5.11.2** Particular care will be required to maintain dust emissions at a practicable minimum during the construction activities, particularly when working in the vicinity of existing residential properties and environmentally sensitive receptors.
- 5.11.3** Best practice mitigation will be required during dry conditions. Dust reduction measures will include as necessary:
- Seeding and sealing of any earth stockpiles retained on site
  - Sheeting of vehicles transporting materials to and from the site
  - Limiting the speed of general vehicles within the site to 20mph
  - Provision of vehicle brush and road sweeping at access points onto local roads (to prevent mud from getting on the public highways)
  - this Visual monitoring at sensitive locations on a daily basis.
- 5.11.4** By using effective dust mitigation techniques, including good site planning, the potential for dust emissions to arise at a construction site and impact surrounding receptors can be minimised.
- 5.11.5** The potential for dust to arise during earth moving stage of the construction is highly weather dependent. In wet weather greater attention needs to be paid to vehicle cleaning to ensure significant quantities of mud are not trafficked onto local roads, which once dry can become a significant source of dust.
- 5.11.6** Throughout the construction period, care will be taken to ensure the adequate control of dust from vehicles delivering and removing materials to and from the site.
- 5.11.7** Particular care will be taken in respect of the local road network to ensure dust emissions or mud on roads does not affect road users, with the Principal Contractor undertaking regular monitoring to ensure no issue arises. Should any issues arise the Principal Contractor will arrange for a roadsweeper.

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## 5.12 Wheel and underbody washing facilities

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- 5.12.1 As indicated above, the Principal Contractor will undertake regular monitoring of the public highway to ensure no issues are arising out of site debris. Should this occur on an ad hoc basis the Principal Contractor will arrange for a roadsweeper. Should this become a repeated concern then alternative methods will be considered including wheel and underbody washing at the site entrance.

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## 5.13 Responsible persons and lines of communication

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- 5.13.1 The responsible people and listed earlier in this report. The site agent will be responsible for effective communication between the necessary construction staff. This will be carried out on a day-to-day basis supported by a monthly progress meetings.

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## 5.14 Details of any members of the Considerate Contractors scheme

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- 5.14.1 Details of any membership to the Considerate Contractor scheme will be provided to the LPA following confirmation.

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## 5.15 Details of consultation and complaint management with local businesses and neighbours

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- 5.15.1 The Principal Contractor will establish a complaint management system. This will include a record on site of all complaints registered. The register will include the following information
- the date the complaint was received
  - the contact details of the person who raised a complaint
  - the basis of the complaint (to include date/time/location)
- 5.15.2 The site agent will review the details of the complaint to determine what remedial action will be necessary.

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## 5.16 Waste management proposals

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- 5.16.1 The Principal Contractor will establish a site wide waste management strategy. The execution of this plan will be the responsibility of the Principal Contractor who will also be required to update and amend the report if the situation changes. The aim of the plan is identified below.
- This Storing and reusing earthwork materials and general arisings will negate the export or import of inert material
  - Reduction of site generated waste through waste minimisation, segregation and re-cycling initiatives
  - Identification, storage and management of potentially contaminated materials
  - Appropriate methods of waste disposal linked to a robust waste disposal audit trial

- All topsoil and subsoil will be handled and stored carefully to minimise the potential for damage to the soil structure. A detailed method statement will be produced clearly identifying correct stripping, soil handling, storage, placement and programming requirements to avoid compaction and moving the material in unsuitable weather conditions
- All waste removed from site to be taken to licensed waste sites
- Detailed procedures and guidance would be developed and implemented through the construction process to minimise the import of non-sustainable raw materials and for identifying opportunities for re-using or re-cycling waste
- Site office wastes would be collected in separate containers to maximise the opportunities for recycling, this would include can, bottle, and paper banks
- An earthworks strategy the primary emphasis of which will be to limit the disposal of excavated material of site to landfill and to reuse wherever possible material generated during construction whether as fill material or for the strategic landscaped areas
- Responsibility to address on-site compliance, monitoring of health and safety and maintaining good on-site working practices including good storage and waste management practices
- Working practices to reduce waste at source, reuse and recycling waste where practical. Such measures need to consider the opportunities for the segregation of recyclable materials, the storage of waste and of materials to avoid material wastage, the dissemination of awareness of best practice measures to reduce waste at source
- Reducing material wastage through the effective handling, storage and delivery of materials to prevent loss or damage through exposure to the weather, mud and on-site vehicles
- Security measures to prevent any loss of materials from vandalism or theft of material
- Disposal measures including arrangements for the management of traffic setting out appropriate access points away from sensitive receptors and permissible haul routes and delivery times
- A suitable programme of monitoring to determine the success of waste management practices employed on the site and to review measures for the reduction and management of waste and promoting recycling
- All waste arising from the development must be disposed at a site which has an appropriate environmental permit or duly registered waste exemption.

**5.16.2** As part of the site wide management plan, the Principal Contractor will establish a methodology to identify domestic waste that is produced during the construction process. The Principal Contractor will provide receptacles for domestic waste that can be recycled or alternatively the waste that needs to go to a landfill. The Principal Contractor will arrange for the necessary collection during the construction process.

## **5.17 Mechanisms to deal with environmental impacts such as noise and vibration, air quality and dust, light and odour.**

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**5.17.1** Construction practices to reduce/are provided earlier in this report.

**5.17.2** As part of the planning application an air-quality assessment was carried out with identified construction mitigation, those mitigation measures that are not identified elsewhere are shown below

- display the name and contact details of the person accountable for air quality and dust issues on the site boundary (i.e. the environment manager/engineer or site manager);

- carry out regular site inspections to monitor compliance, record inspection results and make inspection log available to the LPA when requested;
- increase frequency of site inspection by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged periods of dry or windy conditions;
- plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible;
- erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles;
- fully enclose site or specific operations where there is a high potential for dust production and the site is active for extensive periods;
- avoid site runoff of water or mud;
- keep where practicable;
- the site agent will produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials;
- only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction if used for an extended period.;
- ensure an adequate water supply on site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate;
- use enclosed chutes and conveyors and covered skips;
- minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever site fencing, barriers and scaffolding clean using wet methods;
- remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site;
- cover, seed or fence stockpiles to prevent wind whipping;
- ensure all vehicles switch off engines when stationary - no idling vehicles;
- avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment appropriate;
- ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods;
- install hard surfaced haul routes,
- ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional controls measures are in place;
- re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable;
- use hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as possible;
- only remove the cover in small areas during work if possible;
- avoid scabbling if possible;
- ensure bulk cement and other fine powder materials are delivered in enclosed tankers;

- use water-assisted dust sweepers on the access and local roads, to remove, as necessary, any material tracked out of the site;
- 5.17.3** It is proposed to limit working hours, as detailed, to reduce the need for artificial lighting. At the time of writing, it is envisaged that artificial lighting will only be used as ‘task lighting’, purposes of security and during normal construction hours.
- 5.17.4** However, if construction lighting is proposed elsewhere then further details will be submitted to the LPA and will be agreed separately in advance of installation.
- 5.17.5** Best practice methods should be adopted in order to mitigate any potential effects of construction noise. Best practice methods include the following as appropriate:
- Location and orientation of plant away from Noise Sensitive Receptors (NSR) wherever possible
  - Where practicable, inherently quiet plant should be selected to provide a reduction of noise at source (reducing the number of plant can reduce the intensity of the activity, although this will serve to prolong the period of activity and consequently noise generation)
  - Controlling noise at source by effective silencers on machines
  - Avoiding unnecessary running of machinery
  - Use of acoustic covers on machinery wherever practical
  - Regular maintenance of plant and machinery
  - Generators will be used during standard construction hours
  - Construction contractors will be required to adhere to the code of practice for construction works given in BS5228 and the Control of Pollution Act 1974 to minimise noise emissions from the site.
  - High frequency audible reversing alarms shall not be used on any vehicle, including sub-contractor’s vehicles, working on the site. Alternative quiet means of safe reversing systems shall be used. White noise alarms are acceptable.
  - Dust suppression management measures (condition 45g)

## **5.18 Prohibition of the burning of waste on site during construction**

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- 5.18.1** For the avoidance of doubt, the burning of anywaste on site is strictly prohibited.

## **5.19 Details of any proposed piling operations, including justification for the proposed piling strategy, a vibration impact assessment and proposed control and mitigation measures.**

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- 5.19.1** The use of piling is not expected during the construction period. The LPA will be informed should the use of piling be necessary. The location and timing of any piling operations will be discussed with the LPA before commencement of any operations.

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## 5.20 Before and after condition survey to identify defects to highway in the vicinity of the access to the site and the arrangements to ensure that, where necessary, repairs are undertaken at the developer expense where damage to the highway has been caused by the construction of the development.

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- 5.20.1** The Principal Contractor will undertake a visual inspection of the public highway within 40 m of any access prior to the use by construction traffic. Any defects will be recorded and reported to the LPA. The LPA will confirm the defects are a true record.
- 5.20.2** Following the completion of the construction activities the principal contractor will repeat the visual inspection. Any additional defects identified will be repaired.

## 5.21 Mechanisms to identify and protect strategic pipes and services crossing the site.

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- 5.21.1** Where possible, the principal contractor should eliminate or reduce the need to break ground in proximity to underground services by thorough planning. If breaking ground is necessary, there must be sufficient planning carried out before any breaking ground activity can begin. This includes:
- referring to underground service drawings
  - undertaking site surveys to positively identify services
  - all site induction sessions will include highlighting the risks of services that cross the site
- 5.21.2** A Cable Avoidance Tool (CAT) will be used to scan for services before breaking ground and also as excavation progresses. Services should be visually identified using trial holes. Trial holes must be excavated by hand or other safe non-mechanical methods before the main breaking ground works are started to determine the exact location and depth of any utilities present. All services will be identified on the site.
- 5.21.3** The following practices will be included
- Assume all services are ‘live’ **unless** demonstrated otherwise
  - Only use electrically insulated tools
  - Everyone involved with breaking ground must be competent, and some will require specific qualifications
  - The work area must continue to be scanned as the work progresses
  - Re-establish service markings that are removed as the works proceed
  - all exclusion zones are clearly marked
  - all staff to wear appropriate PPE equipment when working adjacent to services
  - stop work immediately if unexpected services are identified
  - all service markings will remain in place during the construction process

## 6 Control Of Construction Processes

### 6.1 Training, Awareness and Competence

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- 6.1.1** The raising of environmental awareness is viewed as crucial element in the appreciation and implementation of the CMP. All staff will undergo environmental awareness training, initially by way of the pre-start induction process.
- 6.1.2** Training for all personnel identified in the training plan will be completed before commencement of the associated construction activities. Line managers and supervisors will ensure that all personnel engaged in activities that may have an impact on the environment are competent to carry out their duties or, where necessary, arrange for suitable training to be undertaken.

### 6.2 Supervision of Construction Activities

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- 6.2.1** All construction and installation activities including those carried out by subcontractors and suppliers will be supervised or regularly checked through the completion of site inspections by the Contractors Environmental Manager, to ensure that requirements identified in risk assessments or method statements are implemented.
- 6.2.2** The frequency and extent of this supervision will vary according to the degree of competence displayed by the workforce and the level of risk.

### 6.3 Inspections by the Environmental Team

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- 6.3.1** Environmental deliverables required by the CMP will be subject to regular independent inspections by either the Environmental Manager or the relevant environmental specialists. These inspections will be used to confirm that:
- Construction works are progressing in accordance with the agreed method statements
  - Agreed protection or mitigation measures are in place, prior to or during the implementation of construction activities
  - Construction works have been completed in accordance with the design and commitments made during the statutory process

### 6.4 Environmental Inspection and Reporting

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- 6.4.1** The Contractors Environmental Manager will carry out an assessment of the Project's environmental performance, based on reports from the environmental specialists and site inspections. This will be carried out at a frequency at no greater than monthly intervals but could be held more regularly depending on the nature of the construction activity. An assessment of the performance over the month would be made and quantified.

- 6.4.2** A monthly report detailing performance for the period will be provided to the Project Manager and will include a summary of environmental inspections completed, audits undertaken, complaints and incidents.
- 6.4.3** The LPA will be informed of any significant environmental occurrences on site together with any complaints reported to the contractor by members of the public. Incidents which involve the contamination of the ground or unconsent discharges to ground or surface water should be reported to the Environment Agency via the Incident Hotline number: 0800 80 70 60.
- 6.4.4** All environmental complaints received will be reported to the Environmental Manager and logged in a Complaints Register, which shall be available for review by the Contract Manager. These will be investigated in the following manner:
- Contact with contractor/consultant or Environmental Manager for report on activity
  - Site visit to determine whether the source of complaint can be identified
  - Corrective action where relevant
  - Subsequent reporting of source of complaint where appropriate
  - Follow-up with complainant as necessary
- 6.4.5** The Environmental Manager will, as necessary, provide details to project delivery team, and also to the relevant statutory environmental agencies or local authorities if required.
- 6.4.6** Monitoring of agreed environmental determinants will be carried out in accordance with the specialist environmental procedures and environmental commitments made. The Environmental Manager will maintain a register of all environmental monitoring, which is to be retained on site for review.

## **6.5 Communication and Co-ordination**

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- 6.5.1** Project communications will be assisted by way of regular team meetings.
- 6.5.2** Weekly meetings chaired by the Principal Contractor will be held to review performance and co-ordinate short-term planning of forthcoming activities. The meetings will be used to report on the findings of inspections together with any recurring issues.

## 7 Summary

- 7.1.1** This site wide CMP provides information in relation to the planning and implementation of the construction activities to reduce the risk of adverse impact of construction on sensitive environmental resources and to minimise disturbance to local residents.