



**Land at Bridgefield Forum, Lightoaks Drive, Halewood, L26 6BJ**

**Earthworks Operations Environmental Management Plan**

October 2021

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1.0

## **Introduction**

### **Background**

- 1.1 This Earthworks Operations Environmental Management Plan has been prepared by Countryside Properties Ltd.
- 1.2 The management of earthworks operations activities that can have significant environmental impacts is required as part of the proposed development. The Plan provides a framework for planning and implementing earthworks operations in a way which prevents, minimises or controls their potential environmental impacts.
- 1.3 The document also highlights responsibility and accountability for the management of the Plan.

### **Proposed Development**

- 1.4 The proposed works are to create flood compensation area in POS at Lightoaks Drive, Halewood, L26 6BJ.
- 1.5 A Full planning application (reference 15/00559/FUL) was submitted in for a total of 113 no dwellings, Flood mitigation and POS and approved in January 2016.
- 1.6 An application is made under Section 73 to amend Conditions 4 and 5 of approval 15/00559/FUL and allow alteration to the flood compensation scheme.

### **Objectives of this Plan**

- 1.7 This Plan provides the details of the measures that will be implemented to minimise and mitigate the construction impacts on the environment at the development site and the surrounding area. The primary objective of the Plan is to ensure that the relevant provisions set out by Knowsley MBC are met.
- 1.8 Countryside Properties (UK) Limited is committed to ensuring measures are in place to minimise and mitigate any potential impacts on the environment during the earthworks operations.
- 1.9 The Plan has been developed considering the overall environmental objectives of Countryside Properties set out in existing company Environmental Policies and Corporate Social Responsibility documents and will comply with relevant legislation. Copies of the Countryside Properties' Environmental Policies are to be found in Appendix A.

## **Health and Safety Management**

- 1.10 Countryside Properties is committed to promoting a positive safety culture. The enforcing authority for health and safety on construction sites is the Health and Safety Executive who will be notified of all construction works prior to their commencement on site.
- 1.11 The main contractor will maintain a register of accidents, incidents, near misses and complaints. Contractors failing to maintain the required safety standards may be excluded from the approved tender list for future work.
- 1.12 All works will be legally compliant and all Codes of Practice and site rules relating to the works will be observed all in line with new GDPR procedures.

## 2.0 **Earthworks      Operations      Environmental Management Plan**

2.1 This section of the report addresses the key elements relating to construction management protection measures.

### **(i) Parking of vehicles of site operatives and visitors**

2.2 In order to avoid disruption to local traffic, contractors will aim to be on site by 08:00. Parking must be in a designated layby area on Lightoaks Drive and parking bays adjacent to the POS. Site parking will be sufficient to hold all necessary vehicles.

2.3 Site entrance and exit will be clearly marked.

### **(ii) Delivery times and loading and unloading of plant and materials**

2.4 Associated working / construction hours will be restricted to:

- Monday - Friday 08:00-18:00
- Saturday 08:00-13:00
- No working will be permitted on Sundays or bank holidays

2.5 All vehicles must be brought into site in a forward gear and leave in a forward gear where possible. If a vehicle must reverse into or out of the site, banksmen will be used to marshal vehicles in or out.

2.6 Vehicle movements to the site will be carried out via agreed route, which is via Greensbridge Lane and Lightoaks Drive.

### **(iii) Storage of Plant and Materials**

2.7 Materials used in the construction process such as oil, chemicals, cement, lime, cleaning materials and paint have the potential to cause serious pollution. Therefore, the Environment Agency Pollution Prevention Guidance will be followed.

2.8 A bunded storage area will be located on the site's main compound and will be provided for the duration of the construction period for the storage of oils, fuels, chemical and other hazardous construction materials. The base and bund walls will be impermeable to the material stored and be of adequate capacity. For those materials stored outside the bunded area spill palettes will be used. Details are shown in Appendix 5.

2.9 Appropriate spill kits will be located in storage areas along with clear written procedures on how to address a spillage if it occurs.

- 2.10 Leaking or empty oil drums will be removed from the site immediately and disposed of to an appropriately licensed disposal site via a licensed waste disposal contractor.
- 2.11 Plant will be refuelled in designated areas on an impermeable surface within the compound area away from any drains or watercourses. A spill kit will be available in the event of an accident and will be kept in the refuelling area. If refuelling areas are unavoidably near a watercourse or drains then an enhanced spill kit will be required.
- 2.12 Best practice methods will be used for storing fuel and refuelling in compliance with Oil Storage Regulations to ensure that no ground or water contamination will occur.
- 2.13 Storage containers will be clearly marked on tanks and a notice displayed requiring that valves and trigger guns be locked when not in use.
- 2.14 Storage areas and containers will be protected against vandalism and unauthorised interference and all containers will be securely locked when not in use.
- 2.15 A road sweeper will operate in and around the site during daytimes. Extra care to damp down during dry spells.
- 2.16 Procedures will be set in place before the commencement of works to respond to any emergency incidents which may occur on site. All appropriate staff will be trained and made aware of the contingency plan set in place. In the event of an incident the Environment Agency will be notified immediately.

#### **(iv) Screening of Compound and Welfare Facilities**

- 2.17 The site area and the contractor's compound will be enclosed with suitable /Heras which will be maintained and kept clean for the duration of the operations.
- 2.18 Toilets will be screened and the site should be cleaned on a regular basis, especially around canteens and toilets.

#### **(v) Wheel Washing**

- 2.19 All vehicles leaving site will have visual inspection prior to leaving the site and will provide wheel washing facility as indicated in Appendix 4.
- 2.20 A Road sweeper is to be used for the duration of the works.

#### **(vi) Signage for Construction Traffic**

Construction traffic will be directed through the safest route, and all contractors will be made aware of this routing before travel. The access to the development will be signposted by directing vehicles along designated routes.

- 2.21 As well as there being visible road signs directing traffic along this agreed route, information packs will be sent to all contractors, suppliers and drivers to ensure that route and traffic rules on site are understood.
- 2.22 A Road dilapidation survey will be carried out prior to commencement of the development. Regular checks will be carried out through out the life time of the development to ensure there is no adverse wear and tear of the highway. Regular road sweeps will be carried out and repairs agreed with Local Highways Department as necessary.

### **(Vii) Measures to prevent disturbance from noise and vibration**

- 2.23 Operational hours generating noise and vibration will be restricted to:
- Monday - Friday - 08:00-18.00
  - Saturday – 08:00-13:00
- 2.24 In terms of the potential for noise from temporary generators, we proposed to use a 'Hybrid-Gen' generator. The unit is effectively charged during the daytime and the battery then operates the generator through the night without generating any noise.
- 2.25 The site boundaries will be fenced with Heras to reduce the potential for noise transfer.
- 2.26 Any complaints will be logged in a dedicated file and will be actioned by the Site Manager. If not resolved by the Manager then the complaint will be escalated to the Countryside's Director then the Managing Director. A letter drop to local residents has taken place to inform them of the relevant contacts within the business should there be an issue on site.
- 2.27 Noise mitigation will be carried out by ensuring that machines are switched off when not in use, will only work during the hours of 08.00 – 18.00 during weekdays and 08.00 – 13.00 Saturdays (if required) but not at all Sundays or Bank Holidays unless agreed with KMBC.
- 2.28 Other site plant like forklift trucks, JCB's etc. will were possible be fitted with broadband reversing beepers.

### **(X) Measures to prevent disturbance from dust production**

- 2.29 As outlined above, during dry spells measures will be in place to dampen down roads and work area to prevent excessive dust as shown in Appendix 4. Any wagons leaving the site with materials will be covered. Wheel washing and road sweeping will be implemented in line with Section (v) to prevent the transfer of mud onto the road network. Perimeter fencing will be installed to control any dust arising from the site, details of which are provided in Appendix 4.

2.30 **Pest Control** - The most common pests that reside in construction sites are mice and rats. These rodents often reside in drainage and holes, and construction can often allow rats to roam free. Squirrels are also frequent visitors on building sites, as well as birds such as pigeons and various insects. Contractors are instructed to look out for pest problems, include droppings, scratch marks, scuffs, holes, as well as gnawed cables. Evidence of nesting, as well as damage to plant. The Contractor is to take steps to minimise the risk of unwanted pests. Arranging for rubbish to be collected and taken away. No storing of waste in open skips. Dust is to be cleared and regularly dampened down, as well as at the end of a project. The contractor will always take preventative measures where possible, stay alert to the signs of an infestation, and take swift action where necessary to keep you the development area free of pests.

2.31 If you're using temporary facilities it's really important to make sure these are correctly managed to prevent leaks, odours and pest problems.

## 2.32 **Scope of Works**

2.33 Remove the existing topsoil to a depth of 150mm and store in stockpile. Topsoil stockpile to be sealed and ensure clear separation to prevent any contamination as shown on Site Works Plan in appendix 2.

2.34 Following removal of the Topsoil, Reduce levels to a datum of 6.75m. This is approximately 250mm. This will create approximately 1781m<sup>3</sup> of material to be relocated to the embankment area adjacent to Lightoaks Drive.

2.35 Material to be moved Excavators will then load Dumpers to relocate to embankment area.

2.36 The whole area is then to have the topsoil re-laid to a depth of 150mm. The soils are to be stone picked to ensure no particles larger than 20mm are present. This is to be compacted to avoid washout then immediately seeded and confirmed by Validation. As built survey to be provided to ensure levels of flood compensation have been achieved.

## **Conclusion**

2.37 The overall objective of this Construction Environmental Management Plan has been developed to ensure that throughout the construction process, the following fundamental goals are all met so far as practicable: exemplary environmental practice; protection of the interests of local residents, amenity; and efficient, economic and timely construction practices.

# Appendix 1 Countryside Properties (UK) Limited Environmental Policies

|                                                                                                                                           |                            |                         |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|--------------------|
|  <b>COUNTRYSIDE</b><br><small>Places People Love</small> |                            | <b>GROUP</b>            |                    |
| <b>Policy Name</b>                                                                                                                        | ENVIRONMENTAL POLICY       | <b>Date &amp; Issue</b> | 07/09/2017 Issue 8 |
| <b>Approved</b>                                                                                                                           | <i>Executive Committee</i> | <b>Doc. Ref. No.</b>    | GRP-POL-13         |

## ENVIRONMENTAL POLICY

Countryside is a leading UK home builder specialising in place making and urban regeneration. Our business is centred around two complementary divisions, Partnerships and Housebuilding. Our Partnerships division specialises in urban regeneration of public sector land, delivering private and affordable homes by partnering with local authorities and housing associations. The Housebuilding division, operating under Countryside and Millgate brands, develops sites that provide private and affordable housing, on land owned or controlled by the Group. Countryside was founded in 1958. It operates in locations across outer London, the South East, the North West of England and the West Midlands.

In undertaking some of these activities, the Group recognises that it has an impact on the environment. The Group's objective is to ensure that development realises the desired financial returns whilst in an environmentally responsible and sustainable manner.

To achieve this, the Group's vision, values and objectives are to:

### Corporate

- Actively pursue a policy of promoting and implementing sustainable development.
- Promote the Group's environmental, social and ethical objectives and policy to all personnel, associates, contractors, suppliers and the public.
- Fully meet compliance obligations
- Keep the relevant divisions and departments informed of changes in legislation, technologies and construction research, which may affect them.
- Protect the environment and prevent pollution.
- Seek progressive improvement in environmental performance by measuring certain activities against both qualitative and quantitative objectives and targets.
- Undertake regular environmental auditing of its activities and report on performance to key stakeholder groups.
- Maintain and improve the Group Environmental Management System in order to improve environmental performance.
- Maintain certification to ISO 14001:2015.

### Land

- Ensure that land acquisition procedures relating to environmental issues are identified and assessed.

### Planning and Design

- Ensure environmental considerations are incorporated into the planning, specification and design process.
- Develop landscape and building design so that it integrates with and enhances the surrounding natural and built environment.

### Construction

- Adhere to the principles of considerate construction practice and good neighbourliness on all sites.
- Continue to manage the construction process to help to minimise the environmental impact of its operations and reduce potential for pollution of soil, water and air.

## ENVIRONMENTAL POLICY

### Resource Use

- Minimise the waste generated and encourage the appropriate re-use or recycling of materials as far as is practicable.
- Encourage the procurement of materials that are produced in a manner which causes less impact on the environment.
- Investigate opportunities, and where appropriate implement measures, to ensure that natural resources are used efficiently.

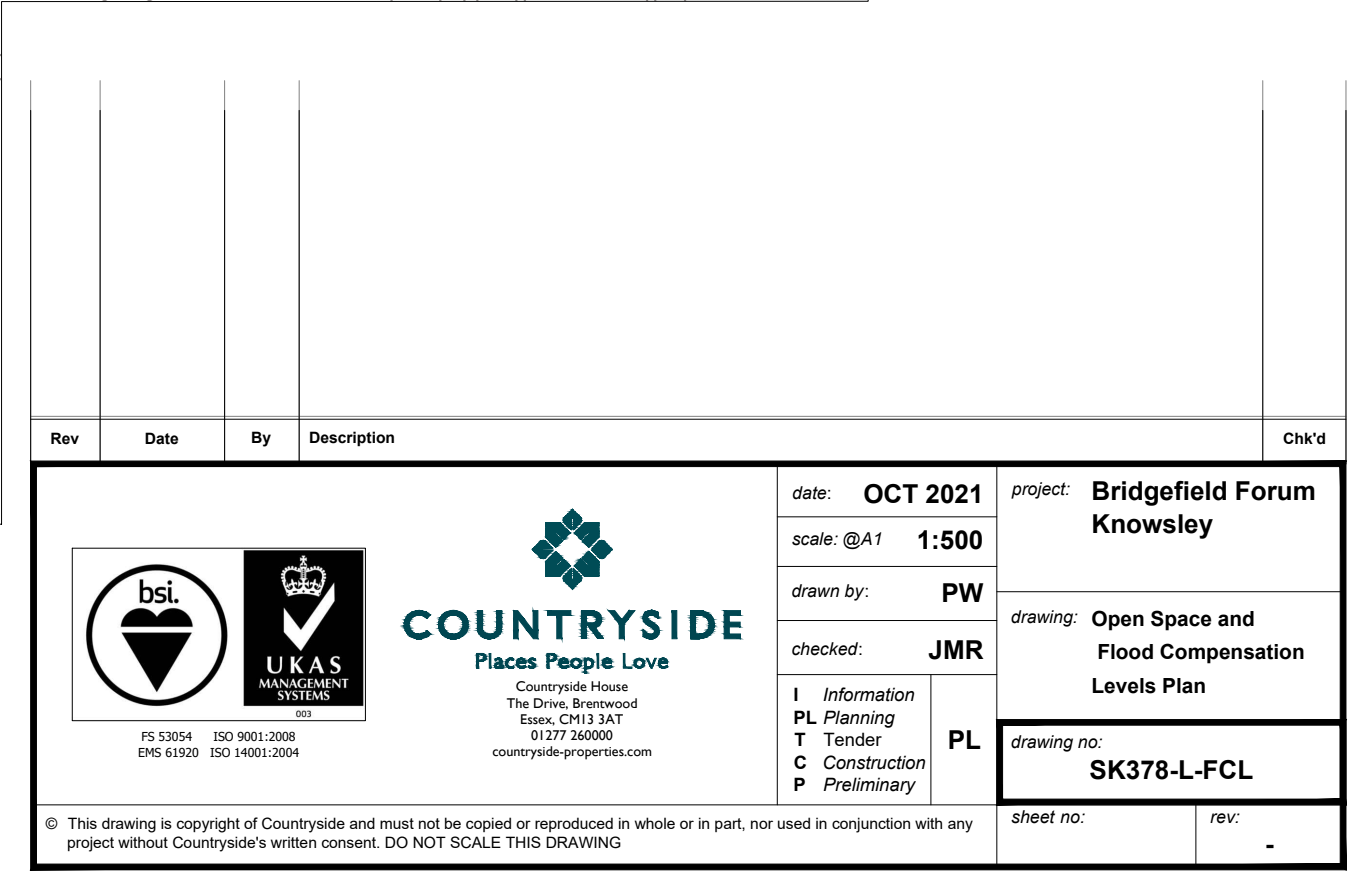
### Organisation

A member of the Executive Committee is Chairman of the Health, Safety, Environment and Quality Committee. The remit and constitution of the Committee shall be determined by the Executive Committee.

This Corporate Environmental Policy is regularly reviewed and supported by a number of issue specific policies and procedures. These can be viewed on the Corporate Website at <https://www.countryside-properties.com>.



## Appendix 2      Site Plan



# Appendix 3      Control of the Earthworks Process

## Composition of the Team

- 2.38      A team with primary responsibility for planning, implementing and checking environmental management in the course of operations will be established. The roles and responsibilities of all elements of this team will be assigned and adequate resources will be provided to ensure that these are adequately fulfilled.
- 2.39      The general composition and structure of the team is described below. At this stage, it is envisaged that the environmental management team will comprise the following key roles:
- Site Manager;
  - Environmental Specialists; and
  - Construction Liaison Officer.
- 2.40      General descriptions of the responsibilities assigned to each of these roles are provided below.

## Roles and Responsibilities

### Site Manager

- 2.41      The Site Manager (SM) will report to the Build Manager and will be responsible for overseeing environmental management and checking that the project is being carried out in line with statutory requirements and the agreed environmental standards. The SM will have day to day responsibility for environmental management in the course of the works and will be responsible for coordinating and managing all environmental management activities in the course of the works. The SM will act as the main point of contact for construction personnel.
- 2.42      The specific responsibilities of the SM include:
- Assessing the competence of all contractors working on the project and report to the Build Manager on this matter;
  - Checking that appropriate control measures are being implemented;
  - Reviewing the results of monitoring, inspections and audits;
  - Reviewing and approving the Plan, Method Statements and operational control procedures suggesting areas for improvement, to ensure that they continue to guide appropriate environmental management in the course of the works.

Identifying environmental competence requirements for all staff working on the project and coordinating the delivery of environmental training and awareness-raising initiatives;

- Ensuring that appropriate resources are made available and environmental control measures are implemented;
- Providing advice and liaison with the construction teams to ensure that appropriate controls are developed and implemented in the course of the works;
- Undertaking monitoring, inspections and audits in the course of the works, with support from environmental specialists as appropriate;
- Reviewing the results of monitoring, inspections and audits to ensure that the environmental controls being implemented are delivering the objectives outlined in the CEMP; and
- Reviewing and revising the CEMP, Method Statements and operational control procedures.

### **Environmental Specialists**

- 2.43            The Principal Contractor and any sub-contractors will employ environmental specialists to assist with specific activities (e.g. monitoring) as appropriate.

### **Construction Liaison Officer**

- 2.44            The Construction Liaison Officer (CLO) will be responsible for dealing with queries and complaints from the public. This nominated individual will be named at the site entrance, with a contact number, and will be identified to the local public prior to the start of site activities.

### **Training and Raising Awareness**

- 2.45            All staff will undergo environmental awareness training, initially as part of the induction process, in order to be made aware of roles and responsibilities, procedures to be followed and to ensure competency.

- 2.46            The types of issues covered include:
- Site Drainage - no polluted or silty water to enter the surface water drains on site. Gullies will be cleaned out and lined with straw bales.
  - Deliveries - Special care to be taken when dealing with deliveries, particularly fuel and hazardous materials. Deliveries will be supervised by the materials controller to ensure that storage tank levels are checked before delivery to prevent overfilling. Spill Kits are available, and all staff and operatives are made aware of their location and of the correct procedure for dealing with spills.
  - Storage - Fuel, oil and chemical storage to be sited on an impervious base that is bunded and secured.

- Security - All valves and trigger guns will be protected from vandalism and will be turned off and locked when not in use. Tanks and drums will be stored in a secure container or compound. Bowsers will also be stored within the site security compounds.
- Marking - The contents of any tank will be clearly marked on the tank and a notice will be displayed requesting that the valves and trigger guns are locked when not in use.
- Removal - Prior to the removal of tanks at the end of the contract, all contents and residues will be emptied by a competent operator for safe disposal.
- Waste Treatment & Storage - All waste will be stored in designated areas which are isolated from surface drains. Separate skips will be used for mixed waste and used for timber only recycling.
- Duty of Care and Waste Legislation - Sub-contractors are not permitted to remove their own waste from sites so as to reduce the risk of fly-tipping and ensure that the waste generated on site remains on site for licensed carriers to dispose of.

## **Reporting**

- 2.47 Reporting procedures will be defined by Countryside Properties to ensure consistency. Each subcontractor will hold the overall responsibility of providing feedback to the main contractor and the Countryside Properties on the environmental performance of the development.

## **Monitoring, Continual Improvement and Review**

- 2.48 The Plan shall be reviewed and updated during the life of the project by Countryside Properties to ensure that it remains suitable to facilitate efficient and effective delivery of the project environmental commitments. All revisions of the Plan will be copied to Knowsley MBC for approval in sufficient time to allow detailed environmental plans to be prepared by the SM and also submitted for approval. The environmental review will consider past performance from inspections, audit reports and monitoring data, plan actions required to mitigate forthcoming risks and disseminate best practice.

## **Environmental Complaints and Incidents**

- 2.49 All complaints and incidents will be recorded and responded to. These are to be reported to the site manager and the SM who will provide advice on how to deal with the incident. A centralised place for all reported complaints and incidents should remain with the SM and be reported to Countryside Properties at the monthly meetings to provide feedback on the types of incidents noted.
- 2.50 The appointed Main Contractor shall provide training as necessary to prevent environmental incidents and to ensure that personnel are aware of the actions to be taken in the event that they identify an incident. To ensure

consistency each of the sub-contractors will monitor performance of the main contractor by implementing the complaints procedure and provide instruction where necessary.

## **Public Relations and Community Relations**

- 2.51            There will be regular and proactive liaison with Knowsley MBC and other third parties as appropriate on environmental issues throughout the project implementation.

## Appendix 4 Measures to control dust

### Dust control measures

Examples of dust control measures are shown below;

- Monarflex netting on the fencing will reduce the potential for dust leaving the site
- Dampening plant
- Road sweeping and jet wash facilities



Dust control measures – dampening down techniques



Typical road sweeper equipment & manual heavy-duty jet wash

## Appendix 5 Bunded storage and spill pallets

Details of typical bunded storage areas that will be located on the site's main compound and will be provided for the duration of the construction period for the storage of oils, fuels, chemical and other hazardous construction materials

