

SUPPLEMENTARY INFORMATION

1. Site details

Site Name	Eagle Avenue SF	Site Address	Grass Verge on Eagle Avenue, Waterlooville PO8 9UB
NGR	E468554 N111949		
Site Ref Number	HAM0535	Site Type ¹	Microcell

2. Pre Application Check list

Site selection

Was the mast register of the authority ² responsible for planning used to check for suitable sites by the operator or the authority?	Yes	
Was the industry site database checked for suitable sites by the operator?	Yes	

Annual roll out consultation with the authority² responsible for planning

Date of last annual rollout information/ submission	26/10/11
Name of contact	Daphney Haywood
Summary of outcome/Main issues raised As this site is to replace an existing approved site, it would not have been shown on the rollout information.	

Pre-application consultation with the authority² responsible for planning

Date of written offer of pre-application consultation	4 th September 2012
Was there pre-application contact	Yes
Date of pre-application contact	18 th September 2012
Name of contact	Mr Richard Nash
A pre-consultation letter was sent to the LPA on the 4 th September 2012. A response was received on the 18 th September 2012 from Richard Nash acknowledging receipt of our letter and requesting us to investigate two further options prior to the submission of an application, which has been carried out and discounted as mentioned in paragraph 13. We were also requested to undertake consultation with the Waterlooville Community Board, Councillor Paul Buckley, the Acorn Community Centre and the residents adjacent to the site location in Curlew Gardens, which has been done.	

Ten Commitments Consultation

Rating of Site under Traffic Light Model	Red
Outline Consultation carried out... The site was rated red as the site is located close to residential properties and a school as such consultation was undertaken with the local Ward Councillors, the Head Teacher and Chair of Governors at Woodcroft Primary School, the Waterlooville Community Board, Councillor Paul Buckley, the Acorn Community Centre and the residents adjacent to the site location in Curlew Gardens. Also, two consultation notices were displayed close to the proposed site location.	

¹ Macro or micro

² England & Wales-Local Planning Authority. Scotland-Planning Authority.
Northern Ireland- Department of Environment Planning Services

School/College

Consultation letters were sent to the Head Teacher and Chair of Governors of Woodcroft Primary School, which is located approximately 100m north of the proposed location. No responses were received in regard to the location of the proposed site.

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation

The proposed site is not located near an airport, as such, no consultation was conducted.

3.0 Proposed Development

The proposed site

The proposed development is for a 15m high telecommunications lamp post with 1 no. tri-sector antenna located at the top of the lamp post and 1 no. equipment cabinet located adjacent to the lamp post and ancillary development thereto. The application site is located on Eagle Avenue on Highways land.

The proposal has been sited and designed to be able to maintain the level of coverage required for this part of Waterloooville which would suffer from poor coverage levels once the existing site at Woodcroft Farm has been removed. There are no available masts in this area that could be utilised in order to achieve the coverage into the required area.

The proposed site does not lie within a land designation and as such, the new site will not significantly detract from the visual amenity of the locality. It is appreciated that the uppermost part of the installation may be visible from some view points, but every effort has been undertaken to reduce the visual impact of the proposal and the installation has been sited to utilise as much of the available screening as possible.

A map extract is enclosed with this application showing the site location.

Type of Structure (e.g. tower, mast, etc): 15m lamppost mast.

Description

Installation comprising of 1 no. 15m high telecommunications lamp post with 1 no. tri-sector antenna located at the top of the lamp post and one equipment cabinet at ground level adjacent to the lamp post.

Overall Height

15m

Materials (as applicable)

Type of material and external colour

Coloured Goose Grey

Equipment housing – type of material and external colour

Galvanised steel and aluminium coloured Midnight Green

Reasons for choice of design

The design has been chosen as it meets both the technical requirement to provide the necessary service in terms of height and type of antenna and was considered as the most sensitive design in terms of the appearance issues.

From the outset, when this option was first considered, the decision was made by Everything Everywhere to try and minimise the visual impact the proposal may cause. In order to achieve this, the design solution of a telecommunications lamp post will provide the required technical coverage along with being the least visually intrusive installation available. Given the general appearance of this area, the proposal would not appear out of keeping with a busy roadside area.

4.0 Technical information

ICNIRP Declaration attached - Yes

ICNIRP public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines.

When determining compliance the emissions from all mobile phone network operators on the site are taken into account.

Frequency:

All Everything Everywhere 3G sites operate both the GSM1800 system (transmitting in the frequency range of **1846.5MHz** to **1876.5MHz**) and the UMTS system (transmitting in the frequency range of **1904.9MHz** to **1909.9MHz** and **2159.7MHz** to **2169.7MHz**).

Modulation characteristics³

The modulation method employed in GSM1800 is **GMSK** (Gaussian Minimum Shift Keying) which is a form of **Phase Modulation**.

The modulation method employed in UMTS is **QPSK** (Quad Phase Shift Keying) which is another form of **Phase Modulation**.

Power output (expressed in EIRP in dBW per carrier):

In order to minimise interference within its own network and with other radio networks, Everything Everywhere operates its network in such a way that radio frequency power outputs are kept to the lowest levels commensurate with effective service provision.

As part of Everything Everywhere's network, the radio base station that is the subject of this application will be configured to operate in this way.

Everything Everywheres' licence limits the allowed radiated power to an effective isotropic radiating power (EiRP) of +32dBW per carrier for both GSM1800 and UMTS

For a **Macrocell** the typical EiRP would be approximately +30dBW for both GSM1800 and UMTS

Height of antenna (m above ground level)

15m to top of antennas

³ The modulation method employed in GSM is GMSK (Gaussian Minimum Shift Keying) which is a form of Phase Modulation

5.0 Technical Justification

The proposal has been sited and designed to be able to maintain the level of coverage required to this part of Waterloooville once the existing site at Woodcroft Farm has been removed. There are no available masts in this area that could be utilised in order to achieve the coverage into the required area.

GSM Coverage

A mobile phone transmitter is designed to cover a specific area and links its coverage to the next site in the network, creating a patchwork of overlapping coverage 'cells' across the county. So, if a person is on the move, the network will transfer their calls from one site to the next. However, in certain areas there will be gaps between these cells, resulting in a loss of coverage. This can be for a variety of reasons, the most common being topography or buildings which block the path of the signal. Our network rollout programme is designed to identify and address these gaps within our coverage and ensure that people can use their phones whenever and wherever they are.

The distances between transmitter sites will depend on many factors, including the geography of the area, the number of buildings, the number of people living in the area and the growing demand for mobile services. As a result, the distance between sites can range from less than 1 kilometre in large urban areas to 8 kilometres in rural areas.

There is currently adequate provision of Everything Everywhere service in this area provided by the existing installation at Woodcroft Farm. However, this site needs to be removed so that redevelopment of the site can be carried out. As such, in order to prevent loss of coverage to customers, this application is submitted in order to maintain the level of coverage provided by the existing site.

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The installation has been sited and designed to provide coverage to this part of Waterloooville once the existing site at Woodcroft Farm has been removed. This is especially important as the coverage that is currently provided by the existing site will be lost once the existing site is removed.

Coverage Plots

Plot 1 – shows the current level of coverage provided by the existing site at Woodcroft Farm.

Plot 2 – shows the coverage levels once the existing site is removed.

Plot 3 – shows the level of coverage that will be provided by this installation and the existing mast on Lovedean Lane that may be used in the future to cover the area to the north of Cowplain.

6.0 Site selection process – alternative sites considered and not chosen

Site	NGR	Reason for not choosing
Junction of Eagle Avenue and Milton Road	468839/111954	This option is located adjacent to a roundabout which is overlooked by residential properties. As this site is more prominent than the proposed location, it has been discounted for use.
Junction of Milton Road and Lovedean Lane	468905/112074	This option is overlooked by houses and will have a direct view of the site, as such this option was discounted due to siting and appearance issues; as this location is more prominent than the proposed site.
Decommissioned H3G structure at Woodcroft Farm	468207/112320	Despite chasers to the Landowners agent to request approval to utilise this existing (decommissioned) mast, a response has not been received. As such and due to the imminent removal of the existing Orange/EE structure, we have no option but to progress the proposed option.
Grass Verge off Eagle Avenue	468536/111969	This option is opposite the proposed location and is overlooked by residential properties, as such, was discounted as being more visually intrusive than the proposed location.
Lovedean MOT Test Centre, 231 Lovedean Lane	468332/113074	There was no response from the site provider about placing telecommunications equipment on their premises.
Existing Telecoms Mast, Lovedean Lane	468573/113391	This site may potentially be used in the future to provide coverage to the area north of Cowplain, however, is unable to provide coverage to the required area.
Little Oaks, Frogmore Lane	469176/113020	There was no response from the site provider about placing telecommunications equipment on their premises.
Parade of Shops on Milton Road	468844/112004	There was no response from the site provider about placing telecommunications equipment on their premises. However, this option is located at the bottom of a hill, as such, a large stub mast installation would be required on the roof of these properties and so this option was discounted as being too visually intrusive.
Service Yard off Eagle Avenue	468826/112005	There was no response from the site provider about placing telecommunications equipment on their premises. However, this option is located at the bottom of a hill, as such, a large installation in the region of 25m in height would be required at this location and so this option was discounted as being too visually intrusive.
There are no other available options within the search area capable of providing the required level of coverage		

Contact Details

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Signed		Date	18 th October 2012
Position	Acquisition Consultant	Company (on behalf of the above operator)	The Harlequin Group