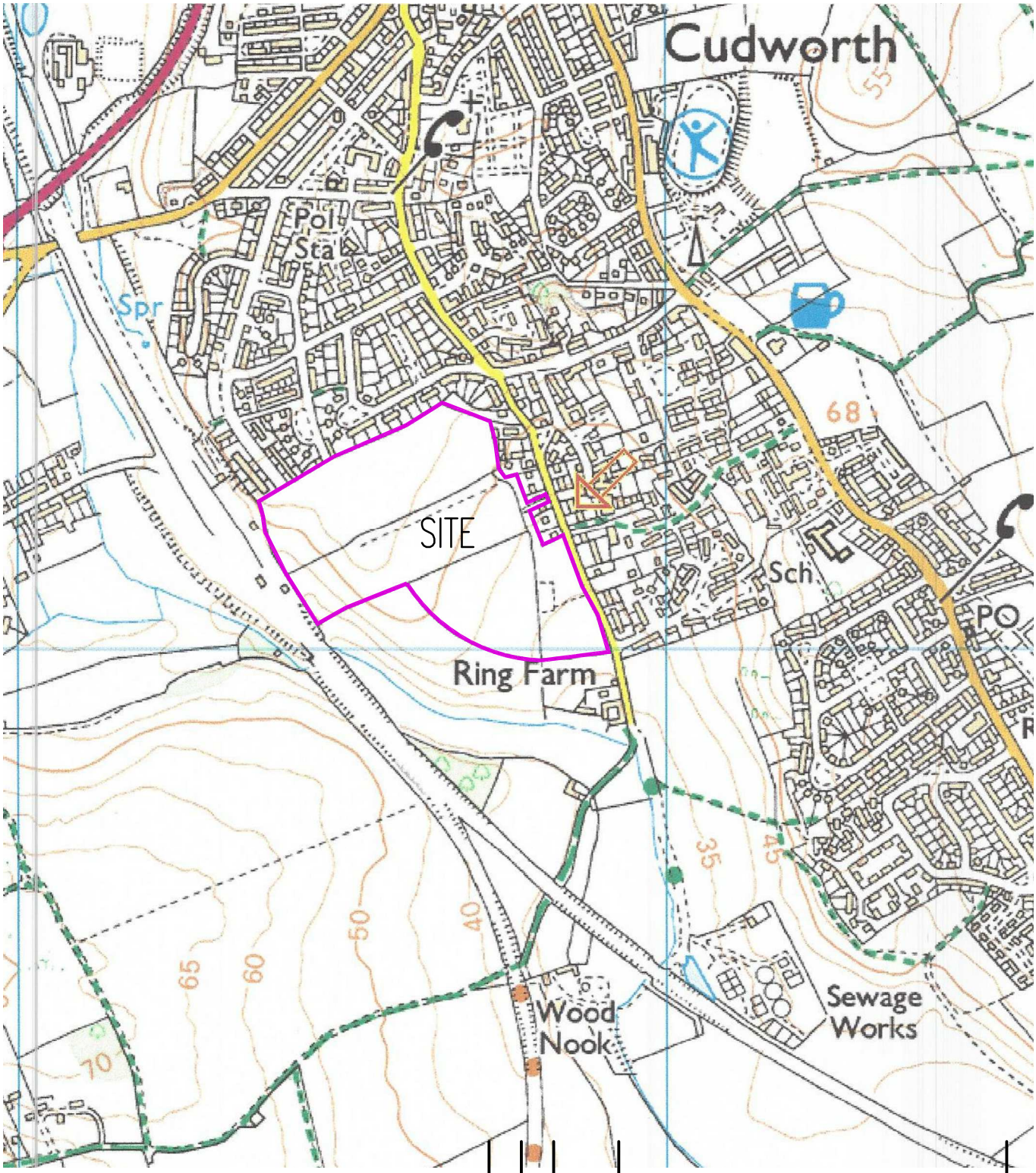
A P P E N D I X A

SITE LOCATION PLAN



Rev	By	Date	Amendment	Chk
/			Issued for approval	

Title

SITE LOCATION PLAN

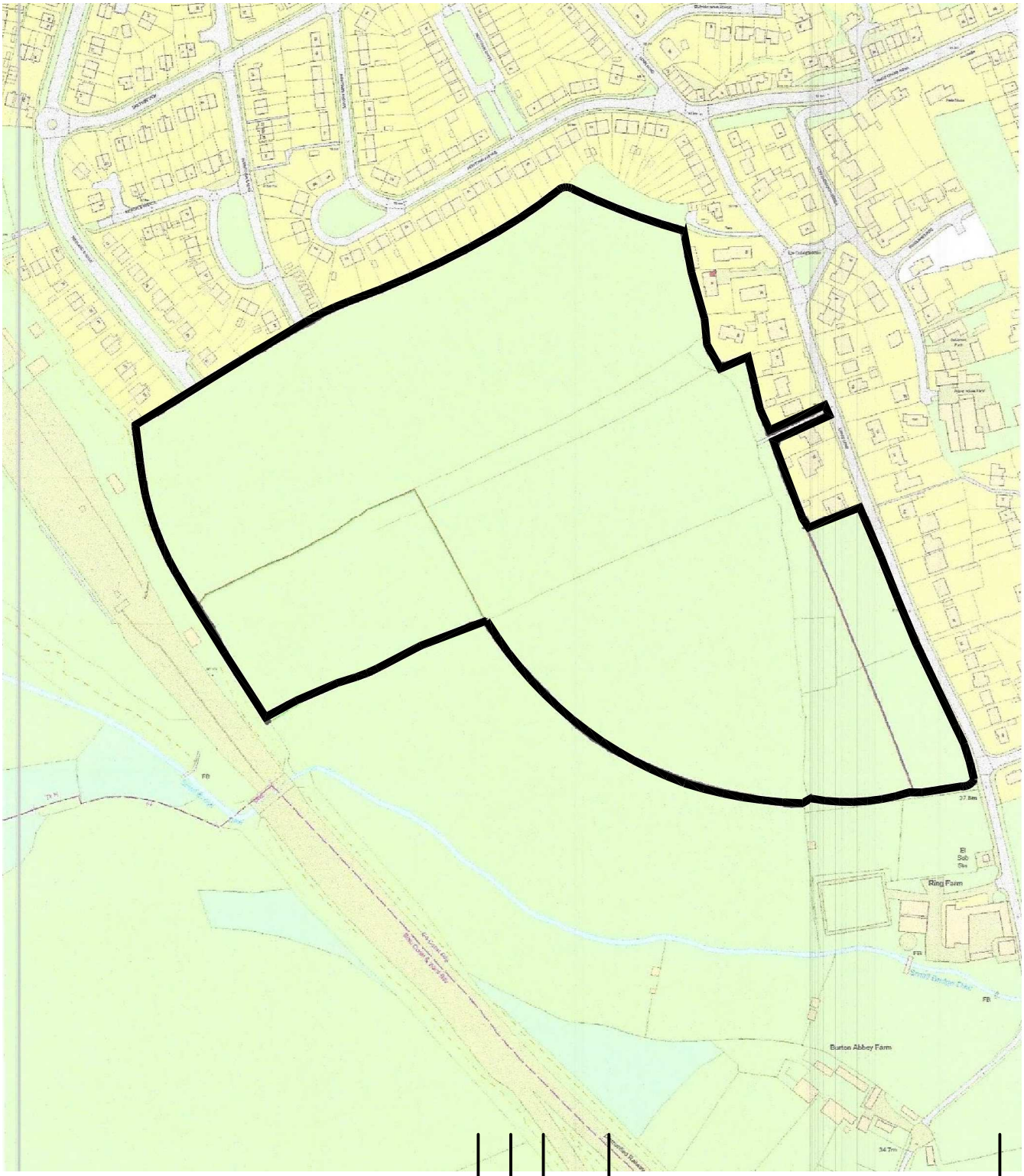
Project/Client

CARRS LANE, CUDWORTH.
BDW YORKSHIRE WEST

ARP ASSOCIATES
CHARTERED CONSULTING ENGINEERS
Northwest House • 5/6 Northwest Business Park
Servia Hill • Leeds LS6 2QH
Telephone : 0113 245 8498 • Fax : 0113 244 3864
E-Mail : leeds@arpassociates.co.uk

Scale: NTS @ A4	Drawn: MW
Date: SEPTEMBER 2014	Chk.: ARP
Drg. No.: 1048/69/FR.01	Rev: /

N



Rev	By	Date	Amendment	Chk
/			Issued for approval	

Title

SITE PLAN

Project/Client

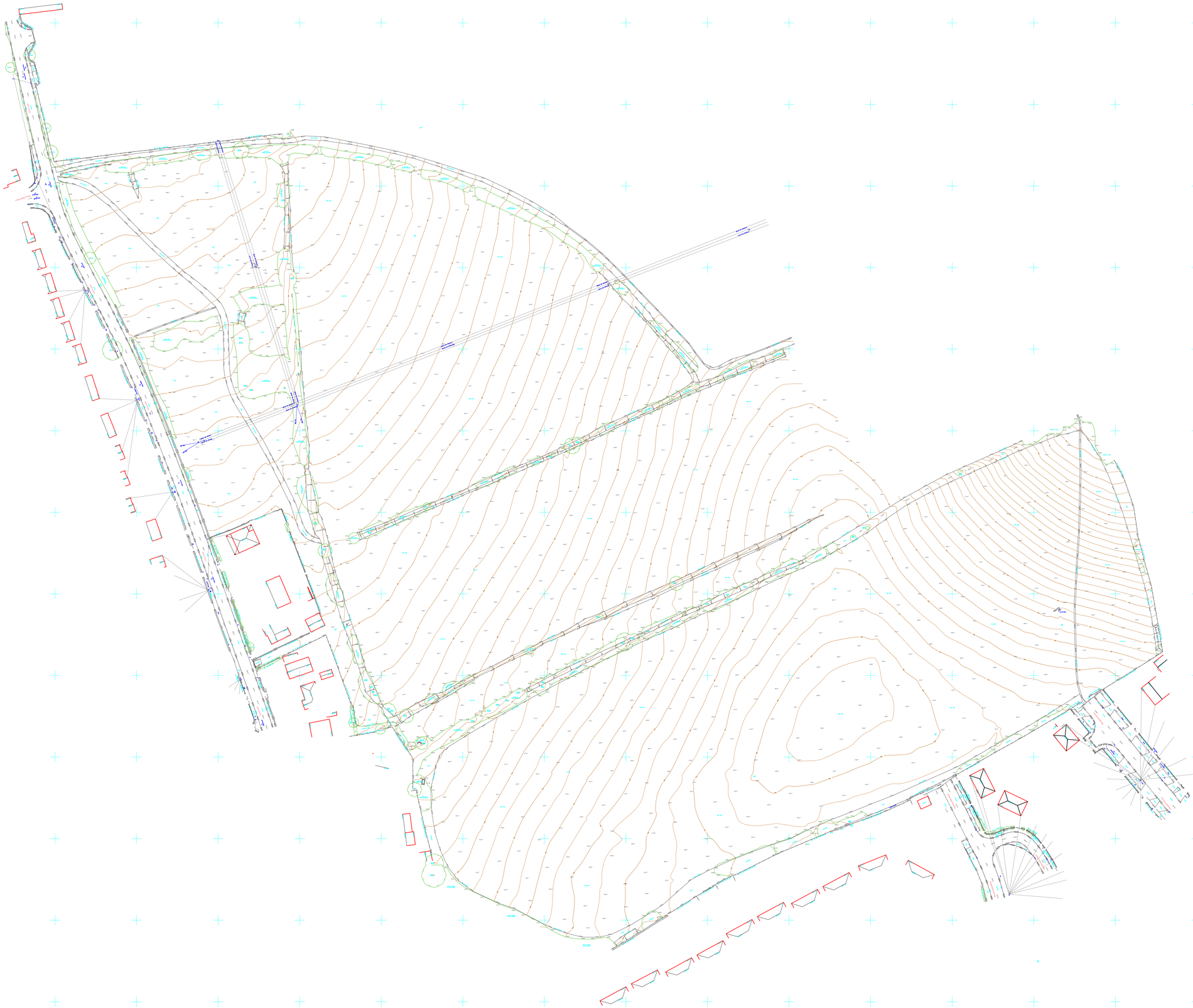
CARRS LANE, CUDWORTH.
BDW YORKSHIRE WEST

ARP ASSOCIATES
CHARTERED CONSULTING ENGINEERS
Northwest House • 5/6 Northwest Business Park
Servia Hill • Leeds LS6 2QH
Telephone : 0113 245 8498 • Fax : 0113 244 3864
E-Mail : leeds@arpassociates.co.uk

Scale: NTS @ A4	Drawn: MW
Date: SEPTEMBER 2014	Chk.: ARP
Drg. No.: 1048/69/FR.02	Rev: /

A P P E N D I X B

TOPOGRAPHICAL SURVEY



A P P E N D I X C

ENVIRONMENT AGENCY CONSULTATION

Allan Poyser

From: Andrew Radcliffe
Sent: Wednesday 3 September, 2014 2:13 pm
To: Allan Poyser
Subject: FW: Your Enquiry: RFI/2014/30305
Attachments: Standard_Notice sept 2012.pdf; flood risk & flood consequence assessments.pdf; Flood Map.pdf; Flood History Map.pdf

---

From: Riley, Stacey [mailto:stacey.riley@environment-agency.gov.uk]
Sent: Wednesday 3 September, 2014 2:02pm
To: Andrew Radcliffe
Subject: Your Enquiry: RFI/2014/30305

Our Ref: RFI/2014/30305

Your Ref: 1048/69/ARPmjs

Dear Alan

Provision of Product 3 for BDW Yorkshire West, Land off Carrs Lane, Cudworth Barnsley

Thank you for your request to use Environment Agency data, Product 3, in the development of the Proposed development of Land off Carrs Lane, Cudworth Barnsley. The information is attached.

If you have requested this information to help inform a development proposal, then you should note the detail in the attached advisory text on the use of Environment Agency Information for Flood Risk Assessments.

Supporting Information

The Flood Map

The Environment Agency provides the Flood Map (see enclosed extract).

The Flood Map provides information on flooding from rivers and the sea for England and Wales. The Flood Map also has information on flood defences and the areas benefiting from those flood defences.

The Flood Map shows the following:

1. Flood Zone 3 (dark blue area on the enclosed map): natural flood plain area that could be affected by flooding from rivers and/or the sea – not taking into account the presence of any flood defences
   - For flooding from rivers the map indicates the extent of a flood with a 1% (1 in 100) chance of happening each year;
   - For flooding from the sea the map shows the extent of a flood with a 0.5% (1 in 200) chance of happening each year.

2. Flood Zone 2 (light blue area): natural flood plain area that could be affected by flooding from rivers and/or the sea – not taking into account the presence of any flood defences. Flood Zone 2:

- indicates the extent of a flood with a 0.1% (1 in 1000) chance of happening each year.
- and/or indicates the greatest recorded historic flood, whichever is greater.

3. Flood defences built in the last five years to protect against river floods with a 1% (1 in 100) chance of happening each year, together with some natural or constructed entities which retain, store or channel water and which may protect against smaller floods.

4. Areas benefiting from flood defences - areas that benefit from the flood defences shown, in the event of a river flood with a 1% (1 in 100) chance of happening each year, or a flood from the sea with a 0.5% (1 in 200) chance of happening each year. If the defences were not there, these areas would flood.

Flood History

To the best of our knowledge there is no known flood history for this site. However, in close proximity to this location we do have some flood history available (see enclosed map).

Water causing flooding can come from different places, for example from rivers or the sea; surface water (i.e. rainwater flowing over or accumulating on the ground before it is able to enter rivers or the drainage system); overflowing or backing up of sewers or drainage systems which have been overwhelmed or from groundwater rising up from underground aquifers.

Currently the Environment Agency can only supply flood risk data relating to the risk of flooding from rivers or the sea. However you should be aware that in recent years, there has been an increase in flood damage caused by surface water flooding or drainage systems that have been overwhelmed. Local Authorities and/or Water Companies may be able to provide some knowledge on the risk of flooding from sources other than rivers and the sea and we are working with these organisations to improve knowledge and understanding of surface water flooding.

Assets

There are no flood defences helping to reduce flood risk in your area of interest.

Modelling

Modelling Information

We do not have any modelling information at this location.

Surface Water Map

In partnership with Local Authorities, we publish Risk of flooding from surface water maps. These were updated in December 2013. If you would like a copy of the map for your area, please contact us again.

LIDAR Data

Light Detection and Ranging (LIDAR) is an airborne mapping technique, which uses a laser to measure the distance between the aircraft and the ground. This technique results in the production of an accurate, cost-effective terrain model suitable for assessing flood risk and other environmental applications.

The Environment Agency owns two LIDAR systems, which are installed in a survey aircraft along with its other operational remote sensing instruments.