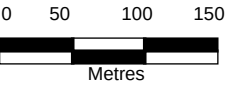
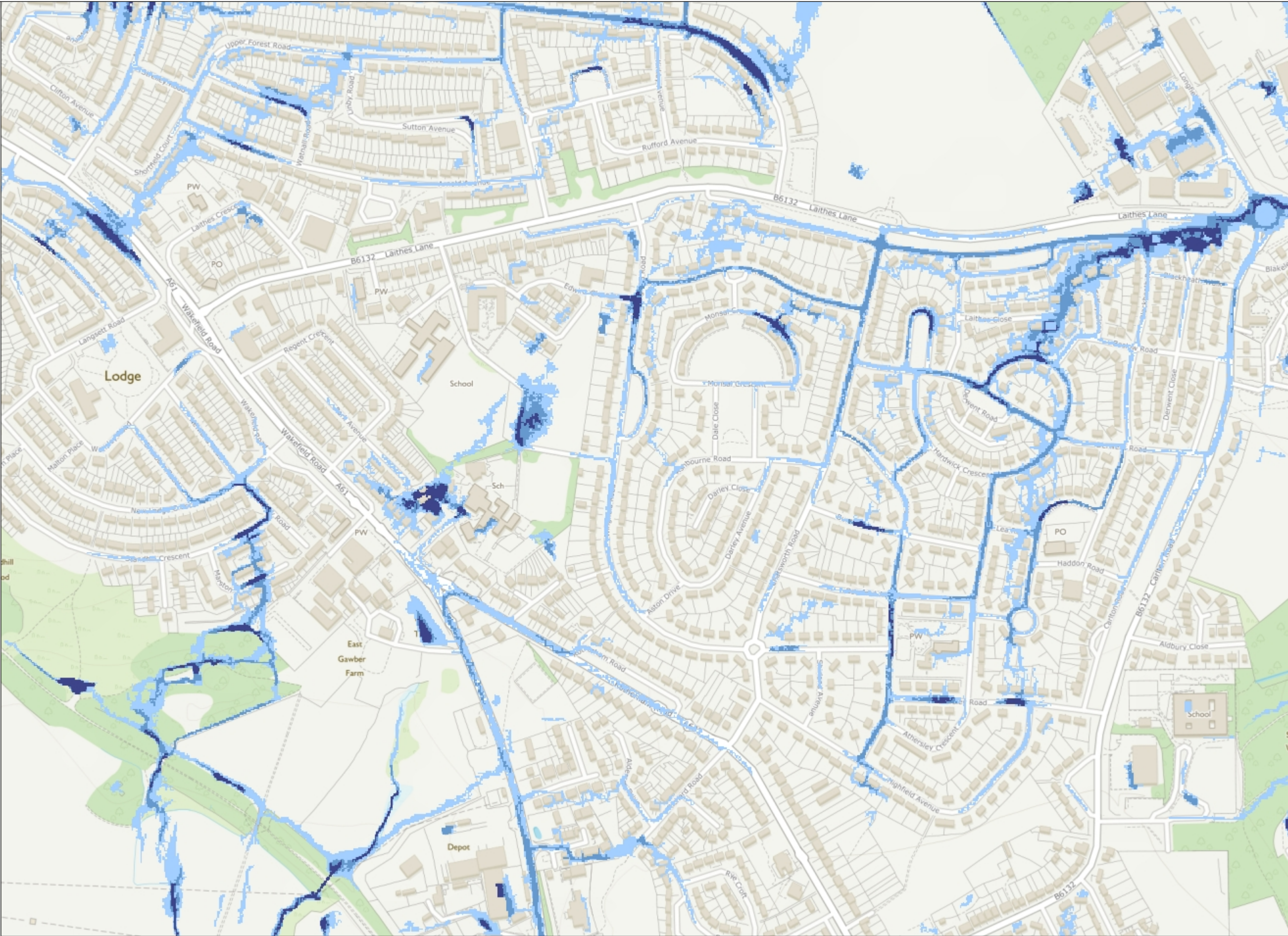
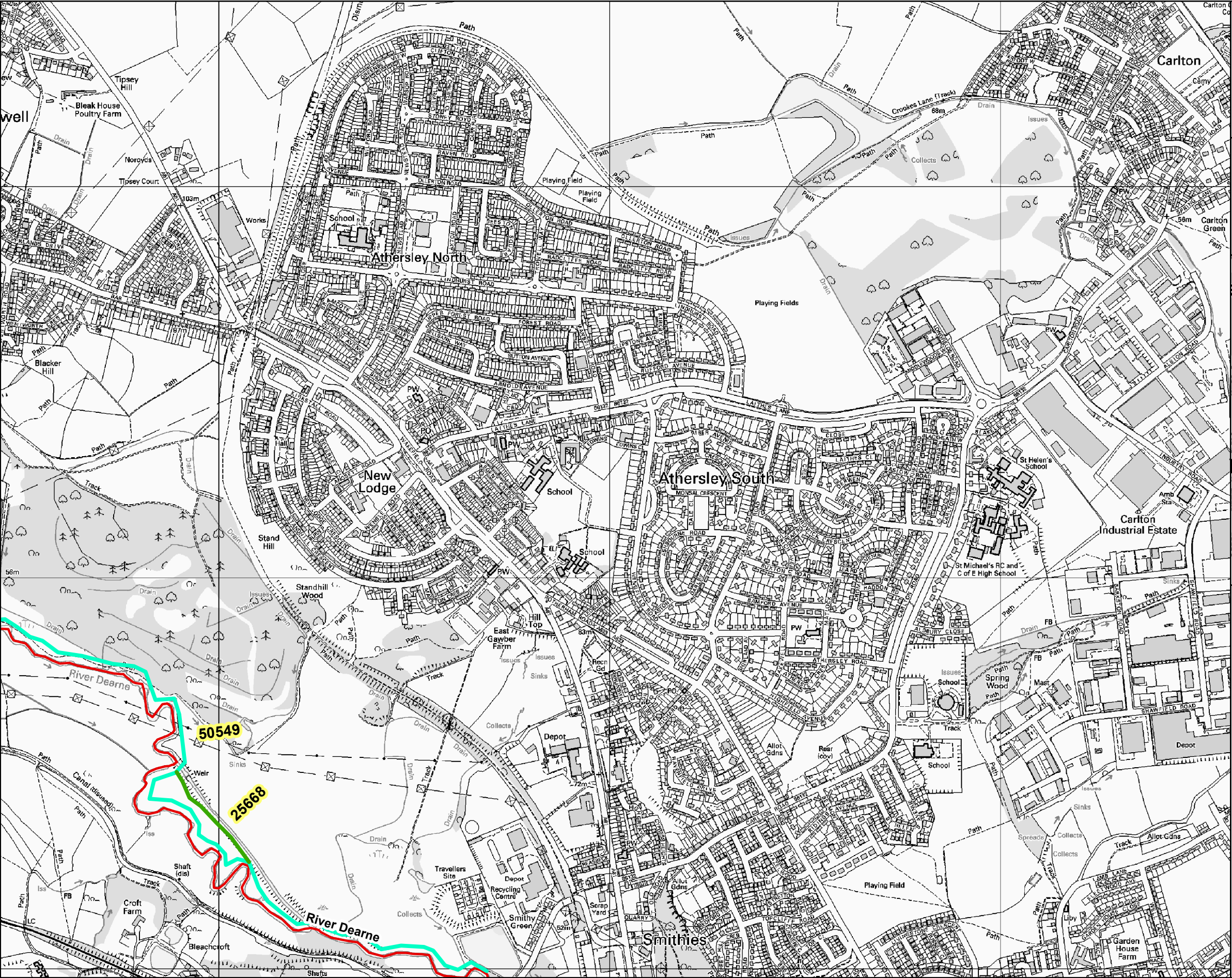


- Legend
- Flood Extent 1 in 30
 - Flood Extent 1 in 100
 - Flood Extent 1 in 1000





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Scale: 1:10,000

when reproduced @ A3



LEGEND

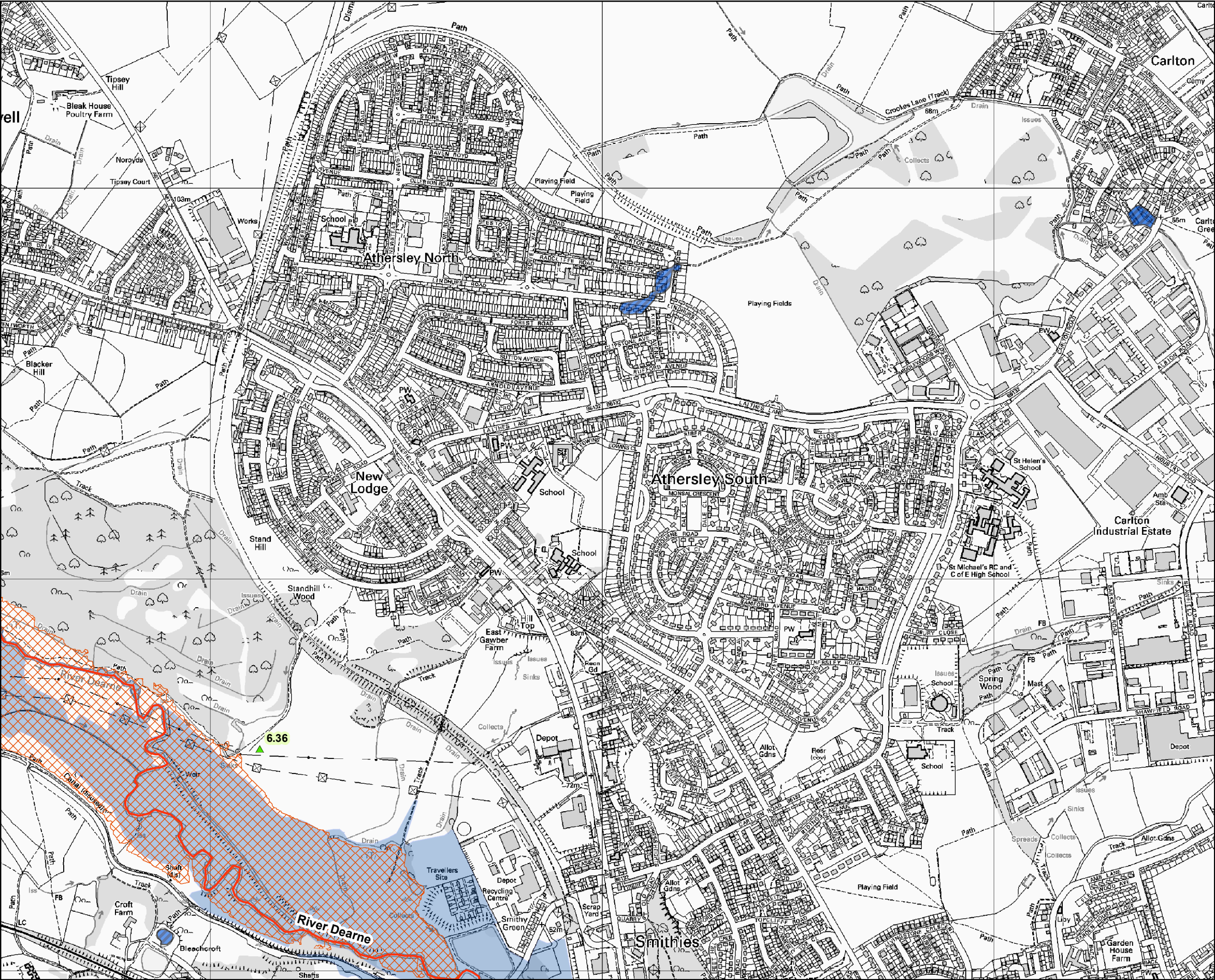
Main River

Assets

25668

50549

RFI No: 61765 Asset Information									
Asset ID	Asset Type	Asset Subtype	Maintainer	Description	Bank	Design Standard of Protection (yrs)	Actual Downstream Crest Level (mAOD)	Actual Upstream Crest Level (mAOD)	Actual Condition Rating
50549	Defence	High Ground	Private	Natural Ground	Left				2
25668	Defence	Embankment	Private	Embankment	Right		45.44	47.91	3



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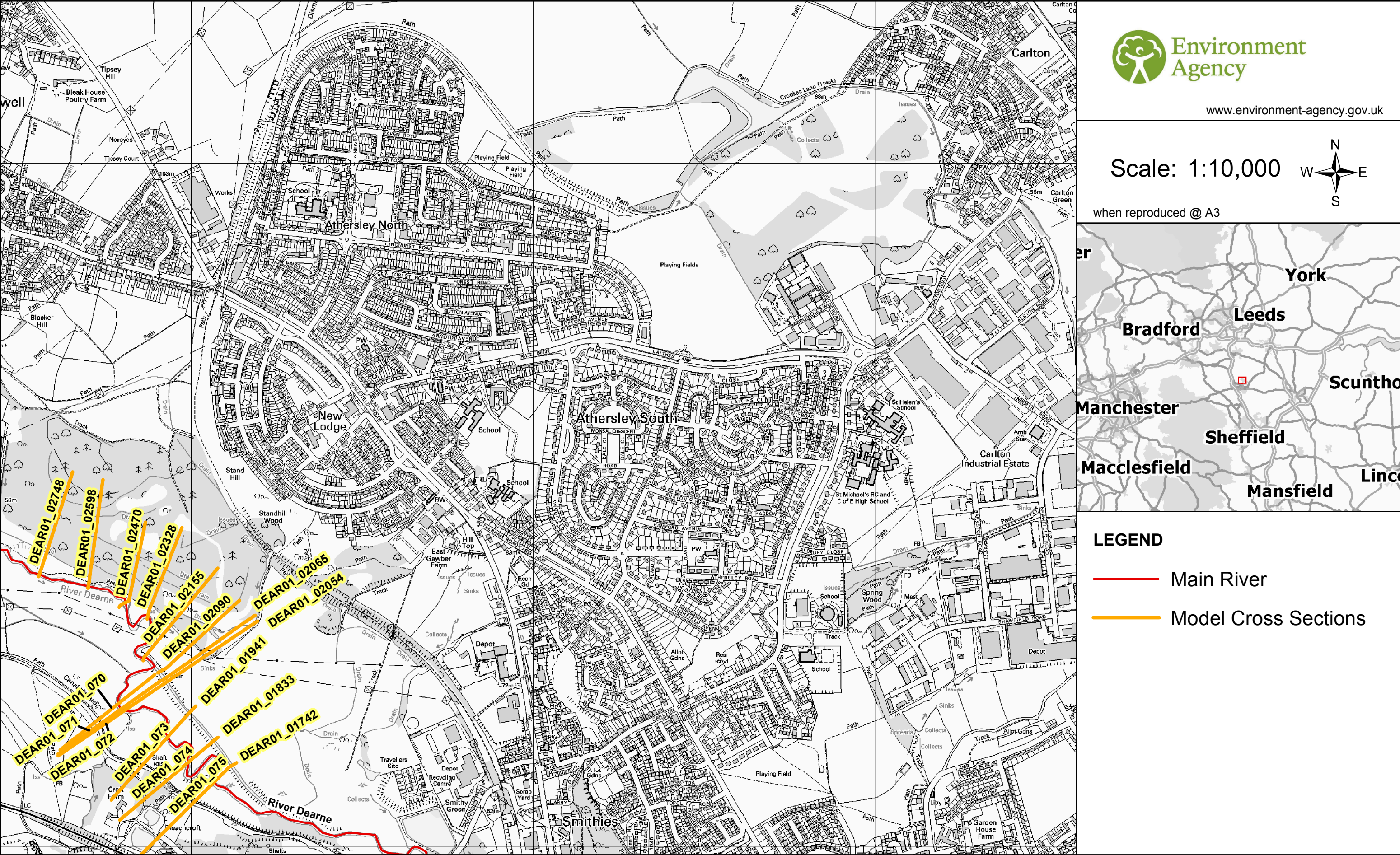
Historical Flood Extents and Levels

LEGEND

- Main River
- June 2007 Flood Level (m)
- Autumn 2000 Flood Event Flood Extent
- 2007 Flood Events Flood Extent
- 2007 Flood Event Surface Water Flood Extent

RFI 61765 Flood History Information

Name	Comments	Start Date	End Date	Flood Source	Flood Cause	Data Source
June 2007 Surface Water Flooding Yorkshire	Surface water flooding recorded from Aerial	15/06/2007	25/06/2007	Other	Unknown	Aerial Photograph
June 2007 Flood Event (Ridings Area)	Fluvial flooding River Dearne, River Dove, Small Bridge Dike	25/06/2007	26/06/2007	Unknown	Unknown	Aerial Photograph
Autumn 2000	start and end date do not relate to dates of flooding.	01/10/2000	30/11/2000	Main River	Unknown	Other



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Main River

Model Cross Sections

2010 Upper Dearne Model Results - RFI 61765

NodePointName	Return Period															
	5		10		25		50		75		100		100+CC		1000	
	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)	Level (mAOD)	Flow (m^3/s)
DEAR01_02748	48.87	38.91	48.96	42.34	49.14	48.64	49.27	53.43	49.32	55.02	49.35	56.21	49.4	57.85	49.48	61.58
DEAR01_02598	48.02	39.15	48.11	42.61	48.27	48.92	48.39	53.76	48.42	55.4	48.45	56.63	48.49	58.34	48.65	62.13
DEAR01_02470	47.83	39.36	47.94	42.85	48.13	49.15	48.26	54.05	48.3	55.73	48.33	56.99	48.38	58.79	48.58	62.87
DEAR01_02328	47.43	39.59	47.54	43.12	47.71	49.31	47.84	53.86	47.87	55.38	47.9	56.5	47.96	58.06	48.27	60.67
DEAR01_02155	46.82	39.86	46.89	43.45	47.02	49.63	47.13	54.23	47.2	55.8	47.29	56.96	47.47	58.63	48.05	61.95
DEAR01_02090	46.68	39.97	46.74	43.57	46.83	49.74	46.92	54.37	47	55.95	47.09	57.12	47.3	58.83	47.99	62.4
DEAR01_02065	46.64	40.01	46.69	43.61	46.79	49.78	46.88	54.42	46.97	56.01	47.07	57.18	47.29	58.9	47.99	62.56
DEAR01_02054	46.55	40.02	46.59	43.63	46.67	49.8	46.77	54.44	46.86	56.03	46.98	57.2	47.23	58.88	47.98	62.56
DEAR01_01941	46.21	33.14	46.29	35.4	46.53	37.52	46.74	38.53	46.86	39.05	46.99	39.71	47.23	42.59	47.97	50.7
DEAR01_01833	46.14	26.59	46.29	26.94	46.54	27.32	46.75	27.76	46.87	28.02	46.99	28.23	47.23	30.21	47.97	35.27
DEAR01_01742	46.15	16.06	46.29	16.36	46.55	16.77	46.75	17.87	46.87	18.7	47	19.58	47.23	21.53	47.97	25.42
DEAR01_070	46.17	5.15	46.31	7.34	46.57	12.49	46.78	18.6	46.89	23.73	47.02	30.81	47.26	46.06	47.99	107.74
DEAR01_071	46.17	5.15	46.31	7.35	46.57	12.48	46.78	18.58	46.89	23.7	47.02	30.79	47.26	46.04	47.99	106.6
DEAR01_072	46.17	5.15	46.31	7.35	46.57	12.48	46.77	18.57	46.89	23.69	47.02	30.78	47.25	46.1	47.99	105.95
DEAR01_073	46.16	12.07	46.3	15.82	46.56	25.28	46.76	35.85	46.88	41.68	47	48.68	47.24	61.82	47.97	120.06
DEAR01_074	46.16	17.72	46.3	21.33	46.55	26.43	46.76	34.04	46.87	38.42	47	43.81	47.24	54.1	47.97	95.58
DEAR01_075	46.16	19.11	46.3	20.19	46.55	21.91	46.76	26.62	46.87	29.44	47	32.98	47.24	39.83	47.97	68.01

APPENDIX E

WATER AUTHORITY CONSULTATION



YorkshireWater

Mr D Griffiths
Arp Associates
Unit 5/6 Northwest Business Pk
1ST FLR Servia Hill
Woodhouse
Leeds
LS6 2QH

Yorkshire Water Services
Developer Services
Sewerage Technical Team
PO BOX 52
Bradford
BD3 7AY

Tel: 0345 120 8482
Fax: (01274) 372 834

Your Ref: ARP013/ 1315/01
Our Ref: T016765

Email:
Technical.Sewerage@yorkshirewater.co.uk

For telephone enquiries ring:
Chris Roberts on 0345 120 8482

10th October 2017

Dear Mr Griffiths,

Catherines Walk Barnsley S71 3BS - Pre Planning Sewerage Enquiry On R721829

Thank you for your recent enquiry. Our charge of £153.00 (plus VAT) will be added to your account with us, reference ARP013. You will receive an invoice for your account in due course.

Please find enclosed a complimentary extract from the Statutory Sewer Map which indicates the recorded position of the public sewers. Please note that as of October 2011 and the private to public sewer transfer, there are many uncharted Yorkshire Water assets currently not shown on our records. The following comments reflect our view, with regard to the public sewer network only, based on a 'desk top' study of the site and are valid for a maximum period of twelve months.

Existing Infrastructure

There is a 300 mm diameter public combined water sewer recorded close to the site. No buildings, or other obstructions, are to be erected within 3 (three) metres, nor trees planted within 5 (five) metres of this public sewer. It may not be acceptable to raise or lower ground levels over the sewer, nor to restrict access to the manholes on the sewer.

There is a 600 mm diameter public combined water sewer recorded close to the site. No buildings, or other obstructions, are to be erected within 3.5 (three point five) metres, nor trees planted within 5 (five) metres of this public sewer. It may not be acceptable to raise or lower ground levels over the sewer, nor to restrict access to the manholes on the sewer.

If you wish to have this sewer diverted under Section 185 of the Water Industry Act 1991 an application should be made in writing. To discuss this matter, please telephone 0345 120 84 82.

Foul Water

Development of the site should take place with separate systems for foul and surface water drainage. The separate systems should extend to the points of discharge to be agreed.

Foul water domestic waste should discharge to the 600 mm diameter public combined sewer recorded to the west of the site.



Surface Water

The developer's attention is drawn to Requirement H3 of the Building Regulations 2000. This establishes a preferred hierarchy for surface water disposal. Consideration should firstly be given to discharge to soakaway, infiltration system and watercourse in that priority order.

Sustainable Drainage Systems (SuDS), for example the use of soakaways and/or permeable hardstanding etc, may be a suitable solution for surface water disposal appropriate in this situation. You are advised to seek comments on the suitability of SuDS in this instance from the appropriate authorities.

As the proposal site is currently undeveloped no surface water is known to have previously discharged to the public sewer network

As such, the local public sewer network does not have capacity to accept any surface water from the proposed site. If SuDS are not viable, the developer is advised to contact the Environment Agency/local Land Drainage Authority/Internal Drainage Board with a view to establishing a suitable watercourse for discharge.

Please note further restrictions on surface water disposal from the site may be imposed by other parties. You are strongly advised to seek advice/comments from the Environment Agency/Land Drainage Authority/Internal Drainage Board, with regard to surface water disposal from the site.

Other Observations

Any new connection to an existing public sewer will require the prior approval of Yorkshire Water. You may obtain an application form from our website (www.yorkshirewater.com) or by telephoning 0345 120 84 82.

An off-site foul and surface water drain sewer may be required which may be provided by the developer and considered for adoption under Section 104 of the Water Industry Act 1991. Please telephone 0345 120 84 82 for advice on sewer adoptions. Alternatively, the developer may in certain circumstances be able to requisition off-site sewers under Section 98 of the Water Industry Act 1991 for which an application must be made in writing. For further information, please telephone 0345 120 84 82.

Prospectively adoptable sewers and pumping stations must be designed and constructed in accordance with the WRc publication "Sewers for Adoption - a design and construction guide for developers" 6th Edition as supplemented by Yorkshire Water's requirements, pursuant to an agreement under Section 104 of the Water Industry Act 1991. An application to enter into a Section 104 agreement must be made in writing prior to any works commencing on site. Please contact our Developer Services Team (telephone 0345 120 84 82) for further information.

The public sewer network is for domestic sewage purposes. This generally means foul water for domestic purposes and, where a suitable surface water or combined sewer is available, surface water from the roofs of buildings together with surface water from paved areas of land appurtenant to those buildings. Land and highway drainage have no automatic right of connection to the public sewer network. No land drainage to be connected/discharged to public sewer.

As a last resort, highway drainage may be accepted under certain circumstances. If it can be demonstrated, through satisfactory evidence, that SUDS are not a viable option, there are no watercourses or highway drains available and if capacity is available within the public sewer network, highway drainage discharges to the public sewer network may be permitted. In this event, the developer may be required to enter into a formal agreement with Yorkshire Water Services under Section 115 Water Industry Act 1991 to discharge non-domestic flows into the public sewer network.



YorkshireWater

All the above comments are based upon the information and records available at the present time. The information contained in this letter together with that shown on any extract from the Statutory Sewer Map that may be enclosed is believed to be correct and is supplied in good faith. Please note that capacity in the public sewer network is not reserved for specific future development. It is used up on a 'first come, first served' basis. You should visit the site and establish the line and level of any public sewers affecting your proposals before the commencement of any design work.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Chris Roberts'.

Chris Roberts
Sewerage Technician
Developer Services