

Yorkshire Water

Darton Sewage Treatment Works

Design, Access and Planning Statement

November 2012

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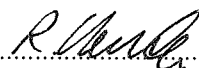
Report for

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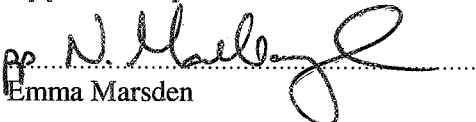
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Darton Sewage Treatment Works

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Document Revisions

No.	Details	Date

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1. Introduction

1.1 Purpose of this Report

This statement is provided in support of Yorkshire Water's planning application for the installation of 1no. Motor Control Centre (MCC) Kiosk (see Section 1.3) at Darton Sewage Treatment Works (STW). The STW is located at Ordnance Survey Grid Reference Easting 432539 – Northing 408885, to the north west of Barnsley. A location plan of the site is shown on **Drawing No 2012/R0444/02/3000/A** accompanying this planning application.

This statement forms part of the planning application and should be taken into consideration by the Local Planning Authority, statutory consultees and other bodies and individuals who have an interest in the proposed works.

1.2 Need for Development

The proposed MCC Kiosk forms part of an overall programme of upgrading works (see below) being carried out at Darton STW under Yorkshire Water's Asset Management Programme (AMP) 5 to ensure that the STW continues to operate efficiently and in accordance with its discharge consent.

1.3 Development Requiring Planning Permission

The following MCC Kiosk for which planning permission is sought will form part of the upgrade:

- 1 no. MCC Kiosk (approximately 10m x 3m with a height of approximately 3m) located adjacent to the proposed tertiary treatment system.

1.4 Development Benefitting from Permitted Development Rights

Yorkshire Water benefit from Permitted Development (PD) rights by virtue of the Town and Country Planning (General Permitted Development Order) (GDPO) 1995, Schedule 2, Part 16 for sewage treatment works.

Class A (e) of Part 16 of the GDPO allows for 'any other development in, on, over or under their operational land, other than the provision of a building but including the extension of a building'.

The following works are anticipated to form part of the overall programme of works:

- Upgrading of the primary treatment system,
- Upgrading of the secondary treatment system including the construction of 1no. new humus tank, approximately 19m in diameter, associated chambers, cabling and pipework,

- Provision of a new Alternating Double Filtration (ADF) treatment system providing tertiary treatment, including the construction of 4no. steel tanks with plastic media, approximately 8m in diameter and 7.5m in height, associated chambers, cabling and pipework. The existing ground levels will be raised by 1.5m to create a platform for the tertiary treatment plant,
- Construction of 3no. new pumping stations and pipework to link the secondary and tertiary treatment systems and enable discharge of the final effluent to the existing STW outfall,
- Construction of new internal access tracks providing access to the secondary and tertiary treatment systems, and
- Temporary construction compound.

2. The Development

2.1 Environmental Considerations

2.1.1 Ecology

An ecology survey of the site was undertaken on the 8th of May 2012 to note key habitats and the potential for the site to support protected, notable or invasive species. The survey concluded that there are no habitats of high ecological value that would present a constraint to the proposed works.

The habitats within the site are generally of a low quality comprising largely of amenity grassland, on which the MCC Kiosk is located, small buildings and structures and gravel or concrete hardstanding. No vegetation clearance (shrubs or trees) will be required to construct the proposed MCC Kiosk. However, recommendations for breeding birds will be followed for other elements of the programme of work.

The two lagoons on site are highly unlikely to support any great crested newts given these are settling ponds and contain very low quality water. Habitats outside of the site comprise of mainly agricultural land. Off-site ponds have the potential to support great crested newts but there is a lack of habitat connectivity between them and the site and more suitable terrestrial habitat for great crested newts exists to the south. Therefore, the ecology survey concluded further surveys for great crested newt were not required as there is low potential for this species to be present.

The amenity grassland on which the MCC Kiosk will be constructed does not provide suitable terrestrial habitat for great crested newts. However, as gravel areas may provide suitable refugia for amphibians a great crested newt method statement will be followed for other elements of the programme of work.

2.1.2 Flood Risk

Following consideration of the Environment Agency's Flood Maps it has been determined that the area of land on which the proposed MCC Kiosk is located does not fall within an area at risk of flooding. Consequently no flood risk assessment has been prepared to accompany this application. However, we are currently in discussions with the Environment Agency regarding the need for Flood Defence Consent for the overall programme of work, as although not located within Flood Zone 2 or 3 the Environment Agency Flood Maps show that the site is partially located within a flood storage area, as shown in Appendix A.

It is our understanding that the boundary of the flood storage area is approximate with the modelled flood level in the vicinity of the proposed kiosk ranging from 51.39m AOD to 51.92mAOD. Topographic survey of the site has shown that the existing ground level in the vicinity of the proposed kiosk ranges from 52.528 mAOD to 53.247 mAOD, which is at least 600mm above the modelled 1 in 1000-year flood level. It is also worth noting that the location of the proposed kiosk was unaffected by the Autumn 2000 flood, which flooded the immediate surrounding area as shown in Appendix A. It is considered that given the dimensions of the kiosk all surface water runoff from the installation can be managed by the provision of a gravel surround, which will provide storage and allow flows to infiltrate into the ground. As such, no

further surface water drainage system is required for the kiosk, and therefore no further consideration is given in this application to surface water runoff.

2.2 Planning Policy Considerations

2.2.1 The Development Plan

The Development Plan covering the site comprises the adopted Local Development Framework (LDF) Core Strategy (September 2011) for Barnsley Metropolitan Borough Council, any 'saved' policies from the Barnsley Metropolitan Borough Council Unitary Development Plan (UDP) (adopted December 2000) that have not yet been superseded by the Local Development Framework, and The Yorkshire and Humber Plan: Regional Spatial Strategy to 2026 (adopted May 2008).

Under the provisions of Planning and Compulsory Purchase Order Act 2004, Barnsley Metropolitan Borough Council is replacing their UDP with the emerging LDF. The LDF Core Strategy was adopted in September 2011 and so becomes the statutory development plan for Barnsley. Some 'saved' policies from the UDP will continue to be used in determining decisions over new development until they are replaced by LDF documents however none are relevant to this planning application. **Table 2.1** provides a list of designations and policies from the LDF Core Strategy which are relevant to the determination of the planning application.

As the policies within The Yorkshire and Humber Plan are at a strategic level they are not considered particularly relevant to this planning application. Furthermore, the Yorkshire and Humber Plan is due to be scrapped following the Government's stated intention to revoke the Regional Spatial Strategies so the policies in this plan would carry limited weight in any case.

Table 2.1 Designations and Policies Contained Within the Local Development Framework Core Strategy

Designation/ Policy	Description	Commentary
CSP 29 Design	Design Principles: High quality development will be expected, that respects, takes advantage of and enhances the distinctive features of Barnsley, including: • Topography, Green Infrastructure assets, important habitats, woodlands and other natural features; • Views and vistas to key buildings, landmarks, skylines and gateways; • Heritage, townscape and landscape character including the scale, layout, building styles and materials of the built form particularly in and around: - o Barnsley Town Centre; - o Penistone and the rural villages in the west of the Borough; - o Within and adjacent to Conservation Areas. Development should: • Contribute to place making and be of a high quality, that contributes to a healthy, safe and sustainable environment; • Help to transform the character of physical environments that have become run down and are lacking in distinctiveness; • Enable all people to gain access safely and conveniently, providing, in particular, for the needs of families and children, and of disabled people and older people; • Contribute towards creating attractive, sustainable and successful neighbourhoods; • Achieve a Building for Life assessment rating of 'good' or equivalent as a minimum, in developments of 10 or more dwellings	The proposed development is for the construction of 1 no. MCC Kiosk. The kiosk will be dark green in colour and will be constructed on amenity grassland within the boundaries of the exiting Darton Sewage Treatment Work on private land owned by Yorkshire Water. Furthermore, the proposed kiosk is a small structure in size within the context of the existing operational STW. For these reasons it is considered that the design is appropriate for its context.
CSP 34 Protection of Green Belt	The general extent of the Green Belt is shown on the Core Strategy Key Diagram. Its detailed boundaries will be shown on the Proposals Map which will accompany the Development Sites and Places DPD. In order to protect the countryside and open land around built up areas the extent of the Green Belt will be safeguarded and remain unchanged. The Green Belt boundaries will be subject to localised review only which may result in changes necessary to deliver the borough's distribution of new employment sites as set out in CSP12.	The kiosk is a small structure in size and will be constructed within the boundaries of the existing operational STW. The kiosk is a small structure in size and will be painted green to ensure that it blends into the surrounding area, causing minimal visual intrusion. There will therefore be no adverse impacts upon the green belt.

Designation/ Policy	Description	Commentary
CSP 36 Biodiversity and Geodiversity	Development will be expected to conserve and enhance the biodiversity and geological features of the borough by: 1. protecting and improving habitats, species, sites of ecological value and sites of geological value with particular regard to designated wildlife and geological sites of international, national and local significance, ancient woodland and species and habitats of principal importance identified in Section 74 of the Countryside and Rights of Way Act 2000 and in the Barnsley Biodiversity Action Plan; 2. maximising biodiversity and geodiversity opportunities in and around new developments; and 3. conserving and enhancing the form, local character and distinctiveness of the river corridors of the Dearne and Dove as natural floodplains and important strategic wildlife corridors. Development which may harm a biodiversity or geological feature will not be permitted unless effective mitigation and/or compensatory measures can be ensured.	It is not expected that there will be any adverse impacts upon habitats or protected species as the proposed kiosk is to be constructed on amenity grassland of low ecological value.

Source: Barnsley Local Development Framework Core Strategy

2.3 Design and Access

Yorkshire Water is proposing to construct a MCC kiosk, as illustrated on **Drawing Nos. 2012/R0444/02/3000/A, 2012/R0444/02/3001/A and 2012/R0444/02/3002/A**, which accompany this planning application. This will be a walk-in kiosk constructed on a raised concrete slab. It will be constructed of Glass Reinforced Plastic (GRP) and be dark green in colour in line with Yorkshire Water's asset standard. The kiosk will be accessed on foot from within the STW.

Subject to securing planning consent, it is expected that the construction works for the kiosk will be undertaken as part of the overall construction programme for the proposed works at Darton STW.

3. Conclusions

The proposed kiosk will help to ensure that Darton STW continues to operate efficiently and in accordance with its discharge consent, it is part of an overall programme of works to upgrade the STW under Yorkshire Water's Asset Management Programme 5 (AMP5).

Construction of the proposed MCC kiosk is not expected to have any impact upon protected species or habitats given that the amenity grassland habitat on which the proposed kiosk will be constructed is of low ecological value.

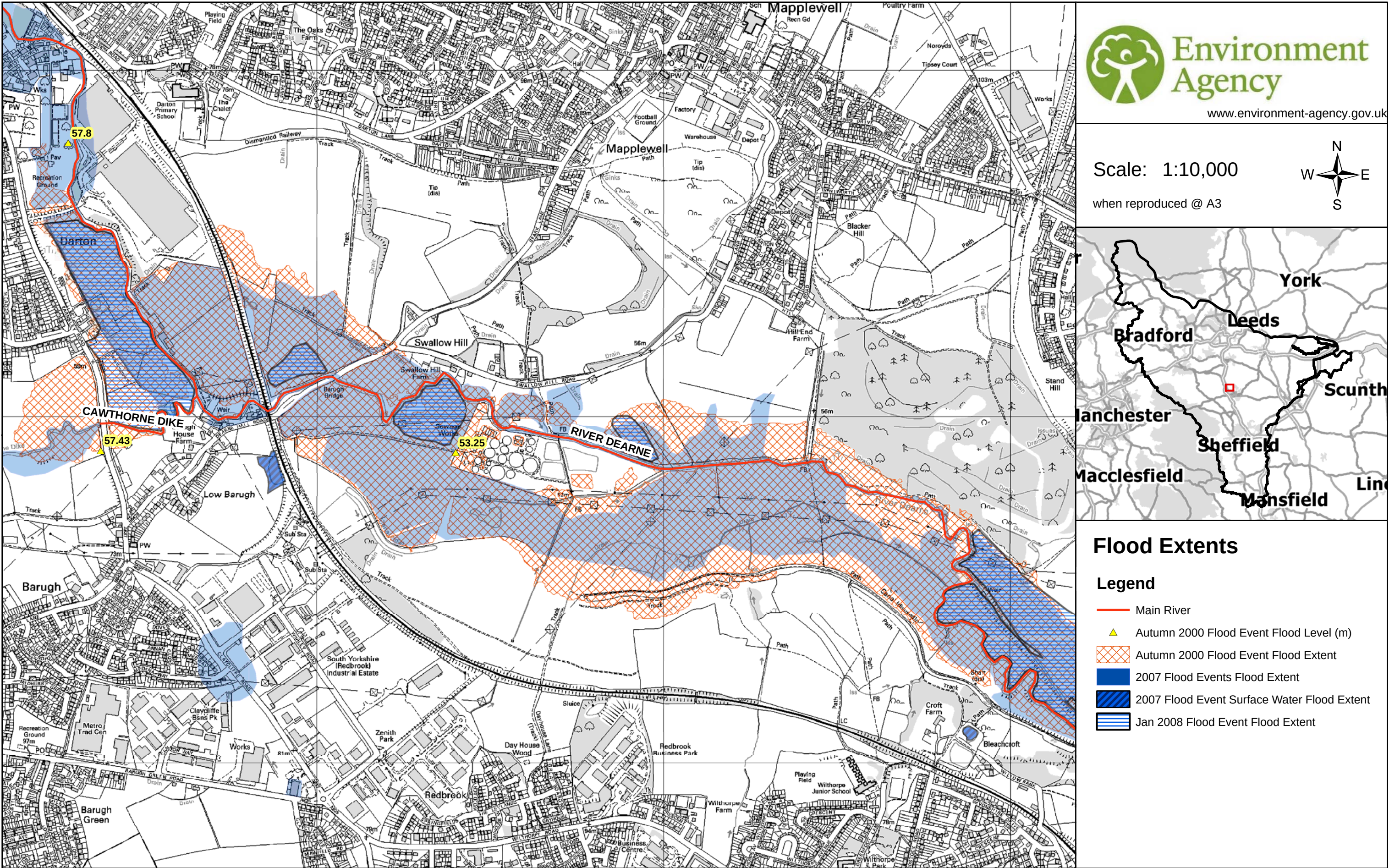
As the proposed MCC Kiosk will be constructed within the boundaries of the existing STW it is considered that its design is appropriate for its context. The MCC Kiosk will be painted dark green in accordance with Yorkshire Water's asset standard so as to ensure that it blends into the surroundings and causes minimal visual intrusion and avoids any adverse impacts on the green belt.

The kiosk is therefore considered to comply with Core Strategy Policies CSP29, CSP34 and CSP36. Accordingly this application is commended to Wakefield Council as the Waste Planning Authority.

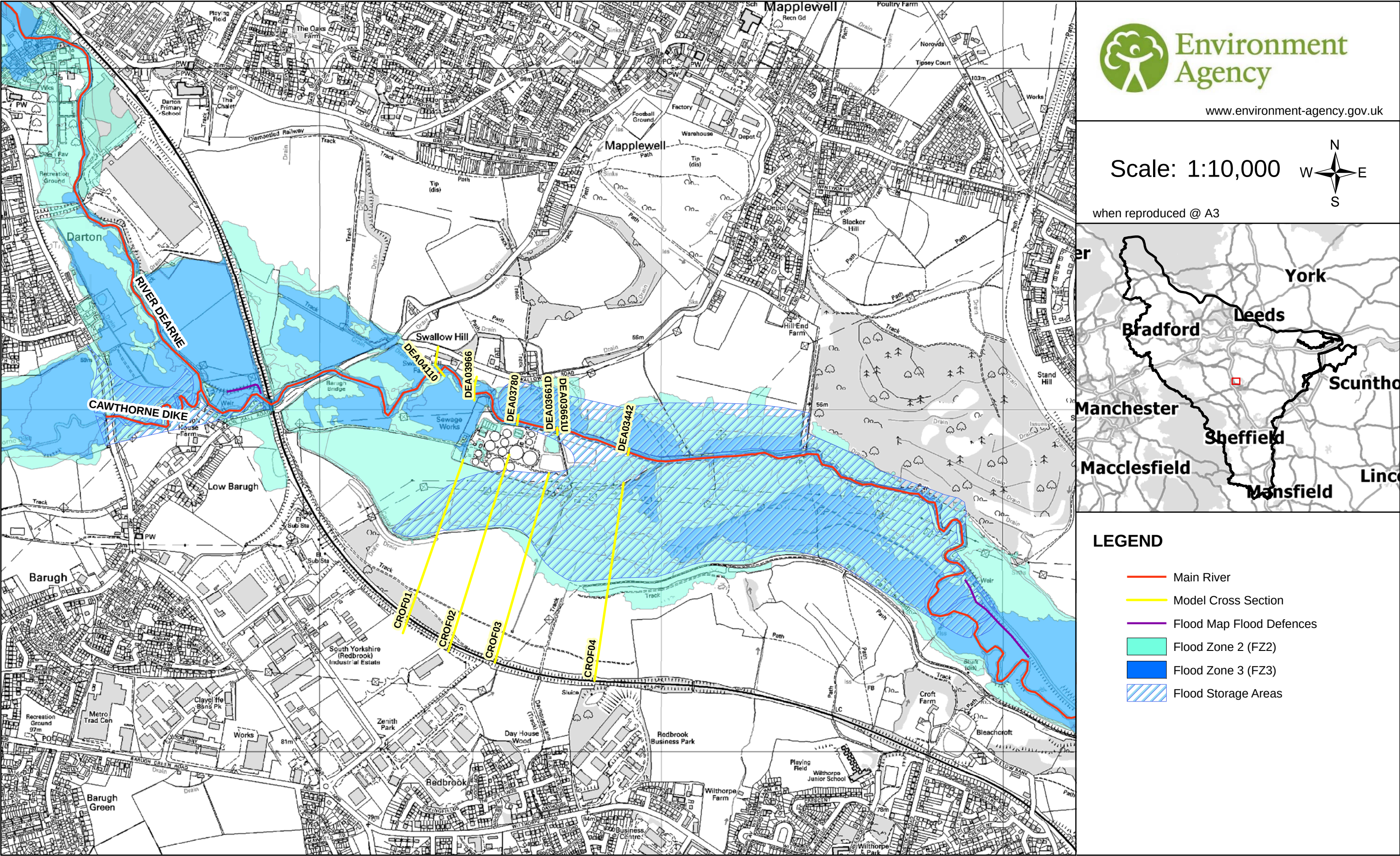
Appendix A

Flood Maps

Flood History Map for Darton STW - dated: 12/09/2012 [Ref: 23262]
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Flood Map and Model Cross Sections for Darton STW - Date Created:12/09/2012 [Ref: 23262]



Location	Label	Chainage (km)	5 yr		10 yr		25 yr		50 yr		75 yr		100 yr		1000 yr		100 yr + CC	
			Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)
	DEA05516	5.43	56.07	24.12	56.19	29.14	56.34	36.02	56.44	40.81	56.49	43.43	56.54	45.62	57.12	62.95	56.67	50.58
	DEA05359	5.27	56.06	24.14	56.18	29.16	56.34	36.04	56.45	40.76	56.51	43.22	56.57	45.21	57.22	57.59	56.73	49.37
	DEA05216U	5.13	55.75	23.13	55.82	26.49	55.96	30.38	56.07	32.79	56.16	33.76	56.26	34.19	57.20	35.23	56.53	35.26
	DEA05216D	5.13	55.75	23.13	55.82	26.49	55.96	30.38	56.07	32.79	56.15	33.76	56.25	34.19	57.13	35.23	56.47	35.26
	DEA05065	4.98	55.71	23.23	55.78	26.68	55.91	32.19	56.01	37.12	56.08	40.26	56.17	44.55	57.00	70.24	56.37	52.95
	DEA05032U	4.95	55.69	23.26	55.75	26.72	55.88	32.23	55.97	37.17	56.04	40.32	56.14	44.61	56.98	70.35	56.33	52.97
	DEA05032	4.95	55.69	41.01	55.75	46.21	55.88	55.72	55.97	62.80	56.04	67.38	56.14	73.45	56.98	115.99	56.33	85.34
Cawthorne Dyke Confluence	DEA05010U	4.93	55.58	41.04	55.61	46.23	55.66	55.75	55.69	62.83	55.70	67.42	55.71	73.49	56.65	116.05	55.72	85.39
	DEA05010D	4.93	55.58	41.04	55.61	46.23	55.66	55.75	55.69	62.83	55.70	67.42	55.71	73.49	56.47	116.05	55.72	85.39
	DEA04951	4.87	55.59	41.09	55.64	46.30	55.73	55.82	55.80	62.93	55.83	67.52	55.88	73.60	56.55	116.24	55.98	85.52
	DEA04944	4.87	54.35	41.09	54.52	46.30	54.89	55.82	55.21	62.93	55.36	67.52	55.52	73.60	56.48	116.24	55.81	85.52
	DEA04896	4.82	54.25	41.17	54.42	46.37	54.81	55.91	55.15	64.26	55.31	69.65	55.48	76.42	56.47	101.85	55.77	86.03
	DEA04812	4.73	53.95	41.30	54.11	46.55	54.46	58.61	54.76	69.84	54.92	76.32	55.09	84.46	56.09	150.71	55.40	101.12
	DEA04786U	4.71	53.99	41.34	54.16	46.59	54.52	58.66	54.83	69.90	54.98	76.37	55.16	84.54	56.13	150.87	55.46	101.21
	DEA04786D	4.71	53.95	41.34	54.11	46.59	54.47	58.66	54.77	69.90	54.92	76.37	55.09	84.54	55.98	150.87	55.37	101.21
	DEA04750	4.67	53.79	41.40	53.95	46.65	54.28	58.73	54.56	69.99	54.70	76.47	54.86	84.64	55.56	151.08	55.08	101.34
	DEA04662	4.58	53.49	41.53	53.64	46.79	53.97	58.89	54.23	70.19	54.35	76.71	54.48	84.86	54.90	141.54	54.65	100.40
	DEA04576	4.50	53.31	41.67	53.45	46.94	53.77	59.05	54.02	70.38	54.13	76.91	54.24	84.71	54.71	129.89	54.40	97.92
	DEA04561U	4.48	53.41	41.69	53.57	46.96	53.92	59.03	54.20	68.69	54.33	73.61	54.47	79.28	55.14	110.78	54.69	88.77
	DEA04561D	4.48	53.26	41.69	53.39	46.96	53.65	59.03	53.83	68.69	53.91	73.61	53.99	79.28	54.28	110.78	54.10	88.77
	DEA04430	4.35	52.85	41.90	53.01	47.18	53.32	59.27	53.52	68.73	53.62	73.09	53.72	77.76	54.11	93.37	53.85	84.79
	DEA04360	4.28	52.52	42.01	52.65	47.30	52.88	59.40	53.03	68.88	53.11	73.27	53.20	77.95	53.57	97.28	53.31	84.69
	DEA04334	4.26	52.66	42.04	52.81	47.34	53.08	59.44	53.25	69.14	53.35	74.16	53.44	79.86	53.85	107.41	53.57	88.47
	DEA04304	4.23	52.48	42.09	52.64	47.40	52.91	59.50	53.09	69.20	53.19	74.23	53.29	79.94	53.70	107.59	53.42	88.58
	DEA04110	4.03	52.27	42.24	52.44	47.58	52.71	59.66	52.88	70.54	52.97	77.38	53.05	85.16	53.41	121.57	53.15	97.27
	DEA03966	3.89	52.12	42.34	52.29	47.60	52.56	59.12	52.73	69.33	52.81	75.72	52.89	82.83	53.20	120.11	52.99	92.88
	DEA03780	3.70	51.87	41.93	52.07	45.42	52.38	50.84	52.57	54.78	52.66	57.23	52.74	59.68	53.01	83.24	52.84	64.88
	DEA03661U	3.58	51.57	42.72	51.74	47.89	52.07	53.94	52.34	54.15	52.48	54.14	52.61	54.03	53.05	53.90	52.76	53.94
	DEA03661D	3.58	51.09	42.72	51.24	47.89	51.58	53.94	51.89	54.15	52.06	54.14	52.22	54.03	52.72	53.90	52.41	53.94
	DEA03442	3.36	50.32	43.06	50.45	48.33	50.70	58.30	50.88	66.06	50.97	70.25	51.08	73.70	51.72	77.39	51.27	76.20
	DEA03313	3.24	49.77	40.17	49.89	44.90	50.11	54.31	50.27	61.62	50.31	65.89	50.33	70.15	50.41	88.62	50.36	76.41
	DEA03202	3.12	49.77	39.40	49.91	43.23	50.17	49.70	50.35	54.76	50.42	57.22	50.47	59.54	50.67	67.27	50.53	62.68
	DEA03034	2.96	49.42	39.66	49.56	43.56	49.83	50.85	50.07	53.93	50.15	54.59	50.22	55.22	50.47	57.57	50.30	56.07
	DEA02923U	2.92	49.24	40.65	49.34	45.46	49.54	55.37	49.67	63.60	49.72	66.53	49.75	68.82	49.88	78.53	49.80	71.99
	DEA02923D	2.92	49.24	40.65	49.34	45.46	49.54	55.37	49.67	63.60	49.72	66.53	49.75	68.82	49.88	78.53	49.80	71.99
	DEA02823	2.82	49.00	40.81	49.09	45.65	49.24	55.55	49.35	63.71	49.38	66.55	49.40	68.73	49.49	78.01	49.44	71.76
	DEA02748	2.75	48.87	38.91	48.96	42.34	49.14	48.64	49.27	53.43	49.32	55.02	49.35	56.21	49.48	61.58	49.40	57.85
	DEA02598	2.60	48.02	39.15	48.11	42.61	48.27	48.92	48.39	53.76	48.42	55.40	48.45	56.63	48.65	62.13	48.49	58.34
	DEA02470	2.47	47.83	39.36	47.94	42.85	48.13	49.15	48.26	54.05	48.30	55.73	48.33	56.99	48.58	62.87	48.38	58.79
	DEA02328	2.33	47.43	39.59	47.54	43.12	47.71	49.31	47.84	53.86	47.87	55.38	47.90	56.50	48.27	60.67	47.96	58.06
	DEA02240	2.24	46.83	39.72	46.89	43.28	47.00	49.47	47.09	54.05	47.15	55.60	47.23	56.74	47.97	61.34	47.40	58.36
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	DEA02090	2.09	46.68	39.97	46.74	43.57	46.83	49.74	46.92	54.37	47.00	55.95	47.09	57.12	47.99	62.40	47.30	58.83
	DEA02067	2.07	46.58	40.01	46.63	43.61	46.71	49.78	46.81	54.42	46.90	56.01	47.01	57.18	47.98	62.56	47.24	58.90
	DEA02065	2.07	46.64	40.01	46.69	43.61	46.79	49.78	46.88	54.42	46.97	56.01	47.07	57.18	47.99	62.56	47.29	58.90
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	DEA01941	1.94	46.21	33.14	46.29	35.40	46.53	37.52	46.74	38.53	46.86	39.05	46.99	39.71	47.97	50.70	47.23	42.59
	DEA01833	1.83	46.14	26.59	46.29	26.94	46.54	27.32	46.75	27.76	46.87	28.02	46.99	28.23	47.97	35.27	47.23	30.21
	DEA01742	1.74	46.15	16.06	46.29	16.36	46.55	16.77	46.75	17.87	46.87	18.70	47.00	19.58	47.97	25.42	47.23	21.53
	DEA01572	1.57	46.13	18.64	46.28	18.62	46.54	18.60	46.75	18.61	46.86	18.62	46.99	18.63	47.96	22.05	47.22	18.57
	DEA01541	1.54	46.14	18.64	46.28	18.62	46.54	18.60	46.75	18.60	46.87	18.62	46.99	18.62	47.96	27.93	47.23	20.65
	DEA01494	1.49	46.13	18.62	46.28	18.59	46.54	18.56	46.75	18.57	46.86	18.59	46.99	18.59	47.96	23.95	47.23	18.53
	DEA01322	1.32	46.13	19.57	46.28	19.58	46.54	19.61	46.75	19.62	46.86	19.64	46.99	19.66	47.96	19.69	47.23	19.62
	DEA01253	1.25	46.13	19.47	46.28	19.49	46.54	19.51	46.75	19.52	46.86	19.54	46.99	19.55	47.96	19.59	47.23	19.54
	DEA01141	1.14	46.08	22.77	46.25	22.65	46.52	22.57	46.74	22.55	46.86	22.56	46.98	22.57	47.96	22.82	47.23	22.67
	DEA01001	1.00	45.73	45.35	45.87	50.96	46.11	62.28	46.30	72.29	46.42	78.08	46.54	85.06	47.56	148.07	46.79	99.40
	DEA00984U	0.98	45.70	45.38	45.82	50.99	46.01	62.60	46.16	73.70	46.24	80.47	46.32	88.78	46.89	165.98	46.47	105.89
	DEA00984D	0.98	45.70	45.38	45.82	50.99	46.01	62.60	46.16	73.70	46.23	80.47	46.32	88.78	46.88	165.98	46.47	105.89
	DEA00965	0.97	45.66	45.40	45.78	51.01	45.96	62.63	46.10	73.73	46.17	80.51	46.24	88.83	46.66	166.07	46.37	105.94

Location	Label	Chainage (km)	5 yr		10 yr		25 yr		50 yr		75 yr		100 yr		1000 yr		100 yr + CC	
			Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)	Max Stage (mAOD)	Max Flow (m ³ s ⁻¹)
Sewage Treatment Works	DEA04304Rd		50.63	0.00	51.03	0.00	52.15	0.00	52.81	0.00	52.91	0.01	52.98	0.16	53.38	11.79	53.08	1.03
	DEA03966Rd		49.06	0.00	49.06	0.00	49.06	0.00	51.13	0.04	52.02	0.28	52.19	0.77	52.66	7.65	52.35	1.83
	DEA03900Ld		51.67	0.70	51.89	2.53	52.18	8.63	52.40	14.96	52.52	18.72	52.63	22.90	52.98	29.71	52.76	26.82
	DEA03600Ld		50.17	0.00	50.34	0.00	50.60	0.00	50.77	0.00	50.86	0.21	50.95	1.38	51.49	25.80	51.11	6.10
	DEA03300Ld		49.79	0.94	49.90	1.88	50.04	4.80	50.19	6.67	50.25	7.80	50.31	8.84	50.56	13.11	50.39	10.30
	FP004d		48.00	0.00	48.00	0.00	48.00	0.00	48.00	0.00	48.00	0.00	48.00	0.00	48.00	0.00	48.00	0.00
	FP008u		50.53	0.00	50.53	0.00	50.53	0.00	51.07	0.00	51.65	0.00	52.06	0.00	53.38	18.19	53.00	4.48
	FP010d		51.68	0.00	51.68	0.00	51.68	0.00	51.68	0.00	51.70	0.00	52.74	0.00	53.44	0.00	53.01	0.00
	FP019u		53.60	0.00	53.60	0.00	53.60	0.00	53.60	0.00	53.60	0.00	53.60	0.00	53.60	0.00	53.60	0.00
	FP005cd		65.45	0.00	65.47	0.00	65.65	0.00	65.84	0.01	65.99	0.01	66.08	0.01	66.75	0.10	66.32	0.01
Darton	DEA12903Rd		85.07	0.00	85.15	0.00	85.22	0.17	85.30	0.67	85.35	1.21	85.40	1.77	85.99	13.22	85.59	4.43
	DEA12903Ld		84.53	0.00	84.63	0.00	84.75	0.00	84.86	0.00	84.93	0.00	84.99	0.01	85.55	4.87	85.14	0.63
	DEA12706Rd		84.53	0.31	84.61	0.65	84.72	1.20	84.84	1.86	84.92	2.52	84.98	3.23	85.55	6.46	85.14	5.14
	DEA12521DLd		83.93	0.49	84.08	1.08	84.27	1.76	84.39	2.54	84.46	3.22	84.49	3.75	84.76	9.58	84.59	5.43
	DEA12351mcLd		83.93	2.00	84.07	6.03	84.26	9.54	84.37	10.00	84.43	10.11	84.46	10.17	84.73	10.46	84.56	10.29
	DEA12157mcLd		83.81	0.13	83.97	0.13	84.18	0.14	84.29	0.15	84.35	0.14	84.39	0.16	84.64	0.17	84.49	0.15
	DEA09574Ld		69.84	0.00	69.84	0.00	69.84	0.00	69.84	0.00	69.84	0.00	69.84	0.00	69.84	0.00	69.84	0.00
	DEA09574Rd		68.16	0.00	68.16	0.00	68.16	0.00	68.16	0.00	68.16	0.00	68.16	0.00	70.64	1.94	68.16	0.00
	DEA08271Rd		61.01	0.00	62.12	0.00	62.25	0.00	62.36	0.00	62.38	0.00	62.41	0.00	62.77	0.00	62.48	0.00
	DEA08099Ld		62.83	1.33	63.02	1.48	63.20	1.56	63.37	1.82	63.45	1.74	63.53	1.74	64.31	4.08	63.74	1.92
Darton	DEA07216Ld		59.93	0.00	59.93	0.00	61.03	0.10	61.46	0.45	61.55	0.63	61.63	0.77	62.38	1.37	61.86	1.01
	DEA07146Rd		60.64	0.98	60.96	8.80	61.23	22.74	61.41	34.20	61.49	39.97	61.57	45.71	62.29	106.83	61.80	62.25
	DEA06573Rd		59.93	0.27	60.28	0.37	60.46	0.40	60.62	1.02	60.70	1.85	60.76	2.74	61.36	9.37	61.03	6.15
	DEA06400Rd		59.57	0.07	60.08	0.23	60.31	0.71	60.52	0.81	60.61	0.83	60.69	0.82	61.34	0.93	61.00	0.87
	DEA09790Rd		69.61	0.00	69.61	0.00	69.61	0.00	69.61	0.00	69.61	0.00	69.61	0.00	71.63	5.06	69.61	0.00
	DEA09397Ld		68.64	0.00	68.64	0.00	68.64	0.00	68.64	0.00	68.64	0.00	68.64	0.00	68.64	0.00	68.64	0.00
	DEA13373Rd		86.32	0.00	86.32	0.00	86.32	0.00	86.32	0.00	86.32	0.00	86.32	0.00	86.32	0.00	86.32	0.00
	DEA13279DLd		86.03	0.00	86.03	0.00	86.03	0.00	86.03	0.00	86.03	0.00	86.36	0.00	86.92	0.52	86.56	0.00
	DEA13494Rd		89.80	0.00	89.80	0.00	89.80	0.00	89.80	0.00	89.80	0.00	89.80	0.00	89.80	0.00	89.80	0.00
	DEA13714Ld		88.02	0.00	88.02	0.00	88.02	0.00	88.02	0.00	88.02	0.00	88.02	0.00	88.63	0.00	88.02	0.00
Darton	DEA14863Rd		95.52	0.00	95.52	0.00	95.52	0.00	95.52	0.00	95.52	0.00	95.81	0.00	96.76	0.26	96.49	0.00
	DEA15400Ld		99.39	0.00	99.39	0.00	99.39	0.00	99.39	0.00	99.39	0.00	99.39	0.00	100.81	0.00	99.39	0.00
	DEA19698SD		150.96	0.00	150.96	0.00	150.96	0.00	150.96	0.00	150.96	0.00	150.96	0.00	150.96	0.00	150.96	0.00
	Cricket ground above culvert		142.21	0.00	142.21	0.00	142.21	0.00	142.21	0.00	142.21	0.00	142.21	0.00	142.68	1.87	142.26	0.02
	Mill over culvert		162.01	0.00	162.08	0.15	162.12	0.54	162.15	0.95	162.17	1.26	162.18	1.51	162.32	4.91	162.22	2.22
Floodplain Cross-sections																		
Right Bank floodplain on the River Dearne upstream of Croft Farm	CROF01		51.23	0.10	51.23	0.10	51.23	0.10	51.23	0.10	51.23	0.10	51.23	0.10	52.78	0.10	52.36	0.10
	CROF02		50.44	0.10	50.44	0.10	50.44	0.10	50.44	0.10	50.44	0.10	50.46	0.10	51.92	18.29	51.62	4.58
	CROF03		49.94	0.10	49.94	0.10	49.94	0.10	49.94	0.10	49.94	0.10	50.01	0.10	51.39	18.29	50.95	4.58
	CROF04		48.95	0.10	48.97	0.10	49.02	0.10	49.07	0.10	49.10	0.10	49.26	0.16	50.12	23.84	49.92	4.90
	CROF05		48.25	3.19	48.31	3.92	48.36	5.47	48.40	6.86	48.44	7.71	48.54	10.04	49.09	45.46	48.69	17.18
	CROF06		47.92	3.19	47.93	3.92	48.05	5.47	48.11	7.28	48.20	8.81	48.33	12.02	48.96	54.35	48.50	20.67
	CROF07		47.59	3.21	47.70	3.92	47.88	5.47	48.00	7.55	48.11	10.27	48.25	14.93	48.82	69.24	48.41	26.20
	CROF08		47.39	3.20	47.58	3.93	47.78	5.49	47.96	7.73	48.09	11.32	48.24	17.16	48.81	81.10	48.40	30.65
	CROF09		47.39	3.19	47.58	3.93	47.78	5.54	47.96	7.84	48.09	11.55	48.24	17.49	48.81	82.21	48.40	31.12
	CROF10		47.38	5.15	47.58	7.35	47.77	12.45	47.95	18.26	48.08	23.25	48.23	30.12	48.78	99.06	48.38	45.03
	CROF11		46.94	5.15	47.09	7.35	47.32	12.45	47.53	18.26	47.66	23.24	47.79	30.11	48.38	99.37	47.95	45.05
	CROF12		46.24	5.15	46.35	7.34	46.60	12.44	46.80	18.23	46.91	23.21	47.04	30.08	48.02	99.17	47.28	45.01
	CROF13		46.18	5.15	46.32	7.34	46.57	12.52	46.78	18.67	46.90	23.84	47.03	30.88	48.00	103.76	47.27	46.15
	CROF14		46.17	5.15	46.31	7.34	46.57	12.51	46.78	18.64	46.89	23.80	47.02	30.84	48.00	103.75	47.26	46.11
	CROF15		46.17	5.15	46.31	7.34	46.57	12.50	46.78	18.63	46.89	23.78	47.02	30.84	48.00	106.76	47.26	46.09
	CROF16		46.17	5.15	46.31	7.34	46.57	12.49	46.78	18.60	46.89	23.73	47.02	30.81	47.99	107.74	47.26	46.06

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