

Donald Ward Limited

Flood Risk Assessment

Ward Barnsley



ENV-23680

23 July 2026

Version 2



TETRA TECH

Tetra Tech Bristol, 2nd Floor, 90 Victoria Street, Bristol, United Kingdom, BS1 6DF

Tetra Tech Consulting Limited. Registered in England: No.01470149
Registered Office: 101 Park Drive, Milton Park, Abingdon, Oxfordshire, England, OX14 4RY

Document status

Document status					
Version	Purpose of document	Authored by	Reviewed by	Approved by	Date
01	Draft	Helena Singleton	Gurdeep Bansal	Gurdeep Bansal	22.07.26
02	Final Issue	Helena Singleton	Gurdeep Bansal	Gurdeep Bansal	23.07.26

Approval for issue		
Gurdeep Bansal	GB	23rd July 2026

This report was prepared by Tetra Tech within the terms of Tetra Tech engagement with its client and in direct response to a scope of services. This report is supplied for the sole and specific purpose for use by Tetra Tech's client. The report does not account for any changes relating the subject matter of the report, or any legislative or regulatory changes that have occurred since the report was produced and that may affect the report. Tetra Tech does not accept any responsibility or liability for loss whatsoever to any third party caused by, related to or arising out of any use or reliance on the report.

Prepared by	Prepared for
Tetra Tech	Donald Ward Limited
Helena Singleton	Victoria Jones
One Temple Quay, Bristol, BS1 6DZ	East Street, Ilkeston, DE7 5JB.
E: Helena.singleton@tetrattech.com	E: vjones@ward.com

Table of contents

1.0	Introduction	1
2.0	Policy	2
2.1	National Planning Policy	2
2.1	Local Planning Policy	2
2.2	Climate change allowances	2
3.0	Consultation	4
3.1	Statutory consultees	4
4.0	Site description	5
4.1	Location	5
4.2	Existing land uses	5
4.3	Surrounding land uses	6
4.4	Topography	6
4.5	Development Intent	6
5.0	Hydrological and Hydrogeological Setting	8
5.1	Nearby water features	8
5.2	Hydrogeology	8
6.0	Flood risk	9
6.1	Flood risk summary	9
6.2	Tidal flood risk	9
6.3	Fluvial flood risk	9
6.4	Surface water flood risk	12
6.5	Groundwater flood risk	16
6.6	Sewer flood risk	16
6.7	Reservoir flood risk	16
6.8	Flood risk from artificial structures	16
7.0	Pollution Risk Assessment	17
7.1	H1 assessment	17
7.2	Assessment of pathways	17
7.3	Pollution incidents	17
8.0	Mitigation measures	18

8.1	Mitigation Measures	18
8.2	Flood Emergency Plan (FEP)	18
9.0	Residual Risk Assessment	18
10.0	Summary and Conclusions	20
10.1	Report Purpose	20
10.2	Identified Flood Risk	20
10.3	Identified Pollution Risk	20
10.4	Suggested Mitigation and Recommendations	20
10.5	Conclusion	21

List of tables

Table 1.	Don and Rother management catchment peak rainfall allowances	2
Table 2:	Don and Rother management catchment peak river flow allowances	3
Table 3:	Consultees response summary	4
Table 4:	Water feature summary	8
Table 5:	Hydrogeological feature summary	8
Table 6:	Flood risk summary	9

List of figures

Figure 1.	Site location	5
Figure 2.	Site layout plan	7
Figure 3 -	Flood Map Overlay	10
Figure 4.	EA Flood Map for Planning	11
Figure 5.	Surface water flood risk (1 in 30-year)	12
Figure 6.	Surface water flood risk (1 in 100-year)	13
Figure 7.	Surface water flood risk (1 in 1000-year)	13
Figure 8.	Surface water flood map (1 in 30-year + climate change)	14
Figure 9.	Surface water flood map (1 in 100-year + climate change)	15
Figure 10.	Surface water flood map (1 in 1000-year + climate change)	15

Appendices

Appendix A – IDB Response

Appendix B – LiDAR Map

1.0 Introduction

- 1.1 Tetra Tech Company (TT) was commissioned to undertake a Flood Risk Assessment (FRA) for the metal and waste recycling facility site located at:

Donald Ward Limited, Boulder Bridge Lane, Cudworth, Barnsley, S71 3HJ.

- 1.2 The aim of the FRA is to outline the potential for the site to be impacted by flooding, the impacts of the proposed development on flooding in the vicinity of the site, and the proposed measures which could be incorporated into the development to mitigate the identified risk. The report will also consider the potential risk of pollution arising from the proposed site operations during a potential flood event.
- 1.3 The report has been produced in accordance with the guidance detailed in the National Planning Policy Framework (NPPF) and the associated Planning Practice Guidance (PPG). Reference has also been made to the CIRIA SuDS manual (C753), BRE Digest 365 Soakaway Design, the Barnsley Metropolitan Borough Council (BMBC) Local Flood Risk Management Strategy¹ (LFRMS), the BMBC Strategic Flood Risk Assessment² (SFRA), and the BMBC Local Plan³.
- 1.4 This report has been produced in consultation with the Environment Agency (EA) and the Lead Local Flood Authority (LLFA). The site is not within an Internal Drainage Board (IDB). However the site is approximately 1.8km north of the Danvm Drainage Commissioners IDB.
- 1.5 Tetra Tech have previously prepared a number of reports and drawings as part of an application by Donald Ward Limited for an environmental permit to operate the metal recycling site. Information from the following documents has been referenced throughout this FRA:
- Site Condition and Baseline Report, June 2026;
 - Dust Emissions Management Plan, June 2026;
 - H1 Screening Assessment Report, June 2026 and;
 - Drawing 23680-0001-01 Ecological Sensitive Receptors, April 2026.
- 1.6 The desk study was undertaken by reference to information provided / published by the following bodies:
- The Environment Agency;
 - Centre for Ecology and Hydrology (CEH);
 - Barnsley Metropolitan Borough Council (BMBC);
 - British Geological Survey (BGS);
 - Multi-Agency Geographic Information for the Countryside (MAGIC);
 - Ordnance Survey (OS); and

¹ [flood-risk-management-strategy.pdf](#)

² [barnsley-strategic-flood-risk-assessment-level-1-report-sept-2010.pdf](#)

³ [local-plan-adopted.pdf](#)

- Yorkshire Water (YW).

2.0 Policy

2.1 National Planning Policy

- 2.1.1 This report has been prepared with regard to the National Planning Policy Framework (NPPF) released in March 2012 and updated in February 2025 and its Planning Practice Guidance (PPG) updated February 2024.
- 2.1.2 The scope of this FRA is in line with the guidance contained in PPG Paragraph 020 Reference ID: 7-020-20220825.

2.1 Local Planning Policy

- 2.1.1 The applicable local planning policies for this development are those contained within the BMBC Local Plan, which was adopted in 2019.
- 2.1.2 This is supported by the BMBC LFRMS which identifies and maps flood risk from all sources at borough-wide scales as well as providing guidance on producing site specific FRAs. Relevant information from the LFRMP has been referenced throughout this FRA report.

2.2 Climate change allowances

Peak rainfall allowances

- 2.2.1 Peak Rainfall Allowances are used to consider how increased rainfall affects surface water flood risk and the design of drainage systems to manage the increased rainfall.
- 2.2.2 Guidance requires that for developments with a lifetime of between 2061 and 2100, Flood Risk Assessments and Strategic Flood Risk Assessments should assess the central allowances for the 2070s epoch for both the 1% and 3.3% annual exceedance probability events.
- 2.2.3 The proposed site is located within the Don and Rother Management Catchment for which the following Peak Rainfall Allowances shown in **Table 1** are applicable.
- 2.2.4 Given the expected lifetime of the development at 40 years, an allowance of 25% should be used for the site.

Table 1. Don and Rother management catchment peak rainfall allowances

3% Annual exceedance rainfall event		
Epoch	Central	Upper
2050s	20%	35%
2070s	25%	35%
1% Annual exceedance rainfall event		
2050s	20%	40%
2070s	25%	40%

Peak river flow allowances

- 2.2.5 EA guidance on the application of climate changes allowance is dependent on the proposed developments vulnerability.
- 2.2.6 The site sits within the Don and Rother Management Catchment. The river flow allowances are presented below in **Table 2**. The proposed development is classified as ‘Less Vulnerable’ by the Planning Practice Guidance (PPG) and for developments located in Flood Zones 2, 3a or 3b, the ‘Central Allowance’ should be used to assess climate change. The guidance suggests the 28% climate change allowance should be used in this case.

Table 2: Don and Rother management catchment peak river flow allowances

Allowance category	Central	Higher	Upper
2020s	11%	15%	25%
2050s	15%	21%	36%
2080s	28%	38%	60%

3.0 Consultation

3.1 Statutory consultees

3.1.1 **Table 3** summarises key comments raised by consultees of relevance to this FRA. At the time of issuing this report some correspondence has not been received, however this ultimately doesn't change the recommendations and conclusions of this report.

Table 3: Consultees response summary

Consultee	Full Response	Summary of Response
Environment Agency (EA)	N/A	At time of writing, a response is yet to be received.
Lead Local Flood Authority – BMBC (LLFA)	N/A	At time of writing, a response is yet to be received.
Water Authority – Yorkshire Water	N/A	At time of writing, a response is yet to be received.
Internal Drainage Board – Danvm Drainage Commissioners	Appendix A:	The IDB do not have any specific requirements for the site.

4.0 Site Description

4.1 Location

- 4.1.1 The site is located at National Grid Reference SE 37602 10519, is relatively rectangular in shape and occupies an area of approximately 2.97 hectares (ha). The site location is presented in **Figure 1**.

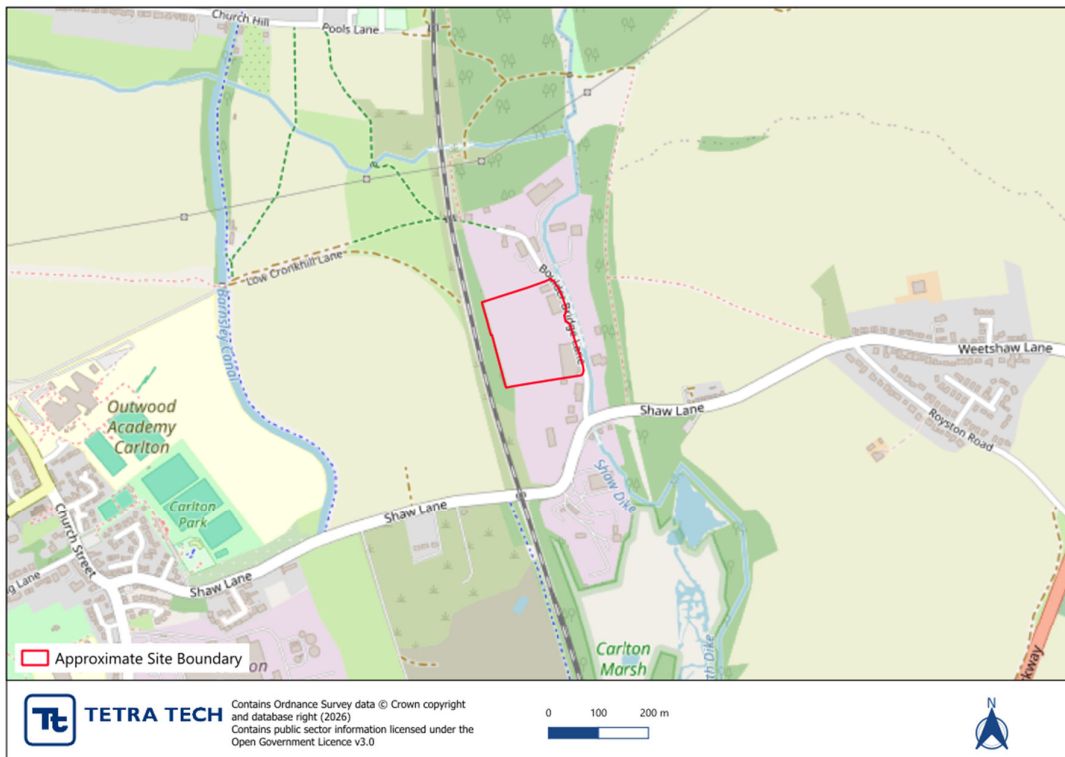


Figure 1. Site location

4.2 Existing land uses

- 4.2.1 The site is a brownfield site and consists of an existing ferrous and non-ferrous metal recycling centre. It comprises an industrial yard, open storage areas, areas of hardstanding, and existing buildings. There is some existing vegetation along the western boundary of the site.
- 4.2.2 The current primary access into the site is via Boulder Bridge Road, to the east of the site.
- 4.2.3 Surface water drains on site flow to the east, with the surface water discharge point (W1) is on the east boundary of the site, adjacent to Boulder Bridge Lane.
- 4.2.4 The approximate proportions of hardstanding / building cover / soft landscaping are currently as follows:
- Hardstanding: 80%
 - Building cover: 20%

- Soft landscaping: 0%

4.3 Surrounding land uses

- 4.3.1 The site is located within a business and industrial site, including other scrap metal recycling facilities, crane hire, and vehicle dismantling sites.
- 4.3.2 The surrounding land use is mostly commercial and industrial, bordering the site on the northern and southern boundaries. Agricultural land borders the site on the east and west.
- 4.3.3 The Dearne Valley Wetlands Site of Special Scientific Interest (SSSI) surrounds the industrial area on the northern, eastern, and southern boundaries. It is approximately 60m east of the site.

4.4 Topography

- 4.4.1 In the absence of topographical data, LiDAR data has been sourced from DEFRA (available online).
- 4.4.2 The site generally slopes from west to east. The highest elevations on site are in the western edge at approximately 48.81m Above Ordnance Datum (AOD). Site elevations are the lowest along the southeastern boundary, at approximately 43.84m AOD. This levels change explains the differing flood zones on site.
- 4.4.3 A LiDAR map is included in Appendix B.

4.5 Development Intent

- 4.5.1 The site currently provides temporary storage for Waste Electrical and Electronic Equipment (WEEE), End-of-Life Vehicle (ELV) components, batteries, tyres, swarf, asbestos, as well as non-hazardous and hazardous commercial, construction, demolition and municipal wastes. These materials are held on site before being transferred to an authorised treatment facility.
- 4.5.2 The primary activities at the site include the receipt and treatment of cable and scrap metal, both ferrous and non-ferrous, as well as providing temporary storage for hazardous and non-hazardous waste.
- 4.5.3 There are different zones within the site including a cable area, ferrous and non-ferrous area, and a product bag storage area. The site is open but includes some bunded storage areas. The site plan can be seen in **Figure 2**.
- 4.5.4 Some of the infrastructure on site may be particularly flood and pollution sensitive due to the nature of the material and its storage position within the flood zone. This includes the propane storage, oil storage, diesel tank, and hazardous waste storage. It is anticipated that hazardous material will be stored in the door trade area. Recommendations for the storage of these materials have been included in Section 8.

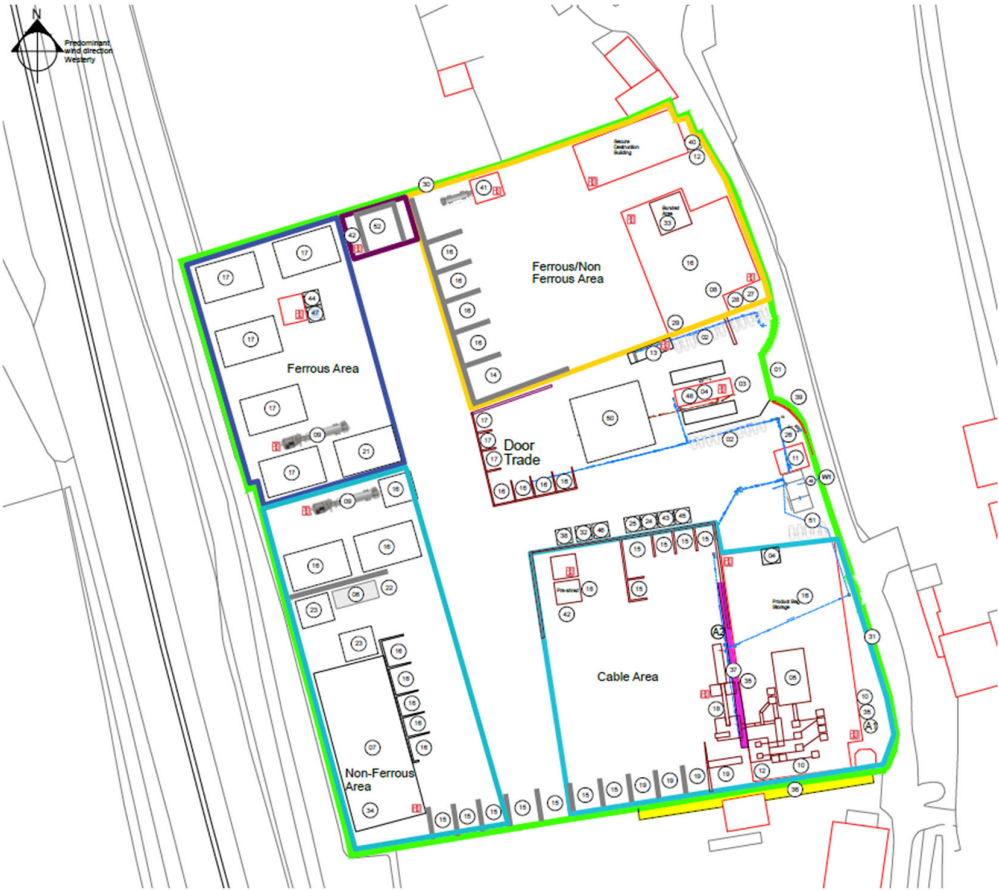


Figure 2. Site layout plan

5.0 Hydrological and Hydrogeological Setting

5.1 Nearby water features

5.1.1 The nearby water features are summarised in **Table 4**.

Table 4: Water feature summary

Feature	Name	Location
Main River	River Dearne	3.7km south of site
Ordinary Watercourse	Shaw Dyke - partly culverted	10m east of site
	Pools Dyke	300m north of site
Canal	Barnsley Canal	380m west of site
Ponds	Unnamed ponds associated with Dearne Valley Wetlands	290m to 650m south of site

5.2 Hydrogeology

5.2.1 British Geological Survey (BGS) online mapping (1:50,000 scale) has been consulted. The features are summarised below in **Table 5**.

Table 5: Hydrogeological feature summary

Feature	Name	Location
Superficial Geology	Till, Mid Pleistocene-Diamicton	West of site
	Alluvium-Clay, silt, sand, and gravel	East of site
Bedrock Geology	Pennine Middle Coal Measures Formation-Mudstone	All of site
Aquifers	Secondary A aquifer	All of site
Source Protection Zone Status	Not located within a SPZ	N/A
Groundwater Vulnerability	'Medium – High' according to the Groundwater Vulnerability Map	All of site
Soil Permeability	Freely draining	All of site
Made Ground	No reference to made ground at nearby borehole (SE31SE15)	N/A

6.0 Flood Risk

6.1 Flood risk summary

6.1.1 Specific details of the following identified flood risks are summarised in **Table 6** and discussed below.

Table 6: Flood risk summary

Source of Flood Risk	Classification	Justification
Tidal	N/A	There are no tidal features within 1km of the site
Fluvial	Moderate	The site is partially within Flood Zone 2 and 3. Fluvial flood risk is associated with Pools Dyke.
Surface Water	Low	The majority of the site is not at risk from surface water flooding in the EA surface water flood maps. There are some areas of surface water ponding in the eastern portion of the site, however depths are not expected to exceed 0.3m.
Groundwater	Low	BGS borehole records close to the site encounter groundwater at depths of 6.7m.
Sewer	Low	Awaiting details from Yorkshire Water. There are no details of site specific sewer flooding in the SFRA.
Reservoir	Negligible	The site is not at risk of flooding due to reservoir failure.
Artificial Structures	Negligible	The site is not at risk of flooding due to artificial structures.

6.2 Tidal flood risk

6.2.1 The site is not at risk from tidal flooding. There are no tidal features within 1km of the site.

6.2.2 The risk of tidal flooding to the site is therefore considered to be low.

6.3 Fluvial flood risk

6.3.1 The EA Flood Map for Planning, which was updated in May 2026, is available online and classifies fluvial and tidal flood risk according to the following:

- Flood Zone 1: Land assessed as having a less than 1 in 1000 year (0.1%) annual probability of river or sea flooding;
- Flood Zone 2: Land assessed as having between a 1 in 100 (1%) and 1 in 1000 (0.1%) annual probability of river flooding, or between a 1 in 200 (0.5%) and 1 in 1000 (0.1%) annual probability of sea flooding;
- Flood Zone 3: Land assessed as having a 1 in 100 (>1%) or greater annual probability of river flooding, or a 1 in 200 (>0.5%) or greater annual probability of sea flooding.

6.3.2 The site is partially within Flood Zone 2 and 3, shown in **Figure 4**. Flood Zone 2 and the projected climate change flood zone cover the majority of the eastern portion of the site. This

includes the ferrous and non ferrous area, cable area, product bag storage, and part of the door trade area. Refer to **Figure 3**.

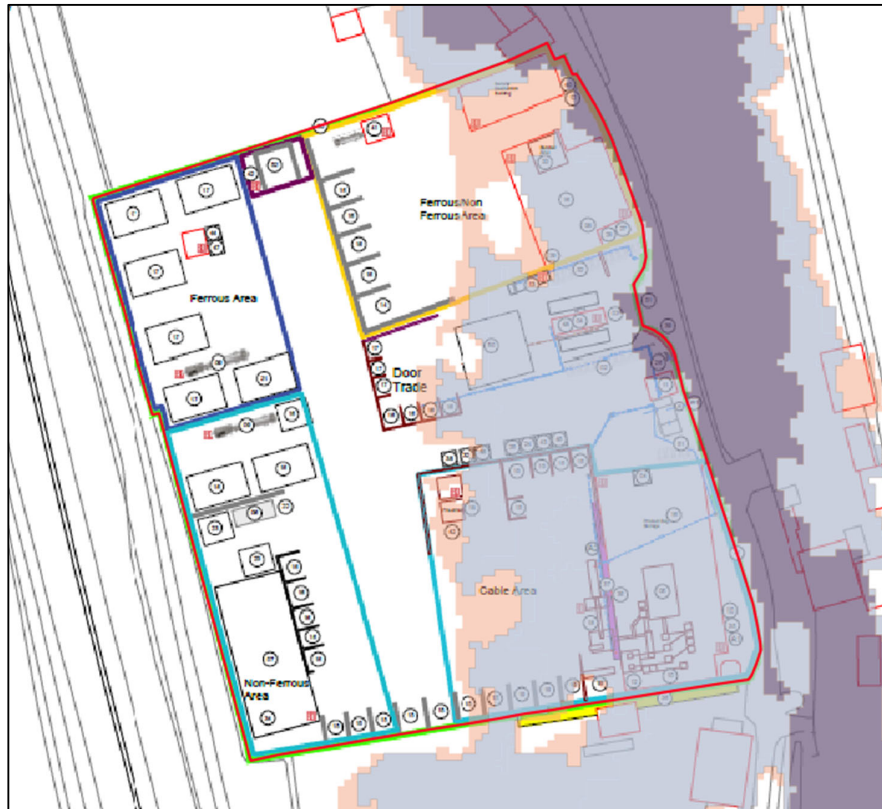


Figure 3 - Flood Map Overlay

- 6.3.3 The site is also located approximately 20m west of the EA Flood Alert Area of 'River Dearne and its tributaries'.
- 6.3.4 The BMBC LFRMP and SFRA do not identify any flood risk issues specific to the site. The SFRA highlights that there have been major flood events in the Dearne Valley (1947, 2000, and 2007), however, this is not site specific.

- 6.3.5 The SFRA s2q100 + climate change flood map⁴ shows the modelled flood outline with estimated flood depths for a 1 in 100-year + climate change scenario. This map indicates that, in the vicinity of the site, Shaw Dyke is expected to experience depths of up to 1.5m. However, the flood extents are not shown to encroach on the site boundary.

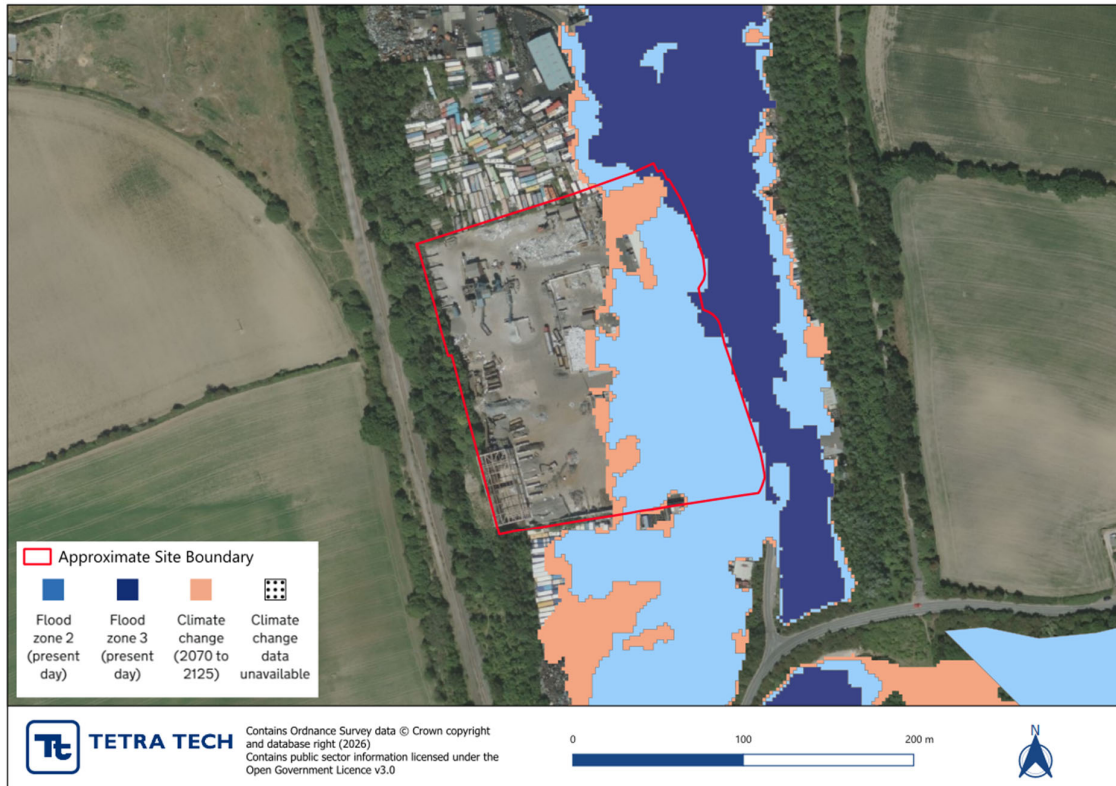


Figure 4. EA Flood Map for Planning

⁴ [barnsley-sfra-climate-change-maps.pdf](#)

Flood Model Data

6.3.6 Based on the site's location within Flood Zones 2 and 3, the EA has been consulted for additional information regarding the fluvial flood risk to the site. At time of writing, a response has not been received.

6.4 Surface water flood risk

6.4.1 The EA's long term Surface Water Flood Map was updated in May 2026. It includes two surface water flooding scenarios; one for the present-day scenario, and one for a future scenario between 2070 and 2125. It shows the extents and depths for the 1 in 30-year, 1 in 100-year, and 1 in 1000-year flood events.

6.4.2 For the 1 in 30-year scenario shown in **Figure 5**, the majority of the site is not at risk from surface water flooding. Small areas of surface water existing within the site boundary, however depths are not expected to exceed 0.15m and are associated with topographic lows.

6.4.3 The 1 in 100-year scenario is shown in **Figure 6**. There are some small areas of surface water flooding within the site, however depths are expected to remain below 0.3m. There is a small area of surface water flooding across Boulder Bridge Lane. Depths in this area are not expected to exceed 0.15m and extents do not encroach on the site boundary.

6.4.4 For the 1 in 1000-year scenario, the areas of surface water flooding have increased in extent. The eastern access via Boulder Bridge Lane experiences flooding, restricting safe access and egress. Depths are expected to remain relatively low, ranging from less than 0.15m to 0.3m. This is shown in **Figure 7**.

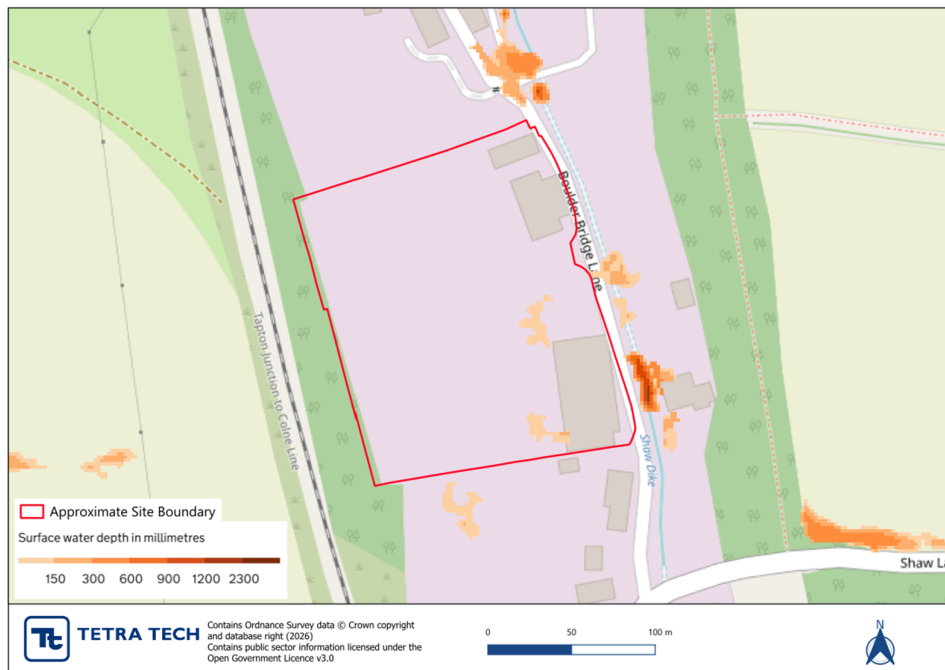


Figure 5. Surface water flood risk (1 in 30-year)

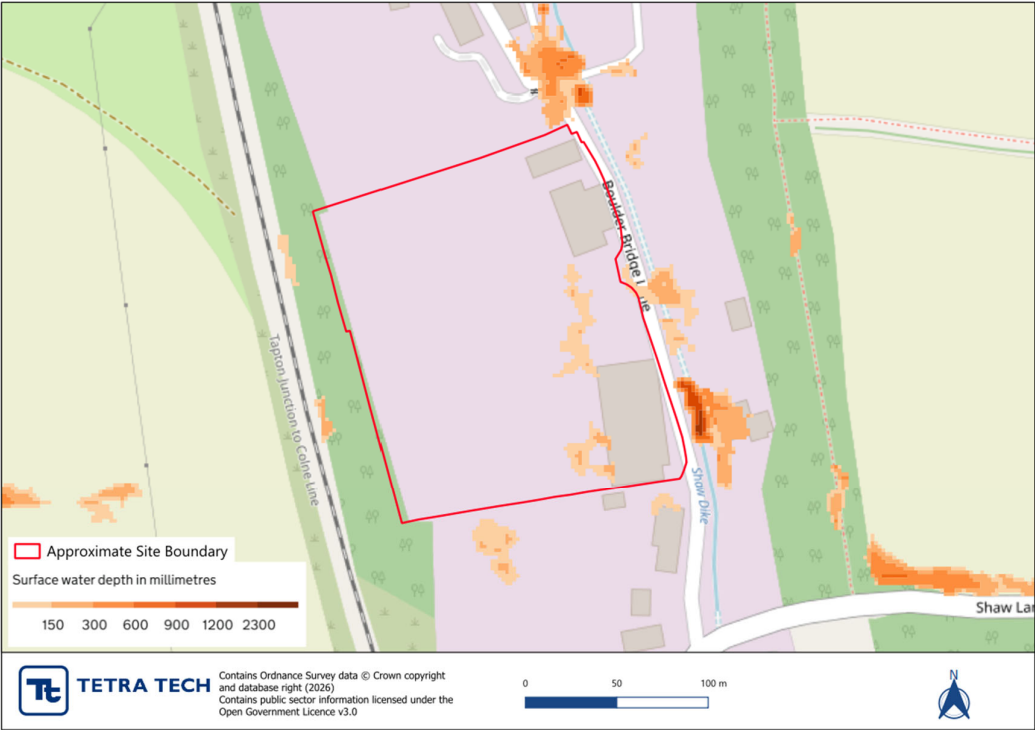


Figure 6. Surface water flood risk (1 in 100-year)

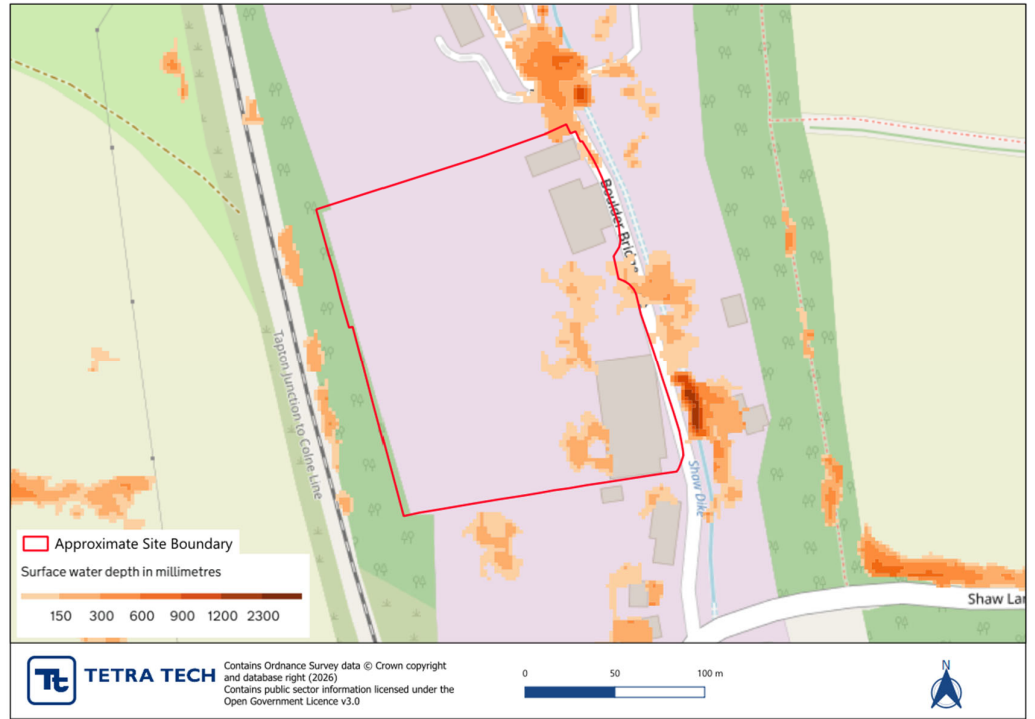


Figure 7. Surface water flood risk (1 in 1000-year)

- 6.4.5 For the 1 in 30-year + climate change scenario, shown in **Figure 8**, the majority of the site is not at risk from surface water flooding. Areas of surface water ponding can be seen across the site, with depths not expected to exceed 0.3m.
- 6.4.6 Similarly, in the 1 in 100-year + climate change scenario, areas of surface water flooding associated with topographic lows can be seen in the eastern portion of the site. Access via Boulder Bridge Lane is shown to experience some surface water flood risk, however, flood depths are not predicted to exceed 0.3m. This can be seen in **Figure 9**.
- 6.4.7 Surface water flood extents have increased slightly in the 1 in 1000-year + climate change scenario, shown in **Figure 10**. Access via Boulder Bridge Lane may be restricted due to flood depths ranging between less than 0.15m and 0.3m. An area of surface water flood risk with expected depths of up to 1.2m is present approximately 8m east of the southeastern corner of the site. Flood extents do not encroach on the site boundary.

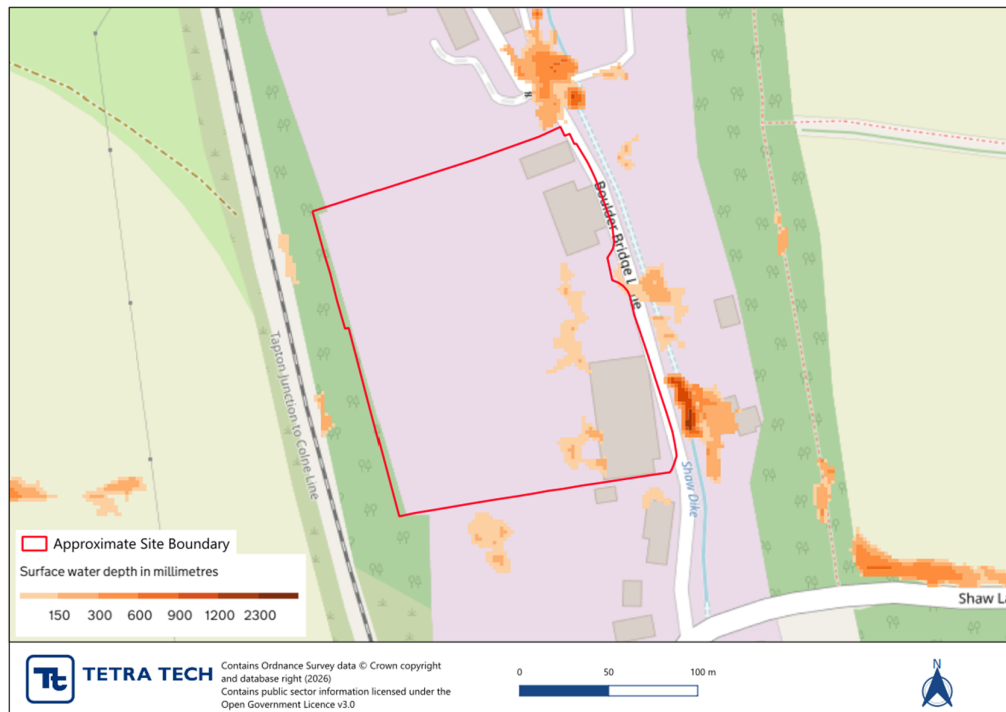


Figure 8. Surface water flood map (1 in 30-year + climate change)

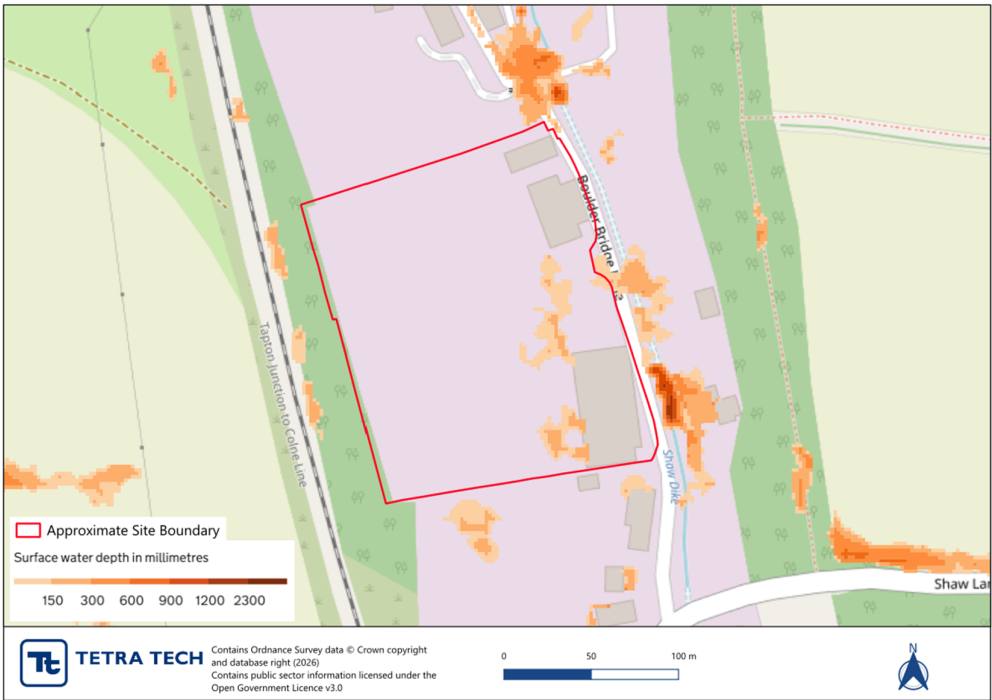


Figure 9. Surface water flood map (1 in 100-year + climate change)

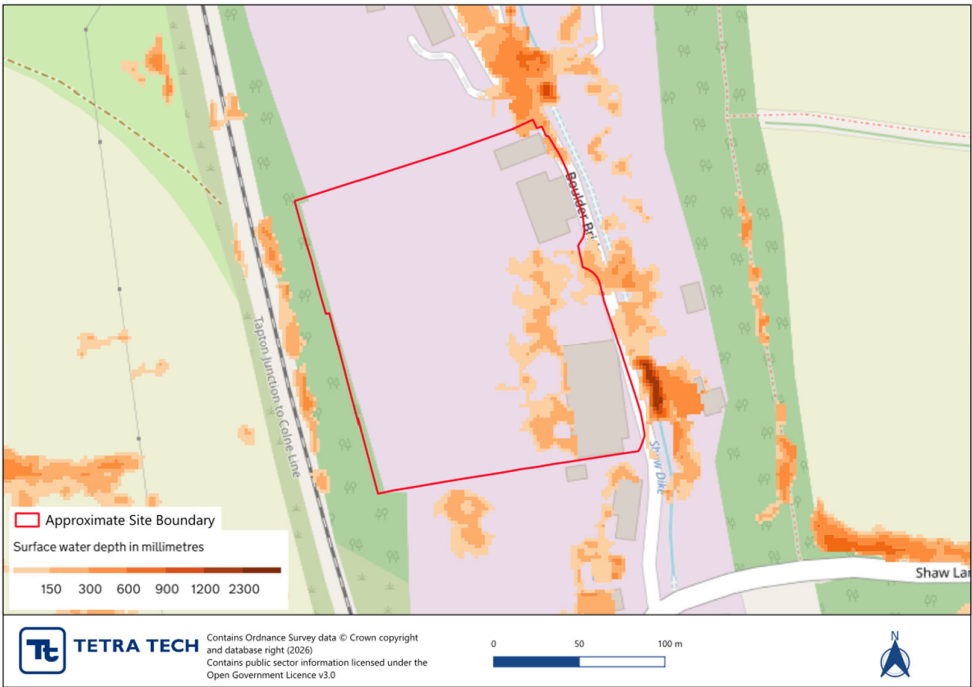


Figure 10. Surface water flood map (1 in 1000-year + climate change)

6.5 Groundwater flood risk

- 6.5.1 There are no BGS boreholes within the site boundary. The nearest borehole (SE31SE15) is approximately 5m west of the site. This record shows that groundwater has been encountered at a depth of 6.7m below ground level.
- 6.5.2 There are no basement levels at the site. As such, the risk of groundwater flooding is considered to be low.

6.6 Sewer flood risk

- 6.6.1 Yorkshire Water have been contacted regarding details of sewer flooding at the site. At time of writing their response has not been received.
- 6.6.2 The SRFA does not reference site specific details of sewer flooding.

6.7 Reservoir flood risk

- 6.7.1 The site is not within reservoir flood extents. As such, the site is not at risk of reservoir flooding.

6.8 Flood risk from artificial structures

- 6.8.1 The site is not at risk of flooding from artificial structures.

7.0 Pollution Risk Assessment

7.1 H1 assessment

- 7.1.1 Potential sources of pollution associated with the site discharge have been assessed using the H1 Screening Assessment.
- 7.1.2 The surface water discharge for Cudworth Dyke fails Test 3 for copper. All other substances considered pass the H1 Assessment.
- 7.1.3 However, the overall discharge from the site is considered to present a low risk to controlled waters. In addition, proxy surface water discharge data from another Ward site supports the conclusion that there will be no significant impact from the proposed site discharge.

7.2 Assessment of pathways

- 7.2.1 The surface water from the site discharges to Shaw Dyke, approximately 10m east of the site.
- 7.2.2 The site is surrounded by the Dearne Valley Wetlands SSSI in the north, east, and south of the site. Shaw Dyke flows through the SSSI. There are no other designated sites within 1km of the site.
- 7.2.3 According to the Groundwater Vulnerability Map, the site is classified as having a 'medium to high' vulnerability. This suggests that groundwater at the site may be particularly vulnerable to pollution.

7.3 Pollution incidents

- 7.3.1 There have been four incidents of substantiated pollution within the site since 2006. These fall into category 1 (major) and category 2 (significant). These incidents are only shown to have a significant impact on air, with no impact on land or water.

8.0 Mitigation measures

8.1 Mitigation Measures

- 8.1.1 The site stores the different installation and waste operation wastes in clearly defined areas on the site. The eastern part of the site, most vulnerable to flooding, has wastes and processes mainly taking place within buildings and waste stored in secure bunkers, tote bags and skip containers. The waste types are also in majority clean scrap grades. It is recommended that stockpiles in the outside areas on the eastern portion, are kept to an operational minimum. The western portion of the site is within Flood Zone 1 and is identified as having a low surface water flood risk and is where the majority of ferrous and non-ferrous storage and processing takes place.
- 8.1.2 Fuels and chemicals should be stored securely outside of the flood zone. This could be done through creating bunds around the storage area, providing a barrier in the event of a potential flood.
- 8.1.3 It is recommended that the owner of the site sign up to receive Flood Alerts to receive information about flooding in the area. The site sits approximately 20m west of the EA Flood Alert Area 'River Dearne and its tributaries'.

8.2 Flood Emergency Plan (FEP)

- 8.2.1 In the event of a flood, all works at the site should stop.
- 8.2.2 All materials and equipment will be stored securely outside the flood zone if safe to do so. Any hazardous materials if present should be checked to ensure that bunds, containers, and storage areas remain secure.
- 8.2.3 Loose material will be moved to the western portion of the site or secured in a suitable container to prevent floating away during a flood event.
- 8.2.4 The site manager will monitor the EA flood alerts and weather forecasts during periods of heavy and prolonged rainfall. A full FEP is recommended to be developed that will clearly outline key contacts and roles and responsibilities.
- 8.2.5 Access and egress routes will be kept clear at all times to allow for safe evacuation if required.
- 8.2.6 Following a flood event, the site will not resume normal operations until the site has been inspected and deemed safe. Any damaged containers or displaced materials will be dealt in accordance with the FEP.

9.0 Residual Risk Assessment

- 9.1.1 If the proposed mitigation measures are implemented, it is anticipated that the residual flood and pollution risk of the site will be low.
- 9.1.2 The western portion of the site is within Flood Zone 1 and has a low surface water flood risk. It is therefore a suitable area for the temporary storage of waste materials.
- 9.1.3 The proposed operational controls reduce the likelihood of floodwater affecting stored materials or causing pollution to the receiving watercourse.

- 9.1.4 Subject to the mitigation measures being implemented and maintained, the residual risk of flooding and pollution is considered to be low.

10.0 Summary and Conclusions

10.1 Report Purpose

- 10.1.1 This FRA has been produced to provide a detailed assessment of flood risk that considers the potential risk of pollution arising from the proposed site operations during a flood event.

10.2 Identified Flood Risk

- 10.2.1 The EA Flood Map for Planning shows that the site is partially within Flood Zone 2 and 3. As such, the fluvial flood risk to the site is considered to be moderate.
- 10.2.2 The site is identified to have a low risk of surface water flooding. There are some areas of ponding across the site, however depths are not expected to exceed 0.3m.
- 10.2.3 The SFRA does not provide detailed groundwater flooding information for the site. BGS borehole records near the site indicate that groundwater has been encountered 6.7m below ground level. As such, the groundwater flood risk is considered to be low.
- 10.2.4 There are no references to sewer flooding within the SFRA. YW have been consulted regarding historic sewer flooding at the site. Their response has not yet been received. As such, the risk of sewer flooding is considered to be low.

10.3 Identified Pollution Risk

- 10.3.1 The H1 Assessment identified copper as the only substance to fail the screening assessment. All other pollutants included in the assessment were screened out.
- 10.3.2 The H1 Screening Assessment Report states that the overall discharge from the site is considered to present a low risk to controlled waters. This is supported by proxy surface water discharge data from a similar Ward site. This data indicates that the proposed storage of wastes on site will not have a significant impact on the receiving waterbody.
- 10.3.3 There have been four recorded incidents of substantiated pollution at the site since 2006. However, these incidents are shown to only have a significant impact on air pollution. No impact on water or land was recorded.

10.4 Suggested Mitigation and Recommendations

- 10.4.1 The following mitigation measures are recommended to reduce pollution risk during a flood event, if possible, on site:
- The site will store wastes in designated areas according to flood risk. The more flood-prone eastern area mainly handles and stores waste within buildings, bunkers, tote bags, and skips, with most materials comprising clean scrap grades. External stockpiles in this area will be kept to a minimum. The western area, located within Flood Zone 1 and at low risk of surface water flooding, accommodates most ferrous and non-ferrous metal storage and processing activities.
 - Fuels and chemicals should be stored behind bunds to prevent pollutant leaching;

- The site operator should sign up to the EA Flood Alert system. An appropriate FEP should be put in place, to keep occupants safe but also serving as a mechanism to move if safe material within Flood Zone 1.

10.5 Conclusion

10.5.1 The site is considered to be at moderate risk for fluvial flooding. The flood risk of the site from surface water, groundwater, sewers, and artificial structures is considered to be low.

10.5.2 With the suggested mitigation measures in place, the risk of pollution from the site in the event of flooding is considered to be low.

Appendix A – IDB Response

RE: Site information - S71 3HJ

From Liam Plater <Liam.Plater@yorkshirehumberdrainage.gov.uk>

Date Wed 2026-07-22 11:55 AM

To Singleton, Helena <HELENA.SINGLETON@tetrattech.com>

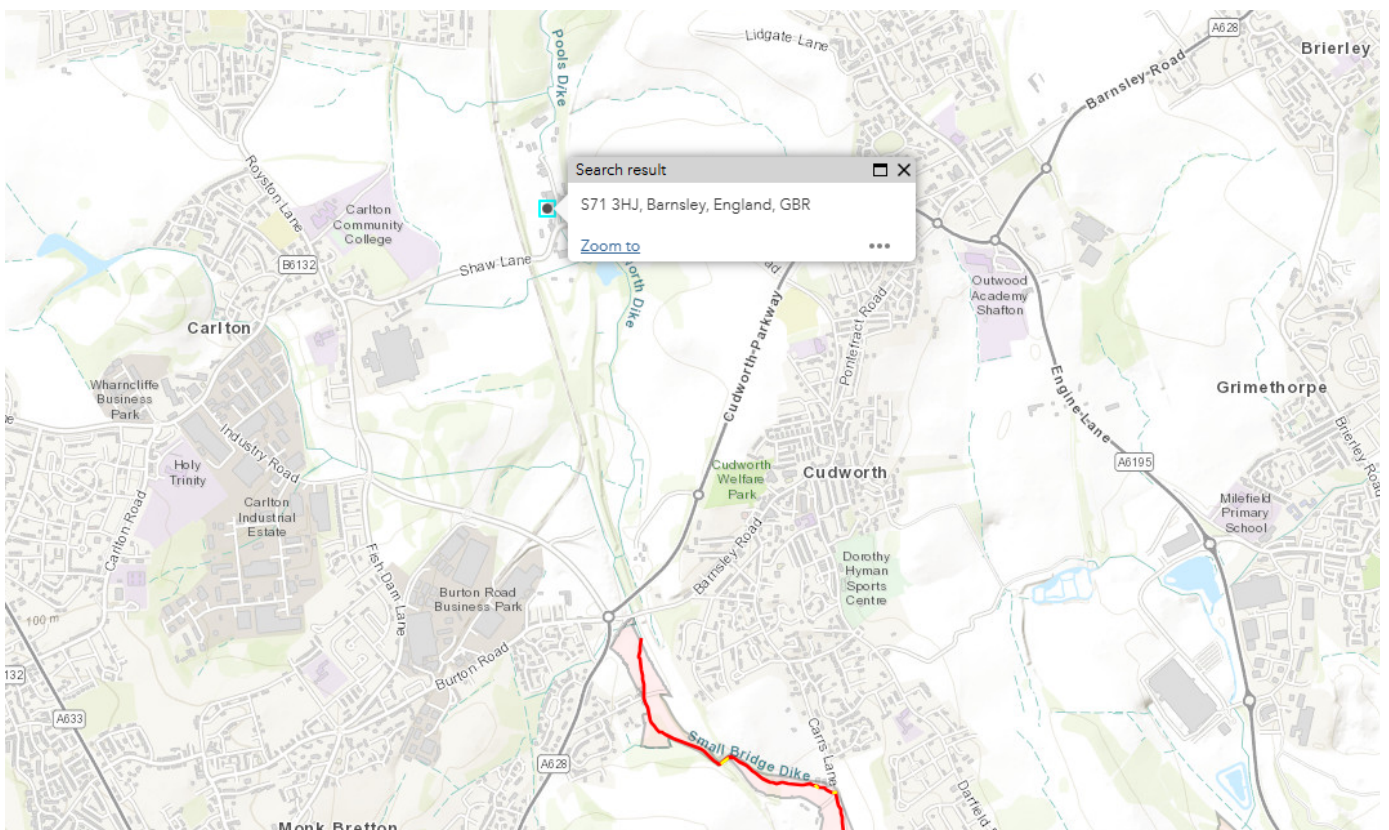
You don't often get email from liam.plater@yorkshirehumberdrainage.gov.uk. [Learn why this is important](#)

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Hi Helena,

Thank you for getting in touch.

Having checked our records, the site in question sits outside our Drainage District (shown in pink on the map below). We would therefore not have any specific requirements for the site as it is outside our jurisdiction. However, as the catchment may eventually flow into our district, we would ask that surface water discharges are restricted to greenfield runoff rate, with attenuation provided for the 1 in 100 year storm event +40% climate change allowance.



I hope this is helpful, and please let me know if you require anything further.

Kind regards,

Liam

Liam Plater
Senior Development Control Officer



Yorkshire & Humber Drainage Boards

Black Drain Drainage Board
Cowick & Snaith Internal Drainage Board
Danvm Drainage Commissioners
Dempster Internal Drainage Board
Ouse & Humber Drainage Board
Rawcliffe Internal Drainage Board
Reedness & Swinefleet Internal Drainage Board
Vale of Pickering Internal Drainage Board

24 Innovation Drive
Newport
East Riding of Yorkshire
HU15 2FW

01430 430237
info@yorkshirehumberdrainage.gov.uk
yorkshirehumberdrainage.gov.uk
[@IDBYorkshire](https://twitter.com/IDBYorkshire)

From: Singleton, Helena <HELENA.SINGLETON@tetrattech.com>

Sent: Monday, July 20, 2026 8:49 AM

To: Info <Info@yorkshirehumberdrainage.gov.uk>

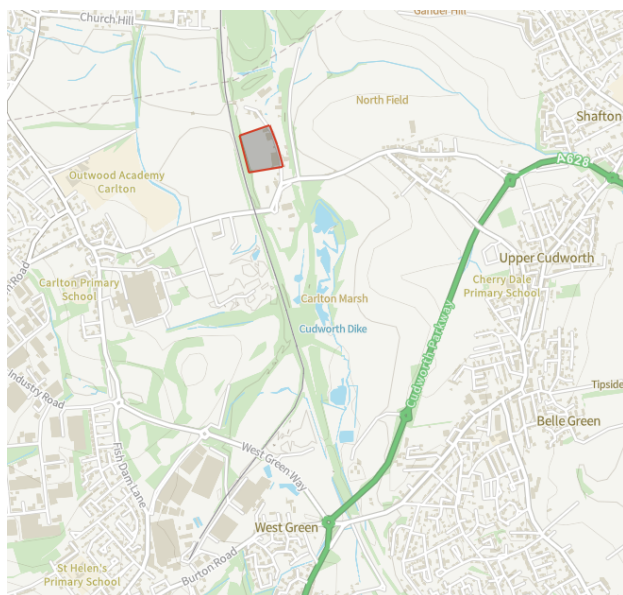
Subject: Site information - S71 3HJ

You don't often get email from helena.singleton@tetrattech.com. [Learn why this is important](#)

Good morning,

Tetra Tech have been commissioned to prepare a Flood Risk Assessment for an existing site located at **Boulder Bridge Ln, Cudworth, Barnsley S71 3HJ**. There are a number of ordinary watercourses near the site (Pools Dike, Shaw Dike, Cudworth Dike) which are tributaries of the River Dearne. This is within the Danvm Drainage Commissioners IDB and the Don and Rother management catchment.

Please could you confirm if, during this preliminary stage, you would have any further specific requirements or comments regarding this site? I have included a site plan below.



Many thanks,

Helena Singleton | Graduate Hydrology Consultant

helena.singleton@tetrattech.com

Time Zone: GMT / BST

Tetra Tech | *Leading with Science*®

One Temple Quay | Bristol, BS1 6DZ | tetratech.com/europe

Appendix B – LiDAR Map

