

Viking CCS Pipeline

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Statement Volume IV –
Appendix 11-2: Site
Visit Technical Note -
Water**

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Prepared by	Verified by	Approved by
KB	OT	MW
Water Environment Principal Consultant	Water Environment Associate Director	EIA Technical Director

Prepared by:

AECOM Limited
Exchange Station
Tithebarn Street
Liverpool
Merseyside
L2 2QP

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11 Watercourse Surveys


11.1 Introduction

11.1.1 This Technical Appendix has been produced to support *ES Volume II Chapter 11: Water Environment (Application Document 6.2.11)* for the Viking CCS Pipeline (hereafter referred to as the Proposed Development). It details the findings of site visits undertaken in February and March 2023 based on the crossing schedule that was in place at that time.

11.2 WC DX004P - Harborough Marsh Drain






Table 1: Summary of Hydromorphological Characteristics at WC DX004P - Harborough Marsh Drain

Parameter	Details	Photograph
Channel Form	The watercourse had been straightened between the former golf course on the right bank and industrial area on the left bank. The channel was overly deep and had a trapezoidal cross section.	
Substrate Conditions	The bed comprised silt and organic material. Historic channel modifications and current land use practices, coupled with natural low energy conditions likely contribute to the input and settling of fine sediment in the watercourse.	
Flow Conditions	Flow was smooth and sluggish. These conditions are likely a result of the modified channel and low energy conditions.	
Floodplain Characteristics	Floodplain connectivity was non-existent due to the overly deep channel.	
Riparian Zone	The right bank riparian zone comprised a narrow, wooded corridor on the border of a former golf course upstream of the crossing. Trees, grasses and scrub were all present in the right bank riparian zone. The left bank riparian zone comprised a narrow strip of short grasses adjacent to an industrial area.	

Parameter	Details	Photograph
Modifications	The watercourse has been historically straightened and the channel has a modified trapezoidal cross section. Adjacent land use comprises industrial units, a golf course and agricultural fields, with very little buffer space between the watercourse and these modified land uses.	 A photograph showing a straightened watercourse channel with a trapezoidal cross-section. The channel is surrounded by agricultural fields and industrial units, with very little buffer space between the watercourse and these modified land uses.


11.3 WC DX009P

Table 2: Summary of Hydromorphological Characteristics at WC DX009P

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage ditch which runs along boundary between road and agricultural field. A hedgerow ran along one of the banks, whilst the other bank was steep and grassed.	
Substrate Conditions	The bed comprised soil and short grasses.	
Flow Conditions	The ditch was dry at the time of survey and is likely dry for much of the year.	
Floodplain Characteristics	There is no floodplain associated with this artificial drainage ditch.	
Riparian Zone	The riparian zone comprised a road on one side with a narrow grass verge, and an agricultural field with hedgerow on the other side.	
Modifications	The channel is artificial.	



11.4 WC DX010P

Table 3: Summary of Hydromorphological Characteristics at WC DX010P

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage channel which runs along boundary between road and agricultural field.	
Substrate Conditions	The bed was boggy and heavily vegetated with grasses.	
Flow Conditions	The drainage channel was mostly dry during survey, although the bed was boggy. There were some small areas of standing water.	
Floodplain Characteristics	There is no floodplain associated with this artificial drainage channel.	
Riparian Zone	The riparian zone comprised a narrow, grassed embankment with planted trees adjacent to a dual carriageway on the right bank. The left bank riparian zone comprised an agricultural field.	
Modifications	The channel is artificial and riparian land use is heavily modified.	






11.5 WC RDX009P


Table 4: Summary of Hydromorphological Characteristics at WC RDX009P

Parameter	Details	Photograph
Channel Form	Straight, artificial or heavily modified drainage channel which runs along boundary between road and agricultural field.	
Substrate Conditions	The bed could not be observed but is likely dominated by fine material. The channel appeared to be heavily vegetated with reeds, so it is likely this vegetation traps finer material.	
Flow Conditions	The channel could not be observed to determine flow conditions; however, it is likely that flow is slow or not perceptible due to the modified channel and low gradient. The presence of reeds growing from the channel indicates slower flow.	
Floodplain Characteristics	The channel is completely disconnected from the floodplain.	
Riparian Zone	The riparian zone comprised a narrow strip of scrubland adjacent to a dual carriageway on the left bank. The right bank riparian zone comprised an agricultural field.	
Modifications	The channel is artificial or heavily modified and riparian land use is heavily modified.	

11.6 WC DX012P






Table 5: Summary of Hydromorphological Characteristics at WC DX012P

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage channel which runs along field boundary.	
Substrate Conditions	The bed was heavily vegetated with reeds and appeared to comprise fine sediment.	
Flow Conditions	There was standing water within the drainage channel.	
Floodplain Characteristics	There is no natural floodplain associated with this artificial drainage channel.	
Riparian Zone	The riparian zone comprised a narrow strip of tall grasses set between two agricultural fields.	

Parameter	Details	Photograph
Modifications	The channel is artificial and riparian land use is heavily modified for agricultural farming purposes.	





11.7 WC DX013P

Table 6: Summary of Hydromorphological Characteristics at WC DX013P

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage channel which runs along the boundary between an agricultural field and a road.	
Substrate Conditions	The bed was littered with organic detritus and vegetated with tall grasses, scrub and trees. Bed sediment was formed of earth.	
Flow Conditions	The channel was dry at the time of survey.	
Floodplain Characteristics	There is no natural floodplain associated with this artificial drainage channel.	
Riparian Zone	The riparian zone comprised a line of trees adjacent to an agricultural field on one side and a narrow strip of grasses adjacent to a road.	
Modifications	The channel is artificial and riparian land use is heavily modified for agricultural farming and transport purposes.	






11.8 WC DX014P


Table 7: Summary of Hydromorphological Characteristics at WC DX014P

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage channel which runs along the boundary between an agricultural field and a road.	
Substrate Conditions	The bed was littered with organic detritus and vegetated with tall grasses, scrub and trees. Bed sediment was formed of earth.	
Flow Conditions	The channel was dry at the time of survey.	
Floodplain Characteristics	There is no natural floodplain associated with this artificial drainage channel.	
Riparian Zone	The riparian zone comprised a line of trees adjacent to an agricultural field on one side and a narrow strip of grasses adjacent to a road.	
Modifications	The channel is artificial and riparian land use is heavily modified for agricultural farming and transport purposes.	

11.9 WC DX016P






Table 8: Summary of Hydromorphological Characteristics at WC DX016P


Parameter	Details	Photograph
Channel Form	Straight, artificial or heavily modified drainage channel with trapezoidal cross section. The channel was set between agricultural fields, with a gravel track running along the left bank.	
Substrate Conditions	Bed sediment comprised silt. The agricultural setting likely contributes a considerable amount of fine sediment.	
Flow Conditions	There was standing water in the channel but no perceptible flow.	
Floodplain Characteristics	The drainage channel was completely disconnected from the adjacent floodplain, being overly deep with steep sloping banks.	
Riparian Zone	The riparian zone comprised agricultural fields, with a gravel track running along the left bank.	

Parameter	Details	Photograph
Modifications	The channel is artificial or heavily modified, and riparian land use is heavily modified for agricultural farming and transport purposes.	

11.10 WC DX017P






Table 9: Summary of Hydromorphological Characteristics at WC DX017P


Parameter	Details	Photograph
Channel Form	Straight, artificial or heavily modified drainage channel with trapezoidal cross section. The channel was set between agricultural fields.	
Substrate Conditions	Bed sediment comprised silt. The agricultural setting likely contributes a considerable amount of fine sediment.	
Flow Conditions	There was standing water in the channel but no perceptible flow.	
Floodplain Characteristics	The drainage channel was completely disconnected from the adjacent floodplain, being overly deep with steep sloping banks.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The channel is artificial or heavily modified to provide agricultural drainage, and riparian land use is heavily modified for agricultural farming purposes. The drainage channel is culverted under a field access.	

11.11 WC DX018P






Table 10: Summary of Hydromorphological Characteristics at WC DX018P

Parameter	Details	Photograph
Channel Form	Straight, artificial or heavily modified drainage channel with trapezoidal cross section. The channel was set between agricultural fields.	
Substrate Conditions	Bed sediment comprised silt. The agricultural setting likely contributes a considerable amount of fine sediment.	
Flow Conditions	There was standing water in the channel but no perceptible flow.	
Floodplain Characteristics	The drainage channel was completely disconnected from the adjacent floodplain, being overly deep with steep sloping banks.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The channel is artificial or heavily modified to provide agricultural drainage, and riparian land use is heavily modified for agricultural farming purposes.	






11.12 WC DX019P

Table 11: Summary of Hydromorphological Characteristics at WC DX019P

Parameter	Details	Photograph
Channel Form	Straight, artificial or heavily modified drainage channel with trapezoidal cross section. The channel was set between agricultural fields.	
Substrate Conditions	Bed sediment comprised silt. The agricultural setting likely contributes a considerable amount of fine sediment.	
Flow Conditions	There was standing water in the channel but no perceptible flow.	
Floodplain Characteristics	The drainage channel was completely disconnected from the adjacent floodplain, being overly deep with steep sloping banks.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The channel is artificial or heavily modified to provide agricultural drainage, and riparian land use is heavily modified for agricultural farming purposes.	






11.13 WC RVX001AP – North Beck Drain


Table 12: Summary of Hydromorphological Characteristics at WC RVC001AP - North Beck Drain

Parameter	Details	Photograph
Channel Form	Straight, artificial drainage channel with trapezoidal cross section. The channel was set between agricultural fields and was connected to North Beck at the downstream end. A field crossing disconnects the upstream length of the drainage channel from the downstream.	
Substrate Conditions	Bed sediment comprised earth/soil. The bed was vegetated with short grasses.	
Flow Conditions	The channel was completely dry. The dry, grassed channel had no signs that it had been wetted around the time of survey and is unlikely to hold water apart from during very wet periods.	
Floodplain Characteristics	The artificial drainage channel has no natural floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The channel has been artificially created to provide agricultural drainage, and riparian land use is heavily modified for agricultural farming purposes.	

11.14 WC DX022P – North Beck Drain






Table 13: Summary of Hydromorphological Characteristics at WC DX022P - North Beck Drain


Parameter	Details	Photograph
Channel Form	North Beck Drain is a chalk stream. The watercourse displayed natural sinuosity in parts, although had been straightened in the vicinity of the proposed crossing. It was incised and disconnected from the adjacent floodplain.	
Substrate Conditions	Bed substrate largely comprised fine gravels, although there was a significant input of fine sediment which likely enters the watercourse from the adjacent agricultural land. Some areas of coarser gravels were noted in the more natural wooded areas.	
Flow Conditions	There were some varying flow types, particularly where the watercourse flows through woodland as this is a more natural length with varying widths and depths. Flow was more uniform through the straightened length in the vicinity of the proposed crossing, mostly comprising of run flow type. Some areas of coarser gravels and in-channel vegetation provided some flow variation.	
Floodplain Characteristics	The watercourse was incised and disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, although the left bank was buffered by occasional trees, scrub and longer grasses. The watercourse also flowed through some small parcels of woodland.	

Parameter	Details	Photograph
Modifications	<p>The watercourse has been straightened in the vicinity, with modifications resulting in an incised channel that is disconnected from the floodplain. There is also a significant input of fine sediment, likely from the adjacent agricultural land use.</p>	

11.15 WC DX023P






Table 14: Summary of Hydromorphological Characteristics at WC DX023P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, heavily modified channel that was heavily vegetated with reeds.	
Substrate Conditions	The substrate appeared to be silty, although was largely obscured by dense reed growth.	
Flow Conditions	Standing water was present.	
Floodplain Characteristics	The watercourse was heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse has been straightened and deepened. Adjacent land use is also heavily modified for agricultural purposes.	

11.16 WC DX024P






Table 15: Summary of Hydromorphological Characteristics at WC DX024P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The substrate comprised silt.	
Flow Conditions	Standing water was present.	
Floodplain Characteristics	The watercourse was heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields and a road. There were occasional trees.	

Parameter	Details	Photograph
Modifications	<p>The watercourse has been straightened and deepened and is culverted under farm access tracks. Adjacent land use is also heavily modified for agricultural and transport purposes.</p>	

11.17 WC DX029P






Table 16: Summary of Hydromorphological Characteristics at WC DX029P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The substrate was largely obscured due to in-channel vegetation but was likely to be silty.	
Flow Conditions	Heavy in-channel vegetation growth prevented flow observations. It is likely that the channel was dry or had some areas of standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.18 WC DX030P






Table 17: Summary of Hydromorphological Characteristics at WC DX030P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The watercourse was mostly dry with some areas of standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, although one bank was buffered by scrub and occasional tree cover.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use	

Parameter	Details	Photograph
	is heavily modified for agricultural purposes.	

11.19 WC DX032P






Table 18: Summary of Hydromorphological Characteristics at WC DX032P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed so underlying substrate could not be observed.	
Flow Conditions	The watercourse was mostly dry with some areas of standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	 A photograph showing a wide, shallow watercourse or drainage ditch cutting through a field of tall, dry, brown grasses. The sky is overcast with grey clouds, and a thin line of trees is visible in the distance under a pale blue sky.

11.20 WC RVX001BP – Laceby Beck






Table 19: Summary of Hydromorphological Characteristics at WC RVX001BP - Laceby Beck


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The watercourse was dry for the upstream length of around 40 m, with standing water being present downstream.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, although the upstream length was located within a small parcel of woodland.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.21 WC DX034P






Table 20: Summary of Hydromorphological Characteristics at WC DX034P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed and had a covering of twigs and leaves.	
Flow Conditions	The channel was dry during survey and is unlikely to hold water apart from during particularly wet periods.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields and a gravel track. Some trees were also present, and a hedgerow ran along the left bank for much of the channel length.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.22 WC DX035P






Table 21: Summary of Hydromorphological Characteristics at WC DX035P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a heavily modified channel which was dry during survey. The channel planform indicates that it is natural but heavily modified.	
Substrate Conditions	The bed was silty and had a dense cover of twigs and leaves.	
Flow Conditions	The channel was mostly dry during survey but there were areas of standing water. Mounds of dumped earth were observed which will have an impact on flow during wetter periods.	
Floodplain Characteristics	The watercourse likely does not receive enough water to flood.	
Riparian Zone	The riparian zone comprised an agricultural field on the right bank and woodland on the left bank.	

Parameter	Details	Photograph
Modifications	The watercourse has been heavily modified and historically straightened.	

11.23 WC RVX001CP – Waithe Beck






Table 22: Summary of Hydromorphological Characteristics at WC RVX001CP - Waithe Beck

Parameter	Details	Photograph
Channel Form	<p>Waithe Beck is a chalk stream. The channel displayed a natural sinuosity through much of the survey length, although there was evidence of historic modification, including channel straightening, in parts. Vegetated berms were noted providing a variation in channel width. A review of mapping and aerial imagery indicates that channel straightening has occurred over a greater length.</p>	
Substrate Conditions	<p>A gravel bed was observed, although fine sediment could be seen in parts. The water was turbid and not representative of the clear waters expected in a chalk stream, indicating an input of fine sediment. It is likely that adjacent land use contributes a significant input of fine sediment.</p>	
Flow Conditions	<p>Numerous flow types were noted through the more sinuous lengths, with berms, in-channel and marginal vegetation, and woody material all helping to provide varied flow.</p>	
Floodplain Characteristics	<p>The floodplain mostly comprised agricultural fields, although a narrow strip of trees and grasses buffered the watercourse in parts.</p>	
Riparian Zone	<p>The riparian zone comprised trees, grasses, shrubs and scrub in parts, although there was a considerable encroachment of agricultural fields.</p>	

Parameter	Details	Photograph
Modifications	<p>Although the watercourse displayed a natural sinuosity over much of the surveyed length, evidence of historic straightening was present. A review of aerial imagery indicates that a greater degree of straightening has occurred beyond the surveyed length. The watercourse was culverted under a farm access track near Barnoldy Le Beck Park, and adjacent land use has been heavily modified for agricultural purposes.</p>	

11.24 WC DX037P






Table 23: Summary of Hydromorphological Characteristics at WC DX037P


Parameter	Details	Photograph
Channel Form	This watercourse occupied a narrow channel flowing through a narrow, mostly wooded corridor set within agricultural fields. Although the channel has evidently been straightened, some localised sinuosity has developed, largely driven by vegetation and woody material.	
Substrate Conditions	The bed was silty, with a covering of twigs and leaves.	
Flow Conditions	Gliding flow was observed through most of the surveyed length, although vegetation and woody material provided some flow variation.	
Floodplain Characteristics	The watercourse has been disconnected from the floodplain through historic modification including channel straightening.	
Riparian Zone	The riparian zone comprised a narrow wooded corridor surrounded by agricultural land.	

Parameter	Details	Photograph
Modifications	The watercourse has been straightened and adjacent land use has been heavily modified for agricultural use.	

11.25 WC DX038P






Table 24: Summary of Hydromorphological Characteristics at WC DX038P


Parameter	Details	Photograph
Channel Form	This watercourse occupied a narrow channel with a narrow wooded corridor on the left bank and was surrounded by agricultural fields. Although the channel has evidently been straightened, some localised sinuosity has developed, largely driven by vegetation and woody material.	
Substrate Conditions	The bed was silty, with a covering of twigs and leaves.	
Flow Conditions	Gliding flow was observed through most of the surveyed length, although vegetation and woody material provided some flow variation.	
Floodplain Characteristics	The watercourse has been disconnected from the floodplain through historic modification including channel straightening.	
Riparian Zone	The riparian zone comprised a narrow wooded corridor on the left bank which was surrounded by agricultural land, while the right bank riparian zone comprised an agricultural field.	

Parameter	Details	Photograph
Modifications	The watercourse has been straightened and adjacent land use has been heavily modified for agricultural use.	

11.26 WC DX038AP






Table 25: Summary of Hydromorphological Characteristics at WC DX038AP


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section. A linear shaped pond was connected to this drainage channel.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with some trees.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.27 WC DX039P






Table 26: Summary of Hydromorphological Characteristics at WC DX039P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straightened, heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty, although some sand and small gravels were noted in parts.	
Flow Conditions	The watercourse was flowing, with some areas of rippled flow.	
Floodplain Characteristics	The watercourse was heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under field access crossings.	 A photograph showing a person standing in a field next to a watercourse. The watercourse is narrow and appears to be a culvert or a heavily modified natural channel. The surrounding area is a grassy field with some trees and bushes in the background. The person is standing on the right side of the watercourse, and their shadow is cast on the ground. The water is dark and still.

11.28 WC DX040P






Table 27: Summary of Hydromorphological Characteristics at WC DX040P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	Flow was predominantly gliding, although there was some rippled flow where bank slumping and vegetation caused the channel to narrow.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under farm access tracks.	

11.29 WC DX041P






Table 28: Summary of Hydromorphological Characteristics at WC DX041P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water through most of the surveyed length.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with some trees.	

Parameter	Details	Photograph
Modifications	<p>The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under a farm access track.</p>	

11.30 WC DX042P






Table 29: Summary of Hydromorphological Characteristics at WC DX042P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.31 WC DX044P






Table 30: Summary of Hydromorphological Characteristics at WC DX044P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.32 WC DX046P






Table 31: Summary of Hydromorphological Characteristics at WC DX046P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section. The channel ran parallel with a road.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with some trees on one bank and a road on the other.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes. The watercourse was culverted under field access crossings.	

11.33 WC DX048P






Table 32: Summary of Hydromorphological Characteristics at WC DX048P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.34 WC DX049P






Table 33: Summary of Hydromorphological Characteristics at WC DX049P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.35 WC DX050P


Table 34: Summary of Hydromorphological Characteristics at WC DX050P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The watercourse had some flowing water which was mostly gliding, with some rippled flow where vegetation and organic material were on the channel bed.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under the A16.	 A photograph showing a culvert under a road. The culvert is a dark, rectangular opening in a concrete structure. A narrow watercourse flows through the culvert. The surrounding area is grassy and appears to be a field or agricultural land. There are some trees and bushes in the background.

11.36 WC DX051P






Table 35: Summary of Hydromorphological Characteristics at WC DX051P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with a gravel access track on the right bank.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.37 WC DX052P






Table 36: Summary of Hydromorphological Characteristics at WC DX052P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed.	
Flow Conditions	The channel was dry with a grassed bed, and is unlikely to hold water apart from during particularly wet periods.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields. There was a small group of trees also present in one location.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.38 WC DX053P






Table 37: Summary of Hydromorphological Characteristics at WC DX053P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty where water was present, but grassed were dry obscuring sediment.	
Flow Conditions	The channel had standing water in parts but was dry for much of its length.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with a gravel access track running down the right bank. There was also a barn within the riparian zone on the left bank.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.39 WC DX055P





Table 38: Summary of Hydromorphological Characteristics at WC DX055P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed along much of its length, although sand and silt were present where water was flowing.	
Flow Conditions	The channel was dry through much of its length, although flow did develop through the downstream length.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, with a road also present. A hedgerow ran long part of the watercourse length.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes and transport. The watercourse was culverted under field access crossings.	

11.40 WC DX057P




Table 39: Summary of Hydromorphological Characteristics at WC DX057P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, although one bank was buffered by occasional scrub cover.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.41 WC DX058P






Table 40: Summary of Hydromorphological Characteristics at WC DX058P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields on one bank and a road on the other.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	 A photograph showing a straight, paved road running alongside a grassy area, likely a watercourse or drainage ditch, in a rural agricultural setting. The road is dark asphalt with a white dashed line down the center. To the right of the road is a narrow strip of green grass, followed by a brownish, possibly eroded or mowed area. In the background, there are trees, utility poles, and a small building under a cloudy sky.

11.42 WC DX059P






Table 41: Summary of Hydromorphological Characteristics at WC DX059P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.43 WC DX060P






Table 42: Summary of Hydromorphological Characteristics at WC DX060P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed.	
Flow Conditions	The channel was dry and appeared unlikely to hold water apart from during particularly wet periods.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.44 WC RVX001EP – Poulton Drain






Table 43: Summary of Hydromorphological Characteristics at WC RVX001EP - Poulton Drain


Parameter	Details	Photograph
Channel Form	This watercourse has historically been straightened along field boundaries, although some sinuosity is developing. Planform change is largely driven by vegetation, with eroding banks associated with trees and in-channel woody material being observed.	
Substrate Conditions	The bed was silty, although gravels were noted in parts.	
Flow Conditions	Flow was predominantly gliding, although rippled flow and other more turbulent surface flows were observed where substrate comprised coarser material and where woody material was present.	
Floodplain Characteristics	Historic realignments and channel deepening have left the watercourse disconnected from the floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, although an area of tall grasses, herbs and scrub buffered the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse has been historically straightened along field boundaries. Adjacent land use is heavily modified for agricultural purposes.	 A photograph showing a straightened watercourse running through agricultural fields. The watercourse is a narrow, straight channel of water, bordered by grass and some brush. The surrounding land is divided into large, flat agricultural fields. The sky is overcast with grey clouds.

11.45 WC DX064P






Table 44: Summary of Hydromorphological Characteristics at WC DX064P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water in parts.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields on one side, with hedges and trees along part of its length. A road was present on the opposite side.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes. The watercourse is culverted under field access crossings.	

11.46 WC RVX001FP – Black Dyke






Table 11-45 Summary of Hydromorphological Characteristics at WC RVX001FP - Black Dyke


Parameter	Details	Photograph
Channel Form	This watercourse has been straightened to allow a road to cross. The channel was incised disconnecting it from the floodplain through much of its length.	
Substrate Conditions	Gravels were noted on the bed in parts, although silt dominated throughout.	
Flow Conditions	Flow was generally gliding, although ripples were noted over coarser substrate. Woody material from adjacent trees also provided some flow variation.	
Floodplain Characteristics	The watercourse was incised and mostly disconnected from the floodplain. Some floodplain connection likely through the woodland on the right bank.	
Riparian Zone	The riparian zone comprised agricultural fields, although a wooded and grassed corridor buffered the watercourse. Some trees and shrubs have been coppicing to promote new growth and enhance the riparian zone.	

Parameter	Details	Photograph
Modifications	The watercourse has been straightened for the road crossing and adjacent land use is heavily modified for agriculture, which likely contributes fine sediment to the watercourse.	

11.47 WC DX066P






Table 46: Summary of Hydromorphological Characteristics at WC DX066P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with occasional lone trees.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under field access crossings.	

11.48 WC DX067P






Table 47: Summary of Hydromorphological Characteristics at WC DX067P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with a narrow grass border buffering the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under field access crossings.	

11.49 WC DX068P






Table 48: Summary of Hydromorphological Characteristics at WC DX068P


Parameter	Details	Photograph
Channel Form	No watercourse exists at the proposed crossing location, however a watercourse is nearby. This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.50 WC DX071P






Table 49: Summary of Hydromorphological Characteristics at WC DX071P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields and a road.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	

11.51 WC DX072P






Table 50: Summary of Hydromorphological Characteristics at WC DX072P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water and was dry elsewhere.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with some trees and a road.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	

11.52 WC DX073P






Table 51: Summary of Hydromorphological Characteristics at WC DX073P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.53 WC DX074P






Table 52: Summary of Hydromorphological Characteristics at WC DX074P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section. The channel appears to have been dredged.	
Substrate Conditions	The bed was silty with some small areas of exposed gravels.	
Flow Conditions	Flow was gliding, with some rippled flow over coarser substrate.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under field access crossings.	

11.54 WC RVX003AP – Grayfleet Drain






Table 53: Summary of Hydromorphological Characteristics at WC RVX003AP – Grayfleet Drain

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under a road.	





11.55 WC DX080P

Table 54: Summary of Hydromorphological Characteristics at WC DX080P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	






11.56 WC DX082P


Table 55: Summary of Hydromorphological Characteristics at WC DX082P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.57 WC DX083P






Table 56: Summary of Hydromorphological Characteristics at WC DX083P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under field access crossings.	

11.58 WC DX084P

Table 57: Summary of Hydromorphological Characteristics at WC DX084P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with hedges and trees in parts.	






Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.59 WC DX086P

11.59.1 No watercourses were present at this location.

11.60 WC DX087P






Table 58: Summary of Hydromorphological Characteristics at WC DX087P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	Bed sediment was obscured by vegetation but was assumed to comprise silt.	
Flow Conditions	Flow conditions were obscured by vegetation, but the channel was assumed to have some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with occasional trees.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use	

Parameter	Details	Photograph
	is heavily modified for agricultural purposes.	

11.61 WC DX088P






Table 59: Summary of Hydromorphological Characteristics at WC DX088P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields. A gravel track also lay within the riparian zone.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.62 WC RVX002P – Long Eau






Table 60: Summary of Hydromorphological Characteristics at WC RVX002P - Long Eau


Parameter	Details	Photograph
Channel Form	This watercourse comprised a meandering channel of generally uniform width (approximately 5m). Embankments contained flow within the channel. Vegetated berms have developed within the embanked channel.	
Substrate Conditions	The bed was silty.	
Flow Conditions	Flow was gliding and slow.	
Floodplain Characteristics	The watercourse was disconnected from the floodplain by embankments of approximately 2m height.	
Riparian Zone	The riparian zone comprised agricultural fields, separated from the watercourse by grassed embankments.	

Parameter	Details	Photograph
Modifications	The watercourse has been embanked and had a considerable input of fine sediment. It is likely the embankments contribute to the fine sediment load within the watercourse by preventing overbank deposition.	 A photograph showing a watercourse with a grassy embankment on the left and a path of straw or hay along the edge. The water is visible in the channel. The background shows a flat landscape with some trees and a cloudy sky.

11.63 WC DX089P






Table 61: Summary of Hydromorphological Characteristics at WC DX089P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields and a road.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	

11.64 WC DX089AP





Table 62: Summary of Hydromorphological Characteristics at WC DX089AP

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	 A photograph showing a narrow, straight watercourse (likely a ditch or small canal) flowing through a green agricultural field. The water is dark and still. The banks are covered with dry, brownish vegetation. In the background, there is a flat horizon line under a grey, overcast sky.

11.65 WC DX090P






Table 63: Summary of Hydromorphological Characteristics at WC DX090P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water in parts but was mostly dry.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

Parameter	Details	Photograph
	The watercourse was piped under a field access crossing.	






11.66 WC DX094P


Table 64: Summary of Hydromorphological Characteristics at WC DX094P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.67 WC DX095AP – New Gayton Engine Drain






Table 65: Summary of Hydromorphological Characteristics at WC DX095AP


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	<p>The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse is culverted under an access track.</p>	

11.68 WC DX095AP






Table 66: Summary of Hydromorphological Characteristics at WC DX095AP


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed.	
Flow Conditions	The channel was dry and unlikely to hold water apart from during particularly wet periods.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields with occasional trees.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. The watercourse was culverted under field access crossings.	

11.69 WC DX097P






Table 67: Summary of Hydromorphological Characteristics at WC DX097P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was grassed.	
Flow Conditions	The channel was dry and unlikely to hold water apart from during particularly wet periods.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.70 WC DX097AP






Table 68: Summary of Hydromorphological Characteristics at WC DX097AP


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.71 WC RVX007P – Long Eau






Table 69: Summary of Hydromorphological Characteristics at WC RVX007P - Long Eau


Parameter	Details	Photograph
Channel Form	The river occupied a historically straightened channel which was embanked on both sides. The channel was approximately 5m wide with 1m high (above natural bank height) embankments.	
Substrate Conditions	The bed appeared to be silty.	
Flow Conditions	Flow was mostly gliding, with some areas of rippled flow.	
Floodplain Characteristics	The watercourse was embanked disconnecting it from the floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, with grassed embankments separating the watercourse from the riparian zone. Occasional trees were present.	

Parameter	Details	Photograph
Modifications	The watercourse has been historically straightened and embanked, disconnecting it from the floodplain and creating an artificially uniform channel. Adjacent land use has been heavily modified for agricultural purposes.	

11.72 WC DX098P






Table 70: Summary of Hydromorphological Characteristics at WC DX098P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	Flow was gliding.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields and a gravel access track.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. An outfall was present on the bank, with water discharging from it.	

11.73 WC DX099P





Table 71: Summary of Hydromorphological Characteristics at WC DX099P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields. A gravel track ran alongside the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes. A gravel track ran alongside the watercourse. The watercourse was culverted under field access crossings.	





11.74 WC DX100P

Table 72: Summary of Hydromorphological Characteristics at WC DX100P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but appeared to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	





11.75 WC DX101P

Table 73: Summary of Hydromorphological Characteristics at WC DX101P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	






11.76 WC DX102P


Table 74: Summary of Hydromorphological Characteristics at WC DX102P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there was some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.77 WC DX103P






Table 75: Summary of Hydromorphological Characteristics at WC DX103P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation, but it was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.78 WC DX104P






Table 76: Summary of Hydromorphological Characteristics at WC DX104P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.79 WC DX105P






Table 77: Summary of Hydromorphological Characteristics at WC DX105P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.80 WC DX105AP






Table 78: Summary of Hydromorphological Characteristics at WC DX105AP


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.81 WC DX106P






Table 79: Summary of Hydromorphological Characteristics at WC DX106P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields. A road ran adjacent to the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	 A photograph showing a rural landscape. In the foreground, there is a field of tall, golden-brown grasses. A wooden fence runs along the right side of the field. In the background, there is a watercourse (possibly a canal or a heavily modified stream) and some trees. The sky is clear and blue, suggesting a bright day.

11.82 WC DX107P






Table 80: Summary of Hydromorphological Characteristics at WC DX107P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed that there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields. A road ran adjacent to the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	 A photograph showing a gravel road or path extending into the distance. The road is flanked by grassy areas and some trees. In the background, there are more trees and a cloudy sky. The overall scene is rural and appears to be a site of agricultural or transport activity.

11.83 WC DX108P






Table 81: Summary of Hydromorphological Characteristics at WC DX108P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was obscured by vegetation but was assumed to be silty.	
Flow Conditions	Flow conditions were obscured by vegetation, but it was assumed there would be some standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

<p>Modifications</p>	<p>The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.</p>	
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11.84 WC DX109P






Table 82: Summary of Hydromorphological Characteristics at WC DX109P


Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water in parts.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.85 WC DX110P






Table 83: Summary of Hydromorphological Characteristics at WC DX110P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural purposes.	

11.86 WC DX011P

Table 84: Summary of Hydromorphological Characteristics at WC DX11P

Parameter	Details	Photograph
Channel Form	This watercourse comprised a straight, artificial or heavily modified channel with a trapezoidal cross section.	
Substrate Conditions	The bed was silty.	
Flow Conditions	The channel had standing water.	
Floodplain Characteristics	The watercourse was artificial or heavily modified and completely disconnected from the adjacent floodplain.	
Riparian Zone	The riparian zone comprised agricultural fields, with a road and grass buffer on one side of the watercourse.	

Parameter	Details	Photograph
Modifications	The watercourse is artificial or heavily modified. Adjacent land use is heavily modified for agricultural and transport purposes.	