

A63 Castle Street Improvement, Hull

DCO Documents Errata

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DCO Documents Errata

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P01	10 May 2019	A Sadler	C Stott	J McKenna	S4	Shared
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1 Introduction

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1.1.1 This Errata lists amendments to the Development Consent Order (DCO) documents which formed the A63 Castle Street Improvement, Hull application submitted to the Planning Inspectorate in September 2018. The Errata focuses upon corrections as opposed to typographical errors. Documents are presented in the order with which they were submitted for DCO.



2 6.1 Environmental Statement Volume 1 Main Text (APP-023)

Table 2.1: Environmental Statement Volume 1 Main Text

Page	Paragraph/ Table	Published text	Correction
<u>37</u>	<u>2.5.2</u>	In totality the areas measure approximately: Option A 332,534m ² (Arco) and Option B 332,157m ² (Staples), which is around 33 hectares (see Sections Error! Reference source not found.2.9.14 to Error! Reference source not found.2.9.15 for more details).	In totality the areas measure approximately: Option A 330,430m ² (Arco) and Option B 332,157m ² (Staples), which is around 33 hectares (see Sections Error! Reference source not found.2.9.14 to Error! Reference source not found.2.9.15 for more details).
<u>37</u>	2.5.3	The permanent area of land required for the footprint of the Scheme (excluding the land needed temporarily during construction) measures approximately79.926m². The current land use for the permanent footprint for the Scheme is primarily the existing road, associated footways, cycleways, roadside verges and central reserve. The realignment of Mytongate Junction and the addition of slip roads however require additional permanent land take from the following sites as shown on Volume 2, Figure 2.3 Scheme Site Boundary. The approximate areas are as follows:•Arco Ltd - 3,501m² • • Staples - 10m² • • • Holiday Inn - 2,249m²	The permanent area of land required for the footprint of the Scheme (excluding the land needed temporarily during construction) measures approximately79.704m². The current land use for the permanent footprint for the Scheme is primarily the existing road, associated footways, cycleways, roadside verges and central reserve. The realignment of Mytongate Junction and the addition of slip roads however require additional permanent land take from the following sites as shown on Volume 2, Figure 2.3 Scheme Site Boundary. The approximate areas are as follows:• Arco Ltd - 3,502m² • Kingston Retail Park - 822m² • Trinity Burial Ground - 2,632m² • Holiday Inn - 2,249m²
<u>38</u>	<u>2.5.4</u>	Land requiring permanent rights of access for maintenance and easement on land other than the public highway (in the vicinity of the Arco site and at Humber Dock Marina), totals approximately 23,551m ² .	Land requiring permanent rights of access for maintenance and easement on land other than the public highway (in the vicinity of the Arco site and at Humber Dock Marina), totals approximately 5,138m ² .
<u>38</u>	<u>2.5.5</u>	The Scheme Site also includes the land required temporarily to construct the Scheme. This land measures approximately 232,420m ² . It includes the sites of the Myton Centre (approximately 4,400m ²), Earl de Grey public house and Castle Buildings (approximately 968m ²) and an area within the Humber Dock Marina (approximately 8,463m ²).	The Scheme Site also includes the land required temporarily to construct the Scheme. This land measures approximately 233,291m ² . It includes the sites of the Myton Centre (approximately 4,312m ²), Earl de Grey public house and Castle Buildings (approximately 961m ²) and an area within the Humber Dock Marina (approximately 8,463m ²).
49	2.6.38	The bridge deck width would be 3m to allow for un-segregated foot and cycle use.	The bridge deck width would be 3m between parapets to allow for unsegregated foot and cycle use.

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Page	Paragraph/ Table	Published text	Correction
<u>53</u>	2.6.50	 <u>A combined footway and cycleway along</u> the length of both sides of the A63 would be provided as shown on Volume <u>2</u>, Figure 2.5 Sheets 2, 3 and 5 The <u>Scheme proposals</u>. The shared facility <u>would generally be 3m wide</u>, however there are some locations where space is restricted and the width would be reduced to a minimum of 2m as follows: <u>between Castle Buildings and</u> <u>Princes Quay car park on the north</u> side of the A63 for approximately <u>55m</u> in front of Warehouse No. 6 (Ask restaurant) on the north side of the A63 for approximately 25m in front of Humber Dock Marina, Holiday Inn and Trinity Burial Ground on the south side of the A63 for approximately 400m <u>adjacent to Kingston Retail Park and</u> in front of Arco on the south side of the A63 for approximately 450m 	 <u>A combined footway and cycleway along</u> the north side of the A63 and along Blackfriargate would be provided as shown on Volume 2, Figure 2.5 Sheets 2, 3 and 5 The Scheme proposals. The shared facility would generally be 3m wide, however there are some locations where space is restricted and the width would be reduced to a minimum of 2m as follows: in front of Castle Buildings for approximately 25m from Castle Buildings east to the rear of Princes Quay car park for approximately 122m from Castle Buildings west to the end of the Earl de Grey public house for approximately 55m
66	2.9.6	There is no traffic management requirement for phase 0.	Delete text
317	Table 10.4 Non- statutory designated sites (row 13)	SNCI Foredyke stream cycle track - south of Chambertain Road (177) No information provided 1.8km northeast	Remove row 13 from table
335	Table 10.8 Summary of valuation of ecological receptors, Ecological receptor column (row 3)	Trinity Burial Ground SNCI, River Hull SNCI	Trinity Burial Ground SNCI, River Hull SNCI, Mudflats to the south of Sammy's Point SNCI
340	10.7.17	River Hull SNCI Direct impacts to the River Hull SNCI are unlikely.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Direct impacts to the River Hull SNCI and Mudflats to the south of Sammy's Point SNCI are unlikely.
347	10.7.54	River Hull SNCI Road drainage would not discharge to the River Hull during the Operation Phase and there would therefore be no risks to water quality within the river.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Road drainage would not discharge to the River Hull during the Operation Phase and would not impact upon the River Hull SNCI or Mudflats to the south of Sammy's



Page	Paragraph/ Table	Published text	Correction
			Point SNCI. There would therefore be no risks to water quality within the river.
351	Table 10.9 Characteris ation process of ecological impacts	n/a	Replace Table 10.9 with revised Table 10.9 below. Impacts are separated into a column for construction and a column for operation as requested in WQ1.2.6 (new/revised text in red). Replacement table also takes into account changes arising from mudflats to the south of Sammy's Point SNCI as requested in WQ1.2.2 (new/revised text in red).
366	10.8.11	<i>River Hull SNCI</i> Neutral residual impacts are predicted to the River Hull SNCI during the Construction Phase, following the implementation of pollution protection mitigation measures.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Neutral residual impacts are predicted to the River Hull SNCI and Mudflats to the south of Sammy's Point SNCI during the Construction Phase, following the implementation of pollution protection mitigation measures.
369	10.8.31	 <i>River Hull SNCI</i> With no increase in noise or air pollution and no water discharges into this river, there is predicted to be neutral residual impacts to the SNCI during operation. 	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI With no increase in noise or air pollution and no water discharges into this river, there is predicted to be neutral residual impacts to these SNCIs during operation.
372	Table 10.10 Summary of ecological receptors, Ecological receptor column (row 4)	River Hull SNCI	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI
378	Table 10.10 Summary of ecological receptors, Ecological receptor column (row 11)	Aquatic Invertebrates Humber Estuary SSSI River Hull SNCI	Aquatic Invertebrates Humber Estuary SSSI River Hull SNCI Mudflats to the south of Sammy's Point SNCI
<u>385</u>	<u>11.1.6</u>	Impacts ranging from large / very large beneficial to very large adverse significance during construction include the alteration of ground elevations, which has the potential to alter flood routes depending on the scale and source of the flooding and the phase of construction. Impacts can be of adverse or beneficial significance depending on the location. Management of flood risk	Impacts ranging from very large beneficial to very large adverse significance during construction include the alteration of ground elevations, which has the potential to alter flood routes depending on the scale and source of the flooding and the phase of construction. Impacts can be of adverse or beneficial significance depending on the location. Management of flood risk during construction would be



Page	Paragraph/ Table	Published text	Correction
		during construction would be outlined in the OEMP and would include use of the Environment Agency's Flood Warning service.	outlined in the OEMP (including the Flood Emergency Plan (FEP)) and would include use of the Environment Agency's Flood Warning service
<u>386</u>	<u>11.1.10</u>	Alteration of ground elevations as a result of the Scheme result in a complex pattern of flooding impacts on the Humber floodplain primarily related to the presence of the underpass and the raising of road levels to the east and west of the underpass. Operation flood risk impacts range from large / very large beneficial to very large adverse significance depending on the location on the floodplain and the source and extent of the flooding.	Alteration of ground elevations as a result of the Scheme result in a complex pattern of flooding impacts on the Humber floodplain primarily related to the presence of the underpass and the raising/lowering of road levels to the east and west of the underpass. Operation flood risk impacts range from very large beneficial to very large adverse significance depending on the location on the floodplain and the source, extent and severity of the flooding.
	<u>11.1.11</u>	There is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Planning team who consider an appropriate response, for example, the closure of the underpass. This response would be implemented by the local emergency services. This procedure has been updated and amended to reflect the particular requirements of flooding of the underpass. The revised procedure was written in consultation with relevant stakeholders including Highways England, the emergency services and the Humber Local Resilience Forum.	There is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Planning team who consider an appropriate response, for example, the closure of the underpass. This response would be implemented by the local emergency services. This procedure has been updated and amended to reflect the particular requirements of flooding of the underpass. The revised procedure was written in consultation with relevant stakeholders including Highways England, the emergency services and the Humber Local Resilience Forum. The updated procedures include measures to enable physical closure of the underpass during flood events, including those events with minimal or no warning, such as a flood defence breach.
	<u>11.4.9</u>	The Environment Agency, to discuss existing flood risk information including flood models; agree the approach to, and discuss the outcomes of, the flood risk assessment (FRA) (including the agreement on which flood scenarios to assess) and the water quality impact assessment; and to consult on the mitigation measures for flood risk and water quality impacts from the proposed discharge into the Humber. The Environment Agency was also consulted on the approach to and findings of the groundwater assessment, as well as the groundwater modelling approach. Following a meeting in August 2018 subsequent to a review of the draft	The Environment Agency, to discuss <u>existing flood risk information</u> including flood models; agree the approach to, and discuss the outcomes of, the flood risk assessment (FRA) (including the agreement on which flood scenarios to assess) and the water quality impact assessment; and to consult on the mitigation measures for flood risk and water quality impacts from the proposed discharge into the Humber. The Environment Agency was also consulted on the approach to and findings of the groundwater assessment, as well as the groundwater modelling approach. Following a meeting in August 2018 subsequent to a review of the draft



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		FRA, the Environment Agency requested additional information on flood risk to be provided at a later date. These additional requirements are summarised in Volume 3, Appendix 11.9 Additional flood risk assessment information requirements.	FRA, the Environment Agency requested additional information on flood risk to be provided at a later date. These additional requirements are summarised in Volume 3, Appendix 11.9 Additional flood risk assessment information requirements. Detailed and regular consultation with the Environment Agency was ongoing prior to and during the DCO Examination process, the Statement of Common Ground ¹ provides details of all consultation with the Environment Agency including the provision of additional information as outlined in Volume 3, Appendix 11.9 Additional flood risk information.
402	<u>11.4.19</u>	Consultation has taken place with HCC and the Environment Agency throughout the FRA to agree the scope of the assessment, the flood scenarios to be considered and to review the results of the impact assessment and discuss mitigation measures including emergency procedures.	Consultation has taken place with HCC and the Environment Agency prior to the DCO application and during the subsequent DCO Examination process to agree the scope of the assessment, the flood scenarios to be considered and to review the results of the impact assessment and discuss mitigation measures including emergency procedures. The consultation with the Environment Agency also highlighted the requirement to consider extreme (H++) ² and the recently released UKCP18 ³ climate change allowances. Furthermore, the Environment Agency requested specific consideration of the impacts of flood defences breaches on the Scheme. Details of this consultation are provided in the relevant Statement of Common Ground ¹ and a list of the additional information provided is given in ES Volume 3, Appendix 11.9 Additional flood risk information.
<u>403</u>	<u>11.4.20</u>	The Environment Agency requested additional information on flood risk to be provided at a later date; these requirements are summarised in Volume 3, Appendix 11.9 Additional flood risk assessment information requirements.	The Environment Agency requested additional information on flood risk to be provided following the publication of the FRA with the DCO application. These requirements are summarised in Volume 3, Appendix 11.9 Additional flood risk assessment information requirements.

¹ Highways England's A63 Castle Street Improvement, Hull, TR010016, Statement of Common Ground (SoCG) with the Environment

Agency
² Environment Agency (2016). Adapting to Climate Change: Advice for Flood and Coastal Erosion Risk Management Authorities
² Environment Agency (2016). Adapting to Climate Change: Advice for Flood and Coastal Erosion Risk Management Authorities ³ Met Office (2019).UK Climate Projections (UKCP18). https://www.metoffice.gov.uk/research/collaboration/ukcp



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<u>403</u>	Table 11.4: Flooding scenarios considered in the FRA	Tidal (undefended) from Humber Estuary These scenarios consider tidal flooding from the Humber Estuary if the existing Humber flood defences were not in place. 1 in 200 Lina 20	Tidal (undefended) from Humber Estuary These scenarios consider tidal flooding from the Humber Estuary if the existing Humber flood defences were not in place. 1 in 200 plus climate change 1 in 200 plus H++ climate change		
<u>403</u>	Table 11.4: Flooding scenarios considered in the FRA	<u>n/a</u>	Add row: Humber north bank defence breaches These scenarios consider breaches of the existing Humber north bank itidal flood defences at four locations within the study area. These scenarios are based on information supplied by Hull City Council 1 in 200 plus		
<u>417</u>	11.5.38	According to the SFRA, the city of Hull, and the Scheme are protected from flooding by the existing Humber Estuary and River Hull flood defences. The Humber Estuary defences generally provide a standard level of protection to a 1 in 200-year event, but in some areas, for example, to the east of Albert Dock East the level of protection falls to a 1 in 5-year event. New flood defences have been installed in Albert Dock (completed in November 2015) which provide a standard level of protection to a 1 in 200-year event. The River Hull defences generally provide a standard level of protection greater than a 1 in 200-year event.	According to the SFRA, the city of Hull, and the Scheme are protected from flooding by the existing Humber Estuary and River Hull flood defences. The Humber Estuary defences generally provide a standard level of protection to a 1 in 200-year event, but in some areas, for example, to the east of Albert Dock East the level of protection falls to a 1 in 5-year event. New flood defences have been installed in Albert Dock (completed in November 2015) which provide a standard level of protection to a 1 in 200- year event. The River Hull defences generally provide a standard level of protection greater than a 1 in 200-year event. The Environment Agency currently have a scheme under construction (the Humber Hull Frontages ⁴) to install and upgrade 7km of flood defences on the north bank of the Humber at Hull from St. Andrew's Quay to Victoria Dock. This scheme will improve the standard of protection to the defences in the study area to 1 in 200 years plus an allowance for climate change to 2040. Climate change effects beyond 2040 will be addressed through a 'managed adaptive' approach with the defences designed and constructed to facilitate easier upgrades in the future. The Humber Hull Frontages scheme is scheduled for completion in March 2021.		
<u>418</u>	<u>11.5.42</u>	Predictions from the flood risk model developed for Volume 3 Appendix 11.2 Flood risk assessment confirm that under baseline conditions:	Predictions from the flood risk model developed for Volume 3 Appendix 11.2 Flood risk assessment confirm that under baseline conditions:		
		<u>minor surface water flooding to the</u> north and east of the Scheme. There	<u>minor surface water flooding to the</u> north and east of the Scheme. There		

⁴ https://consult.environment-agency.gov.uk/yorkshire/humber-hull-frontages/



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		 was no predicted surface water flooding within the Scheme area. In the vicinity of the Scheme Site, predicted flooding under a 1 in 200- year return period wave overtopping event from the Humber Estuary reaches the periphery of the Scheme area resulting in flooding to the west and south of Mytongate Junction and parts of Kingston Retail Park. This assumes the existing Humber flood defences are in place and the Albert Dock gate is closed. Without the Humber north bank flood defences, the extent of flooding under a 1 in 200-year return period tidal event is widespread with significant areas of Hull affected. Flood depths reach a maximum of 1.2m along the existing A63. The failure of the Hull Tidal Surge Barrier to close would result in extensive flooding west of the River Hull (the flood risk model does not consider the area to the east of the River Hull) under a tidal event with a return period of 1 in 200-years. The A63 east of Mytongate Junction is flooded up to a maximum of 1m in places with flooding extending north of Mytongate Junction to Ferensway and Anlaby Road. It is noted that the failure of the Hull Tidal Surge Barrier to close during a high tide event is extremely unlikely as it is fitted with a system to automatically close the 	 was no predicted surface water flooding within the Scheme area. Predicted flooding under a 1 in 200- year return period wave overtopping event from the Humber Estuary reaches the Scheme area resulting in flooding of the A63 to the east of Mytongate Junction and parts of Kingston Retail Park. During such an event, the underpass would be flooded. This assumes the existing Humber flood defences are in place and the Albert Dock gate is closed. Without the Humber north bank flood defences, the extent of flooding under a 1 in 200-year return period tidal (i.e. undefended) event is widespread with significant areas of Hull and all of the Scheme site area affected. Flood depths reach a maximum of 0.38m along the existing A63. The failure of the Hull Tidal Surge Barrier to close would result in extensive flooding west of the River Hull (the flood risk model does not consider the area to the east of the River Hull) under a tidal event with a return period of 1 in 200-years. The A63 to east of Mytongate Junction is flooded up to a maximum of 0.47m in places with flooding extending north of Mytongate Junction to Ferensway and Anlaby Road. It is noted that the failure of the Hull Tidal Surge Barrier to close during a high tide event is extremely unlikely as it is fitted with a
		barrier if the power fails.	system to automatically close the barrier if the power fails.
<u>439</u>	<u>11.6.17</u>	Mitigation of extreme flooding impacts from tidal, fluvial and pluvial sources during construction should be considered in the OEMP. The construction of the underpass would create excavations where construction workers and plant would be at risk. Standby temporary pumping arrangements may be required to remove any flood water and this would be subject to best practice guidance to control discharges to sewer or surface waters. Emergency and evacuation procedures would be incorporated into the OEMP in response to all sources of flooding and would include use of the Environment Agency Flood Warning service.	Mitigation of extreme flooding impacts from tidal, fluvial and pluvial sources during construction should be considered in the OEMP and detailed in a Flood Emergency Plan (FEP) prior to construction. The construction of the underpass would create excavations where construction workers and plant would be at risk. Standby temporary pumping arrangements may be required to remove any flood water and this would be subject to best practice guidance to control discharges to sewer or surface waters. Emergency and evacuation procedures would be incorporated into the OEMP and FEP in response to all sources of flooding and would include use



Correction	Published text	Paragraph/ Table	Page
of the Environment Agency Flood Warning service.			
chFor extreme tidal flooding events such those witnessed on 5 December 2013 there is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Plann team at the North East Regional Cont 	 For extreme tidal flooding events such as those witnessed on 5 December 2013, there is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Planning team at the North East Regional Control Centre (NERCC) who consider an appropriate response, for example, the closure of the underpass. This procedure is currently being reviewed for the Scheme. The Flood Emergency Evacuation Plan Report is appended to Volume 3. Appendix 11.2 Flood risk assessment. A summary of the key aspects of the Plan are provided below: Upon receipt of a flood alert, personnel from the Area Maintenance Team (AMT) and key assets (including a high-volume pump owned by Highways England) will be put on 'standby' for deployment. Upon receipt of a flood warning, the NERCC will monitor the underpass via CCTV, variable message signs (VMS) will be activated to direct traffic away from the underpass and personnel from the AMT will be moved closer to the underpass to put in place a physical road closure, if required. Upon receipt of a severe flood warning, the high-volume pump will be moved to the underpass and a physical road closure will be put in place by the AMT personnel. VMS will direct traffic away from the underpass and a physical road closure will be put in place by the AMT personnel. VMS will direct traffic away from the underpass and a physical road closure will be put in place by the AMT personnel. VMS will direct traffic away from the underpass will be monitored via CCTV. All relevant measures outlined above would remain in place until a 'Warnings no longer in force' notification is issued by the Environment Agency. The underpass pumping station would have high volume alarms to alert the NERCC to pump failure, which would trigger the above closure responses, if required. This would only be required in the event to the underpase will be move to the underpase will be move to the underpase to put in place by the AMT pers	11.6.35	442
d to Agency, Hull City Council, services and Highways Err Scheme. The Flood Emern Scheme. The Flood Emern ow: Evacuation Plan Report is Volume 3, Appendix 11.2 assessment. A summary of aspects of the Plan are propersion of a flood personnel from the Arr md) personnel from the Arr ream (AMT) and key at (including a temporary) volume pump owned be England) will be put or deployment. • upon receipt of a flood NERCC will monitor the CCTV, variable messa or o put will be activated to dire if from the underpass to put ir will physical road closure, a • Upon receipt of a severe in warning, the high-volu IS moved to the underpass physical road closure, place by the AMT pers direct traffic away from and long pre-agreed s diversion routes. The pression routes. The person include be rapidly put in place underpass closed, in t minimal or no warning such as a defence bre · ounderpass no longer ir Marnings n	 Evacuation Plan Report is appended to Volume 3, Appendix 11.2 Flood risk assessment. A summary of the key aspects of the Plan are provided below: Upon receipt of a flood alert, personnel from the Area Maintenance Team (AMT) and key assets (including a high-volume pump owned by Highways England) will be put on 'standby' for deployment. Upon receipt of a flood warning, the NERCC will monitor the underpass via CCTV, variable message signs (VMS) will be activated to direct traffic away from the underpass and personnel from the AMT will be moved closer to the underpass to put in place a physical road closure, if required. Upon receipt of a severe flood warning, the high-volume pump will be moved to the underpass and a physical road closure will be put in place by the AMT personnel. VMS will direct traffic away from the underpass and long pre-agreed strategic diversion routes. The underpass will be monitored via <u>CCTV.</u> All relevant measures outlined above would remain in place until a 'Warnings no longer in force' notification is issued by the Environment Agency. The underpass pumping station would have high volume alarms to alert the NERCC to pump failure, which would trigger the above closure responses, if required. This would only be required in the event of a failure of all other warnings and 		



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		 would provide a last chance warning of flooding of the underpass. The plan would be under the ownership of Highways England with a review every 2 years. 	 volume pumps will be deployed in combination with the underpass surface water pumping station to drain the underpass of flood waters. Following this, the AMT will clear the carriageway and an assessment will be made as to whether the underpass can safely be re-opened to traffic. The underpass pumping station would have high volume alarms to alert the NERCC to pump failure, which would trigger the above closure responses, if required. This would only be required in the event of a failure of all other warnings and would provide a last chance warning of flooding of the underpass. The plan would be under the ownership of Highways England with a review every 3 years.
443	<u>11.6.36</u>	The flood defences at Albert Dock have been upgraded by the Environment Agency in 2015 which provides a 1 in 100 to 1 in 200-year standard of protection. Furthermore, there are current proposals to upgrade remaining sections of the Humber North Bank flood defences as part of the £42m Humber Hull Frontages projects. The standard of protection of the Scheme would be for a return period of 1 in 200 years with an allowance for climate change to the 2040s. The remaining climate change allowance would be accounted for with a 'managed adaptive approach' which would allow for easier upgrading of the defences in the future. Further details will be provided in line with Volume 3, Appendix 11.9 Additional flood risk information requirements.	The flood defences at Albert Dock have been upgraded by the Environment Agency in 2015 which provides a 1 in 100 to 1 in 200-year standard of protection. Furthermore, the Humber Hull Frontages ⁴ defence upgrade scheme is currently under construction and scheduled for completion in 2021. The standard of protection of the Scheme would be increased to a return period of 1 in 200 years with an allowance for climate change to the 2040s. The remaining climate change allowance would be accounted for with a 'managed adaptive approach' which would allow for easier upgrading of the defences in the future. Further details are provided in line with Volume 3, Appendix 11.2 Flood risk assessment.
<u>455</u>	Table11.15:Significance ofpotentialresidualimpacts onsurfacewaterfeaturesduringconstruction	<u>n/a</u>	Amend Table 11.15 row "Changes in flood flow routes due to alteration of ground elevations and construction of structures" as below. (New text in red).
<u>486</u>	<u>11.7.68</u>	A summary of the impacts is provided in Table 11.16 for scenarios with the greatest impact for a given flooding	A summary of the impacts is provided in Table 11.18 for scenarios with the greatest impact for a given flooding



Page	Paragraph/ Table	Published text	Correction
		source. The magnitude of the impact is defined in Table 11.2 and significance in Table 11.3. Climate change impacts are discussed in Section 11.8.	source. The magnitude of the impact is defined in Table 11.2 and significance in Table 11.3. Climate change impacts are discussed in Section 11.8. Furthermore, the spatial pattern and magnitude of impact is dependent on the inclusion or exclusion of the central vertical concrete barrier (VCB) along the mainline within the Scheme. Table 11.18 presents a summary of impacts for both scenarios, i.e. VCB included in the Scheme and VCB excluded from the Scheme. The assessment provided in the paragraphs below is based on scenarios with the VCB included.
487	Table 11.18 Summary of magnitude of peak	n/a	Replace Table 11.18 with revised Table 11.18 below <u>in accordance with</u> comments on WQ1.10.9
<u>489</u>	<u>11.7.70</u>	Flooding to the Scheme from a 1 in 200- year return period wave overtopping event from the Humber is predicted to reach the periphery of the Scheme study area, which would result in some increased flooding in Queen's Gardens resulting in an impact of moderate adverse magnitude (Table 11.18).	During a 1 in 200-year return period wave overtopping event from the Humber flooding is predicted to reach the Scheme area and flood the A63 carriageway east of Mytongate Junction as well as flooding the underpass itself. Areas to the north and south of the eastern extent of the Scheme as well as Queen's Gardens and Kingston Retail Park would have increased flooding resulting in an impact of major adverse magnitude (Table 11.18).
<u>490</u>	<u>11.7.71</u>	<u>Conversely to the above, the Scheme</u> <u>decreases maximum predicted flood</u> <u>depths within the boundary of the</u> <u>Scheme Site resulting in an impact of</u> <u>minor beneficial magnitude (Table</u> <u>11.18).</u>	Conversely to the above, the Scheme decreases maximum predicted flood depths within the boundary of the Scheme Site as well as in areas to the north of Mytongate Junction resulting in an impact of major beneficial magnitude (Table 11.18).
<u>490</u>	<u>11.7.72</u>	Flooding from a wave overtopping event from the Humber for a 1 in 1000-year event is predicted to extend north of the Scheme Site beyond Hull Royal Infirmary and to flood the proposed underpass. Under this scenario, predicted maximum flood depths in the underpass structure and westbound exit slip road are 6m and 2.05m respectively; an impact of major adverse magnitude (Table 11.18). There is a predicted increase in flood depth in the Kingston Retail Park car park under the Scheme scenario of 0.40m; an impact of minor adverse magnitude (Table 11.18). The proposed underpass would prevent some flood water extending northwards	Flooding from a wave overtopping event from the Humber for a 1 in 1000-year event is predicted to extend north of the Scheme Site beyond Hull Royal Infirmary and to flood the proposed underpass. Under this scenario, predicted maximum flood depths in the underpass structure and westbound exit slip road are 5.8m and 2.05m respectively; an impact of major adverse magnitude (Error! Reference source not found.Table 11.18). There is a predicted increase in flood depth in the Kingston Retail Park car park under the Scheme scenario of 0.30m; an impact of major adverse magnitude (Error! Reference source not found.Table 11.18). Increases in flood



Page	Paragraph/ Table	Published text	Correction
		past Mytongate Junction resulting in a decrease in predicted flood depth by up to 0.1m in the area between Anlaby Road and Castle Street; an impact of moderate beneficial magnitude (Table 11.18). Impacts of minor beneficial magnitude also occur within the Scheme Site Boundary (not including the underpass and westbound exit slip road) due to an increase in ground levels. Impacts of minor beneficial magnitude also occur in areas to the north-west of St Stephen's Shopping Centre.	depth of a major adverse magnitude are also present south of the Scheme to the west of the underpass (around Waverley Street and Kingston Retail Park) and moderate to major adverse magnitude to the south of the eastern extent of the Scheme (around Blanket Row and Blackfriargate). The proposed underpass would prevent some flood water extending northwards past Mytongate Junction resulting in a decrease in predicted flood depth by up to 0.2m in the area around Myton Street; an impact of major beneficial magnitude (Error! Reference source not found. <u>Table</u> 11.18). Impacts of major beneficial magnitude also occur within the Scheme Site Boundary (not including the underpass and westbound exit slip road) due to an increase in ground levels. Impacts of major beneficial magnitude also occur in areas to the of the Scheme including Princes Dock, Market Place and the surrounding streets.
490	<u>11.7.73</u>	Tidal flooding of the Scheme from the River Hull could occur in the event of the Hull Tidal Surge Barrier failing to close. This is unlikely as it incorporates a system to automatically close the barrier in the event of a power failure. However, if the barrier failed to close, under a 1 in 200-year event the underpass structure would be flooded to a predicted maximum depth of 3.4m and the westbound diverging slip road would be flooded to a maximum depth of 0.65m; both impacts of major adverse magnitude (Error! Reference source not found.Table 11.18). Consequently, the presence of the underpass has the effect of preventing flood flows reaching the area north and west of Mytongate Junction, particularly around the Junction of Ferensway and Anlaby Road as well as the area south of Mytongate Junction (Kingston Retail Park car park and Trinity Burial Grounds) removing flood waters in both of these locations, resulting in an impact of moderate beneficial magnitude (Error! Reference source not found.Table 11.18). There would be a predicted increase in maximum flood depths in the Humber and Railways Docks resulting in an impact of minor adverse magnitude (Error! Reference source not found.Table 11.18). Consequently,	Tidal flooding of the Scheme from the River Hull could occur in the event of the Hull Tidal Surge Barrier failing to close. This is unlikely as it incorporates a system to automatically close the barrier in the event of a power failure. However, if the barrier failed to close, under a 1 in 200- year event the underpass structure would be flooded to a predicted maximum depth of 3.4m and the westbound diverging slip road would be flooded to a maximum depth of 0.65m; both impacts of major adverse magnitude (Error! Reference source not found.Table 11.18). Consequently, the presence of the underpass has the effect of preventing flood flows reaching the area north and west of Mytongate Junction, particularly around the Junction of Ferensway and Anlaby Road as well as the area south of Mytongate Junction (Kingston Retail Park car park and Trinity Burial Grounds) removing flood waters in both of these locations, resulting in an impact of major beneficial magnitude (Error! Reference source not found.Table 11.18). There would be a predicted increase in maximum flood depths in Princes Dock resulting in an impact of major adverse magnitude although levels in the Humber and Railway Docks would be reduced resulting in an impact of major beneficial magnitude (Error! Reference source not

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		flood flows are diverted towards the Princes Quay water body, with a predicted maximum flood depth of 0.60m in the water body; an impact of moderate adverse magnitude (Error! Reference source not found.Table 11.18).	found.Table 11.18). Streets to the north and south of the eastern Scheme extent would see flood depth increases ranging from moderate to major adverse magnitude.	
<u>490</u>	<u>11.7.74</u>	The predicted impact of the Scheme on tidal flooding from the River Hull under a 1 in 1000-year event with the Hull Tidal Surge Barrier failing to close results in the same impact magnitudes as described above for the 1 in 200-year event. The more extensive flooding (greater predicted flood depths) in this event result in the flooding of Humber and Railway docks, with an increase in predicted flood depth of 1.03m under the Scheme scenario; an impact of major adverse magnitude (Error! Reference source not found.Table 11.18). Under this scenario, the proposed underpass is completely flooded with flood waters beginning to extend westwards along the A63. However, the extent of beneficial effects is greater south of the existing A63, in Kingston Retail Park and areas to the north of the A63 around St Luke's Street and Osborne Street resulting in an impact of moderate beneficial magnitude.	The predicted impact of the Scheme on tidal flooding from the River Hull under a 1 in 1000-year event with the Hull Tidal Surge Barrier failing to close results is similar to that described above for the 1 in 200-year event. Impacts of moderate and major adverse magnitude are predicted in areas to the south-east and south-west of the underpass respectively (Error! Reference source not found.Table 11.18). Under this scenario, the proposed underpass is completely flooded with flood waters beginning to extend westwards along the A63. However, the extent of beneficial effects is greater in areas to the north of the A63 around St Luke's Street and Osbourne Street resulting in an impact of major beneficial magnitude. Under this scenario, there is no beneficial impact at Humber Dock Marina. The magnitude of the adverse impact is reduced to moderate adverse at Princes Dock compared to large adverse for the 1 in 200-year event.	
<u>495</u>	Table11.20:Significance ofpotentialresidualimpacts onsurfacewaterfeaturesduringoperation	<u>n/a</u>	Amend Table 11.20 row "Alteration of flood flow routes due to the changes in ground levels and construction of structures" as below. (New text in red).	
503	<u>11.8.1</u>	Conversely, the impact of climate change on rising sea levels and wave height has significant effects on the flooding in Hull. Sea levels are predicted to increase by 1.125m between 2011 and 2125 and wave heights are expected to increase by 10%. When incorporating climate change impacts into the flood risk predictions for the 1 in 200-year return period wave overtopping from the Humber Estuary, the area of the flooding extends well beyond the	Conversely, the impact of climate change on rising sea levels and wave height has significant effects on the flooding in Hull. Sea levels are predicted to increase by 1.125m between 2011 and 2115 and wave heights are expected to increase by 10%. When incorporating climate change impacts into the flood risk predictions for the 1 in 200-year return period wave overtopping from the Humber Estuary, the area of the flooding extends well beyond the	



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		boundaries of the Scheme Site reaching depths of up to 1.20m in the study area.	boundaries of the Scheme Site reaching depths of up to 1.20m in the study area.
<u>504</u>	<u>11.8.1</u>	<u>n/a</u>	Add as follows: • Extreme (H++) ² allowances for the effects of climate change on sea level rise were considered for 'undefended' tidal flooding from the Humber Estuary. The extent of flooding and magnitude of impacts as a result of the Scheme were similar to those for the 1 in 200-year undefended tidal flooding from the Humber Estuary.
			<u>Revised climate change allowances</u> <u>for mean sea level rise were</u> <u>released in December 2018, known</u> <u>as UKCP18³. Further information on</u> <u>these allowances is provided in</u> <u>Volume 3 Appendix 11.2 Flood Risk</u> <u>Assessment.</u>
<u>507</u>	<u>11.10.1</u>	An exception to this is that alterations of ground elevations during construction would alter flood flow routes and result in potential residual impacts ranging from very large adverse in some areas to large / very large beneficial significance in other areas on the Humber floodplain.	An exception to this is that alterations of ground elevations during construction would alter flood flow routes and result in potential residual impacts ranging from very large adverse in some areas to very large beneficial significance in other areas on the Humber floodplain.
508	<u>11.10.6</u>	There is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Planning team who consider an appropriate response, for example, the closure of the underpass. This response would be implemented by the local emergency services. This procedure has been updated and amended to reflect the particular requirements of flooding of the underpass. The revised procedure was written in consultation with relevant stakeholders including Highways England, the emergency services and the Humber Local Resilience Forum.	There is an existing procedure in place whereby flood alerts from the Environment Agency are issued to the Highways England Emergency Planning team who consider an appropriate response, for example, the closure of the underpass. This response would be implemented by the Area Maintenance Team on behalf of Highways England. This procedure has been updated and amended to reflect the particular requirements of flooding of the underpass. The revised procedure was written in consultation with relevant stakeholders including Highways England, the emergency services and the Humber Local Resilience Forum. These revised procedures, known as the Flood Emergency and Evacuation Plan, include measures to enable the safe and rapid physical closure of the underpass in the event, such as a flood defence breach.
<u>592</u>	Table 14.8 Private property	1A. Arco Ltd	1A. Arco Ltd



Page	Paragraph/ Table	Published text	Correction
	and associated land take – predicted effects/row 2	Temporary land take at Arco Ltd (Option A): Option A would involve the site currently held by Arco Ltd being used as a bentonite farm / concrete batching plant / materials treatment / jet grouting compound. In this scenario, a total of 14,407m ² temporary land take is likely to be required. This is the preferred site for the compound.	Temporary land take at Arco Ltd (Option A): Option A would involve the site currently held by Arco Ltd being used as a bentonite farm / concrete batching plant / materials treatment / jet grouting compound. In this scenario, a total of 14,409m ² temporary land take is likely to be required. This is the preferred site for the compound.
<u>592</u>	Table 14.8 Private property and associated land take – predicted effects/row 4	Permanent land take at Arco Ltd (Option A): If the Arco site is used, it is anticipated that there will be approximately 3,501m ² of permanent land take at Arco Ltd and 1,764m ² of 'permanent rights' required.	Permanent land take at Arco Ltd (Option A): If the Arco site is used, it is anticipated that there will be approximately 3,502m ² of permanent land take at Arco Ltd and 1,766m ² of 'permanent rights' required.
<u>592</u>	Table 14.8 Private property and associated land take – predicted effects/row 5	Temporary land take at Staples site (Option A): Option A: If the Arco site is used, the Staples site would experience 71m ² of temporary land take and the buildings would not be demolished.	Temporary land take at Staples site (Option A): Option A: If the Arco site is used, the Staples site would experience 108m ² of temporary land take and the buildings would not be demolished.
<u>594</u>	Table 14.8Privatepropertyandassociatedland take –predictedeffects/row20	Temporary land take at the Myton Centre: Land take would be required at the Myton Centre of 3,994m ² . It is proposed the site will be used as a temporary car park for contractor staff working. It will be used for the full 5-year construction period. Current land use: HCC property.	Temporary land take at the Myton Centre: Land take would be required at the Myton Centre of 4,312m ² . It is proposed the site will be used as a temporary car park for contractor staff working. It will be used for the full 5-year construction period. Current land use: HCC property.
<u>595</u>	Table 14.8Privatepropertyandassociatedland take –predictedeffects/row24	Temporary land take at Kingston Retail Park (Option A): It is anticipated that 6,737m ² will be acquired for the project from the Kingston Retail Park under Option A (Arco). This would involve the loss of parking spaces impacting on retail outlets ability to trade	Temporary land take at Kingston Retail Park (Option A): It is anticipated that 6,733m ² will be acquired for the project from the Kingston Retail Park under Option A (Arco). This would involve the loss of parking spaces impacting on retail outlets ability to trade
<u>595</u>	Table 14.8 Private property and associated land take – predicted effects/row 26	Permanent land take at Kingston Retail Park (Option A): 937m ² likely to be acquired. Due to the constraints of the Scheme corridor, land-take from Kingston Retail Park is unavoidable. The Scheme footprint has been reduced as much as possible but operational and safety requirements dictate that some parking spaces would be permanently	Permanent land take at Kingston Retail Park (Option A): 822m ² likely to be acquired. Due to the constraints of the Scheme corridor, land-take from Kingston Retail Park is unavoidable. The Scheme footprint has been reduced as much as possible but operational and safety requirements dictate that some parking spaces would be permanently



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		lost, potentially impacting on the ability of the retail outlets located there to trade as before.	lost, potentially impacting on the ability of the retail outlets located there to trade as before.
<u>609</u>	<u>15.1.4</u>	Provisions for NMUs as part of the operational scheme include new combined footway and cycleway facilities, pedestrian, cycle and disabled user bridges at Porter Street and Princes Quay, signalised crossings at Mytongate Junction and a reconfigured ramp from the A63 to High Street.	Provisions for NMUs as part of the operational scheme include new combined footway and cycleway facilities to the north of the A63 and along Blackfriargate, improving the footway to the south of the A63, pedestrian, cycle and disabled user bridges at Porter Street and Princes Quay, signalised crossings at Mytongate Junction and a reconfigured ramp from the A63 to High Street.
<u>631</u>	<u>15.7.4</u>	To the east of Mytongate Junction, existing signalised crossings close to Humber Dock Street and at Market Place would be maintained until phase 3, whilst improvements would be made to High Street for NMUs (as detailed in 15.6.8 below) during phase 0.	To the east of Mytongate Junction, existing signalised crossings across the A63 close to Humber Dock Street and at Market Place would be maintained until phase 3, whilst improvements would be made to High Street for NMUs (as detailed in 15.6.8 below) during phase 0.
632	15.7.4	A free 'shuttle bus' service would also be provided during construction, and this would pick up and drop off NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities.	A free 'shuttle bus' service would also be provided if feasible during construction, and this would pick up and drop off NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities.
<u>632</u>	<u>15.7.6</u>	 <u>A combined footway and cycleway</u> would be provided on both sides of the A63, along its length. This is shown on Volume 2, Figure 15.2. The shared facility would generally be 3m wide, however there are some locations where space is restricted and the width would be reduced to a minimum of 2m as follows: <u>between Castle Buildings and</u> Princes Quay car park on the north side of the A63 for approximately 55m in front of Warehouse No. 6 (Ask restaurant) on the north side of the A63 for approximately 25m in front of Humber Dock Marina, Holiday Inn and Trinity Burial Ground on the south side of the A63 for approximately 400m adjacent to Kingston Retail Park and in front of Arco on the south side of the A63 for approximately 450m 	 <u>A combined footway and cycleway would</u> <u>be provided to the north of the A63 and</u> <u>along Blackfriargate, whilst the footway to</u> <u>the south of the A63 would be improved.</u> <u>This is shown on Volume 2, Figure 15.2.</u> <u>The shared facility would generally be 3m</u> wide, however there are some locations where space is restricted and the width would be reduced to a minimum of 2m as follows: <u>in front of Castle Buildings for</u> <u>approximately 25m</u> <u>from Castle Buildings east to the rear of</u> <u>Princes Quay car park for</u> <u>approximately 122m</u> <u>from Castle Buildings west to the end of</u> <u>the Earl de Grey public house for</u> <u>approximately 55m</u>
<u>634</u>	Table 15.9: Constructio <u>n – views</u> from the road	Travelling east, there would be direct views of construction. This would include views of works to create footways and cycleways on either side	Travelling east, there would be direct views of construction. This would include views of works to create shared footways and cycleways to the north of the Scheme



Page	Paragraph/ Table	Published text	Correction	
	assessment : Location Hessle Road (A63 between St James Street and the Mytongate Junction, including the Junction/Co mmentary	of the Scheme as well as soft landscaping.	and along Blackfriargate to the south of the A63 as well as soft landscaping.	
645	15.8.8	Mitigation such as the provision of a free 'shuttle bus' and signed diversion routes would minimise effects for NMUs.	Mitigation such as the provision of a free 'shuttle bus' if feasible and signed diversion routes would minimise effects for NMUs.	
<u>645</u>	Table <u>15.11:</u> <u>Constructio</u> <u>n stage</u> (temporary) <u>effects for</u> <u>the main</u> <u>NMU</u> <u>journeys:</u> <u>Location</u> <u>1/Comment</u> <u>ary</u>	During construction, temporary diversions are likely to be required whilst works are undertaken to upgrade the footway to a combined footpath/cycleway, which would result in a significant effect due to journey time increases and also a reduction in journey experience/amenity due to the presence of construction plant and construction noise/dust for the full duration of construction.	During construction, temporary diversions are likely to be required whilst works are undertaken to upgrade the footway to a combined footpath/cycleway to the north of the A63 and to realign or improve the footway to the south of the A63, which would result in a significant effect due to journey time increases and also a reduction in journey experience/amenity due to the presence of construction plant and construction noise/dust for the full duration of construction.	
<u>646</u>	Table15.11:Construction stage(temporary)effects forthe mainNMUjourneys:Location3/Commentary	During construction, temporary diversions are likely to be required whilst works are undertaken to upgrade the footway to a combined footpath/cycleway.	During construction, temporary diversions are likely to be required whilst works are undertaken to upgrade the footway on the north side of the A63 to a combined footpath/cycleway and to realign or improve the footway to the south of the A63.	
<u>647</u>	Table15.11:Construction stage(temporary)effects forthe mainNMUjourneys:Location8/Commentary	The crossing adjacent to Humber Dock Street is anticipated to remain open for the first 2 phases of construction, which would ensure that journey times are unaffected. During phase 3 the signal controlled crossings at Humber Dock Street and Market Place are anticipated to be closed, and NMUs diverted towards the underpass at High Street, which would result in a temporary significant effect due to journey time increases.	The crossing adjacent to Humber Dock Street is anticipated to remain open for the first 2 phases of construction, which would ensure that journey times are unaffected. During phase 3 the signal controlled crossings at Humber Dock Street and Market Place across the A63 are anticipated to be closed, and NMUs diverted towards the underpass at High Street, which would result in a temporary significant effect due to journey time increases.	



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<u>648</u>	Table15.11:Construction stage(temporary)effects forthe mainNMUjourneys:Location17/Commentary	Upgrades to the existing footway the A63 to provide a continuous combined footway cycleway would be the permanent solution and is therefore considered within the operational stage assessment.	Upgrades to the existing footway along the south of the A63 would be the permanent solution and is therefore considered within the operational stage assessment.
<u>657</u>	Table <u>15.13:</u> <u>Permanent</u> <u>impacts of</u> <u>the Scheme</u> <u>on NMUs:</u> <u>Location</u> <u>1/Comment</u> <u>ary</u>	The provision of a combined footway and cycleway for the full length of the Scheme to the north of the A63, and footway to the south, would be considered beneficial for NMUs, as the new pavement has potential to improve journey quality.	The provision of a combined footway and cycleway for the full length of the Scheme to the north of the A63, along Blackfriargate to the south and improved footway to the south of the A63, would be considered beneficial for NMUs, as the new pavement has potential to improve journey quality.
<u>662</u>	Table15.13:Permanentimpacts ofthe Schemeon NMUs:Location17/Changein facilities	Vehicular access stopped up. NMU access maintained. With the combined footway and cycleway to the south of the A63.	Vehicular access stopped up. NMU access maintained with the footway to the south of the A63.
<u>662</u>	Table15.13:Permanentimpacts ofthe Schemeon NMUs:Location17/Commentary	The removal of vehicle access at this location, whilst maintaining access for NMUs for the Holiday Inn, would be of benefit for NMUs by removing the potential for conflict with vehicular traffic, and subsequently improving amenity through the continuation of the combined footway and cycleway.	The removal of vehicle access at this location, whilst maintaining access for NMUs for the Holiday Inn, would be of benefit for NMUs by removing the potential for conflict with vehicular traffic, and subsequently improving amenity through the continuation of the footway.
<u>663</u>	Table15.13:Permanentimpacts ofthe Schemeon NMUs:Location19/Changein facilities	No access between the A63 and Humber Dock Street. Combined cycleway and footway provided along the A63 (3m wide here). Ramped access to Princes Quay Bridge also provided in this location.	No access between the A63 and Humber Dock Street. Footway provided along the A63 (3m wide here). Ramped access to Princes Quay Bridge also provided in this location.
<u>663</u>	Table 15.13: Permanent impacts of the Scheme on NMUs: Location	The combined footway and cycleway along the A63 would be continued in this location.	The footway along the A63 would be continued in this location.



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	<u>19/Comme</u> ntary		
684	Table 16.7 Significanc e of combined effects	n/a	Replace Table 16.7 with revised Table 16.7 below as discussed in comments on WQ1.10.10. (new/revised text in red).



ES Table 10.9: Characterisation process of ecological impacts (revised)

Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
			SI: -ve	Drainage design would ensure that adequate surface water interceptors are	Risk of accidental indirect
	Potential impacts from piling into Humber Dock Marina during construction of Princes Quay footbridge would include noise, vibration, dust, sedimentation, groundwater contamination and silting. Potential air quality impact small % of NOx increase on existing amounts. Potential death, injury or disturbance to marine fauna during construction of Princes Quay footbridge.	Potential discharge of pollution from A63 to enter the Estuary through drainage system. Unknown impact on tidal mud and shales. (Drainage design has since changed and surface water will be entering the existing Yorkshire Water system). Potential pollution impacts during operation from spillages in underpass due to higher drainage area. Potential air quality impact small % of NOx increase on existing amounts.	PO: unlikely	incorporated. Surface water would discharge onto existing rock armour in the	Impact. Small and unlikely to be Significant (Design must ensure no residual impact) Scheme certain to be insignificant in terms of air quality Noise levels in parts of the site during operation would reduce. Water quality would not be significantly impacted during operation. Probable. Impacts to the Humber Estuary designated sites has been concluded as not significant in the HRA
			CO: indirect	Trained marine fauna ecologists would act as observers to check that the dock area and up to 500m beyond the dock gates is clear of marine animals. The dock gates would be closed during piling to control and contain silt and sediment and absorb noise and vibration from entering the Humber Estuary. A soft start-up of machinery to disperse any potential fish, birds or mammals present in	
Humber Estuary Value: International			EC: small		
Conservation of Habitats and Species			SZ: not assessed		
Regulations 2017			RE: not assessed		
			DU: Permanent		
			TF: N/A	Impacts from piling fully assessed in AIES. Temporary protection during construction detailed in CEMP.	Screening Report for Princes Quay currently undergoing consultation.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
				Current amounts of NOx already exceed environmental standards. Very small negligible increase. Water quality would not be impacted by operational discharges and spillages as underpass drainage system would incorporate a shut-off valve and below-ground attenuation units to allow isolation and containment of contaminants.	
Trinity Burial Ground SNCI Value: County-/ /Unitary Authority Area Hull City Council designation	Permanent loss of 36 veteran mature trees (additional 36 to facilitate disinterment) and woodland understorey. Lighting of SNCI during construction at night and light pollution from new junctionJunction during operation.	Light pollution from new junctionJunction during operation.	SI: -ve PO: certain CO: direct EC: large 0.7ha SZ: complete loss RE: not reversible DU: permanent TF: avoid breeding bird season	Root protection zones on remaining trees. Compensation includes replanting 55 larger native trees (>30cm diameter) close to Trinity Burial Ground. The understorey in the remaining area of Trinity Burial Ground is to include some native shrubs and plants. Lighting during construction to directed away from remaining trees.	Certain permanent loss of large area of habitat and mature trees. Significant. Certain significant permanent extra light pollution during operation.
River Hull SNCI			SI: -ve		
			PO: unlikely		



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Mudflats to the south of Sammy's Point			CO: indirect		
SNCI			EC: v small		Linlikely, very small indirect
Value: County-/	Indian at imposto from		SZ: not assessed	Mitigation by standard	pollution incident during
Area	pollution during		RE: not assessed	pollution prevention	construction. Not significant.
	construction.		DU: Permanent	measures.	operation.
Hull City Council designation			TF: N/A		
UKBAP (NERC Act 2006 S41) Priority Habitats – Value: National 'deciduous	Trinity Burial Ground as in SNCI above.		Based on highest impacts which are to woodland habitats SI: -ve	'deciduous woodland' and broad-leaved woodland' – mitigation and compensation as in Trinity Burial Ground SNCI above.	Certain, permanent loss of large area of habitat and mature trees. Significant. Operational impacts from lighting pollution.
woodland' and broad-leaved woodland' – Trinity	In discrete and discrete increases		PO: certain		Unlikely, very small indirect
Burial Ground SNCI. 'mudflats', 'saltmarsh', 'intertidal substrate foreshore –	from pollution spillages during construction.		CO: direct	'mudflats', 'saltmarsh', 'intertidal substrate foreshore – mud – Mitigation by standard pollution prevention measures.	Construction Phase only. Not significant.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
mud' Princes Dock; Humber Dock basin; Adjacent to site compounds at Neptune Street, Wellington Street	Humber Dock Marina would be directly		EC: large 0.7ha		Certain, direct, temporary, large, reversible impacts of noise, vibration and sediment disturbance. Significant
Island Wharf and Livingstone Road.	impacted by piling to create supports for the deck that would carry the proposed Princes Quay footbridge (noise, vibrations, and disturbance of sediments). Impacts from the moving of Spurn Lightship could include additional disturbance of sediments.	SZ: complete loss RE: not reversible DU: permanent S. TH Cla ar DU: permanent TF: avoid breeding bird season	No mitigation for habitats within Humber Dock Marina.	No adverse impacts during operation expected and no	
'Intertidal substrate foreshore – man made – Humber			RE: not reversible	closed during piling to control and contain silt and sediment and absorb noise and vibration from entering the Humber Estuary.	Impacts to the Humber Estuary designated sites has been concluded as not significant in the HRA Screening Report for Princes Quay currently undergoing consultation.
Dock Marina; Princes Dock.			DU: permanent		
Section 41 of the NERC Act 2006			TF: avoid breeding bird season		
Scattered Amenity			SI: -ve		Certain, direct loss of the
Trees			PO: certain		majority of trees within the
	245 amenity trees		CO: direct	Compensation by 307 x	time for compensation to
site	(outside of Trinity Burial Ground) are to be		SZ: loss	native tree planting	replace maturity of trees lost.
	removed to accommodate		RE: reversible	incorporated into landscape	Significant operational
Hull City Council	the Scheme.		DU: temporary	plan. Trees to be managed.	impacts.
Local Biodiversity Action Plan			TF: avoid breeding bird season		Residual impacts – no loss of trees overall, slight gain.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
	Humber Dock Marina		SI: -ve	No mitiantian far babitata	Certain, direct, temporary
Standing Water	would be directly impacted by piling to		PO: certain	within Humber Dock Marina	habitat of Humber Dock
	create supports for the		CO: direct	or Railway Dock during piling.	Marina. Significant.
Value: Regional – Humber Dock	proposed new Princes		EC: not assessed	The dock gates would be	Both docks - Unlikely, very
Marina; Railway	Quay Bridge (noise, vibrations, and		SZ: disturbance	closed during piling to control and contain silt and sediment	small indirect pollution
iregularly occurring populations of species which may be considered at an International level' (IAN 130/10)	disturbance of sediments). Impacts from moving of Spurn Lightship could include additional disturbance of sediments.		RE: reversible	and absorb noise and vibration from entering the Humber Estuary. All docks - Mitigation by standard pollution prevention measures.	No impacts during operation. No residual impacts. Impacts to the Humber Estuary designated sites has been concluded as not significant in the HRA Screening Report for Princes Quay currently undergoing consultation.
			DU: temporary		
	pollution during construction.		TF: N/A		
Ephemeral-//short Perennial			SI: -ve		
Value: Local - site			PO: certain	Small area of habitat to be left in each site compound. Compounds to be left to regenerate after use.	Certain, direct, temporary loss of habitat which would
value: Local - site compounds at Wellington Street Island Wharf, Livingstone Road	Impacts from loss of vegetation during site		CO: direct		regenerate quickly. No impacts during operation or residual impacts. Not significant.
			EC: 100%		
and Neptune Street			SZ: complete loss		



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Section 41 of the NERC Act 2006			RE: reversible		
Hull City Council Local Biodiversity			DU: temporary		
Action Flan			TF: avoid breeding bird season		
			SI: -ve	The species-poor hedgerows	
HedgerowsValue: Local - site compounds atLoss of 5 x species-poor intact hedgerows, four of		oss of 5 x species-poor ttact hedgerows, four of hich are not connected o the wider surrounds or ct as a green corridor. one is (A63 eastbound ecovery base) connected o the wider area as it uns alongside the verge f the A63.	PO: certain	present in site compound – Myton Centre is approximately 45m in length and is to be compensated with 104m length of hedgerow containing species of native hedgerow woody plants . This would be managed during operation. The hedgerow in site compound – Livingstone Road, the one in Staples site and the one in site compound – A63 eastbound recovery base are to be re-	Temporary, certain loss of habitats that would benefit over time in Operation Phase from compensatory measures and management. Not significant.
	Loss of 5 x species-poor intact hedgerows, four of		CO: direct		
A63 eastbound recovery base and	which are not connected to the wider surrounds or act as a green corridor.		EC: 100%		
Staples site; car park site at the Myton Centre	One is (A63 eastbound recovery base) connected		SZ: loss		
Section 41 of the NERC Act 2006	runs alongside the verge of the A63.		RE: reversible		
			DU: temporary		
			TF: avoid breeding bird season	instated only.	
Torrostrial	Woodland in Trinity Burial		SI: -ve		Certain, permanent loss of
Invertebrates	Ground has potential to		PO: certain	Woodland in Trinity Burial Ground – mitigation and	large area of habitat and
Invenebrates	support UKBAP and Hull		CO: direct	Ground – milligation and	mature trees. Significant.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Value: Local - Trinity Burial Ground SNCI; site compounds at	BAP species. Habitat to be lost. Ephemeral/short		EC: 0.7ha of woodland; 100% of ephemeral/short perennial	compensation as in Trinity Burial Ground SNCI above.	Less habitat during operation. Certain, direct, temporary
Wellington Street Island Wharf, Livingstone Road	perennial habitat in other two compounds has		SZ: All animals in these areas	Small area of ephemeral/short perennial	loss of habitat which would regenerate quickly. No
Section 41 of the NERC Act 2006	UKBAP and Hull BAP species. Habitat to be lost.		RE: Not reversible (woodland) reversible (ephemeral/short perennial)	habitat to be left in each site compound. Compounds to be left to regenerate after use.	significant.
Local Biodiversity			DU: Temporary		
Action Plan			TF: N/A		
Aquatic Invertebrates Value: National –	Potential impacts from		SI: -ve	The dock gates would be	
Humber Estuary SSSI	construction (death or injury), disturbance from		PO: Unlikely	closed during piling to control and contain silt and sediment	
The Wildlife and Countryside Act 1981 as amended	piling to install Princes Quay Bridge including noise, vibration.		CO: indirect	vibration from entering the Humber Estuary.	impacts from piling and pollution events.
(primarily by the Countryside and Rights of Way Act	disturbance of sediments.		EC: not assessed	A soft start-up of machinery to disperse any potential animals present in the dock.	No impacts during operation.
2000)			SZ: not assessed	Full assessment of impacts is to be undertaken in the AIES.	Not significant.
Value: Local – River Hull SNCI <mark>; Mudflats</mark>	Potential impacts (death or injury) from pollution		RE: reversible		



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
to the south of Sammy's Point SNCI	events during construction.		DU: temporary	Mitigation by standard pollution prevention	
Section 41 of the NERC Act 2006			TF: N/A	measures.	
Fish (Sea and river lamprey) Value: International -			SI: -ve	Trained marine fauna ecologists would act as observers to check that the	
Humber Dock Marina; Railway Dock; site compounds at	Direct impacts (injury, death or injury) to fish are likely during the piling		PO: probable	dock area and up to 500m beyond the dock gates is clear of marine animals. The dock gates would be	Probable direct and indirect impacts during piling. Temporary and reversible.
Wellington Street Island Wharf and Livingstone Road;	 inkely during the pling works to construct Princes Quay Bridge. Indirect disturbance impacts from noise, vibration and sediment disturbance. 	ks to construct Princes ay Bridge. rect disturbance acts from poise	CO: direct	closed during piling to control and contain silt and sediment and absorb noise and vibration from entering the	No impacts during operation. Not significant. Impacts to the Humber
Habitats and Species Regulations 2017		vibration and sediment disturbance.		EC: not assessed	A soft start-up of machinery to disperse any potential fish, birds or mammals present in
Fish (European eel, salmon, sea trout) Value: Local - Humber Dock	Impacts (death, injury) from indirect pollution during construction.		SZ: disturbance	the dock. Full assessment of impacts undertaken in the AIES.	consultation.
Marina; Railway Dock; site compounds at Neptune Street,			RE: reversible	Mitigation by standard pollution prevention measures.	



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Wellington Street Island Wharf and Livingstone Road			DU: temporary		
Section 41 of the NERC Act 2006 Eels (England and Wales) Regulations 2009			TF: N/A		
			SI: -ve		
Destilles			PO: probable		
Reptiles			CO: direct		
Value: Local - site compound at the A63 eastbound recovery	Impacts from loss and		EC: 0.3ha in A63 Eastbound layby	Ecological Clerk of Works (ECoW) being present prior to vegetation clearance to	Certain temporary loss of
base	severance of habitats.		SZ: loss of habitat	search the area where	reinstated with no operational
The Wildlife and	during site clearance.		RE: reversible	first.	or residual impacts. Not
1981 as amended			DU: temporary	Habitats to be reinstated.	Significant.
			TF: avoid site clearance in hibernation season		



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Birds Value: International - site compounds at Neptune Street, Wellington Street Island Wharf and	International - In all three site compounds, bird species the Humber		SI: -ve	The erection of hoardings to block the works in the site compounds from view and reduce noise emissions. Monitoring bird surveys are	International – probable, temporary indirect impacts during construction with no impacts during operation or residual impacts expected. Not significant.
Livingstone Road Conservation of Habitats and Species Regulations 2017 Wildlife and Countryside Act	Estuary was designated for were observed either adjacent to the site compounds in the mudflats or flying over the site compounds. Impacts to these bird species are	 ber signated either site he ag over the s. Impacts ecies are a pollution on and ce during breeding g of Trinity SNCI tion at Light pollution from new junction Junction during operation due to lack of trees. Lighting of Trinity Burial Ground SNCI during operation at night. 	PO: probable	InformationDird surveys are surveys are to be carried out at the site compounds during construction in order to record the species of birds present and the effects of any noise or sight pollution upon them. If it is found that the noise and sight levels are impacting the wading bird population, then changes can be put into place to make these levels acceptable.Local – C loss of h Ground. pollution SignificaLocal – C loss of h Ground.Ioss of h Ground. pollution SignificaTempora habitat ir compour impacting the wading bird population, then changes can be put into place to make these levels acceptable.Impacts. ImpactsAt site compound – Wellington Street Island Wharf, trained marine faunaImpacts Estuary	Local – Certain permanent loss of habitat in Trinity Burial Ground. Impacts from light pollution during operation. Significant. Temporary, certain loss of habitat in other site compounds that would be re- instated with no operational impacts. No impacts from light pollution during operation or residual impacts. Not significant. Impacts to the Humber
1981 (as amended) Value: Local - Main site; Trinity Burial Ground SNCI; site compounds at land south east of Mytongate Junction, A63 eastbound	likely to be from pollution or noise, vibration and sight disturbance during construction. Local – loss of breeding habitat. Lighting of Trinity		CO: indirect		
recovery base, Arco site and Staples site; car park site at the Myton Centre Section 41 of the NERC Act 2006	Burial Ground SNCI during construction at night.		EC: not assessed	ecologists would act as observers to check that the dock area and up to 500m beyond the dock gates is clear of marine birds. The dock gates would be closed during piling to control	been concluded as not significant in the HRA Screening Report for Princes Quay currently undergoing consultation.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Hull City Council Local Biodiversity Action Plan			SZ: disturbance, loss of habitat	and contain silt and sediment and absorb noise and vibration from entering the Humber Estuary. A soft start-up of machinery to disperse any potential birds present in the dock.	
			RE: Not reversible (Trinity Burial Ground) reversible (all other sites)	Full assessment of impacts is to be undertaken in the AIES. Del Mitigation by standard pollution prevention measures to remove habitat outside of breeding season	
			DU: permanent (Trinity Burial Ground) temporary (all other sites)	Habitats to be re-instated with the exception of Trinity Burial Ground. Lighting to be directed away from remaining trees during construction. Mitigation planting would	
	TF: avoid site clearance in breeding season	replace some lost habitat. Habitat enhancement would improve bird nesting and feeding opportunities.			



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
			SI: -ve	Mitigation should include that trenches should be covered at night to prevent grey seal from falling in. or trenches	
Aquatic mammals Value: International - Humber Dock Marina; Railway Dock: site	Grey seals may venture onto the site and fall in trenches causing injury		PO: unlikely	should include an earth ramp to allow them to climb out. At night in the three site compounds, lighting should be directed away from the	Unlikely, indirect impacts during piling and construction works. Temporary and reversible
Dock; site compounds at Neptune Street, Wellington Street Island Wharf and Livingstone Road Conservation of Habitats and Species Regulations 2017. Wildlife and Countryside Act 1981 (as amended)	or death. They could be disturbed by the lighting during construction. Disturbance during construction of Princes Quay Bridge from noise, vibration and sediment disturbance. Impacts from indirect pollution and lighting during construction.		CO: indirect	water. Mitigation for the construction of the Princes Quay footbridge includes: Trained marine fauna ecologists would act as observers to check that the dock area and up to 500m beyond the dock gates is clear of marine animals. The dock gates would be closed during piling to control and contain silt and sediment and absorb noise and vibration from entering the	No impacts during operation or residual impacts. Not significant Impacts to the Humber Estuary designated sites has been concluded as not significant in the HRA Screening Report for Princes Quay currently undergoing consultation.
			EC: not assessed		
			SZ: disturbance		
			RE: reversible	A soft start-up of machinery to disperse any potential animals present in the dock.	



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
			DU: temporary	Full assessment of impacts is to be undertaken in the AIES. Mitigation by standard	
				pollution prevention measures.	
			TF: N/A	Lighting not directed on water during operation.	
Bats Pipistrelle bats	Loss of potential roosts within trees and old wall in Trinity Burial Ground.		SI: -ve	Precautionary avoidance measures are to include that demolition of trees in Trinity	Certain, direct, permanent loss of historic roost, potential tree roosts to be
areas Conservation of	Small possibility of unidentified roost presence in trees in Tripity Burial Ground	Light pollution from new junctionJunction during	PO: certain	be overseen by a bat licensed ECoW. Trees would be felled sectionally and	Compensated for. Certain, direct, permanent loss of foraging and
Habitats and Species Regulations 2017.	SNCI when felling.	trees.		or left overnight for bats to exit before removal from site.	partially replaced over time as it matures.
Wildlife and Countryside Act 1981 (as amended)	small number of pipistrelle bats in Trinity Burial Ground and severance of commuting route to it		CO: direct	Compensation includes the erection of bat boxes on the remaining trees in Trinity Burial Ground SNCI.	Certain, permanent extra light pollution during operation. Significant.



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
	across Mytongate Junction. Lighting of Trinity Burial Ground SNCI during construction at night		EC: 1 disused roost, 0.7ha foraging habitat lost for small number of bats	Compensation includes that the larger native trees are to be replanted on the verges at either side of the A63 in a line extending from Trinity Burial Ground to the Myton Centre. The large height of the trees would provide habitat 'hop-overs' for bats and reduce collisions with traffic. The larger trees would also be planted in the soft estate in the new Mytongate Junction. This should recreate the linear commuting route to Trinity Burial Ground.	
			SZ: disturbance		
			RE: not reversible		
			DU: permanent	Lighting to be directed away from remaining trees during construction.	
			TF: outside of sensitive periods for bats	During operation, mitigation would be to use covers to direct lighting where it is needed at the ground and not directly light up linear features.	


Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
			SI: -ve	Mitigation would include that trenches are to be covered at night to prevent otter from falling in, or trenches are to	
Otters Value – Local - Humber Dock Marina: Railway	Otters may venture onto		PO: unlikely	include an earth ramp to allow otter to climb out. At night in the three site compounds, lighting should be directed away from the	
Marina; Railway Dock; site compounds at Neptune Street, Wellington Street Island Wharf and Livingstone Road Conservation of Habitats and Species	the site and fall in trenches. Disturbance during construction of Princes Quay Bridge from noise, vibration and sediment disturbance. Impacts from indirect pollution and lighting		CO: indirect	water. Mitigation for the construction of the Princes Quay Bridge includes: Trained marine fauna ecologists would act as observers to check that the dock area and up to 500m beyond the dock gates is clear of marine animals.	Unlikely, direct and indirect impacts during piling and construction works. Temporary and reversible. No impacts during operation or residual impacts. Not significant.
			EC: not assessed		
Regulations 2017. during construction. Wildlife and countryside Act 1981 (as amended)		SZ: disturbance	The dock gates would be closed during piling to control and contain silt and sediment and absorb noise and vibration from entering the		
			RE: reversible	A soft start-up of machinery to disperse any potential animals present in the dock.	



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
			DU: temporary	Full assessment of impacts is to be undertaken in the AIES. Mitigation by standard pollution prevention	
			TF: N/A	measures. Lighting not directed on water during operation.	
			SI: -ve		
			PO: probable		
	Woodland to be		CO: direct	Ecological Clerk of Works	
Hedgehogs Value: Local – Terrestrial areas Section 41 of the	permanently lost in Trinity Burial Ground SNCI has potential to support hedgehogs. Habitats elsewhere to be		EC: 0.7ha of Trinity Burial Ground, not assessed rest of site	(ECoW) being present prior to vegetation clearance to search the area where vegetation is to be removed first.	Certain, temporary loss of habitat that would be re- instated with no operational or residual impacts with the exception of permanent loss of pert of Trinity Puriol
NERC Act 2006	temporarily lost. Impacts to individuals		SZ: disturbance, loss of habitat	Habitats to be re-instated	of part of Trinity Burial Ground. Potentially significant.
	clearance.		RE: not reversible	Burial Ground SNCI.	
			DU: permanent		
			TF: N/A		
Invasive species	Legal impact of allowing these species to spread.		SI: N/A	Cotoneaster plants are to be removed and the arisings	Probable, direct legal impact of spreading these species to



Resource	Proposed activity, biophysical change, related to receptor structure and function (impact) during construction	Proposed activity, biophysical change, related to receptor structure and function (impact) during operation	Characterisation of impact	Mitigation proposals	Summary of characterisation
Schedule 9 of the Wildlife and Countryside Act			PO: probable	and topsoil in these areas to be treated as controlled waste. To be disposed of at a	be mitigated fully and no spread is predicted. Not significant.
1981 (as amended) cotoneaster (main			CO: direct	disposal facility.	
site – A63 and Market Place			EC: not assessed	Biosecurity method statements for both species.	
A63 and Queen Street			SZ: not assessed	The site is to be maintained during the Operation Phase and it is unlikely that the	
JunctionJunction); land south east of Mytongate Junction			RE: reversible	cotoneaster or false acacia would return after removal in the Construction Phase	
			DU: temporary	Should this happen, it would be removed during	
			TF: legal constraint	maintenance.	

Key

SI (Sign): Positive (beneficial (+ve)) or Negative (adverse (-ve))

PO (Probability of Occurring): Certain, Probable, Unlikely

CO (Complexity): Direct, Indirect, Cumulative

EC (Extent): Area measures and percentage of total (e.g. area of habitat/territory lost)

SZ (Size): Description of level of severity of influence (e.g. complete loss, number of animals affected)

RE (Reversibility): Reversible or Not Reversible (can the effect be reversed, whether or not this is planned)

DU (Duration): Permanent (P) or Temporary (T) in ecological terms. Where differing timescales are determined in relation to the life cycle of the receptor, these should be defined.

TF (Timing and frequency): Important seasonal and/or life cycle constraints and any relationship with frequency considered.



ES Table 11.15: Significance of potential residual impacts on surface water features during construction (amend row)

Potential impact	Feature	<u>Attribute</u>	<u>Quality</u>	Importance	Mitigation	Magnitude of impact	Significance
Changes in flood flow routes due to alteration of ground elevations and construction of structures	<u>Humber</u> <u>Floodplain</u>	<u>Conveyance</u> of flow	Properties within floodplain	<u>Very high</u>	OEMP and Flood Emergency Plan (FEP) to include emergency procedures to evacuate Scheme in the event of extreme flooding. Temporary pumping arrangements within OEMP to discharge flood waters to sewer or surface waters subject to consent, only compliant water to be discharged to Humber Estuary, non-compliant water collected and discharged off site.	Mederate-Major beneficial to Major adverse – depending on the location, source and scale of the flooding in relation to the Scheme area. Refer to Error! Reference source not found.Table 11.18 and explanatory text for further details.	Large / Very Large beneficial to Very Large adverse



ES Table 11.18: Summary of magnitude of peak impact from selected sources and scenarios from the FRA (revised<u>replaced</u>)

Flooding source and Flood Risk Assessment figure reference	Scenario	Areas of adverse impact/magnitude	Areas of beneficial impact/magnitude
Pluvial (Figure 14.3)	A 1 in 100-year return period event with 30% increase in rainfall intensity for climate change impacts	Negligible change in flood depths across Scheme and study area - Neutral	Negligible change in flood depths across Scheme and study area - Neutral
Tidal – Humber Wave Overtopping (Figure 14.18)	A <u>1 in 200-year return</u> period event	Kingston Retail Park- increase of maximum flood depth of up to 0.2m - major adverse Princes Quay- increase of maximum flood depth of up to 0.2m - major adverse Blanket Row, Blackfriargate and surrounding streets- increase of maximum flood depth of up to 0.7m - major adverse Market Place and surrounding streets north of the A63- increase of maximum depth of up to 0.1m - moderate adverse Queens Gardens- increase in maximum depth of up to 0.3m - major adverse Wassand Street and Neptune Street - increase of maximum flood depth of up to 0.20m - major adverse	Tidal — Humber Wave Overtopping (Figure 14.18)
Tidal – Humber Wave Overtopping (Figure 14.21)	A 1 in 1000-year return period event	Kingston Retail Park – increase of maximum flood depth of up to 0.4m – major adverse Princes Quay – increase of maximum flood depths of up to 0.2m – major adverse Underpass – increase of maximum flood depth of up to 5.8m – major adverse	Commercial Road south of underpass and A63 carriageway cast of underpass – reduction of maximum flood depth of up to 0.6m – major beneficial A1079 Ferensway north of underpass – reduction of maximm flood depth of up to 0.66m – major beneficial



		Blanket Row, Blackfriargate and surrounding streets— increase of maximum flood depth of up to 0.74m — major adverse Market Place and surrounding streets— increase of maxumum flood depth of up to 0.1m — moderate adverse Queens Gardens— increase of maximum flood depth of up to 0.2m — major adverse Land east of Dock Office Row— increase of maximum flood depth of up to 1m— major adverse Waverley Street— increase of maximum flood depth of up to 0.3m — major adverse	A1079 Ferensway and surrounding streets north of A63 — reduction of maximum flood depths of up to 0.3m — major beneficial A1105 Anlaby Road, St Luke's Street, Osborne Street, Porter Street and surrounding roads — reduciton in maximum flood depth of up to 0.1m — moderate beneficial Area to the north-west of St- Stephens shopping centre — reduction of maximum flood depths of up to 0.05m — minor beneficial
Tidal – Humber Wave Overtopping (Figure 14.28)	A 1 in 200-year return period event with a consideration of climate change	North end of Kingston Retail Park and Waverley Street – increase of maximum flood depth of up to 0.6m – major adverse Underpass – increase of maximum flood depth of up to 6.2m – major adverse	Commercial Road south of underpass and A63 carriageway east of underpass – reduction of maximum flood depth of up to 0.5m – major beneficial A1079 Ferensway – reduction of maximum flood depth of up to 0.3m – major beneficial Osborne Street, Adelaide Street and surrounding roads – reduction of maximum flood depth of up to 0.1m – moderate beneficial
Hidal – Humber Wave Overtopping (Figure 14.34)	A 1 in 200 year return period event without existing flood defences	Kingston Retail Park – Increase of maximum flood depth of up to 0.20m - major adverse Blanket Row, Blackfriargate and surrounding streets – increase of maximum flood depth of up to 0.1m – moderate adverse Queens Gardens and Dock Street – Increase of maximum flood	Commercial Road south of underpass and A63 carriageway east of underpass – Reduction of maximum flood depth of up to 0.6m – major beneficial A1079 Ferensway north of underpass – Reduction of maximum flood depth of greater than 0.5m – major beneficial Roper Street and Myton Street – reduction of maximum flood depth of up to 0.3m – major beneficial



		1	
		depth of up to 0.1m – moderate adverse	Osborne Street, Carr Lane, Upper Union Street and
		Underpass – Increase of maximum flood depth of up 5.8m - major adverse	surrounding roads – reduction in maximum flood depth of up to 0.1m – moderate beneficial
Tidal – Humber Wave Overtopping (Figure 14.37)	A 1 in 200 year return period with consideration for climate change and without existing flood defences	Kingston Retail Park Increase of maximum flood depth of up to 0.2m - major adverse Blanket Row, Blackfriargate and surrounding streets increase of maximum flood depth of up to 0.2m - major adverse Waverley Street increase of maximum flood depth of up to 0.4m - major adverse Underpass Increase of maximum flood depth of up 5.8m major adverse	Commercial Road south of underpass and A63 carriageway east of underpass – Reduction of maximum flood depth of up to 0.5m – major beneficial A1079 Ferensway north of underpass – Reduction of maximum flood depth of greater than 0.5m – major beneficial Roper Street and Myton Street – reduction of maximum flood depth of up to 0.3m – major beneficial Osborne Street, Carr Lane, Upper Union Street and surrounding roads – reduction in maximum flood depth of up to -0.1m – moderate beneficial
Tidal from River Hull (Figure 14.44)	A 1 in 200 year return period event (tidal barrier fails to close)	Blanket Row, Blackfriargate and surrounding streets south of A63 – increase of maximum flood depth of up to 0.2m – major adverse Humber Dock and Railway Dock – Increase of maximum flood depth of up to 0.3m – major adverse Princes Quay – Increase of maximum flood depth of up to 0.6m – major adverse Market Place, Posterngate and surrounding streets – increase of maximum flood depth of up to 0.1m – major adverse Dagger Lane and Fish Street – increase of	Commercial Road south of underpass and A63 carriageway east of underpass – Reduction of maximum flood depth of up to 0.50m – major beneficial Kingston Retail Park Reduction of maximum flood depth of up to 0.58m – major beneficial A1079 Ferensway, St Luke's Street, Osborne Street and surrounding roads – Reduction of maximum flood depth of up to 0.4m – major beneficial



		Queen;s Gardens increase of maximum flood depth of up to 0.1m - moderate adverse Underpass - Increase of maximum flood depth of up 5.8m - major adverse	
Tidal from River Hull (Figure 14.47)	A 1 in 1000 year return period event (tidal barrier fails to close)	Blanket Row, Blackfriargate and surrounding streets south of A63 – increase of maximum flood depth of up to 0.20m – large adverse Market Place, Posterngate, Dagger Lane, Prince's Dock Street and surrounding roads – increase in maximum flood depth of up to 0.1m – large adverse Humber Dock and Railway Dock – Increase of maximum flood depth of up to 1.03m – large adverse Princes Quay – Increase of maximum flood depth of up to 0.20m – large adverse Underpass – Increase of maximum flood depth of up 5.80m – large adverse	Commercial Road south of underpass and A63 carriageway east of underpass – Reduction of maximum flood depth of up to 0.52m – large beneficial Kingston Retail Park– Reduction of maximum flood depth of up to 0.59m – large beneficial A1079 Ferensway, St Luke's Street, Osborne Street and surrounding roads – Reduction of maximum flood depth of up to 0.66m – large beneficial Brook Street, North Street, Prospect Street, Wright Street and surrounding roads – reduciotn in maximum flood depth of up to 0.2m – large beneficial
Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
Pluvial (VCB In) Figure 13.3	A 1 in 100-year return period event with 30% increase in rainfall intensity for climate change impacts	No change in flood depths across Scheme and study area - neutral	No change in flood depths across Scheme and study area - neutral
Pluvial (VCB Out) Figure 13.73		No change in flood depths across Scheme and study area - neutral	No change in flood depths across Scheme and study area - neutral
<u>Tidal – Humber Wave</u> Overtopping (VCB In)	<u>A 1 in 200-year return</u> period event	<u>Underpass – increase</u> <u>of maximum flood</u>	A63 Castle Street east of Mytongate Junction – reduction



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
Figure 13.18		depth of up to 5.8m – major adverse	in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	Commercial Road south of underpass and A63 carriageway east of underpass – reduction of maximum flood depths of up to 0.4m – major beneficial
		Small areas of Kingston Retail Park – increase of maximum flood depth of up to 0.2m – major adverse	<u>Myton Street and Osborne</u> <u>Street – reduction in maximum</u> <u>flood depth of up to 0.4m –</u> <u>major beneficial</u>
		Blanket Row, Blackfriargate, High Street and surrounding streets – increase of	Railway Dock – reduction in maximum flood depth of up to 0.10m – moderate beneficial
		<u>maximum flood depth</u> of up to 0.1m – moderate adverse	Edgar Street and Alfred Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Finkle Street and Sewer Lane and surrounding streets north of the A63 – increase of maximum depth of up to 0.3m – major adverse	
		Queens Gardens – increase in maximum depth of up to 0.4m – major adverse	
<u>Tidal – Humber Wave</u> <u>Overtopping (VCB</u> <u>Out)</u> <u>Figure 13.82</u>		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	<u>Commercial Road south of</u> <u>underpass and A63</u> <u>carriageway east of underpass</u> <u>– reduction of maximum flood</u> <u>depths of up to 0.4m – major</u> <u>beneficial</u>
		Small areas of Kingston Retail Park – increase of maximum flood depth of up to 0.2m – major adverse	Myton Street and Osborne Street – reduction in maximum flood depth of up to 0.4m – major beneficial



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Blackfriargate, Blanket Row and surrounding streets – increase in maximum flood depth of up to 0.10m – moderate adverse Sewer Lane – increase in maximum flood depth of up to 0.20m – major adverse	Railway Dock – reduction in maximum flood depth of up to 0.10m – moderate beneficialEdgar Street, English Street and Alfred Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Market Place, Lowgate, Alfred Gelder Street and surrounding streets – increase in maximum flood depth of up to 0.10m – moderate adverse	
		Posterngate – increase in maximum flood depth of up to 0.3m – major adverse	
		Princes Quay – increase in maximum flood depth of up to 0.10m – moderate adverse	
		Queens Gardens – increase in maximum depth of up to 0.4m – major adverse	
<u>Tidal – Humber Wave</u> <u>Overtopping (VCB In)</u> <u>Figure 13.21</u>	<u>A 1 in 1000-year</u> return period event	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	Princes Quay – reduction of maximum flood depths of greater than 0.4m – major beneficial
		Kingston Retail Park and Waverley Street – increase of maximum flood depth of up to	A1079 Ferensway north of underpass – reduction of maximm flood depth of up to 0.66m – major beneficial
		<u>0.3m – major adverse</u>	A1079 Ferensway, A1105 Anlaby Road and surrounding streets to the west – reduction



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	of maximum flood depths of up to 0.1m – moderate beneficial Myton Street, Osborne Street
		Lister Street, English Street, Alfred Street and surrounding streets – increase in maximum flood depth of up to 0.2m – major adverse	and surrounding streets – reduction in maximum flood depth of up to 0.3m – major beneficial Posterngate, Dagger Lane and Market Place – reduction in maximum flood depth of up to
		Jackson Street, Neptune Street, Daltry Street and Madeley Street – increase in maximum flood depth of up to 0.10m – moderate adverse	0.3m – major beneficial Queens Gardens, and northern part of Market place – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Humber Dock Marina and Railway Dock Marina – increase in maximum flood depth of up to 0.10m – moderate adverse	
		Blackfriargate and High Street surrounding streets – increase of maximum flood depth of up to 0.1m – moderate adverse	
		Blanket Row, Finkle Street, Sewer Lane and Humber Street – increase in maximum flood depth of up to 0.2m – major adverse	
		Commercial Road, Kingston Street and Railway Street – increase in maximum flood depth of up to 0.1m – moderate adverse	
<u>Tidal – Humber Wave</u> <u>Overtopping (VCB</u> <u>Out)</u> <u>Figure 13.84</u>		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	<u>Humber Dock Street –</u> <u>reduction in maximum flood</u> <u>depth of up to 0.3m – major <u>beneficial</u></u>
		Kingston Retail Park – increase in maximum flood depth of up to 0.2m – major adverse	Myton Street, trundle Street and A1079 Ferensway north of Mytongate Junction – reduction in maximum flood depth of up to 0.3m – major beneficial
		Lister Street – increase in maximum flood depth of up to 0.1m – moderate adverse	Osborne Street, St Luke's Street, Carr Lane, A1106 Anlaby Road and surrounding streets – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Queens Gardens – increase in maximum flood depth of up to 0.1m – moderate adverse	
		Blanket Row and Blackfriargate – increase in maximum flood depth of up to 0.1m – moderate adverse	
<u>Tidal – Humber Wave</u> <u>Overtopping (VCB In)</u> <u>Figure 13.24</u>	<u>A 1 in 200-year return</u> period event with consideration of climate change	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – <u>major adverse</u>	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	Osborne Street, Adelaide Street – reduction of maximum flood depth of up to 0.1m – moderate beneficial
		<u>Kingston Retail Park</u> and Waverley Street – increase of maximum flood depth of up to 0.1m – moderate	<u>bA1079 Ferensway north of</u> <u>Mytongate Junction – reduction</u> <u>in maximum flood depth of up</u> <u>to 0.3m – major beneficial</u>
		adverse	Princes Dock and Princes Dock Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		<u>– increase in</u> maximum flood depth of up to 0.1m – moderate adverse	Queen's Gardens, Guildhall Road, Alfred Gelder Street and surrounding streets – reduction



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Porter Street and Brisbane Street – increase in maximum flood depth of up to 0.1m – moderate adverse	<u>in maximum flood depth of up</u> <u>to 0.1m – moderate beneficial</u>
		Kingston Street and surrounding streets – increase in maximum flood depth of up to 0.1m – moderate adverse	
		<u>Myton Street and</u> <u>Roper Street –</u> <u>increase in maximum</u> <u>flood depth of up to</u> <u>0.1m – moderate</u> <u>adverse</u>	
<u>Tidal – Humber Wave</u> <u>Overtopping (VCB</u> <u>Out)</u> <u>Figure 13.88</u>		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	A1079 Ferensway north of Mytongate Junction, Adelaide Street and Osborne Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		<u>Kingston Retail Park –</u> increase in maximum flood depth of up to 0.1m – moderate adverse	Princes Dock, princes Dock Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		<u>Myton Street and</u> <u>Roper Street –</u> <u>increase in maximum</u> <u>flood depth of up to</u> <u>0.1m – moderate</u> <u>adverse</u>	Queen's Gardens, Guildhall Road, Alfred Gelder Street, Lowgate and surrounding streets – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Brisbane Street and Porter Street - increase in maximum flood depth of up to 0.1m – moderate adverse	



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Humber Dock Marina, Wellington Street and Railway Street - increase in maximum flood depth of up to 0.1m – moderate adverse	
<u>Tidal – Humber</u> <u>Undefended (VCB In)</u> <u>Figure 13.33</u>	<u>A 1 in 200-year return</u> period event (without existing flood defences)	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	<u>Myton Street, Roper Street,</u> <u>Osborne Street – reduction in</u> <u>maximum flood depth of up to</u> <u>0.3m – major beneficial</u>
		<u>Kingston Retail Park –</u> increase in maximum <u>flood depth of up to</u> 0.2m – major adverse	A1079 Ferensway, Carr Lane, West Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Lister Street, English Street and Waverley Street – increase in maximum flood depth of up to 0.1m – moderate adverse	Princes Dock, Princes Dock Street, Posterngate, Market Place and surrounding streets – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Blanket Row, Blackfriargate, Humber Street, Finkle Street and Sewer Lane - increase in maximum flood depth of up to 0.1m – moderate adverse	Dock Street, Baker Street and Francis Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
<u>Tidal – Humber</u> <u>Undefended (VCB</u> <u>Out)</u> <u>Figure 13.91</u>		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	Myton Street, Roper Street, Osborne Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		<u>Kingston Retail Park –</u> increase of maximum flood depth of up to	A1079 Ferensway, Carr Lane, <u>Upper Union Street and</u> <u>surrounding streets – reduction</u> <u>in maximum flood depth of up</u> <u>to 0.1m – moderate beneficial</u>



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		<u>0.1m – moderate</u> adverse	
<u>Tidal – Humber</u> <u>Undefended (VCB In)</u> <u>Figure 13.36</u>	<u>A 1 in 200-year return</u> period event with <u>consideration of</u> <u>climate change</u> (without existing flood	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
	defences)	Westbound diverge slip road – increase of maximum flood depth of >0.5m – major adverse	Myton Street, Roper Street, Osborne Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		<u>Kingston Retail Park –</u> increase in maximum flood depth of up to 0.2m – major adverse	A1079 Ferensway, Carr Lane, West Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Lister Street, English Street and Waverley Street – increase in maximum flood depth of up to 0.1m – moderate adverse	Princes Dock, Princes Dock Street, Posterngate, Market Place and surrounding streets – reduction in maximum flood depth of up to 0.1m – moderate beneficial
		Blanket Row, Blackfriargate, Humber Street, Finkle Street and Sewer Lane - increase in maximum flood depth of up to 0.1m – moderate adverse	Dock Street, Baker Street and Norfolk Street – reduction in maximum flood depth of up to 0.1m – moderate beneficial
<u>Tidal – Humber</u> <u>Undefended (VCB</u> <u>Out)</u> <u>Figure 13.93</u>		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of up >0.5m – major adverse	Myton Street, Roper Street, Osborne Street – reduction in maximum flood depth of up to 0.3m – major beneficial
		Kingston Retail Park – increase of maximum flood depth of up to 0.1m – moderate adverse	A1079 Ferensway, Carr Lane, Upper Union Street, West Street and surrounding streets – reduction in maximum flood depth of up to 0.1m – moderate beneficial



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
Tidal Humber Undefended (VCB In) Figure 13.69	A 1 in 200-year return period event with consideration of extreme (H++) climate change (without	Underpass – increase of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
	<u>existing flood</u> <u>defences)</u>	Westbound diverge slip road – increase of maximum flood depth of up >0.5m – major adverse	A1079 Ferensway north of Mytongate Junction, Myton Street, Roper Street and surrounding streets – reduction in maximum flood depth of up to 0.2m – major beneficial
		<u>Kingston Retail Park –</u> increase in maximum flood depth of up to 0.2m – major adverse	A1079 Ferensway north to West Street, Carr Lane, Osborne Street, Upper Union Street and surrounding streets
		Lister Street, Waverley Street and English Street – increase in maximum flood depth	depth of up to 0.1m – moderate beneficial
		of up to 0.1m – moderate adverse Blanket Row,	<u>Princes Dock, Princes Dock</u> <u>Street, Posterngate, Market</u> <u>Place, Lowgate, Alfred Gelder</u> <u>Street and Dock Street –</u>
		Blackfriargate, Sewer Lane and Humber Street – increase in maximum flood depth	depth of up to 0.1m – moderate beneficial
		of up to 0.1m – moderate adverse	
<u>Tidal from River Hull</u> (VCB In) <u>Figure 13.43</u>	<u>A 1 in 200-year return</u> period event (tidal barrier fails to close)	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of up >0.5m – major adverse	Eastern and central Kingston Retail Park – reduction in maximum flood depth of up to 0.3m – major beneficial
		Small areas of west of Kingston Retail Park – increase in maximum flood depth of up to 0.3m – major adverse	Railway Dock Marina and Humber Dock Marina – reduction in maximum flood depth of up to 0.2m – major beneficial
		William Street and Porter Street – increase in maximum flood depth of up to 0.2m – major adverse	



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Princes Dock – increase in maximum flood depth of up to 0.3m – major adverse	
		Blanket Row, Sewer Lane, Finkle Street and Humber Dock Street – increase in maximum flood depth of up to 0.3m – major adverse	
		Humber Street, Queen Street and surrounding streets – increase in maximum flood depth of up 0.1m – moderate adverse	
		Posterngate, Market Place, Fish Street, Dagger Lane and Vicar Lane – increase in maximum flood depth of up 0.3m – major adverse	
<u>Tidal from River Hull</u> (VCB Out) Figure 13.99		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of up >0.5m – major adverse	<u>Myton Street, Osborne Street,</u> <u>St Luke's Street and</u> <u>surrounding streets – reduction</u> <u>in maximum flood depth of up</u> <u>to 0.4m – major beneficial</u>
		Small areas of west of Kingston Retail Park – increase in maximum flood depth of up to 0.3m – major adverse	<u>Central and eastern Kingston</u> <u>Retail Park – reduction in</u> <u>maximum flood depth of up to</u> <u>0.3m – major beneficial</u>
		<u>William Street and</u> <u>Porter Street –</u> <u>increase in maximum</u> <u>flood depth of up to</u> <u>0.2m – major adverse</u>	<u>Humber Dock Marina and</u> <u>Railway Dock Marina –</u> <u>reduction in maximum flood</u> <u>depth of up to 0.2m – major <u>beneficial</u></u>
		<u>Princes Dock –</u> increase in maximum	



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		flood depth of up to 0.2m - major adverse	
		Blanket Row, Humber Street, Queen Street and surrounding streets – increase in maximum flood depth up to 0.1m – moderate adverse	
		Market Place, Vicar Lane, Fish Street and Dagger Lane – increase in maximum flood depth of up to 0.3m – major adverse	
<u>Tidal from River Hull</u> (VCB In) Figure 13.46	<u>A 1 in 1000-year</u> return period event (tidal barrier fails to close)	<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		Westbound diverge slip road – increase of maximum flood depth of up >0.5m – major adverse	A1079 Ferensway, Osborne Street, St Luke's Street and surrounding streets – decrease in maximum flood depth of up to >0.5m – major beneficial
		<u>Kingston Retail Park –</u> increase in maximum flood depth of up to 0.3m – major adverse	Porter Street, Waterhouse Lane, West Street, Prospect Street and surrounding streets – reduction in maximum flood depth of up to 0.3m – major
		Waverley Street – increase in maximum flood depth of up to 0.3m – major adverse	beneficial
		Edgar Street, William Street and Porter Street – increase in maximum flood depth of up to 0.2m – major adverse	
		Blanket Row, Queen Street, Nelson Street and surrounding streets – increase in maximum flood depth of up to 0.1m – moderate adverse	



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		Princes Dock and Princes Dock Street – increase in maximum flood depth of up to 0.1m – moderate adverse	
<u>Tidal from River Hull</u> (VCB Out) Figure 13.99		<u>Underpass – increase</u> of maximum flood depth of up to 5.8m – major adverse	A63 Castle Street east of Mytongate Junction – reduction in maximum flood depth of >0.4m – major beneficial
		<u>Westbound diverge</u> <u>slip road – increase of</u> <u>maximum flood depth</u> <u>of up >0.5m – major</u> <u>adverse</u>	Humber Dock Marina and Railway Dock Marina – decrease of maximum flood depth of up to 0.3m – major beneficial
		<u>Kingston Retail Park –</u> increase in maximum flood depth of up to 0.2m – major adverse	Osborne Street, St Luke's Street, Myton Street – reduction in maximum flood depth of greater than 0.4m – major beneficial
		<u>Waverley Street –</u> increase in maximum flood depth of up to 0.4m – major adverse Lister Street, Edgar	Waterhouse Lane, Porter Street and A1079 Ferensway – reduction in maximum flood depth of up to 0.3m – major beneficial
		Street and William Street – increase in maximum flood depth of up to 0.2m – major adverse	<u>Margaret Moxon Way, West</u> <u>Street, North Street and Wright</u> <u>Street – reduction in maximum</u> <u>flood depth of up to 0.2m –</u> <u>major beneficial</u>
		Porter Street – increase in maximum flood depth of up to 0.1m – moderate adverse	
		Princes Dock and Princes Dock Street – increase of maximum flood depth of up to 0.1m – moderate adverse	
		Blanket Row, Sewer Lane, Finkle Street, Fish Street, Dagger Land and Vicar Lane – increase of maximum flood depth of up to	



Flooding source	<u>Scenario</u>	Areas of adverse impact \ magnitude	Areas of beneficial impact \ magnitude
		<u>0.1m – moderate</u> <u>adverse</u>	
Combined fluvial and tidal from River Hull Figure 14.53	<u>A 1 in 200-year return</u> period event (tidal barrier fails to close)	No change in flood depths across Scheme and study area - neutral	No change in flood depths across Scheme and study area - neutral
Combined fluvial and tidal from River Hull Figure 14.56	<u>A 1 in 1000-year</u> return period event (tidal barrier fails to close)	No change in flood depths across Scheme and study area - neutral	No change in flood depths across Scheme and study area - neutral



ES Table 11.20: Significance of potential residual impacts on surface water features during operation (amend row)

Potential impact	Feature	<u>Attribute</u>	<u>Quality</u>	Importance	Mitigation	Magnitude of impact	
Alteration of flood flow routes due to the changes in ground levels and construction of structures	<u>Humber</u> floodplain	<u>Conveyance</u> of flow	Properties within the floodplain	<u>Very high</u>	Underpass drainage designed for 1 in 100-year, plus 30% allowance for climate change, rainfall event. Emergency procedures in case of pump failure or extreme flooding event including no/minimal warnings in the event of a flood defence breach (Flood Emergency and Evacuation Plan (FEEP)).	Ranges from <u>Moderate</u> Major beneficial to Major adverse depending on the location, source and extent of flooding and return period of event. Further detail is provided in Error! <u>Reference source not</u> <u>found.Table 11.18</u> .	<u>Very Large</u> <u>adverse to</u> <u>Large/Very</u> Large beneficial



ES Table 16.7: Significance of combined effects (revised)

Receptor	Cultural fea	Cultural features Res		roperty	Community a business	menities and
	Construction	Operation	Construction	Operation	Construction	Operation
Air quality	-	-	Not significant adverse	Not significant adverse	Not significant adverse	Not significant adverse
Noise and vibration	Negligible increase	Not significa nt	Significant adverse	Significant adverse to significant beneficial	Minor increase	Not significant
Cultural heritage	Large adverse	Large adverse	-	-	Large adverse	Large adverse
Landscape	Large adverse landscape	Large adverse	Moderate adverse landscape	Significant adverse and beneficial visual	Large adverse landscape	Large adverse
Ecology and nature conservation	Large adverse	Large adverse	-	-	Large adverse	Large adverse
Road drainage and the water environment	-	-	Very large beneficial to very large adverse	Very large beneficial to very large adverse	Very large beneficial to very large adverse	Very large beneficial to very large adverse
Geology and soils		No s	ignificant advers	se or beneficial re	sidual effects	
Materials		No s	ignificant advers	se or beneficial re	sidual effects	
People and communities	Moderate e		Moderate adverse	Moderate adverse		
Effects on all travellers	No significant adverse or beneficial residual effects					
Overall Significance of Combined Effects	Moderate adverse					



3 6.2 Environmental Statement Volume 2 Figures 2.5.4 & 2.5.6 (APP-025)

- 3.1.1 Replace ES Volume 2 Figure 2.5.4 The Scheme Proposals Sheet 3 of 6 and Figure 2.5.6 The Scheme Proposals – Sheet 5 of 6 (APP-025) with the new Figures 2.5.4 and 2.5.6 below. Changes are as follows:
 - Locations of the combined footpath & cycleway have been clarified.





		_		
09/2018	Boundary Amendments	WF	AS	AS
07/2018	Key Changes	WF	AS	AS
03/2018	Boundary Amendments	WF	AS	AS
Date	Amendment Details	Devis	Ctal	App
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34 6.2 Environmental Statement Volume 2 Figure 10.2 (APP-036)

- 3.1.14.1.1 Replace ES Volume 2 Figure 10.2 Non-statutory designated sites (APP-036) with the new Figure 10.2 Non-statutory designated sites as below. Changes are as follows:
 - The key has been replaced.
 - Sammy's Point Site of Nature Conservation Interest (SNCI) has been added to Figure 10.2 as the mudflats are 250m from the Site boundary.





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5 6.2 Environmental Statement Volume 2 Figure 15.2 (APP-040)

5.1.1 Replace ES Volume 2 Figure 15.2 Proposed non-motorised users facilities and closure for the Scheme (APP-040) with the new Figure 15.2 as below. Changes are as follows:

· Locations of the combined footpath & cycleway have been clarified.





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250M BUFFER

- NON-MOTORISED FACILITY TARGET NOTES (REFER TO ES VOLUMEY, CHAPTER IS EFFECTS ON ALL TRAVELLERS)
- EXISTING SIGNALISED CROSSING TO BE REMO PROPOSED UNCONTROLLED GROSSING
- PROPOSED SIGNALISED CROSSING
- PUBLIC RIGHT OF WAY TO BE REMOVED
- --- PROPOSED PUBLIC RIGHT OF WAY
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- PROPOSED FOOTW
- EXISTING UNCONTROLLED CROSSING TO BE REMOVED
- - PROPOSED SHARED FOOTWAY AND CYCLE WAY



4<u>6</u> 6.7 Ecology and Nature Conservation Assessment (APP-065)

Table 64.1: Ecology and Nature Conservation Assessment

Page	Paragraph/ Table	Published text	Correction
25	Table 10.4 Non- statutory designated sites (row 13)	SNCI Foredyke stream cycle track - south of Chamberlain Road (177) No information provided 1.6km northeast	Remove row 13 from table
44	Table 10.8 Summary of valuation of ecological receptors, Ecological receptor column (row 3)	Trinity Burial Ground SNCI, River Hull SNCI	Trinity Burial Ground SNCI, River Hull SNCI, Mudflats to the south of Sammy's Point SNCI
49	10.7.17	River Hull SNCI Direct impacts to the River Hull SNCI are unlikely.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Direct impacts to the River Hull SNCI and Mudflats to the south of Sammy's Point SNCI are unlikely.
56	10.7.54	River Hull SNCI Road drainage would not discharge to the River Hull during the Operation Phase and there would therefore be no risks to water quality within the river.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Road drainage would not discharge to the River Hull during the Operation Phase and would not impact upon the River Hull SNCI or Mudflats to the south of Sammy's Point SNCI. There would therefore be no risks to water quality within the river.
60	Table 10.9 Characteris ation process of ecological impacts	n/a	Replace Table 10.9 with revised Table 10.9 (see above). Impacts are separated into a column for construction and a column for operation as requested in WQ1.2.6 (new/revised text in red). Replacement table also takes into account changes arising from mudflats to the south of Sammy's Point SNCI as requested in WQ1.2.2 (new/revised text in red).
75	10.8.11	<i>River Hull SNCI</i> Neutral residual impacts are predicted to the River Hull SNCI during the Construction Phase, following the implementation of pollution protection mitigation measures.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI Neutral residual impacts are predicted to the River Hull SNCI and Mudflats to the south of Sammy's Point SNCI during the Construction Phase, following the



Page	Paragraph/ Table	Published text	Correction
			implementation of pollution protection mitigation measures.
78	10.8.31	<i>River Hull SNCI</i> With no increase in noise or air pollution and no water discharges into this river, there is predicted to be neutral residual impacts to the SNCI during operation.	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI With no increase in noise or air pollution and no water discharges into this river, there is predicted to be neutral residual impacts to these SNCIs during operation.
83	Table 10.10 Summary of ecological receptors, Ecological receptor column (row 4)	River Hull SNCI	River Hull SNCI and Mudflats to the south of Sammy's Point SNCI
87	Table 10.10 Summary of	Aquatic Invertebrates Humber Estuary SSSI	Aquatic Invertebrates Humber Estuary SSSI
	ecological receptors, Ecological receptor	River Hull SNCI	River Hull SNCI Mudflats to the south of Sammy's Point
	(row 11)		



57_6.11 Register of Environmental Actions and Commitments (APP-068)

Table 75.1: Register of Environmental Actions and Commitments

Page	Reference	Published text	Correction
34	E5	Clearance of potential nesting habitat outside breeding season (in particular for bats and birds).	Clearance of potential bird nesting habitat to take place outside of the March – August (inclusive) breeding season.
34	E5	n/a	 Add new bullet: Felling of trees to be undertaken only in September/October and April to take account of the sensitive roosting periods for bats.
41	W13	n/a	Add row W13 – see below for details
50	Т3	 A free 'shuttle bus' service would also be provided during construction, and this would pick up and drop of NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities. 	 A free 'shuttle bus' service would also be provided if feasible during construction, and this would pick up and drop of NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities.
50/51	Footnote 1	 Archaeological Project Design Arboricultural Implications Assessment Arboricultural Method Statement; Landscape and Ecology Management Plan Handover Environmental Management Plan Marine Mammal Mitigation Plan Groundwater Monitoring Plan Erosion Prevention and Sediment Control Plan Noise and Vibration Management Plan Noise and Vibration Management Plan Site Waste Management Plan Site Waste Management Plan Foundation Works Risk Assessment Materials Logistics Plan Community Relations Strategy Traffic and Transport Management Plan 	 Archaeological Project Design Arboricultural Implications Assessment Arboricultural Method Statement Landscape and Ecology Management Plan Handover Environmental Management Plan Handover Environmental Management Plan Marine Mammal Mitigation Plan Groundwater Monitoring Plan Flood Evacuation Plan Flood Emergency and Evacuation Plan Erosion Prevention and Sediment Control Plan Noise and Vibration Management Plan Materials Management Plan Site Waste Management Plan Foundation Works Risk Assessment Materials Logistics Plan Community Relations Strategy Traffic and Transport Management Plan



Register of Environmental Actions and Commitments (REAC) (APP68) and Outline Environmental Management Plan (OEMP), Annex B (APP-072) – Add new row W13

Ref	ES ref.	DCO ref.	Works informatio n ref.	Objective	Action (including any monitoring required)	Achievement criteria and reporting requirements (if applicable)	How the Action is to be implemented	Responsible Person (s)	When P = Pre- construction C = Construction O = Operation A = All	Completion record
W13	CH11			To limit impacts of flooding on construction workers and the public	 EA flood warning service to be subscribed to throughout construction. If flood alert or flood warning received, information to be shared with relevant personnel. Emergency procedures documented in the Flood Emergency and Evacuation Plan (FEEP) (ES Volume 3 Appendix 11.2 Appendix B) to be instigated for safe evacuation of the underpass and surrounding areas of the Scheme during operation. CEMP to include emergency procedures based on the FEEP to evacuate construction footprint in the event of extreme flooding. Procedures to account for all sources of flooding including tidal, pluvial and fluvial flooding. 	Mitigation measures should be included in the CEMP	Contractual responsibilities between Highways England and the Principal Contractor	Contractor	C O	Signature: Date:



8 7.1 Planning Statement (APP-070)

Table 8.1: Planning Statement

Page	Paragraph/Table	Published text	Correction
<u>27</u>	<u>4.4.5</u>	These include the combined footway and cycleway on either side of the A63, new signal controlled crossings at Ferensway and Commercial Road and the removal of vehicle traffic from some routes.	These include the combined footway and cycleway to the north of the A63, upgraded footway provision on the southern side of the A63, new signal controlled crossings at Ferensway and Commercial Road and the removal of vehicle traffic from some routes.
<u>46</u>	<u>6.1.6</u>	The Scheme will provide benefits to NMUs, creating a safer environment by separating NMUs from vehicle traffic and providing a combined footway and cycleway on either side of the A63, and a new signalised crossing at Mytongate Junction to improve access across the A63.	The Scheme will provide benefits to NMUs, creating a safer environment by separating NMUs from vehicle traffic and providing a combined footway and cycleway on the northern side of the A63, upgraded footway provision on the southern side of the A63, and a new signalised crossing at Mytongate Junction to improve access across the A63.



69 7.3 Outline Environmental Management Plan (APP-072)

Table 69.1: Outline Environmental Management Plan

Page	Table/Reference	Published text	Correction
16	Table 4.1 Permits, consents and licences	Flood Risk Activity Environment Agency Permit required if work is carried out on or meat a main two fullows such as a such as the structure, in a flood plain, or near a flood defence.	Remove row from table
18	Table 4.1 Permits, consents and licences	Listed Building Secretary of State Consent: Planning (Listed Buildings and Conservation Areas) Act 1990 Secretary of State Conservation Areas) Act 1990 Secretary of State Dock. Secretary Secretary of State Dock Secretary Dock for monitoring equipment on Castle Buildings and Wandhouse No.6. Secretary Secre	Remove row from table
18/19	Table 4.1 Permits, consents and licences	Scheduled Monument Consent Ancient Secretary of State Beverley Gate and Archaeological Areas 1 consent required for Beverley Gate and Archaeological Areas Beverley Gate - consent will be required in the event of and utility diversion only if service and utility diversion on securitions boundary of the Scheduled Monument. Beverley Gate - required in the event of any service and utility diversion securitions boundary of the Scheduled Monument.	Remove row from table
34	E5	Clearance of potential nesting habitat outside breeding season (in particular for bats and birds).	Clearance of potential bird nesting habitat to take place outside of the March – August (inclusive) breeding season.
34	E5	n/a	 Add new bullet: Felling of trees to be undertaken only in September/October and April to take account of the sensitive roosting periods for bats.
41	W13	n/a	Add row W13 – see above for details
50	Т3	 A free 'shuttle bus' service would also be provided during construction, and this would pick up and drop of NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities. 	 A free 'shuttle bus' service would also be provided if feasible during construction, and this would pick up and drop of NMUs at predetermined locations either side of the A63 and would also include wheelchair access facilities.
50/51	Footnote 1	 Archaeological Project Design Arboricultural Implications Assessment Arboricultural Method Statement; Landscape and Ecology Management Plan Handover Environmental Management Plan Handover Environmental Marine Mammal Mitigation Plan Groundwater Monitoring Plan Erosion Prevention and Sediment Control Plan 	 Archaeological Project Design; Arboricultural Implications Assessment Arboricultural Method Statement Landscape and Ecology Management Plan Handover Environmental Management Plan Handover Environmental Marine Mammal Mitigation Plan Groundwater Monitoring Plan Flood Evacuation Plan Flood Emergency and Evacuation Plan



Page	Table/Reference	Published text	Correction
		 Noise and Vibration Management Plan Materials Management Plan Site Waste Management Plan Foundation Works Risk Assessment Materials Logistics Plan Community Relations Strategy Traffic and Transport Management Plan 	 Erosion Prevention and Sediment Control Plan Noise and Vibration Management Plan Materials Management Plan Site Waste Management Plan Foundation Works Risk Assessment Materials Logistics Plan Community Relations Strategy Traffic and Transport Management Plan


10 7.4 Transport Assessment Report (APP-073)

Table 10.1: Transport Assessment Report

	Paragraph/Table		Correction
<u>47</u>	<u>6.1.2</u>	However, adverse effects would be partially offset through the provision of upgraded facilities such as the combined footway and cycleway on either side of the A63, a new grade separated crossing at Ferensway and Commercial Road, and the removal of vehicle traffic from some routes.	However, adverse effects would be partially offset through the provision of upgraded facilities such as the combined footway and cycleway to the north of the A63, upgraded footway provision on the southern side of the A63, a new grade separated crossing at Ferensway and Commercial Road, and the removal of vehicle traffic from some routes.