

# A63 Castle Street Improvement, Hull

TR010016

Statement of Common Ground  
With Environment Agency



## A63 Castle Street Improvement, Hull

### Development Consent Order 20[]

---

### STATEMENT OF COMMON GROUND

---

<b>Planning Inspectorate Scheme Reference</b>	TR010016
<b>Author:</b>	A63 Castle Street Project Team

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
1	April 2019	For comment

**STATEMENT OF COMMON GROUND**

**This Statement of Common Ground has been prepared and agreed by (1) Highways England Company Limited and (2) Environment Agency.**

Signed.....  
**Bernice Beckley**  
**Project Manager**  
**on behalf of Highways England**  
Date: **[DATE]**

Signed.....  
**Lizzie Griffiths**  
**Planning Specialist**  
**on behalf of Environment Agency**  
Date: **[DATE]**

## CONTENTS

<b>1</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Purpose of this document.....	1
1.2	Parties to this Statement of Common Ground.....	1
1.3	Terminology .....	2
<b>2</b>	<b>RECORD OF ENGAGEMENT .....</b>	<b>3</b>
<b>3</b>	<b>ISSUES.....</b>	<b>13</b>

## **1 INTRODUCTION**

### **1.1 Purpose of this document**

1.1.1 This Statement of Common Ground ("SoCG") has been prepared in respect of the proposed A63 Castle Street Improvement, Hull ("the Application") made by Highways England Company Limited ("Highways England") to the Secretary of State for Transport ("Secretary of State") for a Development Consent Order ("DCO") under section 37 of the Planning Act 2008 ("2008 Act").

1.1.2 This SoCG does not seek to replicate information which is available elsewhere within the Application documents. All documents are available in the deposit locations and / or the Planning Inspectorate website.

1.1.3 The SoCG has been produced to confirm to the Examining Authority where agreement has been reached between the parties to it, and where agreement has not (yet) been reached. SoCGs are an established means in the planning process of allowing all parties to identify and to focus on specific issues that may need to be addressed during the examination.

### **1.2 Parties to this Statement of Common Ground**

1.2.1 This SoCG has been prepared by (1) Highways England as the Applicant and (2) Environment Agency.

1.2.2 Highways England became the Government-owned Strategic Highways Company on 1 April 2015. It is the highway authority in England for the strategic road network and has the necessary powers and duties to operate, manage, maintain and enhance the network. Regulatory powers remain with the Secretary of State. The legislation establishing Highways England made provision for all legal rights and obligations of the Highways Agency, including in respect of the Application, to be conferred upon or assumed by Highways England.

1.2.3 The Environment Agency is a non-departmental public body, established in 1995 and sponsored by the Government's Department for Environment, Food and Rural Affairs (Defra), with responsibilities relating to the protection and enhancement of the environment in England. The Environment Agency is responsible for managing the risk of flooding from main rivers, reservoirs, estuaries and the sea in England. The Environment Agency is also responsible for:

- regulating major industry and waste
- treatment of contaminated land
- water quality and resources
- fisheries

- inland river, estuary and harbour navigations
- conservation and ecology

### **1.3 Terminology**

- 1.3.1 In the tables in the Issues chapter of this SoCG, “Not Agreed” indicates a final position, and “Under discussion” indicates issues which will be the subject of on-going discussion wherever possible to resolve, or refine, the extent of disagreement between the parties. “Agreed” indicates where the issue has been resolved.
- 1.3.2 It can be taken that any matters not specifically referred to in the Issues chapter of this SoCG are not of material interest or relevance to the Environment Agency, and therefore have not been the subject of any discussions between the parties. As such, those matters can be read as agreed, only to the extent that they are either not of material interest or relevance to the Environment Agency.

## 2 RECORD OF ENGAGEMENT

2.1.1 A summary of the meetings and correspondence that has taken place between Highways England and Environment Agency in relation to the Application is outlined in Table 2.1.

**Table 2.1 Record of Engagement**

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
01.	18 January 2013	Meeting	Meeting with Environment Agency and Hull City Council (HCC) concerning the scope of the Scoping Report of the Environment Statement (ES), the highway drainage and the Flood Risk Assessment (FRA).
02.	5 April 2013	Letter	Response from Environment Agency to Highways England Highway Drainage assessment scope including requirements to be considered in the drainage design to mitigate flood risk, consideration of failure scenarios for the underpass drainage and a request to include pollution prevention measures to prevent accidental spillages from the underpass.
03.	18 April 2013	Meeting	Meeting with Environment Agency to discuss the suitability of existing flood models to inform the FRA in respect of pluvial, fluvial and tidal flooding modelling requirements.
04.	16 May 2013	Email	Response to Environment Agency letter of 5 April 2013 acknowledging their requirements and confirming Highway's England are in discussion with Hull City Council regarding requirements for surface water runoff rates. scope of highway drainage assessment.
05.	6 June 2013	Meeting	Consultation with Environment Agency, Natural England and Marine Management Organisation to discuss potential locations of the discharge, water quality impact assessment requirements and other requirements of the stakeholders including consents associated with the construction and operation of the rising main and outfall to the Humber Estuary.
06.	22 July 2013	Letter	Acceptance in principle by the Environment Agency of flood risk assessment methodology and flood risk scenarios.
07.	2 August 2013	Letter	Surface water impact assessment methodology accepted in principle by Environment Agency. Request for measures to be incorporated into the drainage design.

<b>Doc No.</b>	<b>Date</b>	<b>Form of correspondence</b>	<b>Key topics discussed and key outcomes</b>
08.	2 October 2013	Meeting	Meeting with Environment Agency concerning highway drainage, including discussions on proposed underpass drainage strategy and rising main route and outfall. Proposed underpass drainage to be designed for a 1 in 100-year pluvial event (a period of increased rainfall) with 30% allowance for climate change.
09.	3 October 2013	Meeting	Meeting with Environment Agency concerning the progress of the FRA, including discussions on modelling progress and scenarios.
10.	4 November 2013	Meeting	Meeting with Environment Agency concerning highway drainage, including underpass drainage and rising main route and outfall. Environment Agency agreed in principle to underpass drainage strategy.
11.	13 December 2013	Meeting	Meeting with Environment Agency and JBA Consulting concerning groundwater issues. Discussions include geological and hydrogeological issues, the groundwater modelling approach, and Section 32 consent (Water Resources Act 1991) application to undertake a borehole pumping test. Approach to the groundwater assessment and ES requirements discussed and agreed in principle with the Environment Agency.
12.	17 December 2013	Meeting	Meeting with Environment Agency concerning the progress of the FRA, including discussions on modelling progress, scenarios and joint probability analysis. This included the 5 December 2013 storm surge flooding.
13.	14 January 2014	Meeting	Meeting with Environment Agency concerning groundwater. Discussions include pumping test results, baseline groundwater monitoring, geotechnical design and groundwater modelling update. Environment Agency satisfied with proposed geotechnical design for underpass and the proposed approach for groundwater modelling.
14.	23 January 2014	Email	Environment Agency confirmed that no environmental permits required for the reburial of remains at Trinity Burial Ground (TBG).
15.	25 February 2014	Letter	Environment Agency response to proposed rising main routes and outfall location options indicating their preference and recommendations.

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
16.	30 January 2014	Meeting	Meeting with Environment Agency concerning flood risk modelling and highway drainage. Environment Agency confirmed acceptance of modelled impacts subject to Environment Agency model review. Environment Agency noted concerns on emergency procedures for underpass. Further rising main routes and outfall location options tabled.
17.	21 March 2014	Email	Correspondence regarding scope of affected Water Framework Directive (WFD) waterbodies and the definition of waterbody boundaries. Confirmation from the Environment Agency that in respect of the WFD they are concerned more about the short-term effects of a pollution event rather than long-term deterioration of the waterbodies.
18.	30 September 2014	Meeting	Meeting with Environment Agency concerning flood risk assessment following design revisions. Discussions include revised road alignment, emergency and evacuation plan and review of initial draft FRA. The Environment Agency do not object to the proposed scheme based on the findings of the FRA subject to the implementation of a robust emergency plan.
19.	18 October 2016	Meeting	Meeting with Environment Agency concerning updates required to FRA and associated modelling.
20.	13 February 2017	Letter	Environment Agency's formal response to 2016 Preliminary Environmental Information Report (PEIR) and 2017 Public Consultation Brochure detailing Environment Agency's requirements regarding the: <ul style="list-style-type: none"> <li>• approach to the Flood Risk Assessment</li> <li>• requirement for an evacuation plan</li> <li>• need to consult Hull City Council on surface water management</li> <li>• requirement for a permit to discharge to the Humber</li> <li>• request to co-ordinate with other works including flood defence schemes</li> </ul>
21.	14 March 2017	Email	Correspondence regarding the approach to the FRA namely: <ul style="list-style-type: none"> <li>• Consideration of revised climate change allowances</li> <li>• agreement in principle for discharge to Humber</li> <li>• emergency planning requirements</li> </ul>

<b>Doc No.</b>	<b>Date</b>	<b>Form of correspondence</b>	<b>Key topics discussed and key outcomes</b>
22.	23 March 2017	Meeting	Meeting with Environment Agency to confirm agreed position between Highways England and the Environment Agency regarding revised climate change allowances, emergency planning requirements, revised flood risk scenarios, agreement in principle for discharge to Humber and water quality impacts approach.
23.	5 April 2017	Email	Response regarding reconfirmation of surface water quality impact assessment approach.
24.	29 September 2017	Email	Response to Environment Agency letter of 13 February 2017 regarding queries raised during the public consultation and the updated 2016 Preliminary Environmental Information report.
25.	27 February 2018	Meeting and correspondence	Review and agreement of flood risk modelling approach following flood model audit by the Environment Agency.
26.	20 April 2018	Email	Provision of final modelling report and audit sheet as per above review on 27 February 2018.
27.	21 May 2018	Email	Following a request to attend a meeting with other stakeholders to discuss emergency planning requirements, the Environment Agency commented that their role was not to advise whether emergency procedures were adequate or not, but rather to deliver flood warnings and to ensure that decision makers have the information they need to determine whether the development will be safe in a flood, in consultation with emergency planners. Whilst Environment Agency expect to see consideration of emergency planning within the FRA they don't expect to be part of these discussions but will review once incorporated into the FRA.
28.	25 May 2018	Meeting	Discussion and agreement of requirements for flood emergency and evacuation plan with the emergency services including Humberside Fire & Rescue, Humberside Police, Humber Emergency Planning Services and HCC. Environment Agency did not attend (reasons as above).
29.	21 June 2018	Email	Information for the draft FRA for the Scheme including flood map figures, the flood risk modelling technical report (previously reviewed by Environment Agency and JBA) and the Flood Emergency and Evacuation Plan report (FEEP).

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
30.	3 August 2018	Meeting	Meeting with Environment Agency to discuss outcomes of flood risk assessment and flood emergency evacuation procedures. Agreement that Environment Agency's additional information requirements would be listed in Appendix 11.9 of the ES Chapter 11 Road Drainage and the Water Environment and issued to the Environment Agency as a Technical Note after the DCO submission (see Table 3.3 for summary of issues discussed).
31.	28 August 2018	Letter	Letter from Environment Agency indicating a requirement for the assessment of flood risk for temporary site compounds and to consider aspects of work, including access requirements, in proximity to Environment Agency flood defences <sup>1</sup> .
32.	26 November 2018	Email	Brief update from Environment Agency re. Humber Hull Frontages project. This is the Environment Agency project to improve and upgrade existing flood defences on the north bank of the Humber. Confirmation that the Standard of Protection of the upgraded defences will be for a 1 in 200-year tidal event plus an allowance for climate change to 2040.
33.	18 December 2018	Meeting	Meeting with Environment Agency to table Additional Flood Risk Information Technical Note in response to queries raised at meeting dated 3 August 2018 and listed in ES Appendix 11.9. Discussion of Environment Agency letter dated 28 August regarding flood risk at site compounds as summarised in the email sent by Highways England to Environment Agency 19 December 2018. See Table 3.3 for summary of issues discussed in the Technical Note.
34.	19 December 2018	Email	Summary of issues raised by Environment Agency at 18 December 2018 meeting requiring further clarification. Confirmation by Highways England of the process and information included in the flood risk modelling. Identification of Environment Agency information requirements to enable Highways England to provide responses to points raised. Environment Agency tabled the 'Using Flood risk assessments: climate change allowances' briefing note'.

<sup>1</sup> The letter from the EA dated 28 August 2018 contains advice relating to the assessment of flood risk for site compounds and their flood defences. Flood risk to site compounds has been assessed within the ES, but not within the FRA. Given the DCO submission timescales, the advice within the 28 August 2018 letter was not able to be included in any update to the FRA, or within the ES. Therefore the issue does not appear within this SoCG at Table 3.1. Consultation on this matter is 'under discussion' and has been reviewed in the Technical Note.

<b>Doc No.</b>	<b>Date</b>	<b>Form of correspondence</b>	<b>Key topics discussed and key outcomes</b>
35.	19 December 2018	Email	Highways England forwarded plan of long section of proposed mainline carriageway to confirm carriageway alignment following query raised by Environment Agency.
36.	17 January 2019	Email	Identification of Environment Agency information requirements (including H++ and UKCP18 climate change scenario model output, property threshold information and location of Hull City Council's development allocations) to enable Highways England to provide responses to points raised at 18 December 2018 meeting and also those identified in Environment Agency Relevant Representation. The issues raised in the Relevant Representation include climate change allowances, development lifetime, evidence base, flood inundation times, offsite flood risk, resilience of the pumping station, Humber outfall and Humber Hull Frontages Scheme.
37.	17 January 2019	Email)	Meeting arrangements for 30 January. Acknowledgement of points raised in 17 January 2018 email from Jason Ball.
38.	30 January 2019	Email	Confirmation from Highways England of 60-year lifetime of the Scheme following query raised by Environment Agency.
39.	30 January 2019	Meeting	Meeting with Environment Agency. Tabling and discussion of Technical Note (see Table 3.3). Agreement to keep the response to the issues raised at the 18 December 2018 meeting & identified in the Relevant Representation letter separate. Discussion of issues raised including climate change allowances, development lifetime, evidence base, flood inundation times, offsite flood risk, resilience of the pumping station, Humber outfall and Humber Hull Frontages Scheme. Meeting to be arranged by Environment Agency with the Environment Agency modellers to ascertain scope of data available.
40.	4 February 2019	Email	Request from Highways England for AutoCAD versions of Hull Humber Frontages scheme information

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
41.	12 February 2019	Meeting	<p>Meeting with Environment Agency. Discussion of latest modelling information. Environment Agency to provide Humber Hull Frontages model and report which includes a consideration of both wave overtopping and breach of the existing and proposed Humber Hull Frontages defences. Environment Agency confirmed that the Humber Hull Frontages model used pre-2016 climate change allowances and did not consider climate change post-2040.</p> <p>Environment Agency agreed to assist in providing additional modelling information from the Hull City Council Strategic Flood Risk Assessment.</p> <p>Environment Agency will review 2015 modelling of the River Hull to re-confirm this additional information is not relevant to the A63 Castle Street Scheme.</p> <p>Highways England agreed to produce a technical note summarising the proposed approach to respond to Environment Agency queries and request for additional information.</p>
42.	01 March 2019	Email	<p>Clarification from Environment Agency of licensing arrangements for supply of additional data discussed at 12 February 2019 meeting. Licence and data to be issued 04 March 2019.</p>
43.	04 March 2019	Technical Note	<p>Revised Technical Note issued to Environment Agency containing additional information on site compound flood risk as requested in Environment Agency letter of 28 August 2018. Additional percentage difference flood maps also provided. See Table 3.3 for summary of Technical Note issues.</p>
44.	06 March 2019	Email	<p>Provision of Hull Humber Frontage Improvement Programme Hydraulic Modelling Report (Draft 1 - July 2016). Highways England requested model and model output data.</p>
45.	08 March 2019	Email	<p>Confirmation that Environment Agency do not have any objections to the Strategic Flood Risk Assessment (SFRA) model data to be shared with Highways England plus additional queries regarding the assumptions within the SFRA Humber and Hull modelling.</p>
46.	11 March 2019	Email	<p>Provision of example CAD drawing for Environment Agency's Hull Humber Frontage Improvement Scheme following initial telephone call to BAM Nuttall on 08 February 2019 and follow up email.</p>

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
47.	13 March 2019	Email	Follow up request to Environment Agency to provide the model and modelling output from the Hull Humber Frontages project.
48.	13 March 2019	Email	Provision of SFRA model files from Arup for: <ul style="list-style-type: none"> <li>River Hull &amp; Holderness Drain fluvial climate change runs (with tidal boundary). The two simulations undertaken for the Hull SFRA are those prefixed with "HFM_v20v026_CC-flows-plus-50pc".</li> <li>Humber Frontage breaches climate change runs.</li> </ul>
49.	27 March 2019	Email	Provision of Environment Agency's Hull Humber Frontages project model scenario output.
50.	5 April 2019	Email	Provision of draft Statement of Common Ground for review by the Environment Agency.
51.	8 April 2019	Email	Provision of working draft of Highways England's response to the EA's Relevant Representation for review by the EA.
52.	8 April 2019	Meeting	Meeting with Environment Agency. Discussion of progress on draft Statement of Common Ground, Highways England's working draft response to the Environment Agency's Relevant Representation and the approach to the response to the Examining Authority's Written Questions that are directed to both Highways England and the Environment Agency.  The Environment Agency agreed to provide comments on the Statement of Common Ground and Highways England's response to the Environment Agency's Relevant Representation
53.	11 April 2019	Email	Highways England forwarding letter from Yorkshire Water confirming the acceptance of proposed underpass drainage to the sewer network.
54.	17 April 2019	Email	Provision of working draft (version 2) of Highways England's response to the Environment Agency's Relevant Representation for review by the Environment Agency.
55.	17 April 2019	Email	Environment Agency comments on draft Statement of Common Ground.

Doc No.	Date	Form of correspondence	Key topics discussed and key outcomes
56.	17 April 2019	Meeting	<p>Discussion of Environment Agency's comments on draft Statement of Common Ground and working draft response to the Environment Agency's Relevant Representation.</p> <p>Environment Agency asked that the following issues raised in the Environment Agency's Relevant Representation be added to SoCG:</p> <ul style="list-style-type: none"> <li>• Non-compliance with the National Policy Statement for National Networks (with respect to offsite impact)</li> <li>• Lifetime of the development</li> <li>• Breach assessment</li> <li>• Consideration of inundation times for overtopping and breach to inform emergency procedures</li> <li>• Resilience of the surface water pumping station</li> <li>• Use of high capacity pumps in recovery phase only.</li> </ul> <p>Additional minor clarifications and edits to the SoCG suggested by the Environment Agency.</p> <p>Further Environment Agency comment on the Relevant Representation response queried where the tidal flood waters in the underpass would be discharged to by the high volume recovery pumps. It was considered the most likely destination is the Humber as there may not be capacity in the sewer (this would need to be confirmed at the time).</p>
57.	17 April 2019	Email	<p>Updated Environment Agency comments on draft Statement of Common Ground following meeting earlier in the day.</p> <p>The Environment Agency confirmed that the pollution prevention measures previously agreed with them for the underpass drainage will no longer be relevant if general surface water drainage is to be discharged to the Yorkshire Water (YW) sewer rather than into the Humber. The Environment Agency asked that we confirm with YW if they have their own pollution prevention requirements.</p> <p>The Environment Agency also confirmed that there will be no requirement for any temporary pollution prevention measures that may be put in place to clear the underpass following inundation in a flood event.</p>

<b>Doc No.</b>	<b>Date</b>	<b>Form of correspondence</b>	<b>Key topics discussed and key outcomes</b>
58.	18 April 2019	Email	The Environment Agency forwarded further comments on Highways England's working draft response to the Environment Agency's Relevant Representation issued to the Environment Agency on 17 April 2019 (on 18.11, 18.11, 18.17, 18.18, 18.22, 18.27 and 18.28) which will be considered in the final response.

- 2.1.1 It is agreed that this is an accurate record of the key meetings and consultation undertaken between (1) Highways England and (2) Environment Agency in relation to the issues addressed in this SoCG.

### 3 ISSUES

3.1.1 A summary of issues identified within the ES in relation to the Application is outlined in Table 3.1.

**Table 3.1 Summary of issues discussed in the ES**

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
Chapter 1: Introduction	1.9.1	Other Regulatory regimes, Permits and exemptions	Permits and exemptions will be required pursuant to the Environmental Permitting (England and Wales) Regulations 2016 and any other relevant permitting or licensing regimes.	Agreed	Under discussion  Prior to the construction of the Scheme, appropriate environmental permits or exemptions will be applied for and in place These are discussed at Table 3.2 Summary of issues discussed in the OEMP below and also at TR010016/APP/7.3, Outline Environmental Management Plan (OEMP) Table 4.1 Permits, consents and licences and Annex B Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11).
Chapter 2: The Scheme	2.6.64	Description of the proposed Improvements, Drainage, Climate change allowance	Drainage to be designed with a 30% allowance for climate change at the express request of the Environment Agency to meet a 'site specific' situation and in consideration of historic	Agreed	Agreed

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			flooding in Hull.		
	2.6.71	Description of the proposed improvements, Drainage, Underpass drainage system, Alternative proposed outfall locations	Selection of the preferred outfall to the River Humber location will depend on investigation of the existing sheet piled wall and any constraints due to land use. This proposal is being discussed with NE, Environment Agency and the land owner.	Agreed	N/A Yorkshire Water have confirmed acceptance of the discharge directly into their existing sewer.
Chapter 3: Consideration of Alternatives	3.3.5	Option selection	Environment Agency did not prefer Option 1.	No comment	Agreed
Chapter 4: Consultation	4.5.10	Consultation relating to environment, Consultation with third parties, Environment Agency, Flood risk and drainage	Environment Agency to be consulted extensively on issues relating to flood risk and drainage of the Scheme. They are to be involved in the development of the flood risk modelling, groundwater modelling and the location and nature of groundwater testing.	Agreed	Under discussion. Discussions have been held with the Environment Agency via meetings and the provision of written advice, on matters including flood risk, groundwater protection and pollution control. Conversations around flood risk in particular are ongoing. Findings will be presented in Highways England's comments on the

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					Environment Agency's Relevant Representation – see Table 3.4 below.
	4.5.11	Consultation relating to environment, Consultation with third parties, Environment Agency, Environmental permit requirements	Environment Agency have confirmed no environmental permit requirements for the re-burial of remains within Trinity Burial Ground.	Agreed	Agreed
	4.5.11	Consultation relating to environment, Consultation with third parties, Environment Agency, Options for re-use of soils	Environment Agency to be consulted on the options for re-use of soils during development of the Materials Management Plan as part of the Detailed Design Stage.	Agreed	Under discussion. During the Detailed Design Stage Environment Agency will be consulted on the options for re-use of soils during development of the Materials Management Plan.
Chapter 11: Road Drainage and the Water Environment	11.1.6 / 11.1.11 /	Executive summary, Surface water and flood risk, Flood Warning Service	Environment Agency agreed that management of flood risk includes use of the Flood Warning Service.	Agreed	Agreed
	11.1.7 / 11.10.2	Executive summary, Surface water and flood risk, Underpass drainage system	Environment Agency commented that the underpass drainage system should include an oil interceptor and shut off valve to isolate and contain any contaminants released during an accidental spillage.	Agreed	N/A Yorkshire Water have confirmed acceptance of the discharge directly into their existing sewer but the Environment Agency asked if we can confirm if pollution prevention measures are

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					required by Yorkshire Water.
	11.4.9 / 11.4.19 / 11.4.20 & Table 11.4	Approach and methodology, Consultation, Flood risk assessment	Environment Agency to agree to flood risk assessment approach and consideration of particular flood risk scenarios. Additional information relating to flood risk to be supplied.	Agreed	<p>Under discussion.</p> <ul style="list-style-type: none"> <li>• August 2018 – following a meeting subsequent to Environment Agency review of the draft FRA, 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.</li> <li>• December 2018 to March 2019 - Following comments made in the Relevant Representation, flood risk evidence base may be updated and modelling may revised to UKCP18 depending on availability of supporting data from Environment Agency.</li> <li>• 4 March 2019 – Revised Technical Note issued to Environment Agency, including additional flood</li> </ul>

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					risk mapping and response to Environment Agency's letter of 28 August 2019 regarding site compound flood risk (see Table 3.3).
	11.4.9	Approach and methodology, Consultation, Groundwater assessment	Environment Agency to agree to approach to groundwater assessment, including the use of groundwater modelling and pumping tests.	Agreed	Agreed
	11.4.25 & Table 11.15	Approach and methodology, Specific methodologies, Surface water quality	Environment Agency accepted a modified Step 2 assessment based on mass-balance calculation to assess the dilution in the receiving water.	Agreed	N/A Yorkshire Water have confirmed acceptance of the discharge directly into their existing sewer therefore method no longer applicable.
	11.4.41 / Table 11.15 / 11.10.8	Approach and methodology, Specific methodologies, Limitations – surface water and flood risk	A programme of surface water quality sampling would be required prior to, during and following construction of the Scheme, the locations of which will be agreed with Environment Agency.	Agreed	Under discussion. Prior to, during and following the construction of the Scheme, a surface water quality sampling plan will be required following agreement with Environment Agency. This is secured as a requirement in the Register of Environmental Actions and Commitments (REAC)

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					(TR010016/APP/6.11) at reference W4, W7 and W11. See also Table 3.2 below.
	11.5.103	Existing environment, Groundwater, Hydrogeology	Environment Agency has confirmed that it is satisfied in principle with the investigation that has been undertaken and the conclusions drawn from this, including the groundwater modelling approach.	Agreed	Agreed
	11.6.22 / Table 11.16 / 11.10.7	Mitigation, Construction, Construction phase Mitigation, Groundwater monitoring	Environment Agency shall be consulted about the level of groundwater monitoring required.	Agreed	Under discussion. Prior to, during and following the construction of the Scheme, a groundwater monitoring plan will be required following agreement with Environment Agency. This is secured as a requirement in the Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11) at reference W8. See also Table 3.2 below.
	11.6.23	Mitigation, Construction, Construction phase Mitigation, Groundwater monitoring	Groundwater abstractions and discharges for construction dewatering may require consents from Environment	Agreed	Under discussion. Prior to, during and following the construction of the Scheme, a groundwater

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			Agency and must demonstrate no significant adverse impacts on groundwater receptors or receiving waterbodies.		monitoring plan will be required following agreement with Environment Agency, and the appropriate consents secured. This is secured as a requirement in the Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11) at reference W8. See also Table 3.2 below.
	11.6.29	Mitigation, Operation, Climate change allowance	Environment Agency to agree the scenarios and climate change allowances to be considered as part of the flood risk assessment.	Agreed	Under discussion.  Following comments made in the Relevant Representation, flood risk evidence base has been updated to qualitatively consider UKCP18 and modelling updated to consider H++ allowances.  Findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.
	11.7.8	Predicted environmental effects, Construction phase – surface water	Environment Agency to agree to the proposed location of the	Agreed	N/A  Yorkshire Water have confirmed acceptance of

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
		and flood risk, General, Outfall	rising main outfall into the Humber Estuary.		the discharge directly into their existing sewer.
	11.8.1	Climate change effects, Surface water and flood risk, Tidal flooding scenarios	For the tidal flooding scenarios from the River Hull with the Tidal Surge Barrier open, it was agreed with Environment Agency that the 1 in 1000-year return period event should be used as a surrogate for a 1 in 200-year return period event with climate change impacts.	Agreed	Agreed
			A qualitative assessment will be provided on climate change impacts on tidal flooding from the Humber estuary.	Agreed	Under discussion. Following comments made in the Relevant Representation, flood risk evidence base has been updated to qualitatively consider UKCP18 and modelling updated to consider H++ allowances. Any findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.
	11.10.6	Conclusions, Surface water and flood risk	Environment Agency Flood Warning Service procedures have been updated and amended to reflect the particular	Agreed	Under discussion. Following comments made in the Relevant Representation, the Flood

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			requirements of flooding of the underpass.		Emergency Evacuation Plan FEEP) may be updated.  Any findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.
Appendix 11.1 Surface Water Quality Impact Assessment	1.1.3 / 2.2.2 / 2.3.5	Introduction, runoff impact assessment	A modified routine runoff impact assessment was agreed with Environment Agency.	Agreed	N/A  Yorkshire Water have confirmed acceptance of the discharge directly into their existing sewer therefore method no longer applicable
	2.5.1 – 2.5.5 / 6.1.4 / 6.1.5	Summary of consultation	Environment Agency stated that the discharge from the outfall must not cause scour and sediment plumes downstream of the outfall location and should consider tidal locking (i.e., the prevention of discharge from an outfall when the outfall is submerged during a high tide).  Any approach to the water quality impact assessment would need to be agreed with Environment Agency as well as the Highways Agency (now	Agreed	N/A  Yorkshire Water have confirmed acceptance of the discharge directly into their existing sewer.

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			<p>Highways England).</p> <p>Impact assessment methodology accepted in principle.</p> <p>Request for the following measures to be incorporated in the drainage design:</p> <ul style="list-style-type: none"> <li>• Adequate pollution control measures, e.g. oil / petrol interception facilities, are in place to remove residual oil / petrol contaminants, prior to discharge to the Humber.</li> <li>• Additional measures should be incorporated in the infrastructure of the drainage system, e.g. cut off valves, such that in the event of a major incident on the A63, any contaminants lost to the drainage system serving the carriageway can be isolated and contained.</li> </ul>		
	3.3.2 / 6.1.6	Ground investigation, Surface water quality monitoring, Monitoring requirements	Monitoring requirements in the vicinity of the Scheme prior to, during and post construction, to be agreed with Environment Agency.	Agreed	Under discussion.  Prior to, during and following the construction of the Scheme, a surface water quality monitoring plan will be required

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					following agreement with Environment Agency.
Appendix 11.2 Flood Risk Assessment including Flood Emergency Evacuation Plan (FEEP)	Flood Risk Assessment including Flood Emergency Evacuation Plan (FEEP)	Flood Risk Assessment including Flood Emergency Evacuation Plan (FEEP)	Environment Agency request that additional information was provided as per Appendix 11.9 requirements below.	Agreed	Under discussion. <ul style="list-style-type: none"> <li>• August 2018 – following a meeting subsequent to Environment Agency review of the draft FRA, 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.</li> <li>• December 2018 to February 2019 - Following comments made in the Relevant Representation, flood risk evidence base may be updated and modelling may revised to UKCP18 depending on availability of supporting data from Environment Agency. Additional details have also been requested in relation to the FEEP.</li> </ul>

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
					<ul style="list-style-type: none"> <li>4 March 2019 – Revised Technical Note issued including additional flood risk mapping and response to Environment Agency’s letter of 28 August 2019 regarding site compound flood risk</li> </ul>
Appendix 11.4 Groundwater Report	1.3	Introduction, Consultation	Approach to the groundwater assessment agreed by Environment Agency. Details in the ES.	Agreed	<p>Agreed</p> <p>Prior to, during and following the construction of the Scheme, a groundwater monitoring plan will be required following agreement with Environment Agency.</p> <p>This is secured as a requirement in the Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11) at reference W8. See also Table 3.2 below.</p>
Appendix 11.5 Pumping Test Report	Page 11	Regulator / Landowner liaison, Environment Agency	<p>Approval given for pumping tests.</p> <p>Pumping tests should comply with the Guidelines for Temporary Water Discharges from Excavations with the following constraints:</p>	Agreed	Agreed

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			<ul style="list-style-type: none"> <li>• Water to be discharged to tanker until water runs clear and water quality proven to be comparable to routine groundwater samples taken in the Hull area, and with approval from the Environment Agency prior to commencement with the test.</li> <li>• Water quality sampling at the point of abstraction and within the dock (at existing GI sampling points SW2 and SW3), including ammonium, selected metals and selected organics during the pumping tests.</li> <li>• Allowance for intermittent spot tests on ammoniacal nitrogen levels.</li> <li>• The test is to be suspended should there be any significant deterioration in ammoniacal nitrogen, visual quality or odour of the discharge water.</li> <li>• BWML to be informed of start and finish times of the test to allow for monitoring of dock levels.</li> </ul>		

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
Appendix 11.8 Drainage Impact Assessment	2.2.2	Methodology, Consultation, Environment Agency	<p>Environment Agency requirements summarised as follows:</p> <ul style="list-style-type: none"> <li>• The underpass should not flood for a 1-in-100-year return period rainfall event with a 30% allowance for climate change (in line with guidance from the National Planning Policy Framework).</li> <li>• Traffic diversion routes around the underpass should be drivable (taken to mean no flooding deeper than kerb level) during a 1-in-100-year return period rainfall event with a 30% allowance for climate change.</li> <li>• Consideration must be given to the overland flows (external to the site) entering the underpass during extreme events.</li> <li>• Flows may be pumped into the River Humber at an unrestricted rate.</li> <li>• Alternative power supply sources (generator, uninterruptable power supply etc.) should be considered to</li> </ul>	Agreed	<p>Under discussion.</p> <p>Following comments made in the Relevant Representation, further information is to be provided on emergency diversion routes and offsite flood risk.</p> <p>Any findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.</p>

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			<p>manage the risk of power failure.</p> <ul style="list-style-type: none"> <li>Emergency procedures should be developed to minimise the risk to road users should power failure occur over an extended period of time.</li> </ul>		
Appendix 11.9 Additional Flood Risk Assessment Information Requirements	1.2.1	Introduction, Additional flood risk information requirements	<p>Environment Agency requested further information on the following:</p> <ul style="list-style-type: none"> <li>Plans showing comparisons of flood extents to identify additional areas of flooding or areas no longer at risk of flooding as a result of the Scheme.</li> <li>Plans or data tables showing changes in flood depth as a proportion of the existing (baseline) flood depth.</li> <li>Plans or figures highlighting areas of change in Flood Hazard.</li> <li>A review of road levels and flood depth information to identify the level at which the road must be constructed in order to manage flooding of</li> </ul>	Agreed	<p>Under discussion.</p> <p>Response provided in Additional Flood Risk Assessment Technical Note (see Table 3.3 and footnote 3).</p> <p>Following comments made in the Relevant Representation, the Flood Emergency Evacuation Plan (FEEP) may be updated and further information to be provided on emergency diversion routes and offsite flood risk.</p> <p>Any findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.</p>

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			<p>the underpass from Humber wave overtopping or River Hull tidal flooding events.</p> <ul style="list-style-type: none"> <li>A review of the potential impacts of proposed flood defence upgrades as part of the Humber Hull Frontages scheme based on information on these upgrades to be supplied by Environment Agency.</li> </ul>		
Chapter 12: Geology and Soils	12.5.12	Approach and methodology, Consultation, Environment Agency	<p>Consultation with Environment Agency and the Environmental Health Officer (EHO) at HCC has been undertaken. Discussions were held with EHO to confirm the scope of the main ground investigation works in 2013 and proposed chemical analysis testing suite. Communication continued throughout the works.</p>	Agreed	Agreed.
Chapter 13: Materials	13.6.6	Baseline conditions (existing environment)	<p>Environment Agency advised that there are two landfills in Yorkshire with Stable Non-Reactive Hazardous Waste cells. Locally, Gallymoor landfill is located 30km to the north west at Market Weighton and regionally, Erin landfill is located</p>	Agreed	Agreed.

ES document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			110km to the south west at Duckmanton.		

3.1.2 A summary of issues identified within the Outline Environmental Management Plan (OEMP) in relation to the Application is outlined in Table 3.2.

**Table 3.2 Summary of issues discussed in the OEMP**

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
Chapter 4: Consents and Permissions	4.2.3	Consents, Licences and permitting, Table 4.1, Flood risk activity	Permit is required to do any regulated flood risk activities, such as activity within 16m of landward toe of any sea defence structure, under the Environmental Permitting Regulations 2016.	Agreed	Under discussion.  Prior to the construction of the Scheme, appropriate permits will be applied for and in place for any regulated flood risk activities.  These are discussed at TR010016/APP/7.3, Outline Environmental Management Plan (OEMP) Table 4.1 Permits, consents and licences and Annex B Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11)

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
	4.2.3	Consents, Licences and permitting, Table 4.1, Environmental permit – discharge of waste water	A method statement is required to minimise the risk of pollution.  There are a number of Regulatory Position Statement (RPS) conditions that must be adhered to, relating to source of water, water quality and potential impact on receiving water course. A bespoke permit will be required if RPS conditions cannot be complied with.	Agreed	Under discussion.  Prior to the construction of the Scheme, appropriate environmental permits will be applied for and in place.
	4.2.3	Consents, Licences and permitting, Table 4.1, Transfer licence for construction dewatering	Dewatering design details will be required before the licensing process can commence. A Groundwater Investigation Consent is likely to be required to drill and test the dewatering system as part of the licensing process.	Agreed	Under discussion.  Prior to the construction of the Scheme, appropriate consents will be applied for and in place.
	4.2.3	Consents, Licences and permitting, Table 4.1, Ordinary watercourse consent	Consent is required to discharge into docks / marinas and ordinary watercourses.	Agreed	Under discussion.  Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.
	4.2.3	Consents, Licences and permitting, Table 4.1, Waste carrier registration and waste transfer notes	Principal Contractor to ensure their selected waste carrier is registered (upper tier) through Environment Agency and up-to-date waste transfer notes / edoc	Agreed	Under discussion.  Prior to the construction of the Scheme, it will be checked that the waste carrier is registered

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			completed.		appropriately with the Environment Agency.
	4.2.3	Consents, Licences and permitting, Table 4.1, Environmental permitting - waste	Waste management facilities receiving waste streams must hold and comply with the correct permit or appropriate exemption to accept or manage a particular waste.	Agreed	Under discussion. Prior to the construction of the Scheme, appropriate permits or exemptions to accept or manage waste will be applied for and in place.
Annex B: Register of Environmental Actions and Commitments (REAC)	W1	Road drainage and the water environment, To limit effects as a result of storage of materials.	Water quality monitoring plan to be carried out once agreed with Environment Agency.	Agreed	Under discussion. Prior to, during and following the construction of the Scheme, a water quality monitoring plan will be required following agreement with Environment Agency.
	W2	Road drainage and the water environment, To limit impacts of reduced flows due to earthworks and increased infiltration.	Any discharges to docks / marinas would require consent from Marine Management Organisation, dock operators and Environment Agency.	Agreed	Under discussion. Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.
	W3	Road drainage and the water environment, To limit impacts of increased flows due to construction dewatering.	Any discharges to docks / marinas would require consent from Marine Management Organisation, dock operators and Environment Agency.	Agreed	Under discussion. Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
	W4	Road drainage and the water environment, To limit impacts of increased suspended solids and reduction in water quality because of earthworks, construction dewatering, plant and vehicle washing, etc	Any discharges to docks / marinas would require consent from Marine Management Organisation, dock operators and Environment Agency.  Monitoring plan to include water quality sampling prior to, during and after construction to be agreed with Environment Agency.	Agreed	Under discussion.  Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.  Prior to, during and following the construction of the Scheme, a water quality monitoring/sampling plan will be required following agreement with Environment Agency.
	W5	Road drainage and the water environment, To limit impacts of changes in flood flow routes due to alteration of ground elevations	Emergency procedures required to evacuate construction footprint in the event of extreme flooding. Procedures to account for all sources of flooding including tidal, pluvial and fluvial flooding.  Temporary pumping arrangements required to discharge flood waters to sewer subject to permit / consent.	Agreed	Under discussion.  Following comments made in the Relevant Representation, the FEEP may be updated and further information to be provided on emergency diversion routes during construction and offsite flood risk.  Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.
	W6	Road drainage and the water environment, To limit impacts of pollution due to accidental	Monitoring plan to include water quality sampling prior to, during and after construction to be agreed with Environment	Agreed	Under discussion.  Prior to, during and following the construction of the Scheme, a water quality

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
		spillages of oils, fuels, chemicals, concrete, cement or admixtures, etc	Agency.		monitoring/sampling plan will be required following agreement with Environment Agency.
	W7	Road drainage and the water environment, To limit impacts of changes to groundwater level or flow as a result of construction	Groundwater monitoring plan to include water level monitoring prior to, during and after construction to be agreed with Environment Agency.  Any discharges to docks / marinas would require consent from Marine Management Organisation, dock operator and Environment Agency.  Water quality monitoring reporting to be agreed with Environment Agency.	Agreed	Under discussion.  Prior to, during and following the construction of the Scheme, a groundwater monitoring plan and water quality monitoring/sampling plan will be required following agreement with Environment Agency.  Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.
	W8	Road drainage and the water environment, To limit impacts of additional saline intrusion during construction dewatering	Groundwater monitoring plan to include water level monitoring prior to, during and after construction to be agreed with Environment Agency.  Water quality monitoring reporting to be agreed with Environment Agency.	Agreed	Under discussion.  Prior to, during and following the construction of the Scheme, a groundwater monitoring plan and water quality monitoring/sampling plan will be required following agreement with Environment Agency.
	W9	Road drainage and the water environment, To limit the deterioration of	Groundwater monitoring plan to include water level monitoring prior to, during and after	Agreed	Under discussion.  Prior to, during and following the construction of the

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
		groundwater quality as a result of mobilisation of contamination and generation of suspended solids through ground disturbance; Creation of new contamination pathways between the surface superficial deposits and Chalk, and direct contact with construction materials.	<p>construction to be agreed with Environment Agency.</p> <p>Any discharges to docks / marinas would require consent from Marine Management Organisation, dock operator and Environment Agency.</p> <p>Water quality monitoring reporting to be agreed with Environment Agency.</p>		<p>Scheme, a groundwater monitoring plan and water quality monitoring/sampling plan will be required following agreement with Environment Agency.</p> <p>Prior to the construction of the Scheme, appropriate consents to discharge will be applied for and in place.</p>
	W10	Road drainage and the water environment, To limit impacts of pollution on Humber Dock Marina as a result of the construction of piled foundations for Princes Quay Bridge	<p>Monitoring plan to include water quality sampling prior to, during and after construction to be agreed with Environment Agency.</p> <p>Water quality monitoring reporting to be agreed with Environment Agency and Marine Management Organisation.</p>	Agreed	<p>Under discussion.</p> <p>Prior to, during and following the construction of the Scheme, a groundwater monitoring plan will be required following agreement with Environment Agency.</p>
	W11	Road drainage and the water environment, To limit impacts of construction on access for maintenance of Environment Agency flood defences	No materials or plant to be stored within 16m of flood defences in order to allow access for maintenance of flood defence assets by Environment Agency.	Agreed	Agreed
	W12	Road drainage and the water environment, To	Environment Agency flood warning service to be	Agreed	Under discussion.

Chapter	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
		limit impacts of flooding on construction workers, plant and materials	<p>subscribed to throughout construction. If flood alert or flood warning received, information to be shared with relevant personnel.</p> <p>Flood evacuation plan to be prepared for temporary site compounds and to include provision for safe evacuation of personnel and protection or removal of plant or sensitive material likely to be mobilised during a flood.</p> <p>Any sensitive temporary structures to be constructed in a flood resilient fashion, where appropriate.</p>		<p>Following comments made in the Relevant Representation, the FEEP may be updated and further information to be provided on emergency diversion routes for construction areas and offsite flood risk.</p> <p>Any findings will be presented in Highways England's comments on the Environment Agency's Relevant Representation.</p>

3.1.3 A summary of issues identified within the Additional Flood Risk Information Technical Note (response to queries raised in ES Appendix 11.9 queries) in relation to the Application is outlined in Table 3.3.

**Table 3.3 Summary of issues discussed in the Technical Note**

Technical Note Section	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
Comparison of flood events	2.1	Comparison of flood extents	Plans showing comparisons of flood extents to identify additional areas of flooding or areas no longer at risk of flooding as a result of the	Agreed	<p>Under discussion.</p> <p>Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment</p>

Technical Note Section	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			Scheme.		and issued to the Environment Agency as a Technical Note after the DCO submission.
	2.2	Relative changes in flood depths	Plans or data tables showing changes in flood depth as a proportion of the existing (baseline) flood depth.	Agreed	Under discussion. Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment and issued to the Environment Agency as a Technical Note after the DCO submission.
	2.3	Change in Flood Hazard Rating	Plans or figures highlighting areas of change in Flood Hazard	Agreed	Under discussion. Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment and issued to the Environment Agency as a Technical Note after the DCO submission.
	2.4	Review of peak flood levels along the length of the proposed underpass	A review of road levels and flood depth information to identify the level at which the road must be constructed to manage flooding of the underpass from Humber	Agreed	Under discussion. Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment and issued to the

Technical Note Section	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
			wave overtopping or River Hull tidal flooding events.		Environment Agency as a Technical Note after the DCO submission.
	2.5	Review of the proposed Humber defence upgrades	A review of the potential impacts of proposed flood defence upgrades as part of the Humber Hull Frontages scheme based on information on these upgrades to be supplied by the Environment Agency.	Agreed	Under discussion. Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment and issued to the Environment Agency as a Technical Note after the DCO submission.
	2.6	Review of flood risk to and from temporary construction compounds	Flood risk to and from temporary compounds during construction of the Scheme will be managed using best practice methods as stipulated at TR010016/APP/7.3, Outline Environmental Management Plan (OEMP) Annex B Register of Environmental Actions and Commitments (REAC) (TR010016/APP/6.11, reference W12) and will include requirements for robust emergency response plans to significant flood events.	Agreed	Under discussion. Information provided as agreed in Appendix 11.9 ES Chapter 11 Road Drainage and the Water Environment and issued to the Environment Agency as a Technical Note after the DCO submission.

**Table 3.4 Summary of issues discussed in the Environment Agency’s Relevant Representation**

Document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
Environment Agency’s Relevant Representation	18.06	Flood risk	Non-compliance with the National Policy Statement for National Networks (with respect to offsite impact)	Agreed	Agreed
	18.10 / 18.14	Evidence base – lifetime of development	Environment Agency requested confirmation on the lifetime of the development.	Response provided in Highways England’s response to the Environment Agency’ Relevant Representation	Under discussion
	18.17	Evidence base – breach assessment	Environment Agency requested further assessment of the impacts of a defence breach and how this might be managed \ mitigated.	Response provided in Highways England’s response to the Environment Agency’ Relevant Representation	Under discussion
	18.18	Evidence base – inundation times	Environment Agency requested further consideration of inundation times for overtopping and breach to inform emergency procedures.	Response provided in Highways England’s response to the Environment Agency’s Relevant Representation	Under discussion
	18.22	Resilience of underpass technology	Environment Agency requested further details on the flood resilience of underpass technology and whether these would be operational in a flood event.	Response provided in Highways England’s response to the Environment Agency’s Relevant Representation	Under discussion

Document	Paragraph Reference	Sub-section	Environment Agency Comment	Highways England Response	Status
	18.27	Recovery	Environment Agency requested further details on how Highways England's high-volume pumps would be used during an extreme event and where the water would be pumped to.	Response provided in Highways England's response to the Environment Agency's Relevant Representation	Under discussion
	18.28	Risk to surface water pump	Environment Agency requested further details on the underpass drainage surface water pumping station to whether it is sufficiently resilient to flooding, to allow continued operation in a flood event.	Response provided in Highways England's response to the Environment Agency's Relevant Representation	Under discussion

