

# Cottam Solar Project

## Environmental Statement Addendum: Chapter 10: Hydrology, Flood Risk and Drainage

Prepared by: Lanpro Services  
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## Issue Sheet

Report Prepared for: Cottam Solar Project Ltd.

Examination Deadline 1

### Environmental Statement Addendum

### Chapter 10: Hydrology, Flood Risk and Drainage

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## 1 Hydrology, Flood Risk and Drainage

### 1.1 Introduction

1.1.1 This document is an addendum to the hydrology, flood risk and drainage assessment included within the submitted Environmental Statement Chapter 10: Hydrology, Flood Risk and Drainage (Application Document Reference: **[APP-045]**).

1.1.2 This Addendum report should be read in conjunction with ES Chapter 10: Hydrology, Flood Risk and Drainage **[APP-045]**. This Addendum updates certain elements of ES Chapter 10 and does not replace it.

1.1.3 In response to comments made in the relevant representations, this addendum has been prepared to provide additional information relating to:

- *Service crossing below the bed of a main river not involving an open cut technique* ('FRA3') methodology <sup>1</sup>

1.1.4 The objective of this addendum is to ensure consistency of embedded mitigation relating to FRA3 across the application documents and to make it clear that 'FRA3' methodology is being adopted.

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<sup>1</sup> Service crossing below the bed of a main river not involving an open cut technique (FRA3):  
<https://www.gov.uk/government/publications/environmental-permitting-regulations-exempt-flood-risk-activities/exempt-flood-risk-activities-environmental-permits>

## 1.2 Updates to ES Chapter 10: Hydrology, Flood Risk and Drainage

1.2.1 The following sections of ES Chapter 10: Hydrology, Flood Risk and Drainage [APP-045] have been updated in respect of the FRA3 methodology to ensure consistency of embedded mitigation and address the Environment Agency's concerns as set out in their Relevant Representation [RR-026].

### Consultation

1.2.2 Table 10.1: Consultation within Section 10.2 of ES: Chapter 10 [APP-045] sets out the consultation responses to the EIA Scoping and Statutory Consultation stages.

1.2.3 The table references the following consultee: Witham 3 Internal Drainage Board (IDB). Correction to the consultee is made as follows: Upper Witham Internal Drainage Board (IDB). The amendment does not alter the Applicant's responses as set out in Table 10.1: Consultation of the submitted ES: Chapter 10 [APP-045].

### Embedded Mitigation

1.2.4 Section 10.7 of ES: Chapter 10 [APP-045] provides an overview of measures that have been identified and adopted within the Scheme design which are considered to be embedded mitigation. Additional measures have been identified to ensure consistency of embedded mitigation with the FRA3 and to ensure consistency across the application documents. The additional measures are set out below:

- Electrical infrastructure associated with the panels can be adequately waterproofed to withstand the effect of flooding. Where possible the sensitive electrical equipment associated with the panels has been located in parts of the Site that are within Flood Zone 1. Where this hasn't been possible, in any event equipment will be raised 0.6 m above the 0.1% Annual Exceedance Probability (AEP) flood level or, where this is not possible, as high as practicable.
- The minimum height of the lowest part of the fixed solar panel units will be 0.6m above ground level.
- Fixed panels should be located within areas of the Site which are located in Flood Zone 1 whereas tracker panels can be located in areas that are within Flood Zones 2 and 3 on the basis of the additional flood protection offered by their potential to be stowed horizontally.

1.2.5 There are no other changes proposed that would alter the embedded mitigation chapter as set out in the submitted ES: Chapter 10 [APP-045].

### 1.3 Summary

- 1.3.1 In summary, the Embedded Mitigation as set out in ES: Chapter 10 [APP-045] has been reviewed and additional measures are proposed to ensure consistency of embedded mitigation with the FRA3 and to ensure consistency across the application documents embedded mitigation. There are no other changes to the effects or mitigation measures as identified in Chapter 10: Hydrology, Flood Risk and Drainage of the Environmental Statement [APP-045].