Hadyard Hill Extension Wind Farm – Addendum

Erratum

Introduction and Non-Technical Summary

This document is an erratum to the Hadyard Hill Extension Wind Farm Environmental Statement Addendum (the Addendum) submitted by SSE on 27 February 2017, which updates the risk assessment for the Lanes Farm (19) private water supply (PWS). The purpose of this erratum is to provide a correction to the PWS source location for Lanes Farm, detailed in Section 7.4 of the Addendum and Technical Appendix 7.4A, Private Water Supply Risk Assessment. The Addendum should be read subject to the information in this Erratum. Any text in the Addendum inconsistent with this Erratum should be disregarded.

An assessment for the changed location is presented below. In summary we are satisfied that there is no change to the Lanes Farm PWS risk assessment presented in the Addendum. Through the implementation of specific mitigation, including for the potentially affected area the creation of specific work plans by the principal contractor in liaison with the Ecological Clerk of Works, no adverse effect is predicted on the quality and quantity of the Lanes Farm PWS due to the construction of the proposed development.

Change in Private Water Supply Location

In summary, the methodologies provided in Section 7.4 of the Addendum and Section 3 of Technical Appendix 7.4A remains unchanged. The summary information provided in Section 7.4, paragraph 7.4.1 of the Addendum also remains unchanged.

In Section 5 (see the Addendum, Technical Appendix 7.4A, p. 14 Table 7.6 – Summary of Consultations), a response from Lanes Farm was received during the consultation undertaken in September 2014 for the ES, but not during the consultations undertaken in September 2016 as part of the Addendum. Therefore, as no further response was provided an attempt to verify the source location was undertaken based on a review of the response to the 2014 questionnaire in addition to a review of aerial photography (see the Addendum, Technical Appendix 7.4A, Section 3, paragraph J and Annex C – Detailed Risk of Assessment, p. 50).

In line with the assessment methodologies, as no response was received to the consultation carried out in 2016 no permission was granted to carry out the necessary site verification (see the Addendum, Technical Appendix 7.4A, p. 4, paragraph I).

A post submission site visit was undertaken in June 2017. A collection zone and associated holding tank was located at NGR NX 26591 96345, which differs by 220m to the location identified in the Addendum (see Technical Appendix 7.4A, Annex C – Detailed Risk Assessment, p. 50). With this corrected location, the catchment of the Lanes Farm PWS source remains hydrologically connected to proposed development infrastructure (see Technical Appendix 7.4A, p. 15, paragraph vv).

The verified source location has resulted in a change to the catchment of the supply. Due to closer proximity to the catchment divide of the Water of Assel, the catchment of the supply has changed from the Addendum in that there is a reduction in the area of contribution (see Technical Appendix 7.4A, Annex C – Detailed Risk Assessment, p. 50). Within the catchment of the supply, the source location has changed from 175m to the closest section of track, as identified in the Addendum (see Technical Appendix 7.4A, Annex C – Detailed Risk Assessment, p. 50) to 65 m. As a result of this change in location, there is a reduction of existing track within the supply catchment from 174m to 15 m and new access track remains unchanged at 75 m.

Given the updated location of the Lanes Farm supply source the risk assessment (see below) has been revised and updated. The assessment concludes that the risk to the supply remains unchanged.
and that with appropriate mitigation the risk is very low. Further details on the updated risk assessment are provided in the following paragraphs.

**Assessment**

The Lanes Farm PWS remains hydrologically connected to the proposed development (see section 7.4.3, paragraph 13 of the Addendum). The probability of impact on the supply remains Likely as the source is located less than 250 m from construction works and the magnitude of change is assessed as Minor (see the Addendum, Technical Appendix 7.4A, p6 Table 7.1 – Probability of Impact and Table 7.2 – Magnitude of change to private water supply).

Despite the change in location of the supply source, the potential impacts from the proposed development on the quality and quantity of the supply remain unchanged (see the Addendum, Technical Appendix 7.4A, Section 6, p. 17, paragraphs aaa – ddd) as the extent of construction works occurring within the catchment of the supply is smaller. Through the implementation of specific mitigation, the risk to the supply source remains unchanged. Recommendations for specific mitigation include (see the Addendum, Technical Appendix 7.4A, Section 6, p. 18, paragraph hhh):

- Demarcate an area of exclusion around the area of the Lanes Farm source at 65 m;
- Maintain mitigation measures in line with mitigation measures detailed in the CEMP;
- As part of the detailed design, microsite the track in line with the commitments set out in the Construction Environmental Management Plan (see Hadyard Hill Extension Wind Farm Environmental Statement, Technical Appendix 2.4, Section 7, p. 42, paragraph 7.1.2); and
- For the work area potentially affecting the Lanes Farm PWS, specific work plans will be prepared by the Principal Contractor in liaison with the ECoW. The work plans will detail drainage arrangements, material exclusion areas and material storage areas as well as the location and type of relevant mitigation measures to be put in place (e.g. settlement ponds, silt fencing etc). Such plans would be prepared ahead of the works and submitted to the Planning Authority as part of the approval procedures for the CEMP documents.

In light of the updated information on the location of the supply source, as well as consideration of the potential impacts and mitigation, Table 1 presents a summary of the revised risk assessment (see the Addendum, Technical Appendix 7.4A, Section 6, p. 16 Table 7.7 Summary of Risk Assessment Results and p. 19 Table 7.8 Post-Mitigation Risk).

**Table 1: Summary of Risk Assessment for Lanes Farm PWS**

<table>
<thead>
<tr>
<th>Property ID</th>
<th>Property Name</th>
<th>Pre-Mitigation Combined Risk</th>
<th>Post Mitigation Combined Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Lanes Farm</td>
<td>Medium</td>
<td>Very Low</td>
</tr>
</tbody>
</table>

It is noted that the combined risk level of potential impacts (in terms of probability and magnitude of change) that the construction activities associated with the development may have on the quality and quantity of water supplying the identified abstraction for Lanes Farm PWS remains unchanged with a Medium pre-mitigation and Very Low post-mitigation risk (see the Addendum, Technical Appendix 7.4A, p. 16 Table 7.7 Summary of Risk Assessment Results and p. 19 Table 7.8 Post-Mitigation Risk).

For ease of reference and based on the updated information presented, the specific Lanes Farm PWS risk assessment has been updated (Table 2) (see Technical Appendix 7.4A, Annex C – Detailed Risk Assessment, p. 50).
As the risk levels for Lanes Farm PWS are unchanged the overall conclusions of the Addendum Non-Technical Summary (see e.g. Section 5.2), Section 7.4 and Technical Appendix 7.4A are unchanged.

Table 2: Detailed Risk Assessment for Lanes Farm PWS

<table>
<thead>
<tr>
<th>Location Plan</th>
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<tbody>
<tr>
<td><img src="image" alt="Location Plan" /></td>
</tr>
</tbody>
</table>

Supply Context Details
- **Location**: The property is located in the catchment of the Water of Assel.
- **Source Type** (chronological representation of information): Information held by the local authority suggests that this is a ground spring supply:
  - September 2014 – response from Mr Dunlop confirmed that the source is via a groundwater spring that is used for domestic and agricultural purposes. Source location mapped based on interpretation of returned questionnaire (NGR NX 26390 96252). Explicit permission to inspect the supply was not granted in the response;
  - September 2016 – no response from Mr Dunlop during the consultation works to complete the Addendum. Verification of source location attempted via review of aerial photography (NGR NX 26142 95989). As no response was received, a site verification could not take place (see the Addendum, Technical Appendix 7.4A, p. 4, paragraph 1);
  - June 2017 – site verification undertaken in June 2017 following reestablishment of contact with Mr Dunlop in June 2017. Source location, including holding tank, confirmed in 2017 and located at NX 26591 96345
- **Treatment** (if known): Unknown – resident did not provide details. In 2014, resident reported no issues with quality or quantity of water from source.
- **Current Land Use**: Fields / Rough Grazing.

Supply Consideration Details
- A site validation was undertaken in June 2017. Within the hydrological catchment of the source [NGR NX 26591 96345] there are proposals for upgrades to the existing access track (15 m) and creation of a new track (75 m) approximately 65 m to the north of the source location.
Photographs 1 and 2 show the collection area and current land use of the supply catchment as well as the source holding tank, respectively.

Photograph 1: Collection area and current land use of the supply catchment

Photograph 2: Lanes Farm source and holding tank

Topographic analysis illustrates the profile between the potential pollutant source (access track) and receptors (supply source) and confirms the connectivity between the source and infrastructure as described above.

<table>
<thead>
<tr>
<th>Probability</th>
<th>Magnitude of Change</th>
<th>Combined Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Likely</td>
<td>Minor</td>
<td>Medium</td>
</tr>
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</table>

**Risk Assessment**

**Statement of Significance**

Following site verification undertaken in June 2017 the source location for the Lanes Farm private water supply has been confirmed. The risk assessment has been revised and updated for this supply based on this updated information. Methodologies to complete the assessment have followed those provided in section 3, Technical Appendix 7.4A of the Addendum.
Taking the above considerations into account, the assessment has concluded that the risk to the Lanes Farm PWS remains unchanged. Consequently, through the implementation of specific mitigation, no adverse effect is predicted on the quality and quantity of the Lanes Farm PWS due to the construction of the proposed development.