



Torfichen Wind Farm

Appendix 10.3 Schedule of Watercourse Crossings

Renewable Energy Systems Ltd

Prepared by:

SLR Consulting Limited

Suite 223ab, 4 Redheughs Rigg Westpoint, South
Gyle, Edinburgh EH12 9DQ

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Basis of Report

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Table of Contents

Basis of Report	i
1.0 Introduction	1
1.1 Relevant Legislation	1
2.0 Watercourse Crossing Details.....	2



1.0 Introduction

This Appendix contains information relating to the proposed new watercourse crossings at the Proposed Development.

This report presents photographs and dimensions for each proposed new crossing point. The report also details the likely form of the track crossing solution (e.g., culvert, arch culvert, or bridge), however, the final design of each crossing solution would be agreed with Scottish Environment Protection Agency (SEPA) prior to construction and be determined as part of the detailed site design.

A series of surveys of the proposed watercourse crossings were undertaken in July and August 2023 by experienced SLR hydrologists.

The location of the watercourse crossings is shown in **Figure 10.1: Local Hydrology of the EIA Report**.

1.1 Relevant Legislation

The Water Framework Directive (2000/60/EC) (WFD) has been transposed into Scottish legislation as the Water Environment and Water Services (Scotland) Act 2003 (or WEWS) and has given Scottish ministers powers to introduce regulatory controls over activities in order to protect and improve Scotland's water environment. The water environment includes wetlands, rivers, lochs, transitional waters (estuaries), coastal waters and groundwater. These regulatory controls, known as the Water Environment (Controlled Activities) (Scotland) Regulations 2011 (CAR) came into force in 2011 and have since been amended in 2013, 2017, and 2021.



With respect to watercourse crossings, CAR requires that all engineering works in inland surface waters and wetlands are subject to authorisation and allow for proportionate risk-based regulation which is outlined in the CAR Practical Guide. The authorisation process operates at three levels:

- General Binding Rules (GBR):
 - Minor bridges with no construction on bed or banks.
- Registration:
 - Bridges across rivers and lochs where no part of the structure encroaches on the bed (e.g., no piers or in-channel supports). In addition, the total length of the structures on both banks should not be more than 20 m. This category includes bottomless arch culverts; and
 - Closed culverts used for single-track tracks, footpaths and/or cycle routes, where the affected river is not more than 2 m wide.
- Licence (Simple/Complex):
 - All other bridges, fords or causeways; and
 - This category would include bridges affecting more than 20 m total bank lengths, bridges with in-stream supports or closed culverts for crossings not specified above.



SEPA provide authorisation for watercourse crossings shown on the 1:50,000 scale Ordnance Survey (OS) maps (Landranger Series). All other watercourses are classed as "minor watercourse" and are exempt under CAR.





2.0 Watercourse Crossing Details

Watercourse Crossing ID	WX01
Watercourse Crossing Details	<p>NGR: NT 32439 53273 Status: New Watercourse Width: 0.2m Watercourse Depth: 0.3-0.4m Notes: None</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
<p>Proposed Crossing Type Likely Required CAR Authorisation</p>	<p>Culvert Registration</p>



Watercourse Crossing ID	WX02
Watercourse Crossing Details	<p>NGR: NT 32801 53401 Status: New Watercourse Width: 0.1m Watercourse Depth: 0.3m Notes: Located within a channel up to 0.5m wide</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration





Watercourse Crossing ID	WX03
Watercourse Crossing Details	<p>NGR: NT 32973 53551 Status: New Watercourse Width: 0.4m Watercourse Depth: 0.5m Notes: Gravel bed.</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration





Watercourse Crossing ID	WX04
Watercourse Crossing Details	<p>NGR: NT 33035 53876 Status: New Watercourse Width: 0.1m Watercourse Depth: 0.3m Notes: None</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
<p>Proposed Crossing Type Likely Required CAR Authorisation</p>	<p>Culvert Registration</p>



Watercourse Crossing ID	WX05
Watercourse Crossing Details	<p>NGR: NT 33568 54184 Status: New Watercourse Width: 0.4m Watercourse Depth: 0.6m Notes: None</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration





Watercourse Crossing ID	WX06
Watercourse Crossing Details	NGR: NT 33993 54155 Status: New Notes: Not Surveyed

Watercourse Crossing ID	WX07
Watercourse Crossing Details	NGR: NT 34090 54487 Status: New Watercourse Width: 0.2m Watercourse Depth: 0.5m Notes: None
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type	Culvert
Likely Required CAR Authorisation	Registration





Watercourse Crossing ID	WX08
Watercourse Crossing Details	<p>NGR: NT 34323 54360 Status: New Watercourse Width: 0.1m Watercourse Depth: 0.4m Notes: None</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
<p>Proposed Crossing Type Likely Required CAR Authorisation</p>	<p>Culvert Registration</p>





Watercourse Crossing ID	WX09
Watercourse Crossing Details	<p>NGR: NT 34402 54944 Status: New Watercourse Width: 0m Watercourse Depth: 0m Notes: Reeded and dry with no active channel. Channel width 1.3m and depth of 0.6m.</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration



Watercourse Crossing ID	WX10
Watercourse Crossing Details	<p>NGR: NT 34946 55136 Status: New Watercourse Width: 0.1m Watercourse Depth: 0.7m Notes: None</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration



Watercourse Crossing ID	WX11
Watercourse Crossing Details	<p>NGR: NT 35192 55899 Status: New Watercourse Width: 0m Watercourse Depth: 0m Notes: Dry. Channel width 0.2m and depth of 0.1m.</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Proposed Crossing Type Likely Required CAR Authorisation	Culvert Registration





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