

Tidal Lagoon Swansea Bay

CONTAMINATION AND GROUNDWATER

SUPPORTING DOCUMENT

DCO Requirement 12(1)(b) and 12(1)(c)

Works 7a

May 2020

Document title	Contamination and Groundwater Supporting Document
Document reference	C&G_Supporting-document_V1.0_May20_TLSB_DCO12
Internal document reference	1.0
Revision number	

Table of Contents

1 Introduction 2

1.1 The TLSB project2

1 Introduction

1.1 The TLSB project

1.1.1 Tidal Lagoon Swansea Bay (TLSB) will be the world's first purpose built tidal energy lagoon. The generating station will have an installed capacity of 320 megawatts (MW) and will enclose part of Swansea Bay, from the eastern side of the River Tawe to the eastern edge of the new Swansea University Bay-Campus. In total the seawall will form an approximately 9.5km-long, U-shape which will encompass approximately 11.5km² of the seabed, foreshore and intertidal area of Swansea Bay.

1.1.2 TLSB made an application to the Planning Inspectorate on 7 February 2014 for a Development Consent Order (DCO) for a tidal lagoon (the TLSB Project) in Swansea Bay, South Wales. Examination of the application closed on 10 December 2014 and development consent was granted by the Secretary of State (SoS) on 9 June 2015.

1.1.3 **This submission seeks to satisfy DCO requirement 12 - Contamination and Groundwater**

- (12(1)(b))
- (12(1)(c))

and includes the following documents as detailed in Table 1.1.

1.1.4 DCO Requirement 12(1)(b) and 12(1)(c) includes elements that are relevant to the City and County of Swansea Council (CCSC) and is provided to the authority for approval.

1.1.5 The details submitted have been produced to satisfy the criteria of DCO Requirement 12(1)(b) and 12(1)(c) in accordance with the Construction Phasing Scheme (DCO Requirement 3). This document will be updated, as appropriate, at the relevant phases of construction to include details relevant to that phase of DCO Works.

1.1.6 Details with regard to DCO Requirements 12.1 (a) have been previously submitted to and approved by CCSC Application Reference 2017/0803/DCO. Documentation submitted as part of this application is provided with this application for information.

1.1.7 Details with regard to DCO Requirements 12.1 (d), 12.1(e), 12.2, 12.3, 12.4 will be submitted to the relevant authority under separate application.

Table 1.1 Contamination and Groundwater (12(1)(b) (12(1)(c) document submission

DCO Requirement number	DCO Requirement	Documents submitted (title/author/date)	File names (size)	Notes
12.1 (a)	(a) a desktop study to identify all previous uses on the Order land and potential contaminants on land and controlled waters. The desktop study must establish a "conceptual site mode" (CSM) identifying all plausible pollutant linkages to be assessed;	<i>Tidal Lagoon Swansea Bay Onshore Works - Ground Conditions Desk Study report, WYG, April 2016</i>	<i>WYG Phase 1 Preliminary Risk Assessment (101mb)</i>	DOCUMENT PROVIDED FOR INFORMATION APPROVED BY CCSC APPLICATION REFERENCE 2017/0803/DCO <i>This document covers a wider area of site extending beyond Phase 7A</i>
12.1 (b)	(b) a survey of the extent, scale and nature of contamination;	<i>Tidal Lagoon Swansea Bay - Onshore GI - Ground Investigation Interpretive Report (Phase 1), WYG, March 2017</i> <i>Swansea Bay Tidal Lagoon Access Road - Ground Investigation Report, Atkins, September 2015</i>	<i>A095973-2 - Ground Conditions Interpretative Report V1 COMPLETE.pdf (41.6mb)</i> <i>Swansea Bay Tidal Lagoon Access Road GIR_Issue.pdf (26.9mb)</i>	<i>This document covers a wider area of site extending beyond Phase 7A</i> <i>This document covers a wider area of site extending beyond Phase 7A</i>
12.1 (c)	(c) an assessment of the potential risks to— (i) human health; (ii) ground waters and surface waters; (iii) adjoining land; (iv) property (existing or proposed) including buildings, crops, livestock, pets, woodland and service lines and pipes; (v) ecological systems; and (vi) archaeological sites and ancient monuments;	<i>Tidal Lagoon Swansea Bay - Date Review for Phase 7A works, Atkins, May 2020</i>	<i>Tidal Lagoon Swansea Bay Data Review V1.pdf (3.62mb)</i>	<i>This document is specific to the Phase 7A area and summarises information from previous reports in order to provide an assessment of potential risks and recommendations specific to Phase 7A.</i>