

The Keadby Next Generation Power Station Project

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The Keadby Next Generation Power Station Development Consent Order [year]

Environmental Statement (ES)

Volume II – Appendix 13B Land Contamination Methodology Tables

The Planning Act 2008

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

Applicant: Keadby Next Generation Limited

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A collaboration between SSE Thermal and Equinor

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Glossary of Abbreviations and Definitions of Frequently Used Terms

Abbreviation/	Description
ES	Environmental Statement

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13B. Introduction

13B.1. Overview

- 13B.1.1. This Technical Appendix supplements **ES Volume I Chapter 13**: Geology, Hydrogeology and Land Contamination (**Application Document Ref. 6.2**) and describes the additional details for the approach to assessment for land quality for the Proposed Development.
- A qualitative assessment of the risks posed by land contamination within the study area has been undertaken by first assigning a 'baseline risk score' to each identified historical or current area of potential land contamination identified in the baseline review. The baseline risk score is based partly on the relationship between the identified area of potential land contamination and its proximity to the Site (Table 13B.1) together with the proposed cut/ fill of the Proposed Development design at its closest point (Table 13B.3). The baseline risk score also considers the nature of the current and/ or historical land use, as certain land uses typically result in a greater potential for contamination of the ground to have occurred (Table 13B.2). The lower the baseline risk score then the lower the perceived level of risk.

Table 13B.1: Proximity Zone Definition

Zone No.	Definition
Zone 1	All land on or within the footprint of the line and including a 10m margin either side, and including side shoots such as road realignments, spoil borrow or storage areas etc.
Zone 2	All land within 50m of the edge of Zone 1 land.
Zone 3	All land from between 50 and 250m from the edge of Zone 1 land.

Table 13B.2: Potentially Contaminative Land Uses

Class	Generic Description	Typical Land Uses
Class 1	Low risk of potential contamination, or less hazardous chemicals in use.	Farms (ancillary buildings and areas for storing chemicals, fuel etc.) Warehouses

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Class	Generic Description	Typical Land Uses
		Goods yards
		Hospitals
		Builders yards
		Retail and business parks
		Engineering workshops
		Railways/ disused railway lines
		Brick works
		Dry cleaners (retail)
		Sewage works
		Former clay pits and quarries
		Cement/ asphalt works
		Car breakers
	Medium risk of potential	Garage workshops
Class 2	contamination, more hazardous chemicals in possible use	Waste transfer facilities
		Paper works
		Power stations
		Glass works
		Timber treatment works
		Foot and mouth burials
		Metal manufacturing and
		plating
		Depots
		Scrap yards
		Gas and coke works
	High risk of potential contamination, hazardous chemicals likely to be present	Landfills and historic landfills
Class 3		Petrol filling stations
	, , , , , , , , , , , , , , , , , , ,	Oil depots
		Iron and steel works

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Class	Generic Description	Typical Land Uses
		Historical foundries
		Chemical works

Table 13B.3: Baseline Risk Scoring Method

Potentially Contaminative Land Use Class	Proximity to Route	Relationship to Cut/ Fill/ Construction Work	Baseline Risk Score
	Zone 1	Earthworks fill	2
		Earthworks cut/ at grade	3
		Bored excavation	0
	Zone 2	Earthworks fill	1
Class 1 Low Risk		Earthworks cut/ at grade	2
		Bored excavation	0
	Zone 3	Earthworks fill	0
		Earthworks cut/ at grade	1
		Bored excavation	0
	Zone 1	Earthworks fill	3
		Earthworks cut/ at grade	4
		Bored excavation	2
Class 2 Medium Risk	Zone 2	Earthworks fill	2
		Earthworks cut/ at grade	3
		Bored excavation	2
	Zone 3	Earthworks fill	1

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Potentially Contaminative Land Use Class	Proximity to Route	Relationship to Cut/ Fill/ Construction Work	Baseline Risk Score
		Earthworks cut/ at grade	2
		Bored excavation	1
	Zone 1	Earthworks fill	4
		Earthworks cut/ at grade	5
		Bored excavation	3
	Zone 2	Earthworks fill	3
Class 3 High Risk		Earthworks cut/ at grade	4
		Bored excavation	3
	Zone 3	Earthworks fill	2
		Earthworks cut/ at grade	3
		Bored excavation	2

Baseline risk scores from 1 (no/low risk) to 5 (high risk) have been assigned based on professional judgement. The highest risk score (5) is assigned to areas where earthworks cut/at grade is proposed within a potentially high-risk contaminative land use class (Class 3) within the Site boundary (Zone 1) as this is considered to pose the greatest risk to exposure to contaminant sources.