

LINDHURST,  
MANSFIELD

**14. MATRIX OF SIGNIFICANT ENVIRONMENTAL EFFECTS**

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## **14.0 MATRIX OF SIGNIFICANT ENVIRONMENTAL EFFECTS**

### **14.1 Introduction**

14.1.1 The ES for the Project has been prepared to comply with the Town & Country Planning (Environmental Impact Assessment) (Amendment) (England) Regulations 2008 ("2008 Regulations").

14.1.2 An assessment of each topic and the likely significant effects of the Project have been prepared following the methodology set out within Chapter 1 of the ES.

### **14.2 Project Design and Envisaged Measures**

14.2.1 The Project includes measures (both design and operation proposals) to ameliorate any otherwise adverse environmental effects or enhance beneficial effects. The Project Description (Chapter 2) and Design sections of the ES describe the Project.

14.2.2 Table 14.1 overleaf lists each of the assessment topics and identifies any likely significant effects of the Project. The table lists construction effects, the long term effects of the Project.

### **14.3 Effects**

14.3.1 The majority of significant adverse construction effects will be prevented by assessing and mitigating these potential effects. Some construction effects are unavoidable, such as the landscape and visual effects of building construction. However the construction effects identified are transitory and localised in nature.

- 14.3.2 The Project aims to create a sustainable community by making efficient use of land, distributing land uses effectively, promoting low impact modes of travel and achieving very good standards of energy efficiency and resource consumption.
- 14.3.3 The Project will ensure site wide sustainability such as construction management, health and well-being, energy, water minimisation and surface water attenuation, materials, waste, pollution and ecology. The Project will incorporate passive, energy efficiency measures, apply low carbon technologies and ensure integration of on-site renewable energy solutions.
- 14.3.4 The only long term adverse effect would be the local loss of open, agricultural land, which would be a significant effect. However, this adverse effect is outweighed when considered against the range of long term beneficial effects that would result from the Project. These include beneficial effects for Landscape and Visual resources, Ecology and Nature Conservation, Cultural Heritage and Archaeology, Traffic and Transport, Socio-Economics.
- 14.3.5 The long term effects of the Project when assessed in the context cumulatively of other Projects are not predicted to increase the likely significant adverse effects of this Project.
- 14.3.6 Consideration of all of the likely effects of the Project indicates that there would be no significant combined adverse effect. FPCR have reviewed all of the assessment topics and their statement / assessment of effects. In our view the succession of effects does not result in any greater likely significant adverse effects overall, than those listed within table 14.1. Furthermore the range of environmental enhancements would result in significant beneficial effects.

**Table 14.1: LIKELY SIGNIFICANT EFFECTS OF THE PROJECT**

<b>TOPIC (ES Chapter Reference)</b>	<b>CONSTRUCTION EFFECTS</b>	<b>LONG TERM EFFECTS</b>
<b>Socio Economics (3)</b>	SUBSTANTIAL BENEFICIAL	SUBSTANTIAL BENEFICIAL
<b>Landscape Character (5)</b>	MODERATE ADVERSE	SLIGHT ADVERSE
<b>Visual Resources (5)</b>	MODERATE-SUBSTANTIAL ADVERSE	SLIGHT ADVERSE
<b>Ecological Resources (6)</b>	SLIGHT ADVERSE	MODERATE BENEFICIAL
<b>Heritage and Archaeology (07)</b>	MODERATE ADVERSE*	MODERATE ADVERSE*
<b>Agriculture and Soils (08)</b>	MODERATE ADVERSE	MODERATE ADVERSE
<b>Water, Hydrology, Drainage and Flood Risk (09)</b>	MINOR ADVERSE	NEGLIGIBLE
<b>Land Contamination (10)</b>	MODERATE ADVERSE	NEGLIGIBLE
<b>Noise and Vibration (11)</b>	NEGLIGIBLE / SLIGHT ADVERSE	NEGLIGIBLE
<b>Air Quality (11)</b>	MINOR ADVERSE	SLIGHT BENEFICIAL
<b>Transportation (12)</b>	NEGLIGIBLE / SLIGHT ADVERSE	MINOR BENEFICIAL

\* This Assessment will be amended when further surveys are completed.