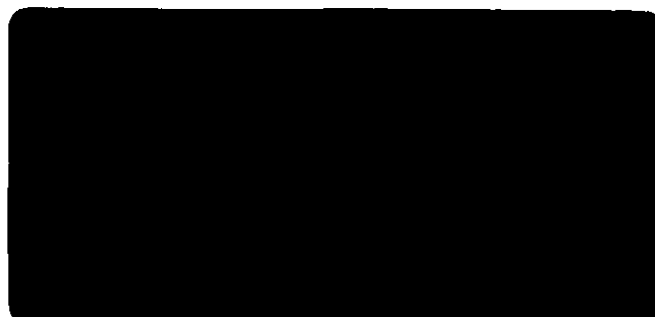


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AGRICULTURAL LAND CLASSIFICATION
PROPOSED GEOTHERMAL PARK
DEVELOPMENT, CLEETHORPES,
HUMBERSIDE
OCTOBER 1992

ADAS
LEEDS STATUTORY GROUP

REF: 109/92
MAFF FILE:-

2 fcs 6186

GEOTHERM.ALC/MP

PROPOSED GEOTHERMAL PARK DEVELOPMENT, CLEETHORPES

SUMMARY

Land covering approximately 41ha was surveyed near Hall Farm, Cleethorpes. 39ha of this is in agricultural production, of which approximately 1.4ha has been classified as Subgrade 3a and 38.2ha as Subgrade 3b.

Subgrade 3a land occurs in a small area in the south western part of the site. It consists of deep medium clay loam topsoils over poorly drained slowly permeable clay subsoils. Slight soil wetness is the main limiting factor on land of this type.

Subgrade 3b land covers most of the site. Topsoils are somewhat thinner and consist of medium or heavy clay loam topsoils over poorly drained slowly permeable clay subsoils. Soil wetness is more restricting than on the Subgrade 3a land and is the main limiting factor.

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MAP

1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON THE
PROPOSED GEOTHERMAL PARK SITE, CLEETHORPES

INTRODUCTION AND SITE CHARACTERISTICS

The site is located around Grid Reference TA 292068, north of Hewitt's Avenue and west of Humberton Road. It covers an area of approximately 41ha virtually all of which is in agricultural use.

Survey work was carried out in October 1992 when soils were examined to a depth of 1m by hand auger borings at 100m intervals predetermined by the National Grid. The land quality was assessed using the methods described in Agricultural Land Classification of England and Wales, Revised guidelines for assessing the quality of agricultural land" (MAFF, 1988).

Climate

Grid Reference:	TA 292068
Altitude (m)	10
Accumulated Temperature above 0°C (January-June)	1396
Average Annual Rainfall (mm)	620
Climatic Grade	1
Field Capacity Days	136
Moisture Deficit (mm) Wheat	112
Moisture Deficit (mm) Potatoes	105

Land Use and Relief

At the time of survey all land was in agricultural use except for a small area of non agricultural woodland in the southern corner of the site. The area is flat to very gently undulating.

Geology and Soils

The site is underlain by Chalk over which there is a considerable thickness of very slightly stony heavy textured boulder clay . Stones although few, vary widely in origin and lithology. Small chalk stones occur only at depth where the clay is unweathered and often calcareous.

Soils consist of medium or heavy clay loam topsoils overlying slowly permeable heavy clay loam or clay subsoils. Profiles are imperfectly or poorly drained and fall within Wetness Classes III or IV. Most are similar to those mapped as the Holderness series by the Soil Survey and Land Resource Centre.