



# Fenland SOIL Committee Farm Level Economic Analysis Project

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To carry out a review of the present alternative measures that farmers and growers can deploy to assist in mitigating carbon emissions and to establish the key areas of future approaches and funding.





# Key areas for consideration

1. Hydrological Isolation
2. Top-Down Irrigation
3. Non-Agricultural Rewetting
4. Depleted Peat issues





Peat Depth

10cm
20cm
30cm
40cm
50cm
60cm
70cm
80cm
90cm
100cm
110cm
120cm
130cm
140cm
150cm



Depleted



Intermediate



Deep

Water Table

10cm
20cm
30cm
40cm
50cm
60cm
70cm
80cm
90cm
100cm
110cm
120cm
130cm
140cm
150cm



Peat Depth

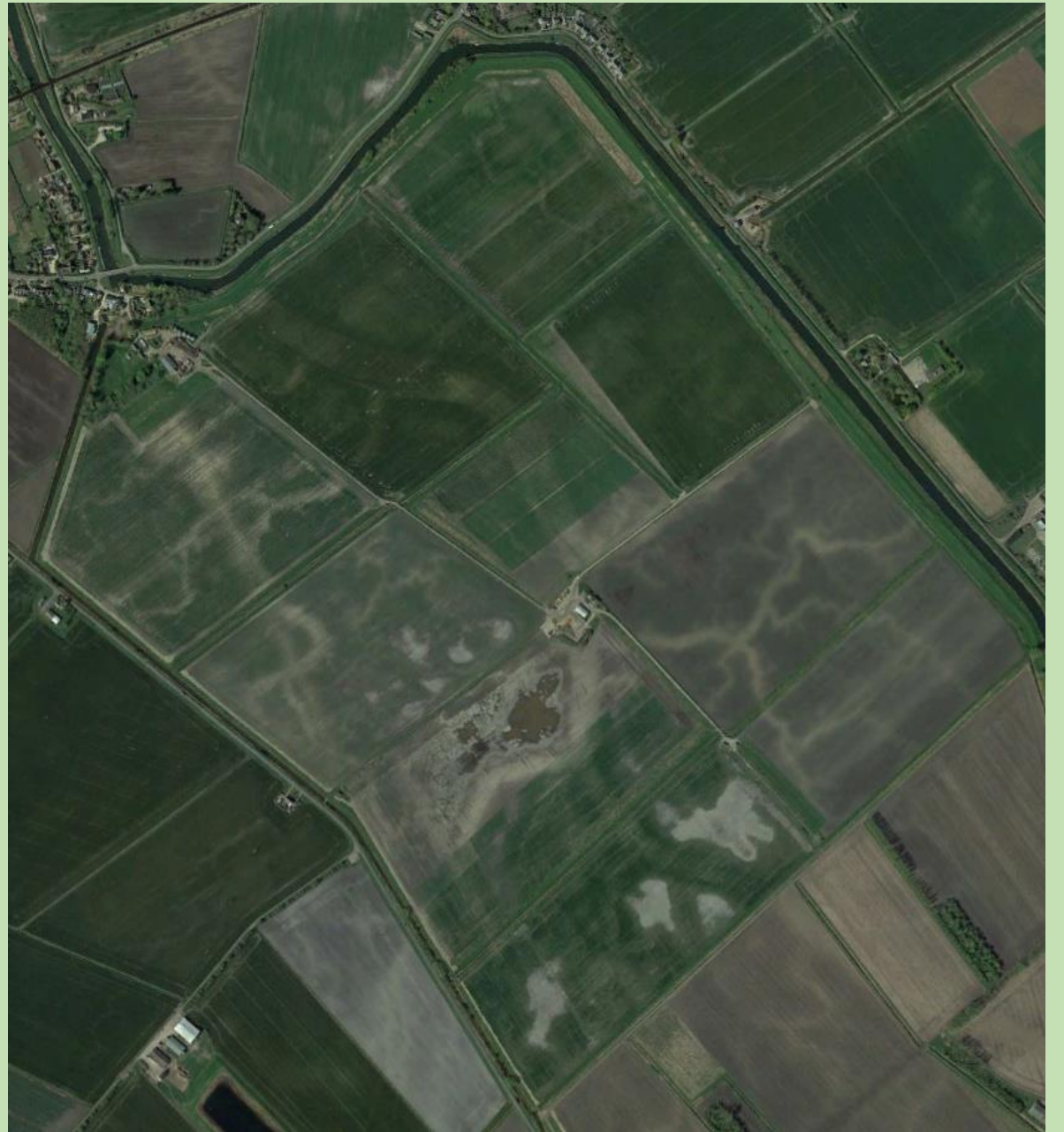
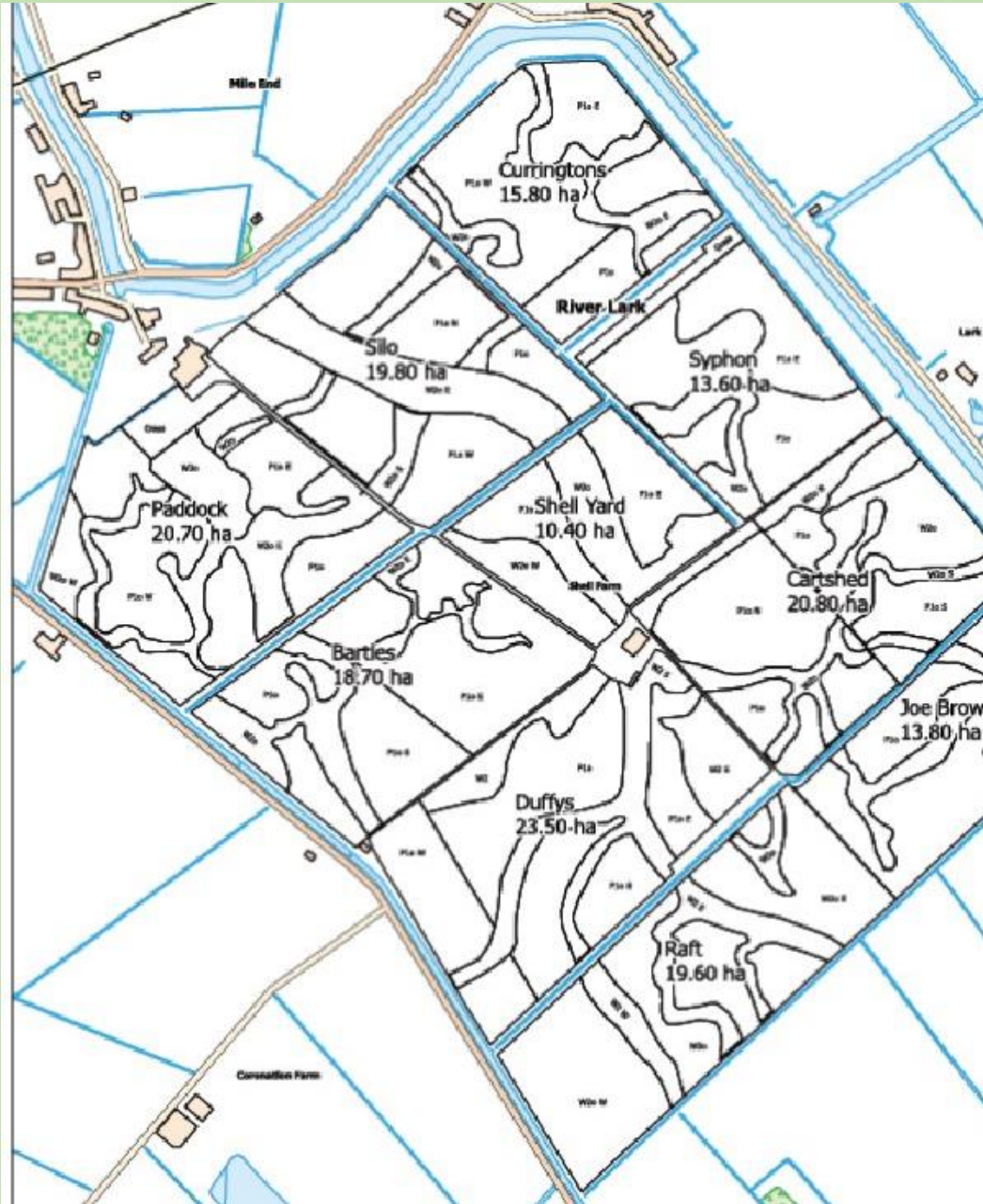
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Water Table

10cm
20cm
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40cm
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70cm
80cm
90cm
100cm
110cm
120cm
130cm
140cm
150cm







# Areas to Overcome:

- Regulation of Drainage Boards and availability of water
- Knowledge and availability of data
- Technical solutions to facilitate cultivation at high water tables
- Opportunities under SFI and Stewardship



# How does this flow through to Policy?

## What is the Main Focus?

- Food production
- Reduce carbon emissions
- Maintain a unique ecosystem

## Farmer's Requirements

- Short term
- Longer term initiatives





# A Theoretical Example

On 10,000 Ha of lowland peat

Peat Depth	% of lowland peat area	Area (Ha)	Carbon Mitigation	Total Carbon Mitigation	Value of Carbon £	Value Paid to Farmers £
Depleted less than 40cm	70	7,000	XT/Ha	X,000T	?	?
Intermediate 40-100cm	20	2,000	XT/Ha	X,000T	?	?
Deep greater than 100cm	10	1,000	XT/Ha	X,000T	?	?

The Dilemma:

- Where should funding be focused – value for public money
- We need more data to accurately determine which mitigation measures produce which outcomes to target funding
- Practical issues surrounding the implementation of mitigation measures
- Hence the requirement for short term initiatives