



**Water Management Alliance
Broads (2006) Internal Drainage Board**

Water Level Management Plans

Brograve Project: Update on Progress

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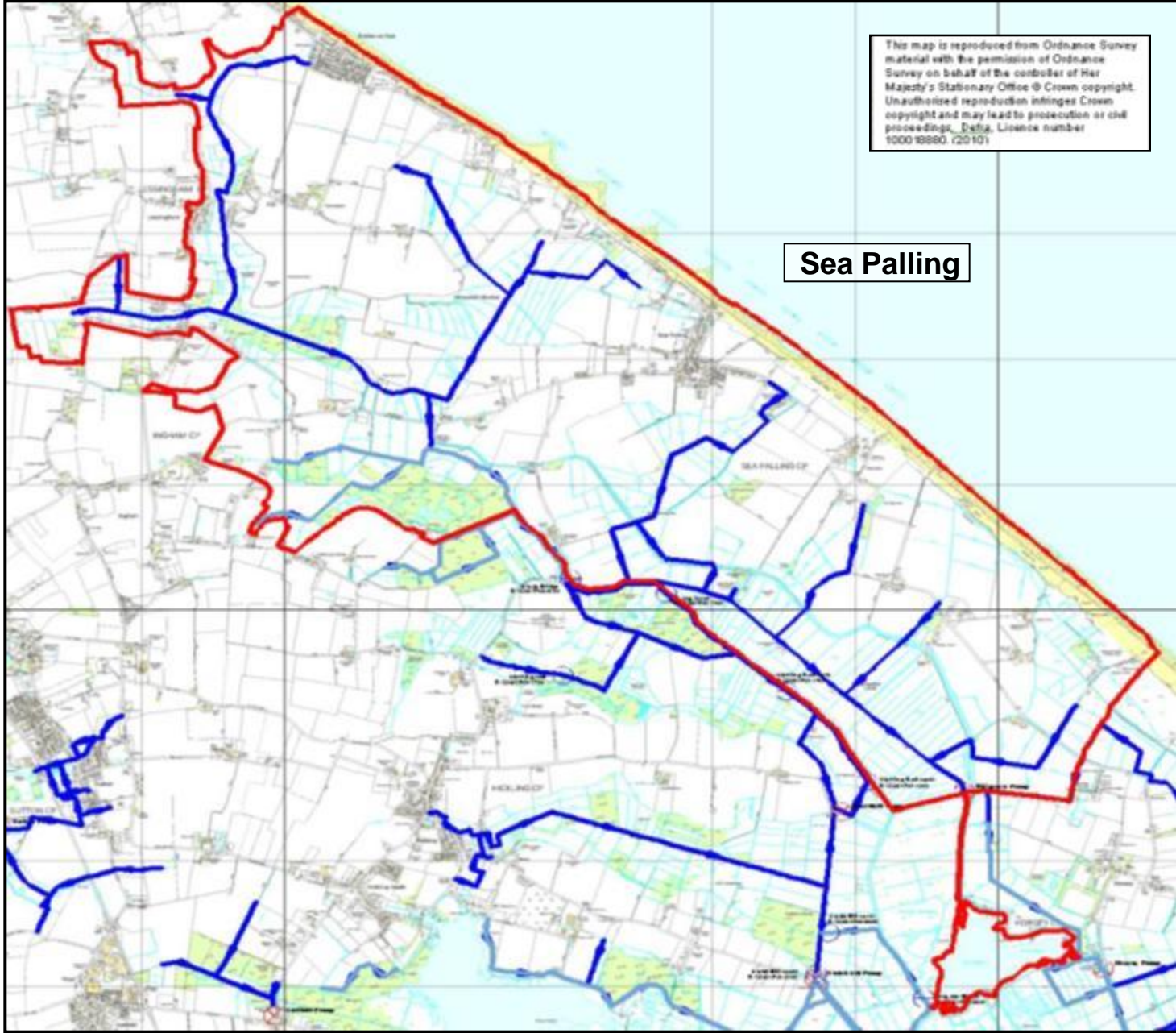
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Date 16 May 2011

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Brograve Project Area



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Sea Palling



Salinity & ochre in the Brograve system

Marietta Pallis
(1911)

Trevor Simpson
(2007)

Rob Driscoll
(1984)

ELP (2002)

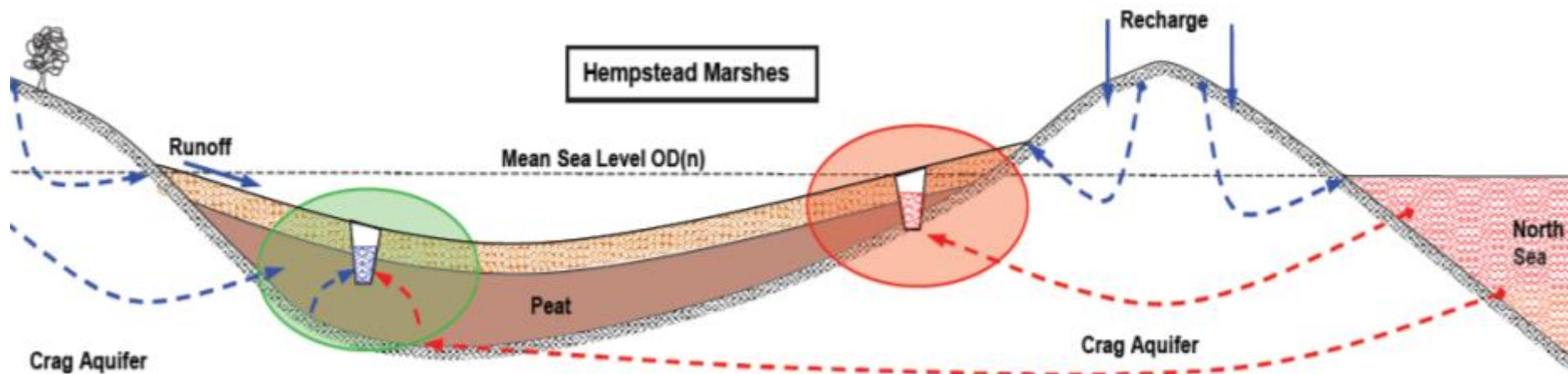
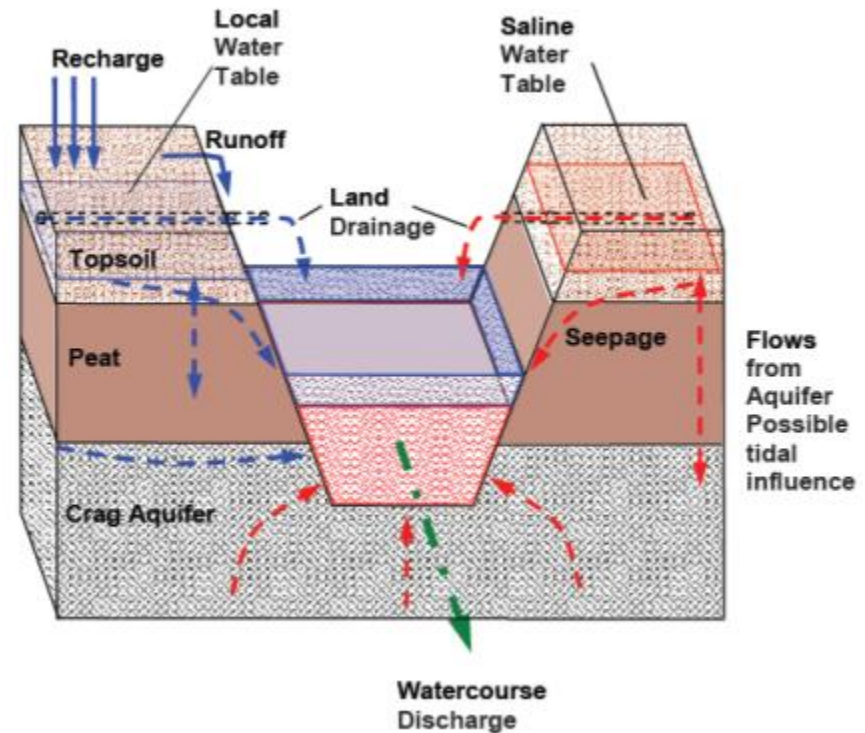
Ian Holman
(1994)

ELP & Cranfield
University
(2005)

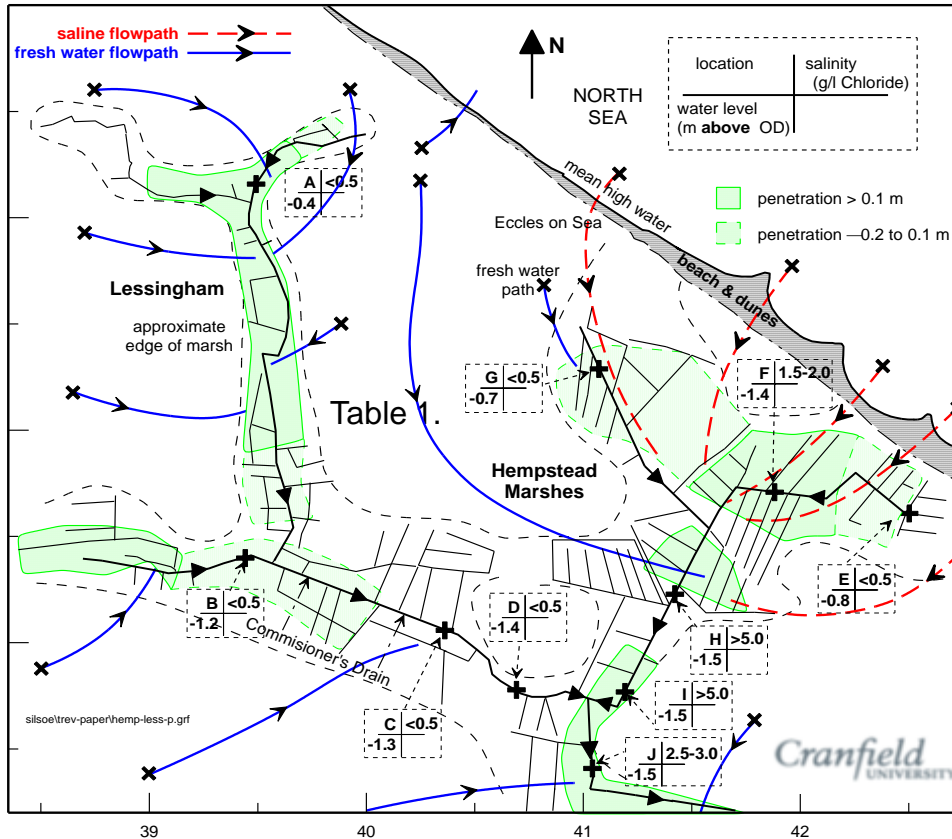
Christine
Heward-Mills
(2008)



Cranfield
UNIVERSITY



Groundwater modelling



Assess feasibility of practical remediation options to **reduce** salinity (and ochre)

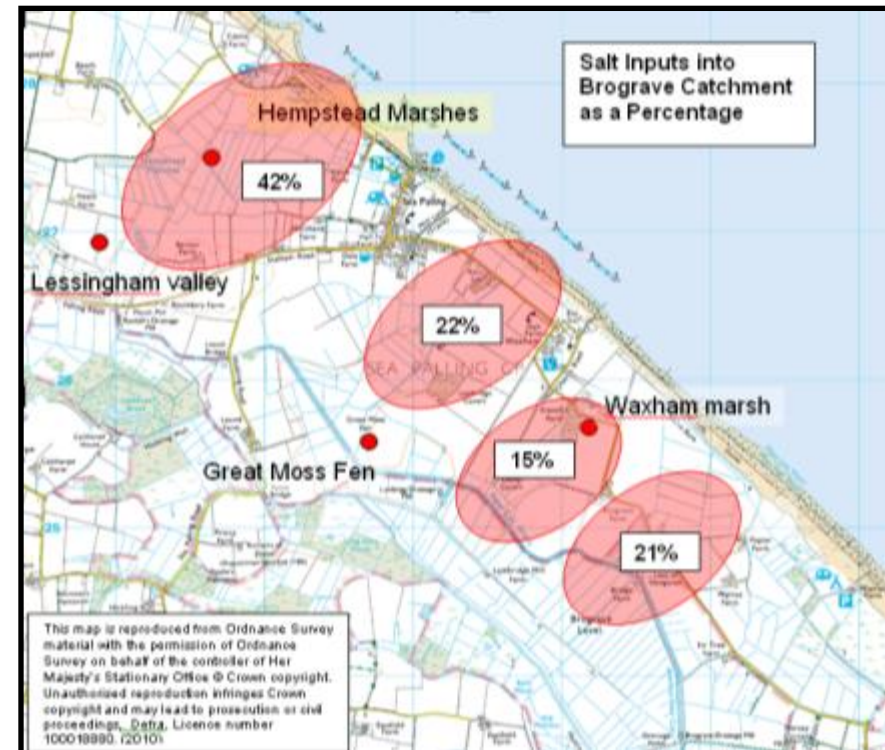
To assess the potential effectiveness of options

To assess the potential for localized solutions

RESULTS

1) Raising water levels in the ditches, though still maintaining them below sea level, reduces the amount of salt entering the Brograve drains by around **15%**

2) In-filling of over-deepened drains and the cutting of new shallower drains, reduces the amount of salt entering the Brograve catchment by around **7%**, **35% in Hempstead Marshes**;





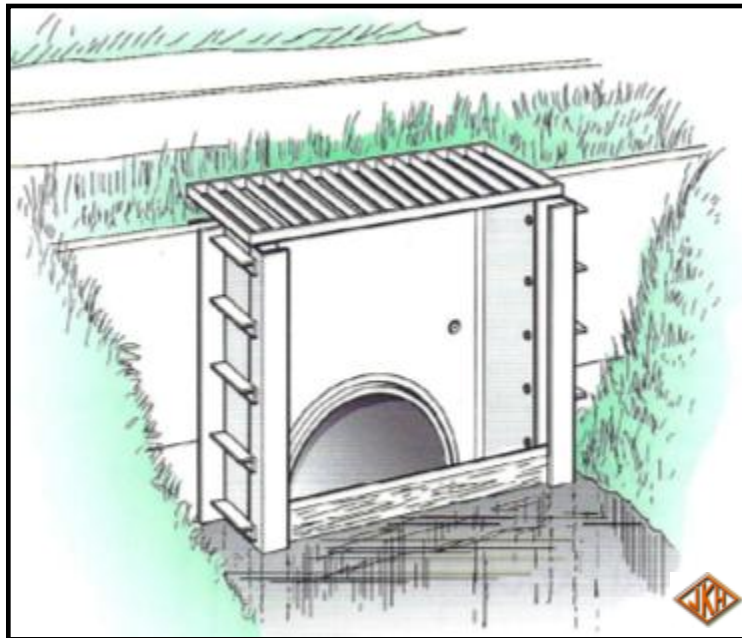
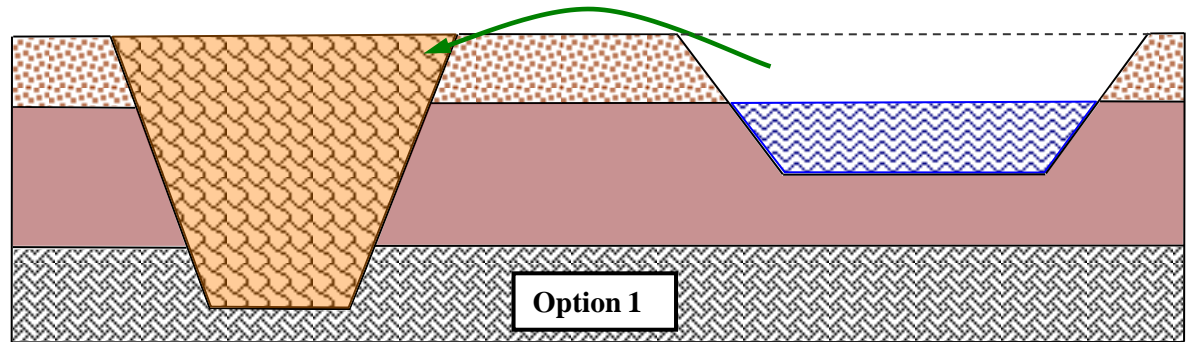
Hempstead Marsh Trials

Phase 1

Install 3 sets of salinity monitoring points and dipping wells. monitoring before/ after effects of phase 2 engineering works.

Phase 2

Trial site 1;
Fill in the deep cut drain and construct new shallower drain



Trial site 2;
Install a water control structure to allow incremental raising of water levels.



Thank you
Questions?