

Summary of Appendix Q which compares the proposed scheme and ‘no channel’ alternatives

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All of the information below comes from the revised [Appendix Q of the environmental statement](#)¹. The appendix considered two alternatives to the proposed channel scheme:

- A1. All components of the scheme (channel, raised defences, culverts etc.)² but no channel at Hinksey Meadow
- A2. All components of the scheme but no channel at all.

This analysis covers Alternative A2. The main point is that **the channel protects 50-160 homes, depending on the flood scenario, at a cost of £24 million (£150,000 - £450,000 per home). This is in addition to huge environmental, transport and recreational impacts. The communities most affected by the scheme – South and North Hinksey – would gain no benefit from it.**

Table 5 shows that the channel (proposed channel scheme minus A2) will cost £24 million, and that the proposed channel scheme has a lower benefit:cost ratio (BCR) than A2.

Table 5: High level Economic Review.

Scenario	1	2a	2b	A2	A1	
Option	Do Nothing (Baseline)	Do Minimum no Temp Defences	Do Minimum Temp Defences for 25 years	No Channel North Hinksey Meadow to Old Abingdon Road	No Channel in North Hinksey Meadow	Proposed Channel Scheme
Benefits (£M)	-	1,288.40	1,303.9	1,501.2	1,528.5	1,536.4
Costs (£M)	-	19.6	19.7	120.7	142.0	144.6
BCR	-	65.7	66.3	12.4	10.8	10.6
iBCR	-	-	545.6	2.0	1.3	3.1
NPV (£M)	-	1,268.7	1,284.2	1,380.5	1,386.5	1,391.8

The proposed scheme would reduce flood risk at a total of 1050 properties. Of this, Table 6 shows that, for a 1-in-50-year flood (2% return period), the channel would protect 51 homes more than A2 (156 – 105). This is a £470,000 cost per home (£24 million / 51 homes). For a 1-in-100 year flood (1% return period), it would protect 157 homes more than A2 (524 – 367), at a cost of £150,000 per home (£24 million / 157 homes).

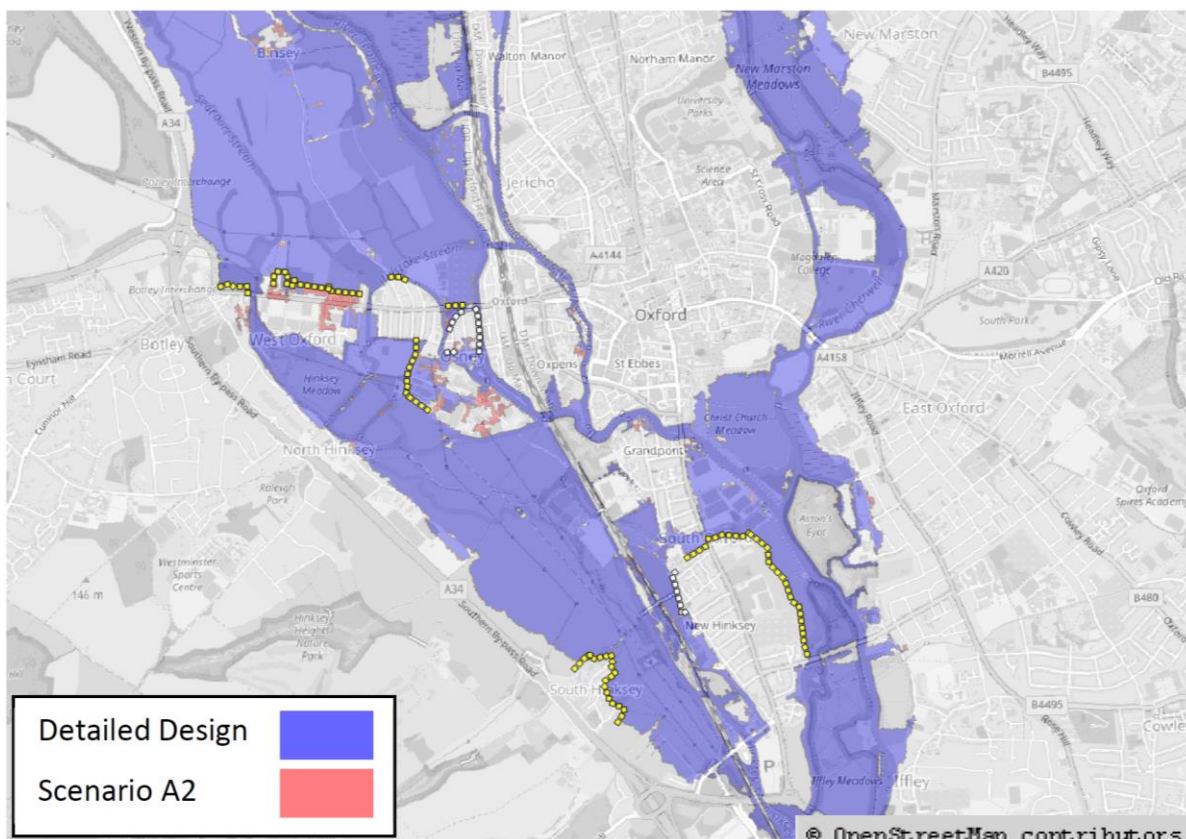
¹ To be able to use the hyperlink, you first need to sign into the planning website: <https://myeplanning.oxfordshire.gov.uk/Planning/Display/MW.0027/22#undefined>. Scroll to the bottom of the page and click ‘accept’.

² These are listed at Sec. 2 of App. Q

Table 6: Residual Flood Risk Property Numbers (Residential)

RESIDENTIAL PROPERTIES		Return Period (x% AEP event)								
		50	20	10	5	2	1.33	1	0.5	0.1
2b	Do Minimum Temp Defences for 25 years	0	77	266	486	862	1,126	1,319	1,896	3,302
	Proposed Channel Scheme	0	1	7	25	105	180	367	1,005	2,742
A1	No Channel in North Hinksey Meadow	0	1	7	30	128	196	438	1,100	2,826
A2	No Channel North Hinksey Meadow to Old Abingdon Road	0	1	37	79	156	234	524	1,193	2,898

This map below shows the extent of flooding that would occur with and without the channel under a 1-in-50-year flood. The raised defences, shown as yellow dots, protect the great majority of homes from flooding³. The properties that would be flooded under a ‘no channel’ scenario are mostly off the Botley Road and on Osney Mead.



³ Appendix Q states that the scheme will protect 1050 homes from a 1-in-100 year flood, but not how many homes it would protect from a 1-in-50 year flood.

This map below shows the extent of flooding that would occur with and without the channel under a 1-in-100-year flood. The additional 106 properties are much more scattered.

