

## ITCHEN, CANDOVER AND TESTWOOD WATER ABSTRACTION INQUIRY

### INQUIRY DOCUMENTS LIST

<b>INQUIRY DOCUMENTS</b>	
<a href="#">INQ1</a>	Note of the Pre Inquiry Meeting held on 21 November 2017
<a href="#">INQ1a</a>	SWS provisional statement of case, submitted at the Pre Inquiry Meeting and appended to the note of the Meeting

<b>DOCUMENTS SUBMITTED DURING THE INQUIRY</b>	
<a href="#">ID1</a>	Draft agreement between Southern Water Services and the Environment Agency, 12 March 2018
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<a href="#">ID7</a>	Little River Management Limited Monitoring Plan Update, 19 March 2018
<a href="#">ID7a</a>	Annex 1 to Little River Management Limited Monitoring Plan Update, 19 March 2018 – Catchment First Overview
<a href="#">ID8</a>	Draft Testwood Licence, 20 March 2018 (For Candover see SC2.1 and for Itchen see SC3.12)
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<a href="#">ID9a</a>	Updated Draft Section 20 Agreement, 27 March 2018
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<a href="#">SC6.1b</a>	Appendix 1b - The River Itchen SSSI List of operations likely to damage the special interest of the SSS
<a href="#">SC6.1c</a>	Appendix 1c - The River Itchen SSSI Views about Management
<a href="#">SC6.1d</a>	Appendix 1d - The River Itchen SSSI Condition Assessment
<a href="#">SC6.2a</a>	Appendix 2a - River Itchen SAC Citation
<a href="#">SC6.2b</a>	Appendix 2b - River Itchen SAC Natura 2000 Standard Data Form
<a href="#">SC6.2c</a>	Appendix 2c - River Itchen SAC JNCC site details
<a href="#">SC6.2d</a>	Appendix 2d - River Itchen SAC European Site Conservation Objectives
<a href="#">SC6.3a</a>	Appendix 3a - The River Test SSSI Citation
<a href="#">SC6.3b</a>	Appendix 3b - The River Test SSSI List of operations likely to damage the special interest of the SSSI
<a href="#">SC6.3c</a>	Appendix 3c - The River Test SSSI Views about Management
<a href="#">SC6.3d</a>	Appendix 3d - The River Test SSSI Condition Assessment
<a href="#">SC6.4</a>	Appendix 4 - Favourable Condition Target agreement, 2014
<a href="#">SC6.5</a>	Appendix 5 - River Itchen Site Improvement Plan
<a href="#">SC6.6a</a>	Appendix 6a - CSM Guidance – rivers - 2005
<a href="#">SC6.6b</a>	Appendix 6b - CSM Guidance – rivers - 2014
<a href="#">SC6.6c</a>	Appendix 6c - CSM Guidance – rivers – 2016
<a href="#">SC6.6d</a>	Appendix 6d - CSM Guidance – freshwater fauna – 2005
<a href="#">SC6.6e</a>	Appendix 6e - CSM Guidance – freshwater fauna - 2015
<a href="#">SC6.7a</a>	Appendix 7a - River Itchen, NE consultation response
<a href="#">SC6.7b</a>	Appendix 7b - Candover, NE consultation response
<a href="#">SC6.7c</a>	Appendix 7c - Testwood, NE consultation response
<b>Fish Legal and Little River Management Limited</b>	
<a href="#">SC7a</a>	Statement of Case of Little River Management Limited (Part 1)
<a href="#">SC7a.1</a>	Appendix to the Statement of Case of Little River Management Limited (Part 1)
<a href="#">SC7b</a>	Statement of Case of Fish Legal (Part 2)
<a href="#">SC7b.1</a>	Fish Legal representation on Itchen s.52 proposal, December 2016
<a href="#">SC7b.2</a>	Fish Legal representation on Testwood s.52 proposal, August 2017
<a href="#">SC7b.3</a>	Letter from Southern Water to the Environment Agency, 19 August 2016
<a href="#">SC7b.4</a>	Letter from the Environment Agency to Southern Water, 22 September 2016
<a href="#">SC7b.5</a>	Email from Southern Water to the Environment Agency, 23 September 2016
<a href="#">SC7b.6</a>	“Testwood-Otterbourne Pipeline Scheme - Notes on Scheme Description, including specifically frequency, duration, and magnitude of use”. SW draft note, October 2016
<a href="#">SC7b.7</a>	Letter from Southern Water to stakeholders regarding Drought Planning, 10 March 2017
<a href="#">SC7b.8</a>	Discussion paper on salmon migration modelling River Test Salmon Working Group, August 2015
<a href="#">SC7b.9</a>	River Test Salmon Migration and River Flows Analysis of Rod Catch and Fish Counter data, John Lawson, June 2015
<a href="#">SC7b.10</a>	Note on the migration probability-flow relationship for River Test salmon, John Lawson, June 2015
<a href="#">SC7b.11</a>	Note on re-calibration of the Pisces salmon migration model, John Lawson, August 2015



<a href="#">SC7b.12</a>	Summary Report of the Salmon Working Group, 30 September 2015
<b>Hampshire &amp; Isle of Wight Wildlife Trust</b>	
<a href="#">SC8</a>	Statement of Case of Hampshire & Isle of Wight Wildlife Trust
<b>Salmon and Trout Conservation UK and WWF</b>	
<a href="#">SC9</a>	Statement of Case of Salmon and Trout Conservation UK and WWF
<a href="#">SC9a</a>	Annex 1 - WWF (2014) The State of England's Chalk Streams
<a href="#">SC9b</a>	Annex 2 - WWF (2009) An assessment of invertebrate-based target flows for the River Itchen, Hampshire Prepared for WWF by Professor Robert Wilby, University of Loughborough, November 2009
<a href="#">SC9c</a>	Annex 3 - WWF (2015) Discussion Paper on Managing Lower Test Abstraction Impacts Report produced for WWF by John Lawson FEng FICE FCIWEM March 2015
<a href="#">SC9d</a>	Annex 4 - WWF (2011) Discussion Paper for WWF's Itchen Initiative - Smarter licensing to reduce damaging abstraction from environmentally fragile rivers with minimum possible impact on water resources yield. River Itchen Case Study Written by Dr Colin Fenn (Independent Consultant), Professor Rob Wilby (University of Loughborough) February 2011
<b>Test and Itchen Association</b>	
<a href="#">SC10</a>	Statement of Case of the Test and Itchen Association
<a href="#">SC10a</a>	Comment on Testwood Abstraction Licence, 7 November 2016
<a href="#">SC10b</a>	Comment on Candover Augmentation Abstraction Licence, 22 November 2016
<a href="#">SC10c</a>	Comment on Otterbourne and Twyford Abstraction Licences, 13 December 2016
<b>Upper Itchen Initiative</b>	
<a href="#">SC11</a>	Statement of Case of the Upper Itchen Initiative
<a href="#">SC11a</a>	Portsmouth Water, draft 2014WRMP
<a href="#">SC11b</a>	Candover Pilot Scheme, Final Report
<b>Barker-Mill Family Trust</b>	
<a href="#">SC12</a>	Statement of Case of the Barker-Mill Family Trust
<b>The Baring Family</b>	
<a href="#">SC13</a>	Statement of Case of the Baring Family

<b>WRITTEN STATEMENTS</b>	
<a href="#">WS1</a>	Written statement by CPRE Hampshire
<a href="#">WS2</a>	Written statement by Roger Harrison

<b>STATEMENTS OF COMMON GROUND</b>	
<a href="#">SOCG1</a>	Statement of Common Ground between the Environment Agency and Southern Water Services on the Legal Framework
<a href="#">SOCG2</a>	Statement of Common Ground between the Environment Agency and Southern Water Services on Modelling
<a href="#">SOCG2a</a>	Appendix A to the Statement of Common Ground between the Environment Agency and Southern Water Services on Modelling
<a href="#">SOCG2b</a>	Appendix B to the Statement of Common Ground between the Environment Agency and Southern Water Services on Modelling
<a href="#">SOCG2c</a>	Appendix C to the Statement of Common Ground between the Environment Agency and Southern Water Services on Modelling
<a href="#">SOCG2d</a>	Appendix D to the Statement of Common Ground between the Environment Agency and Southern Water Services on Modelling

<b>PROOFS OF EVIDENCE</b>	
<b>The Environment Agency</b>	
<a href="#">EA1</a>	<b>Proof of Evidence of Adrian Fewings (Testwood)</b>
EA1a	Appendix 1 to Proof of Evidence - Environment Agency Licence Change Proposal Report (7.1) (see SC4.17a-SC4.17s)
<a href="#">EA1b</a>	Appendix 2 to Proof of Evidence - Griffiths, et al – Genetic stock identification of Atlantic salmon ( <i>Salmo Salar</i> ) populations in the southern part of the European range – 2010 (7.2)
<a href="#">EA1c</a>	Appendix 3 to Proof of Evidence - Ikediashi, C. et al – Atlantic salmon <i>Salmo salar</i> in the chalk streams of England are genetically unique – January 2018 (7.3)
<a href="#">EA1d</a>	Appendix 4 to Proof of Evidence - Cefas, Environment Agency and Natural Resources Wales – Assessment of Salmon stocks and Fisheries in England and Wales – 2017 (7.4)
<a href="#">EA1e</a>	Appendix 5 to Proof of Evidence - Cefas, Environment Agency and Natural Resources Wales – Salmon stocks and fisheries in England and Wales 2016 (7.5)
<a href="#">EA1f</a>	Appendix 6 to Proof of Evidence - Solomon, D.J. & Sambrook, H.T. – Effects of hot dry summers on the loss of Atlantic salmon, <i>Salmo salar</i> , from estuaries in South West England – 2004 (7.6)
<a href="#">EA1g</a>	Appendix 7 to Proof of Evidence - Solomon, D.J. and Lightfoot, G.W – The thermal biology of brown trout and Atlantic salmon – 2008 (7.7)
<a href="#">EA1h</a>	Appendix 8 to Proof of Evidence - King, H.R. et al – Reproductive sensitivity to elevated water temperatures in female Atlantic salmon is heightened at certain stages of vitellogenesis – 2007 (7.8)
<a href="#">EA1i</a>	Appendix 9 to Proof of Evidence - Solomon, D.J. et al – Salmon migration and river flow – 1999 (7.9)
<a href="#">EA/R1</a>	<b>Rebuttal Proof of Evidence of Adrian Fewings (Testwood)</b>
<a href="#">EA/R1a</a>	Appendix to Rebuttal Proof of Evidence - Rapid statistical assessment of Southern Water's assessment of river flow effects on salmon migration in the Lower River Test by Stuart Homann (22 February 2018)
<a href="#">EA2</a>	<b>Proof of Evidence of Alison Matthews (Testwood)</b>
EA2a	Appendix 1 to Proof of Evidence - Environment Agency – Licence Change Proposal Report (5.1) (see SC4.17a-SC4.17s)
EA2b	Appendix 2 to Proof of Evidence - Environment Agency – proposed draft licence (5.2) (see <a href="#">SC4.17r</a> )
<a href="#">EA2c</a>	Appendix 3 to Proof of Evidence - South East River Basin Management Plan 2015 (5.3)
<a href="#">EA2d</a>	Appendix 4 to Proof of Evidence - Environment Agency – Environmental Flow Indicator, Application of the EFI for Water Companies licensing – January 2018 (5.4)
<a href="#">EA2d.1</a>	Appendix 4a to Proof of Evidence - Environment Agency – Environmental Flow Indicator, Application of the EFI for Water Companies licensing cover email – January 2018 (5.4a)
<a href="#">EA2e</a>	Appendix 5 to Proof of Evidence - Defra's water abstraction plan – December 2017 (5.5)
EA2f	Appendix 6 to Proof of Evidence - DG100 – Lower Test NEP Volume 1 Report (5.6) (see SC4.17e1 - SC4.17e3)
<a href="#">EA2g</a>	Appendix 7 to Proof of Evidence - Water industry strategic environmental requirements (WISER) (5.7)
<a href="#">EA2h</a>	Appendix 8 to Proof of Evidence - Salmon five point approach – restoring salmon in England (5.8)
<a href="#">EA2i</a>	Appendix 9 to Proof of Evidence - JNCC – Common Standards Monitoring Guidance – 2016 (5.9)
<a href="#">EA/R2</a>	<b>Rebuttal Proof of Evidence of Alison Matthews (Testwood and Candover)</b>

<a href="#">EA/R2a</a>	Appendix 1 to Rebuttal Proof of Evidence
<a href="#">EA/R2b</a>	Appendix 2 to Rebuttal Proof of Evidence
<a href="#">EA/R2c</a>	Appendix 3 to Rebuttal Proof of Evidence
<a href="#">EA/R2d</a>	Appendix 4 to Rebuttal Proof of Evidence
<a href="#">EA3.1</a>	<b>Proof of Evidence of Alison Matthews – part 1 (Candover)</b>
<a href="#">EA3.2</a>	<b>Proof of Evidence of Alison Matthews – part 2 (Candover)</b>
EA3a	Appendix 1 to Proof of Evidence - Environment Agency – RoC Site Action Plan (9.1) (see <a href="#">SC2.5</a> )
EA3b	Appendix 2 to Proof of Evidence - Environment Agency – Part 1 Hydrological Impact Analysis 2016 (9.2) (see <a href="#">SC2.16</a> )
EA3c	Appendix 3 to Proof of Evidence - Environment Agency – Final Report 2016 (9.3) (see <a href="#">SC2.18</a> )
<a href="#">EA3d</a>	Appendix 4 to Proof of Evidence - Environment Agency – Approach to Groundwater Protection – November 2017 (9.4)
EA3e	Appendix 5 to Proof of Evidence - Environment Agency - Determination report (9.5) (see <a href="#">SC2.2</a> )
EA3f	Appendix 6 to Proof of Evidence - Current abstraction licence for Candover (9.6) (see <a href="#">SC2.8</a> )
<a href="#">EA3g</a>	Appendix 7 to Proof of Evidence - Amec Technical note prepared on behalf of Southern Water – Evidence on the Chalk groundwater level drawdown risk to the flood plain wetlands around the lower Candover associated with proposed Candover Augmentation Scheme drought options - January 2018 (9.7)
<a href="#">EA4.1</a>	<b>Proof of Evidence of Dominic Longley – part 1 (Testwood)</b>
<a href="#">EA4.2</a>	<b>Proof of Evidence of Dominic Longley – part 2 (Testwood)</b>
EA4a	Appendix 1 to Proof of Evidence - Longley, D. – The fish community of the lower River Test – 11 April 2017 (6.1) ( see <a href="#">SC4.17j</a> )
<a href="#">EA4b</a>	Appendix 2 to Proof of Evidence - The fish community of the lower River Test, revised (6.2)
<a href="#">EA4c</a>	Appendix 3 to Proof of Evidence - Summaries of WFD fish classifications (6.3)
<a href="#">EA4d</a>	Appendix 4 to Proof of Evidence - WFD Fish Objectives (6.4)
<a href="#">EA4e</a>	Appendix 5 to Proof of Evidence - Lower Test waterbody maps (6.5)
<a href="#">EA4f</a>	Appendix 6 to Proof of Evidence - Map of Lower Test key features (6.6)
<a href="#">EA4g</a>	Appendix 7 to Proof of Evidence - Cefas, Environment Agency and Natural Resources Wales – Salmon stocks and fisheries in England and Wales 2016 (6.7)
<a href="#">EA4h</a>	Appendix 8 to Proof of Evidence - Environment Agency – Managing salmon stocks in England and Wales (6.8)
<a href="#">EA4i</a>	Appendix 9 to Proof of Evidence - Ikediashi, C. et al – Atlantic salmon <i>Salmo salar</i> in the chalk streams of England are genetically unique – January 2018 (6.9)
<a href="#">EA4j</a>	Appendix 10 to Proof of Evidence - Environment Agency – Solent and South Downs: Fish Monitoring Report 2016 (6.10)
<a href="#">EA4k</a>	Appendix 11 to Proof of Evidence - Parrish, D.L. et al Why aren't there more Atlantic salmon ( <i>Salmo salar</i> )? – 1998 (6.11)
<a href="#">EA4l</a>	Appendix 12 to Proof of Evidence - Russell, I.C. et al – The use of coded-wire microtags to assess prey selectivity and foraging behaviour in great cormorants – 2003 (6.12)
<a href="#">EA4m</a>	Appendix 13 to Proof of Evidence - Goodwin, et al – A small number of anadromous females drive reproduction in a brown trout ( <i>Salmo trutta</i> ) population in and English chalk stream – 2016 (6.13)
<a href="#">EA4n</a>	Appendix 14 to Proof of Evidence - Henderson, P et al – Evidence for a population collapse of European eel ( <i>Anguilla anguilla</i> ) in the Bristol Channel – 2012 (6.14)

<a href="#">EA4o</a>	Appendix 15 to Proof of Evidence - Russell, et al – The influence of the freshwater environment and the biological characteristics of Atlantic salmon smolts on their subsequent marine survival – 2012 (6.15)
<a href="#">EA4p</a>	Appendix 16 to Proof of Evidence - Parry, E.S. et al – The effects of flow on Atlantic salmon red distribution in a UK chalk stream between 1980 and 2015 (6.16)
<a href="#">EA/R4</a>	<b>Rebuttal Proof of Evidence of Dominic Longley (Testwood)</b>
<a href="#">EA/R4a</a>	Appendix 1 to Rebuttal Proof of Evidence
<a href="#">EA/R4b</a>	Appendix 2 to Rebuttal Proof of Evidence
<a href="#">EA/R4c</a>	Appendix 3 to Rebuttal Proof of Evidence
<a href="#">EA/R4d</a>	Appendix 4 to Rebuttal Proof of Evidence
<a href="#">EA/R4e</a>	Appendix 5 to Rebuttal Proof of Evidence
<a href="#">EA/R4f</a>	Appendix 6 to Rebuttal Proof of Evidence
<a href="#">EA/R4g</a>	Appendix 7 to Rebuttal Proof of Evidence
<a href="#">EA/R4h</a>	Appendix 8 to Rebuttal Proof of Evidence
<a href="#">EA/R4i</a>	Appendix 9 to Rebuttal Proof of Evidence
<a href="#">EA/R4j</a>	Appendix 10 to Rebuttal Proof of Evidence
<a href="#">EA/R4k</a>	Appendix 11 to Rebuttal Proof of Evidence
<a href="#">EA/R4l</a>	Appendix 12 to Rebuttal Proof of Evidence
<a href="#">EA/R4m</a>	Appendix 13 to Rebuttal Proof of Evidence
<a href="#">EA/R4n</a>	Appendix 14 to Rebuttal Proof of Evidence
<a href="#">EA/R4o</a>	Appendix 15 to Rebuttal Proof of Evidence
<a href="#">EA/R4p</a>	Appendix 16 to Rebuttal Proof of Evidence
<a href="#">EA/R4q</a>	Appendix 17 to Rebuttal Proof of Evidence
<a href="#">EA/R4r</a>	Appendix 18 to Rebuttal Proof of Evidence
<a href="#">EA/R4s</a>	Appendix 19 to Rebuttal Proof of Evidence
<a href="#">EA/R4t</a>	Appendix 20 to Rebuttal Proof of Evidence
<a href="#">EA/R4u</a>	Appendix 21 to Rebuttal Proof of Evidence
<a href="#">EA5</a>	<b>Proof of Evidence of Benjamin Rushbrook (Candover)</b>
<a href="#">EA5a</a>	Appendix 1 to Proof of Evidence - Rushbrook et al – Investigating the potential ecological implications of the Upper Itchen flow augmentation schemes: a specific focus on the resident white-clawed crayfish population – August 2012 (8.1)
<a href="#">EA5b</a>	Appendix 2 to Proof of Evidence - Holdich et al – The indigenous status of <i>Austropotamobius pallipes</i> (Lereboullet) in Britain – 2009 (8.2)
<a href="#">EA5c</a>	Appendix 3 to Proof of Evidence - Sibley, P.J. – Conservation management and legislation the UK experience – 2003 (8.3)
<a href="#">EA5d</a>	Appendix 4 to Proof of Evidence - Hodich, D.M. & Sibley, P.J. – ICS and NICS in Britain in the 2000s – 2009 (8.4)
<a href="#">EA5e</a>	Appendix 5 to Proof of Evidence - Füreder, et al – <i>Austropotamobius pallipes</i> , White-clawed crayfish – 2010 (8.5)
<a href="#">EA5f</a>	Appendix 6 to Proof of Evidence - Rogers, D & Watson, E – Distribution database for crayfish in England and Wales (8.6)
<a href="#">EA5g</a>	Appendix 7 to Proof of Evidence - Hutchings, A – Monitoring <i>Austropotamobius pallipes</i> (Lereboullet) in a chalk stream in southern England – 2009 (8.7)
<a href="#">EA5h</a>	Appendix 8 to Proof of Evidence - Holdich, D.M. – Ecology of the White-clawed crayfish – 2003 (8.8)
EA5i	Appendix 9 to Proof of Evidence - Environment Agency – Part 2 Assessment of Ecological Risks 2016 (8.9) (see <a href="#">SC2.17</a> )
<a href="#">EA5j</a>	Appendix 10 to Proof of Evidence - Hutchings, A – Native Crayfish Project – East Hampshire Rivers Survey and the 1997 interim report on the project – February 1998 (8.10)

<a href="#">EA5k</a>	Appendix 11 to Proof of Evidence - Rushbrook, B – Crayfish Survey Report – 2009 (8.11)
<a href="#">EA5l</a>	Appendix 12 to Proof of Evidence - Browne, C – Interim report to the Environment Agency – November 2010 (8.12)
<a href="#">EA5m</a>	Appendix 13 to Proof of Evidence - Environment Agency – Audit of priority species of rivers and wetlands – White-clawed crayfish in South Hampshire and Isle of Wight – January 1998 (8.13)
<a href="#">EA5n</a>	Appendix 14 to Proof of Evidence - Holdich, D.M. et al – The North American signal crayfish, with particular reference to its success as an invasive species in Britain – 2014 (8.14)
EA5o	Appendix 15 to Proof of Evidence - Environment Agency – Part 1 Hydrological Impact Analysis – 2016 (8.15) (see <a href="#">SC2.16</a> )
<a href="#">EA5p</a>	Appendix 16 to Proof of Evidence - Barbaresi, S & Gherardi, F – Daily activity of the white-clawed crayfish, <i>Austropotamobius pallipes</i> (Lereboullet): a comparison between field and laboratory studies – 2001 (8.16)
<a href="#">EA5q</a>	Appendix 17 to Proof of Evidence - Gherardi, F – Biology of freshwater crayfish - Behaviour pp. 258 – 290, 2002 (8.17)
<a href="#">EA5r</a>	Appendix 18 to Proof of Evidence - Pearson, E.C – Spatial patterns of habitat use by white-clawed crayfish on the River Wansbeck – 2011 (8.18)
<a href="#">EA5s</a>	Appendix 19 to Proof of Evidence - Lucas, et al – Morpeth Flood Alleviation Scheme – Impacts on white-clawed crayfish (8.19)
<a href="#">EA5t</a>	Appendix 20 to Proof of Evidence - Brickland, J.H and Baron, P.E. – Winterburn Reservoir compensation flow reduction trials impact on white-clawed crayfish 2009 (8.20)
<a href="#">EA5u</a>	Appendix 21 to Proof of Evidence - Clavero, M et al – Microhabitat use by foraging white-clawed crayfish in stream pools in the NE Iberian peninsula – 2008 (8.21)
<a href="#">EA5v</a>	Appendix 22 to Proof of Evidence - Demer, A et al – Habitat preference of different size classes of <i>Austropotamobius Pallipes</i> in an Irish river – 2003 (8.22)
<a href="#">EA5w</a>	Appendix 23 to Proof of Evidence - Buenvento, C et al – Microhabitat use by the white-clawed crayfish in a Tuscan stream – 2008 (8.23)
<a href="#">EA5x</a>	Appendix 24 to Proof of Evidence - Reynolds, J.D. – Biology of freshwater crayfish – Growth and reproduction pp152 – 191 – 2002 (8.24)
<a href="#">EA5y</a>	Appendix 25 to Proof of Evidence - Nyström, P – Biology of freshwater crayfish – Ecology pp. 192 – 235 – 2002 (8.25)
<a href="#">EA5z</a>	Appendix 26 to Proof of Evidence - Hutchings, A – A review of potential impacts of the Candover Stream Augmentation Scheme on the native crayfish population at Fobdown Farm near Alresford, Hampshire – October 2004 (8.26)
EA5aa	Appendix 27 to Proof of Evidence - Environment Agency – Appropriate Assessment 2016 (8.27) (see <a href="#">SC2.19</a> )
EA5bb	Appendix 28 to Proof of Evidence - Environment Agency – Final Report 2016 (8.28) (see <a href="#">SC2.18</a> )
<a href="#">EA5cc</a>	Appendix 29 to Proof of Evidence - Amec Technical note prepared on behalf of Southern Water – Evidence on the Chalk groundwater level drawdown risk to the flood plain wetlands around the lower Candover associated with proposed Candover Augmentation Scheme drought options - January 2018 (8.29)
<a href="#">EA/R5</a>	<b>Rebuttal Proof of Evidence of Benjamin Rushbrook (Candover)</b>
<a href="#">EA6</a>	<b>Proof of Evidence of Lisa Winfield</b>
<a href="#">EA6a</a>	Appendix 1 to Proof of Evidence - Environment Agency – Drought response: our framework for England – June 2015 (1.1)
<a href="#">EA6b</a>	Appendix 2 to Proof of Evidence - Environment Agency - Water Resources Planning Guideline: Interim update – April 2017 (1.2)
<a href="#">EA6c</a>	Appendix 3 to Proof of Evidence - Environment Agency – Exceptional shortage of rain (1.3)



<a href="#">EA6d</a>	Appendix 4 to Proof of Evidence - Environment Agency – Drought permit and order application ready – November 2016 (1.4)
<a href="#">EA6e</a>	Appendix 5 to Proof of Evidence - Environment Agency – Environmental assessment in Water Company Drought Plans – September 2017 (1.5)
<a href="#">EA6f</a>	Appendix 6 to Proof of Evidence - Environment Agency - Example control curves (1.6)
<a href="#">EA6g</a>	Appendix 7 to Proof of Evidence - Environment Agency – Drought Contingency Planning Guideline - June 1999 (1.7)
<a href="#">EA6h</a>	Appendix 8 to Proof of Evidence - Sutton and East Surrey Water Plc Drought Order DO/06/02 – 29 March 2006 (1.8)
<a href="#">EA6i</a>	Appendix 9 to Proof of Evidence - Defra's 2011 guidance – How to write and publish a drought plan (1.9)
<a href="#">EA6j</a>	Appendix 10 to Proof of Evidence - Drought Orders in England 1989 – 2017 (1.10)
<a href="#">EA6k</a>	Appendix 11 to Proof of Evidence - Drought permit - Bawl water reservoir - 16 January 2018 (1.11)
<a href="#">EA6l</a>	Appendix 12 to Proof of Evidence - Drought permit - Bawl water reservoir - 16 January 2018 (1.12)
<a href="#">EA6m</a>	Appendix 13 to Proof of Evidence - UK WIR - Code of practice and guidance for water companies on water use restrictions – 2013 Report ref: 14/WR/33/6 (1.13)
<a href="#">EA6n</a>	Appendix 14 to Proof of Evidence - CIS guidance – Common implementation strategy for the WFD Guidance document No 20 on exemptions to the environmental objectives (1.14)
<a href="#">EA6o</a>	Appendix 15 to Proof of Evidence - South East River Basin Management Plan 2015 – 2021 – December 2015 (1.15)
<a href="#">EA/R6</a>	<b>Rebuttal Proof of Evidence of Lisa Winfield</b>
<a href="#">EA7</a>	<b>Proof of Evidence of Mike O'Neill</b>
<a href="#">EA7a</a>	Appendix 1 to Proof of Evidence - Environment Agency – Extract from investigation manual – 11 December 2017 (2.1)
<a href="#">EA7b</a>	Appendix 2 to Proof of Evidence - Home Office – Code of practice – Powers of Entry – December 2014 (2.2)
<a href="#">EA7c</a>	Appendix 3 to Proof of Evidence - Environment Agency – specimen of a warrant counterpart (2.3)
EA7d	Appendix 4 to Proof of Evidence - Environment Agency – Great Test salmon migration data analysis (2.4) (see <a href="#">SC4.17m</a> )
EA7e	Appendix 5 to Proof of Evidence - Itchen SAC Review of consents (2.5) (see <a href="#">SC3.3</a> )
<a href="#">EA7f</a>	Appendix 6 to Proof of Evidence - Southern Water - 2009 WRMP (section 10.3.10) (2.6)
EA7g	Appendix 7 to Proof of Evidence - Southern Water 2014 WRMP (2.7) (see <a href="#">SC3.5</a> )
<a href="#">EA7h</a>	Appendix 8 to Proof of Evidence - Letter from Defra to Southern Water – 26 March 2014 (2.8)
EA7i	Appendix 9 to Proof of Evidence - Itchen abstraction licences (2.9) (see <a href="#">SC2.1</a> )
EA7j	Appendix 10 to Proof of Evidence - Letter from Defra to Southern Water – 11 August 2016 (2.10) (see <a href="#">SC2.7</a> )
EA7k	Appendix 11 to Proof of Evidence - Letter from Defra to Southern Water – 26 March 2014 (2.11 duplicate of EA7h)
<a href="#">EA/R7</a>	<b>Rebuttal Proof of Evidence of Mike O'Neill</b>
<a href="#">EA/R7a</a>	Appendix 1 to Rebuttal Proof of Evidence
<a href="#">EA/R7b</a>	Appendix 2 to Rebuttal Proof of Evidence
<a href="#">EA/R7c</a>	Appendix 3 to Rebuttal Proof of Evidence
<a href="#">EA/R7d</a>	Appendix 4 to Rebuttal Proof of Evidence

<a href="#">EA/R7e</a>	Appendix 5 to Rebuttal Proof of Evidence
<a href="#">EA8</a>	<b>Proof of Evidence of Tim Sykes (Testwood)</b>
EA8a	Appendix 1 to Proof of Evidence - Environment Agency's – Testwood Licence Change Proposal Report (4.1) (see <a href="#">SC4.17a-SC4.17s</a> )
<a href="#">EA8b</a>	Appendix 2 to Proof of Evidence - Franklin, P, Dunbar, M., & Whitehead, P – Flow controls on lowland river macrophytes: A review – 2008 (4.2)
<a href="#">EA8c</a>	Appendix 3 to Proof of Evidence - Water UK - Blueprint for PR19 (4.3)
<a href="#">EA8d</a>	Appendix 4 to Proof of Evidence - Defra Strategic Policy Statement (4.4)
<a href="#">EA8e</a>	Appendix 5 to Proof of Evidence - Ofwat – Resilience in the Round – September 2017 (4.5)
<a href="#">EA8f</a>	Appendix 6 to Proof of Evidence - Water UK – Long Term Planning Framework – 2016 (4.6)
<a href="#">EA8g</a>	Appendix 7 to Proof of Evidence - Southern Water – Water Futures in the South East – Towards 2050 (4.7)
<a href="#">EA8h</a>	Appendix 8 to Proof of Evidence - Environment Agency - Position statement on implementing hydro-morphological measures – September 2015 (4.8)
<a href="#">EA8i</a>	Appendix 9 to Proof of Evidence - Letter – Environment Agency response to Drought Plan SEA Scoping consultation – 16 December 2016 (4.9)
EA8j	Appendix 10 to Proof of Evidence - Letter from Environment Agency to Southern Water – 10 August 2016 (4.10) (see <a href="#">SC4.6</a> )
<a href="#">EA9.1</a>	<b>Proof of Evidence of Tim Sykes – part 1 (Candover)</b>
<a href="#">EA9.2</a>	<b>Proof of Evidence of Tim Sykes – part 2 (Candover)</b>
<a href="#">EA9.3</a>	<b>Proof of Evidence of Tim Sykes – part 3 (Candover)</b>
EA9a	Appendix 1 to Proof of Evidence - Environment Agency – RoC Appropriate Assessment 2005 (10.1) (see <a href="#">SC2.4</a> )
<a href="#">EA9b</a>	Appendix 2 to Proof of Evidence - Hampshire and Isle of Wight Water Resources Steering Group: Candover – Itchen Technical Working Group 2015 (10.2)
EA9c	Appendix 3 to Proof of Evidence - Letter from Environment Agency to Southern Water 30 September 2015 (10.3) (see <a href="#">SC2.25</a> )
EA9d	Appendix 4 to Proof of Evidence - Environment Agency - Part 2 Assessment of Ecological Risks 2016 (10.4) (see <a href="#">SC2.17</a> )
EA9e	Appendix 5 to Proof of Evidence - Environment Agency - Part 1 Hydrological Impact Analysis 2016 (10.5) (see <a href="#">SC2.16</a> )
EA9f	Appendix 6 to Proof of Evidence - Environment Agency - Final Report 2016 (10.6) (see <a href="#">SC2.18</a> )
EA9g	Appendix 7 to Proof of Evidence - Environment Agency - Appropriate Assessment 2016 (10.7) (see <a href="#">SC2.19</a> )
<a href="#">EA9h</a>	Appendix 8 to Proof of Evidence - Amec Technical note prepared on behalf of Southern Water – Evidence on the Chalk groundwater level drawdown risk to the flood plain wetlands around the lower Candover associated with proposed Candover Augmentation Scheme drought options - January 2018 (10.8)
<a href="#">EA9i</a>	Appendix 9 to Proof of Evidence - Itchen Groundwater Regulation Scheme Final Report, The Candover Pilot Scheme – June 1979 (10.9)
EA9j	Appendix 10 to Proof of Evidence - Letter from Natural England to Environment Agency – 14 July 2016 (10.10) (see <a href="#">SC2.15a</a> )
EA9k	Appendix 11 to Proof of Evidence - Letter from Natural England - 14 December 2016 (10.11) (see <a href="#">SC3.13d</a> )
<a href="#">EA9l</a>	Appendix 12 to Proof of Evidence - Environment Agency - Ecohydrological Guidelines for Lowland Wetlands Plant Communities – December 2004 (10.12)
EA9m	Appendix 13 to Proof of Evidence - Appendix 11 consultation form (10.13) (see <a href="#">SC2.21b</a> x)

<a href="#">EA9n</a>	Appendix 14 to Proof of Evidence - Wilby, R.L. Professor – An assessment of invertebrate-based target flows for the River Itchen, Hampshire – 28 April 2010 (10.14)
<a href="#">EA9o</a>	Appendix 15 to Proof of Evidence - Mainstone, C. et al – Natural England - A narrative for conserving freshwater and wetland habitats in England – 16 March 2016 (10.15)
EA9p	Appendix 16 to Proof of Evidence - Managing Natura 2000 Sites – the provisions of article 6 of the Habitats Directive 92/43/EE (10.16) (see <a href="#">SC3.10</a> )
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<a href="#">EA/R9a</a>	Appendix 1 to Rebuttal Proof of Evidence
<a href="#">EA10.1</a>	<b>Proof of Evidence of Tim Sykes – part 1 (Itchen)</b>
<a href="#">EA10.2</a>	<b>Proof of Evidence of Tim Sykes – part 2 (Itchen)</b>
<a href="#">EA10.3</a>	<b>Proof of Evidence of Tim Sykes – part 3 (Itchen)</b>
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EA10b	Appendix 2 to Proof of Evidence - Environment Agency – Itchen RoC Site Action Plan (3.2) (see <a href="#">SC3.4</a> )
<a href="#">EA10c</a>	Appendix 3 to Proof of Evidence - Wilby, R.L. Professor – An assessment of invertebrate-based target flows for the River Itchen, Hampshire – 28 April 2010 (3.3)
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<a href="#">EA10e</a>	Appendix 5 to Proof of Evidence - Phase II Ecology / Fisheries: Physical Habitat Simulation – Stage 2: Data and Modelling: methods and results. River Itchen Sustainability Study H(PR)06 – November 2004 (3.5)
EA10f	Appendix 6 to Proof of Evidence - Letter from Natural England to Environment Agency – 14 July 2016 (3.6) (see <a href="#">SC2.15a</a> )
EA10g	Appendix 7 to Proof of Evidence - Letter from Natural England – 14 December 2016 (3.7) (see <a href="#">SC3.13d</a> )
<a href="#">EA10h</a>	Appendix 8 to Proof of Evidence - Environment Agency - Ecohydrological Guidelines for Lowland Wetlands Plant Communities – December 2004 (3.8)
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<a href="#">EA10j</a>	Appendix 10 to Proof of Evidence - Ecology of the Southern Damselfly Conserving Natura 2000 Rivers Ecology Series No.8. English Nature 2003 (3.10)
<a href="#">EA10k</a>	Appendix 11 to Proof of Evidence - Environment Agency – Operational instruction 318_10 – Hydroecological validation using macroinvertebrate data (3.11)
EA10l	Appendix 12 to Proof of Evidence - Southern Water's draft licence for Otterbourne Groundwater licence 11/42/22.7/94 (3.12) (see <a href="#">SC3.12a-SC3.12c</a> )
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<a href="#">SWS3.1</a>	Errata to Proof of Evidence
<a href="#">SWS3a</a>	Appendix 1 to Proof of Evidence - Richard P. Chadd et al, 2017- An index to track the ecological effects of drought development and recovery on riverine invertebrate communities, in Ecological Indicators
<a href="#">SWS3b</a>	Appendix 2 to Proof of Evidence - Extence et al (1999), River flow indexing using British benthic macroinvertebrates: A framework for setting hydroecological objectives. Regulated Rivers: Research and Management 15, 543-574
<a href="#">SWS3c</a>	Appendix 3 to Proof of Evidence - Dawson et al, 1978 The seasonal effects of aquatic plant growth on the flow of water in a stream. Proc. Eur. Weed Res. Soc. 5th Int. Symp. Aquatic Weeds, Wageningen, p. 71 to 78.
<a href="#">SWS3d</a>	Appendix 4 to Proof of Evidence - Cranston E. and Darby E. (2004) Ranunculus in Chalk Rivers: Phase 2. Environment Agency Science Report WI-042/TR
<a href="#">SWS3e</a>	Appendix 5 to Proof of Evidence - Southey J (2004) River Kennet Macrophyte Flow Study Final Report. November 2004. Scott Wilson KirkPatrick. Report to Thames Water Utilities plc
<a href="#">SWS/R3</a>	<b>Rebuttal Proof of Evidence of Tessa Wardley</b>
<a href="#">SWS/R3a</a>	Appendix 1 to Rebuttal Proof of Evidence - The Ecology and Conservation of the Southern Damselfly ( <i>Coenagrion mercuriale</i> – Charpentier) in Britain, B Purse
<a href="#">SWS/R3b</a>	Appendix 2 to Rebuttal Proof of Evidence - An Investigation into the Effects of Drought and Drought Recovery on Macroinvertebrate Communities, Caroline Mullen
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<a href="#">SWS4b</a>	Appendix 2 to Proof of Evidence - Hatton-Ellis et al,(2003), Ecology of Watercourses Characterised by <i>Ranuncion fluitantis</i> and <i>Callitricho-Batrachion</i> Vegetation. Conserving Natura 2000 Rivers Ecology Series No. 11. English Nature, Peterborough.
<a href="#">SWS4c</a>	Appendix 3 to Proof of Evidence - Holdich, D. (2003). Ecology of the White-clawed Crayfish. Conserving Natura 2000 Rivers
<a href="#">SWS4d</a>	Appendix 4 to Proof of Evidence - JNCC (2008). UK Biodiversity Action Plan; Priority Habitat Descriptions. Coastal and floodplain grazing marsh
<a href="#">SWS4e</a>	Appendix 5 to Proof of Evidence - Maitland, P.S. (2003). Ecology of the River, Brook and Sea Lamprey. Conserving Natura 2000 Rivers Ecology Series No. 5. English Nature, Peterborough
<a href="#">SWS4f</a>	Appendix 6 to Proof of Evidence - Natural England, (1982). Baddesley Common SSSI Citation
<a href="#">SWS4g</a>	Appendix 7 to Proof of Evidence - Natural England, 2001. River Itchen SSSI Citation
<a href="#">SWS4h</a>	Appendix 8 to Proof of Evidence - The Environmental Project Consulting Group. (2017) Erner Bog and Baddesley Common Hydrological Desk Study
<a href="#">SWS4i</a>	Appendix 9 to Proof of Evidence - WFD-UKTAG, 2014, River Assessment Method. Benthic Invertebrate Fauna. Invertebrates (General Degradation): Whalley, Hawkes, Paisley & Trigg (WHPT) metric in River Invertebrate Classification Tool (RICT) UKTAG Method Statement.
<a href="#">SWS/R4</a>	<b>Rebuttal Proof of Evidence of Dr Andrew Brooks</b>

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<a href="#">SWS10b.2</a>	Appendix 2 to Proof of Evidence - APEM (2018) Preliminary Assessment of River Flow Impacts on Salmon Migration Resulting from Alternative Hands Off Flows in Simulated Extreme Drought Scenarios. APEM Ltd., Ref P01696, Report to Southern Water Services, 31/1/2018
<a href="#">SWS10b.3</a>	Appendix 3 to Proof of Evidence - Preliminary Assessment of River Flow Impacts on Salmon Migration Resulting from Alternative Hands off Flows In Simulated Extreme Drought Scenarios, Report to Southern Water Services, 31/01/2018
<a href="#">SWS10b.4</a>	Appendix 4 to Proof of Evidence - Banks, J.W. (1969) A review of the literature on the upstream migration of Adult salmonids. Journal of Fish Biology 1
<a href="#">SWS10b.5</a>	Appendix 5 to Proof of Evidence - Cefas/EA/NRW (2017) Salmon Stocks of England and Wales in 2016. Preliminary assessment prepared for ICES, March 2017. Cefas, Lowestoft
<a href="#">SWS10b.6</a>	Appendix 6 to Proof of Evidence - Davidsen, J. G., Rikardesn, A.H., Thorstad, E. B., Halttunen, E., Mitamura, H., Praebel, K., Skarohamar, J. and Naesje, T. F. (2013) Homing behaviour of Atlantic salmon ( <i>Salmo salar</i> ) during final phase of marine migration and river entry. Canadian Journal of Fisheries and Aquatic Sciences 70
<a href="#">SWS10b.7</a>	Appendix 7 to Proof of Evidence - Fenn, C. and Scarbaci, A. (2016) Time Series Analysis of daily salmon count data from the Great Test at Nursling Mill, 1996-2007. Hydro-Logic Services Report to Southern Water Services, November 2016
<a href="#">SWS10b.8</a>	Appendix 8 to Proof of Evidence - Mawle, G.W and Milner, N.J. (2003). The recovery of salmon rivers in England and Wales. Proceedings of Atlantic Salmon Symposium, Edinburgh, July 2002
<a href="#">SWS10b.9</a>	Appendix 9 to Proof of Evidence - Milner, N.J., Dunbar, M.J., Newson, M.D., Potter, E.C.E, Solomon, D.J., Armstrong, J.A., Mainstone, C.P., Llewelyn, C.I. (2010). Managing River Flows for Salmonids: Evidence Based Practice. Proceedings of Atlantic Salmon Trust Workshop, Pitlochry, March 2010
<a href="#">SWS10b.10</a>	Appendix 10 to Proof of Evidence - Milner N.J., Solomon D.J. & Smith G.W. (2012a). The role of river flow in the migration of adult Atlantic salmon, <i>Salmo salar</i> , through estuaries and rivers. Fisheries Management and Ecology 19
<a href="#">SWS10b.11</a>	Appendix 11 to Proof of Evidence - Moore, A., Bendall, B., Waring, C., Crooks, N. and Crooks, L. (2102) River temperature and adult anadromous Atlantic salmon, <i>Salmo salar</i> , and brown trout, <i>Salmo trutta</i> . Fisheries management and ecology 19
<a href="#">SWS10b.12</a>	Appendix 12 to Proof of Evidence - Murray, J. (2005) Effects of Flow on the Migration Habits of Adult Atlantic Salmon in the River Frome. MSc Thesis, Department of Mathematics, University of York
<a href="#">SWS10b.13</a>	Appendix 13 to Proof of Evidence - Poff, N.L., Allan, J.D., Bain, M.B., et al. (1997) The natural flow regime. BioScience 47
<a href="#">SWS10b.14</a>	Appendix 14 to Proof of Evidence of - Poff, N.L. and Zimmerman J.K.H. (2010) Ecological response to altered flow regimes: a literature review to inform the science and management of environmental flows. Freshwater Biology, 55
<a href="#">SWS10b.15</a>	Appendix 15 to Proof of Evidence - Potter, E.C.E. (1988) Movements of Atlantic salmon, <i>Salmo Salar</i> L., in an estuary in south-west England. Journal of Fish Biology 33, Supplement A,
<a href="#">SWS10b.16</a>	Appendix 16 to Proof of Evidence - Stabell, O.B. (1984) Homing and olfaction in salmonids: a critical review with special reference to the Atlantic salmon. Biological Reviews, 59

<a href="#">SWS19b.17</a>	Appendix 17 to Proof of Evidence - Sniffer (2012) Ecological indicators of the effects of abstraction and flow regulation; and optimisation of flow releases from water storage reservoirs. Report WFD 21d
<a href="#">SWS10b.18</a>	Appendix 18 to Proof of Evidence - Solomon, D. J. and Sambrook, H. T. (2004) Effects of hot dry summers on the loss of Atlantic salmon, <i>Salmo salar</i> , from estuaries in South West England. Fisheries Management and Ecology, 11
<a href="#">SWS10b.19</a>	Appendix 19 to Proof of Evidence - Vincenzi, S., Crivelli, A.J., Satterthwaite, W.H. and Mangel, M. (2014) Eco-evolutionary dynamics induced by massive mortality events. Journal of Fish Biology 85
<a href="#">SWS/R10</a>	<b>Rebuttal Proof of Evidence of Dr Nigel Milner</b>
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