

ITCHEN, CANDOVER AND TESTWOOD WATER ABSTRACTION INQUIRY

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EA4f	Appendix 6 to Proof of Evidence - Map of Lower Test key features (6.6)
EA4g	Appendix 7 to Proof of Evidence - Cefas, Environment Agency and Natural Resources Wales – Salmon stocks and fisheries in England and Wales 2016 (6.7)
EA4h	Appendix 8 to Proof of Evidence - Environment Agency – Managing salmon stocks in England and Wales (6.8)
EA4i	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)

EA4j	Appendix 10 to Proof of Evidence - Environment Agency – Solent and South Downs: Fish Monitoring Report 2016 (6.10)
EA4k	Appendix 11 to Proof of Evidence - Parrish, D.L. et al Why aren't there more Atlantic salmon (<i>Salmo alar</i>)? – 1998 (6.11)
EA4l	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)
EA4m	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)
EA4n	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)
EA4o	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)
EA4p	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)
EA/R4	Rebuttal Proof of Evidence of Dominic Longley (Testwood)
EA/R4a	Appendix 1 to Rebuttal Proof of Evidence
EA/R4b	Appendix 2 to Rebuttal Proof of Evidence
EA/R4c	Appendix 3 to Rebuttal Proof of Evidence
EA/R4d	Appendix 4 to Rebuttal Proof of Evidence
EA/R4e	Appendix 5 to Rebuttal Proof of Evidence
EA/R4f	Appendix 6 to Rebuttal Proof of Evidence
EA/R4g	Appendix 7 to Rebuttal Proof of Evidence
EA/R4h	Appendix 8 to Rebuttal Proof of Evidence
EA/R4i	Appendix 9 to Rebuttal Proof of Evidence
EA/R4j	Appendix 10 to Rebuttal Proof of Evidence
EA/R4k	Appendix 11 to Rebuttal Proof of Evidence
EA/R4l	Appendix 12 to Rebuttal Proof of Evidence
EA/R4m	Appendix 13 to Rebuttal Proof of Evidence
EA/R4n	Appendix 14 to Rebuttal Proof of Evidence
EA/R4o	Appendix 15 to Rebuttal Proof of Evidence
EA/R4p	Appendix 16 to Rebuttal Proof of Evidence
EA/R4q	Appendix 17 to Rebuttal Proof of Evidence
EA/R4r	Appendix 18 to Rebuttal Proof of Evidence
EA/R4s	Appendix 19 to Rebuttal Proof of Evidence
EA/R4t	Appendix 20 to Rebuttal Proof of Evidence
EA/R4u	Appendix 21 to Rebuttal Proof of Evidence
EA5	Proof of Evidence of Benjamin Rushbrook (Candover)
EA5a	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)
EA5b	Appendix 2 to Proof of Evidence - Holdich et al – The indigenous status of <i>Austropotamobius pallipes</i> (Lereboullet) in Britain – 2009 (8.2)
EA5c	Appendix 3 to Proof of Evidence - Sibley, P.J. – Conservation management and legislation the UK experience – 2003 (8.3)
EA5d	Appendix 4 to Proof of Evidence - Hodich, D.M. & Sibley, P.J. – ICS and NICS in Britain in the 2000s – 2009 (8.4)

EA5e	Appendix 5 to Proof of Evidence - Füreder, et al – Austropotamobius pallipes, White-clawed crayfish – 2010 (8.5)
EA5f	Appendix 6 to Proof of Evidence - Rogers, D & Watson, E – Distribution database for crayfish in England and Wales (8.6)
EA5g	Appendix 7 to Proof of Evidence - Hutchings, A – Monitoring Austropotamobius pallipes (Lereboullet) in a chalk stream in southern England – 2009 (8.7)
EA5h	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 SC2.17)
EA5j	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)
EA5k	Appendix 11 to Proof of Evidence - Rushbrook, B – Crayfish Survey Report – 2009 (8.11)
EA5l	Appendix 12 to Proof of Evidence - Browne, C – Interim report to the Environment Agency – November 2010 (8.12)
EA5m	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)
EA5n	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 SC2.16)
EA5p	Appendix 16 to Proof of Evidence - Barbaresi, S & Gherardi, F – Daily activity of the white-clawed crayfish, Austropotamobius pallipes (Lereboullet): a comparison between field and laboratory studies – 2001 (8.16)
EA5q	Appendix 17 to Proof of Evidence - Gherardi, F – Biology of freshwater crayfish - Behaviour pp. 258 – 290, 2002 (8.17)
EA5r	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)
EA5s	Appendix 19 to Proof of Evidence - Lucas, et al – Morpeth Flood Alleviation Scheme – Impacts on white-clawed crayfish (8.19)
EA5t	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)
EA5u	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)
EA5v	Appendix 22 to Proof of Evidence - Demer, A et al – Habitat preference of different size classes of Austropotamobius Pallipes in an Irish river – 2003 (8.22)
EA5w	Appendix 23 to Proof of Evidence - Buenvento, C et al – Microhabitat use by the white-clawed crayfish in a Tuscan stream – 2008 (8.23)
EA5x	Appendix 24 to Proof of Evidence - Reynolds, J.D. – Biology of freshwater crayfish – Growth and reproduction pp152 – 191 – 2002 (8.24)
EA5y	Appendix 25 to Proof of Evidence - Nyström, P – Biology of freshwater crayfish – Ecology pp. 192 – 235 – 2002 (8.25)
EA5z	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 SC2.19)

EA5bb	Appendix 28 to Proof of Evidence - Environment Agency – Final Report 2016 (8.28) (see SC2.18)
EA5cc	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)
EA/R5	Rebuttal Proof of Evidence of Benjamin Rushbrook (Candover)
EA6	Proof of Evidence of Lisa Winfield
EA6a	Appendix 1 to Proof of Evidence - Environment Agency – Drought response: our framework for England – June 2015 (1.1)
EA6b	Appendix 2 to Proof of Evidence - Environment Agency - Water Resources Planning Guideline: Interim update – April 2017 (1.2)
EA6c	Appendix 3 to Proof of Evidence - Environment Agency – Exceptional shortage of rain (1.3)
EA6d	Appendix 4 to Proof of Evidence - Environment Agency – Drought permit and order application ready – November 2016 (1.4)
EA6e	Appendix 5 to Proof of Evidence - Environment Agency – Environmental assessment in Water Company Drought Plans – September 2017 (1.5)
EA6f	Appendix 6 to Proof of Evidence - Environment Agency - Example control curves (1.6)
EA6g	Appendix 7 to Proof of Evidence - Environment Agency – Drought Contingency Planning Guideline - June 1999 (1.7)
EA6h	Appendix 8 to Proof of Evidence - Sutton and East Surrey Water Plc Drought Order DO/06/02 – 29 March 2006 (1.8)
EA6i	Appendix 9 to Proof of Evidence - Defra's 2011 guidance – How to write and publish a drought plan (1.9)
EA6j	Appendix 10 to Proof of Evidence - Drought Orders in England 1989 – 2017 (1.10)
EA6k	Appendix 11 to Proof of Evidence - Drought permit - Bewl water reservoir - 16 January 2018 (1.11)
EA6l	Appendix 12 to Proof of Evidence - Drought permit - Bewl water reservoir - 16 January 2018 (1.12)
EA6m	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)
EA6n	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)
EA6o	Appendix 15 to Proof of Evidence - South East River Basin Management Plan 2015 – 2021 – December 2015 (1.15)
EA/R6	Rebuttal Proof of Evidence of Lisa Winfield
EA7	Proof of Evidence of Mike O'Neill
EA7a	Appendix 1 to Proof of Evidence - Environment Agency – Extract from investigation manual – 11 December 2017 (2.1)
EA7b	Appendix 2 to Proof of Evidence - Home Office – Code of practice – Powers of Entry – December 2014 (2.2)
EA7c	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 SC4.17m)
EA7e	Appendix 5 to Proof of Evidence - Itchen SAC Review of consents (2.5) (see SC3.3)
EA7f	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 SC3.5)
EA7h	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 SC2.1)
EA7j	Appendix 10 to Proof of Evidence - Letter from Defra to Southern Water – 11 August 2016 (2.10) (see SC2.7)
EA7k	Appendix 11 to Proof of Evidence - Letter from Defra to Southern Water – 26 March 2014 (2.11 duplicate of EA7h)
EA/R7	Rebuttal Proof of Evidence of Mike O'Neill
EA/R7a	Appendix 1 to Rebuttal Proof of Evidence
EA/R7b	Appendix 2 to Rebuttal Proof of Evidence
EA/R7c	Appendix 3 to Rebuttal Proof of Evidence
EA/R7d	Appendix 4 to Rebuttal Proof of Evidence
EA/R7e	Appendix 5 to Rebuttal Proof of Evidence
EA8	Proof of Evidence of Tim Sykes (Testwood)
EA8a	Appendix 1 to Proof of Evidence - Environment Agency's – Testwood Licence Change Proposal Report (4.1) (see SC4.17a-SC4.17s)
EA8b	Appendix 2 to Proof of Evidence - Franklin, P, Dunbar, M., & Whitehead, P – Flow controls on lowland river macrophytes: A review – 2008 (4.2)
EA8c	Appendix 3 to Proof of Evidence - Water UK - Blueprint for PR19 (4.3)
EA8d	Appendix 4 to Proof of Evidence - Defra Strategic Policy Statement (4.4)
EA8e	Appendix 5 to Proof of Evidence - Ofwat – Resilience in the Round – September 2017 (4.5)
EA8f	Appendix 6 to Proof of Evidence - Water UK – Long Term Planning Framework – 2016 (4.6)
EA8g	Appendix 7 to Proof of Evidence - Southern Water – Water Futures in the South East – Towards 2050 (4.7)
EA8h	Appendix 8 to Proof of Evidence - Environment Agency - Position statement on implementing hydro-morphological measures – September 2015 (4.8)
EA8i	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 SC4.6)
EA9.1	Proof of Evidence of Tim Sykes – part 1 (Candover)
EA9.2	Proof of Evidence of Tim Sykes – part 2 (Candover)
EA9.3	Proof of Evidence of Tim Sykes – part 3 (Candover)
EA9a	Appendix 1 to Proof of Evidence - Environment Agency – RoC Appropriate Assessment 2005 (10.1) (see SC2.4)
EA9b	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 SC2.25)
EA9d	Appendix 4 to Proof of Evidence - Environment Agency - Part 2 Assessment of Ecological Risks 2016 (10.4) (see SC2.17)
EA9e	Appendix 5 to Proof of Evidence - Environment Agency - Part 1 Hydrological Impact Analysis 2016 (10.5) (see SC2.16)
EA9f	Appendix 6 to Proof of Evidence - Environment Agency - Final Report 2016 (10.6) (see SC2.18)
EA9g	Appendix 7 to Proof of Evidence - Environment Agency - Appropriate Assessment 2016 (10.7) (see SC2.19)
EA9h	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)
EA9i	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 SC2.15a)
EA9k	Appendix 11 to Proof of Evidence - Letter from Natural England - 14 December 2016 (10.11) (see SC3.13d)
EA9l	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 SC2.21bx)
EA9n	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)
EA9o	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 SC3.10)
EA9q	Appendix 17 to Proof of Evidence - Letter from Natural England to Environment Agency - 6 December 2007 (10.17)
EA/R9	Rebuttal Proof of Evidence of Tim Sykes (Candover)
EA/R9a	Appendix 1 to Rebuttal Proof of Evidence
EA10.1	Proof of Evidence of Tim Sykes – part 1 (Itchen)
EA10.2	Proof of Evidence of Tim Sykes – part 2 (Itchen)
EA10.3	Proof of Evidence of Tim Sykes – part 3 (Itchen)
EA10a	Appendix 1 to Proof of Evidence - Environment Agency – RoC Appropriate Assessment (3.1) (see SC3.3)
EA10b	Appendix 2 to Proof of Evidence - Environment Agency – Itchen RoC Site Action Plan (3.2) (see SC3.4)
EA10c	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)
EA10d	Appendix 4 to Proof of Evidence - Environment Agency – Candover EA Part 2 Report 2016 (3.4) (see SC2.17)
EA10e	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 SC2.15a)
EA10g	Appendix 7 to Proof of Evidence - Letter from Natural England – 14 December 2016 (3.7) (see SC3.13d)
EA10h	Appendix 8 to Proof of Evidence - Environment Agency - Ecohydrological Guidelines for Lowland Wetlands Plant Communities – December 2004 (3.8)
EA10i	Appendix 9 to Proof of Evidence - River Itchen Steering Group - Wet Grassland Modelling Technical Ref H(PR)09 – November 2004 (3.9)
EA10j	Appendix 10 to Proof of Evidence - Ecology of the Southern Damselfly Conserving Natura 2000 Rivers Ecology Series No.8. English Nature 2003 (3.10)
EA10k	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 SC3.12a-SC3.12c)

EA/R10	Rebuttal Proof of Evidence of Tim Sykes (Itchen)
EA/R10a	Appendix 1 to Rebuttal Proof of Evidence
EA/R10b	Appendix 2 to Rebuttal Proof of Evidence
EA/R10c	Appendix 3 to Rebuttal Proof of Evidence
EA/R10d	Appendix 4 to Rebuttal Proof of Evidence
EA/R11	Rebuttal Proof of Evidence of Sam Bunce
Southern Water Services	
SWS1	Proof of Evidence of Andy Blaxland
SWS2	Proof of Evidence of Robin Smale
SWS2a	Appendix 1 to Proof of Evidence – Green Book
SWS2b	Appendix 2 to Proof of Evidence – EA 2012 Updating the National Water Environment Benefit Survey values
SWS/R2	Rebuttal Proof of Evidence of Robin Smale
SWS3	Proof of Evidence of Tessa Wardley
SWS3.1	Errata to Proof of Evidence
SWS3a	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
SWS3b	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
SWS3c	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.
SWS3d	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
SWS3e	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
SWS/R3	Rebuttal Proof of Evidence of Tessa Wardley
SWS/R3a	Appendix 1 to Rebuttal Proof of Evidence - The Ecology and Conservation of the Southern Damselfly (<i>Coenagrion mercuriale</i> – Charpentier) in Britain, B Purse
SWS/R3b	Appendix 2 to Rebuttal Proof of Evidence - An Investigation into the Effects of Drought and Drought Recovery on Macroinvertebrate Communities, Caroline Mullen
SWS4	Proof of Evidence of Dr Andrew Brooks
SWS4a	Appendix 1 to Proof of Evidence - Buglife (2011). Species dossier. <i>Baetis niger</i> Southern iron blue
SWS4b	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.
SWS4c	Appendix 3 to Proof of Evidence - Holdich, D. (2003). Ecology of the White-clawed Crayfish. Conserving Natura 2000 Rivers
SWS4d	Appendix 4 to Proof of Evidence - JNCC (2008). UK Biodiversity Action Plan; Priority Habitat Descriptions. Coastal and floodplain grazing marsh
SWS4e	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

SWS4f	Appendix 6 to Proof of Evidence - Natural England, (1982). Baddesley Common SSSI Citation
SWS4g	Appendix 7 to Proof of Evidence - Natural England, 2001. River Itchen SSSI Citation
SWS4h	Appendix 8 to Proof of Evidence - The Environmental Project Consulting Group. (2017) Erner Bog and Baddesley Common Hydrological Desk Study
SWS4i	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.
SWS/R4	Rebuttal Proof of Evidence of Dr Andrew Brooks
SWS/R4a	Appendix 1 to Rebuttal Proof of Evidence - Candover Pilot Scheme Final Report 1979
SWS5	Proof of Evidence of Robert Soley
SWS5a	Appendices to Proof of Evidence of Robert Soley
SWS5b	Figures to Proof of Evidence of Robert Soley
SWS5c	Soberton Licence, April 2016 (footnote 47 of proof)
SWS5d	Southern Water's representation on the Environment Agency submission for - Renewal of Environment Agency Candover abstraction licence (footnote 48 of proof)
SWS/R5	Rebuttal Proof of Evidence of Robert Soley
SWS/R5a	Appendices to Rebuttal Proof of Evidence
SWS6	Proof of Evidence of Ben Piper
SWS6a	Appendix to Proof of Evidence– Interpretation of Hydrology for Aquator, Southern Water, 17 January 2018
SWS/R6	Rebuttal Proof of Evidence of Ben Piper
SWS7	Proof of Evidence of Nigel Hepworth
SWS7a	Appendix 1 to Proof of Evidence - Southern Water Technical Note Western Area Exceptional Shortage of Rain Analysis
SWS7b	Appendix 2 to Proof of Evidence - Copy of email showing agreement in principle from Natural England to River Itchen Habitats Regulations compensation framework in 2016
SWS7c	Appendix 3 to Proof of Evidence - 22 April 2009 agreement between the EA and Thames Water Utilities Ltd ("TWUL") relating to the operation of Beckton Water Treatment (Desalination) Plant
SWS7d	Appendix 4 to Proof of Evidence - 19 December 2016 agreement between the EA and TWUL relating the Lower Thames Abstraction Scheme
SWS7e	Appendix 5 to Proof of Evidence - 2004 agreement between the EA and Three Valleys Water Pie relating to abstraction in the Misbourne Valley
SWS7f	Appendix 6 to Proof of Evidence - 21 July 2015 agreement between the EA and United Utilities Ltd relating to the operation of abstractions from South Egremont Boreholes and Ennerdale Water
SWS7g	Appendix 7 to Proof of Evidence - 1987 Severn Trent Water Egginton Abstraction Licence
SWS/R7	Rebuttal Proof of Evidence of Nigel Hepworth
SWS/R7a	Appendix 1 to Rebuttal Proof of Evidence - WRMP supply-demand balance deficits
SWS/R7b	Appendix 2 to Rebuttal Proof of Evidence - WRMP deployable output for Testwood and Lower Itchen sources. Variation of deployable output by drought severity with EAs licence changes
SWS/R7c	Appendix 3 to Rebuttal Proof of Evidence - Example within-day (hourly) abstraction data for Testwood
SWS/R7d	Appendix 4 to Rebuttal Proof of Evidence - Summary tables

SWS/R7e	Appendix 5 to Rebuttal Proof of Evidence - Plots from Aquator
SWS8	Proof of Evidence of Phil Sutherland
SWS8a	Appendix to Proof of Evidence – Technical Note, Hydraulic model extension, 20 December 2017
SWS/R8	Rebuttal Proof of Evidence of Phil Sutherland
SWS9	Proof of Evidence of Meyrick Gough
SWS/R9	Rebuttal Proof of Evidence of Meyrick Gough
SWS10	Proof of Evidence of Dr Nigel Milner
SWS10a	Publication List (appended to proof)
SWS10b.1	Appendix 1 to Proof of Evidence - Aas, O., Einum, S., Klemetsen, A., and Skurdal, J. (2011) Atlantic Salmon Ecology. Wiley Blackwell
SWS10b.2	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
SWS10b.3	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
SWS10b.4	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
SWS10b.5	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
SWS10b.6	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
SWS10b.7	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
SWS10b.8	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
SWS10b.9	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
SWS10b.10	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
SWS10b.11	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
SWS10b.12	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
SWS10b.13	Appendix 13 to Proof of Evidence - Poff, N.L., Allan, J.D., Bain, M.B., et al. (1997) The natural flow regime. BioScience 47

SWS10b.14	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. <i>Freshwater Biology</i> , 55
SWS10b.15	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. <i>Journal of Fish Biology</i> 33, Supplement A,
SWS10b.16	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. <i>Biological Reviews</i> , 59
SWS19b.17	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
SWS10b.18	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. <i>Fisheries Management and Ecology</i> , 11
SWS10b.19	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. <i>Journal of Fish Biology</i> 85
SWS/R10	Rebuttal Proof of Evidence of Dr Nigel Milner
Natural England	
NE1	Proof of Evidence of Chris Mainstone
NE1a	Summary Proof of Evidence of Chris Mainstone
NE1b.1	Appendix 1 to Proof of Evidence – Climate Change Adaptation Manual 2014
NE1b.2	Appendix 2 to Proof of Evidence – Mainstone et al - 2016, Conserving Freshwater Wetland Habitats
NE1b.3	Appendix 3 to Proof of Evidence - Mainstone et al – 2014, Priority River Habitat Mapping Targeting
NE1b.4	Appendix 4 to Proof of Evidence - Mainstone et al – 2015, Refining Priority River Habitat Map
NE1b.5	Appendix 5 to Proof of Evidence - Mainstone et al – In Press Development of Condition Assessment Framework for Freshwater Habitats
NE1b.6	Appendix 6 to Proof of Evidence – Mainstone Clarke – 2008, Managing Stressors for Freshwater Wildlife
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NE1b.9	Appendix 9 to Proof of Evidence – Freshwater LCN-2010, Review of UK CSMG for Designated Rivers
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